Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 16

Imperial Sun Nella Raven F-75 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor Peter Bawden Type Rig N.A.T. 50-A Month Mar. Day 11 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. ..... Table R.P.M.

Jet or Conventional - ..... Nozzle Size

SURVEYS

Kind ..... at ..... Ft. ..... Deg. off

MUD PUMP RECORD

No. 1

No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
WELD PLATE ON CSG F'	12⁰⁰	5⁰⁰	
TEAR OUT.	5⁰⁰	8⁰⁰	
Rig Released @			
5⁰⁰ AM			

Driller W. T. Brooks

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. ..... Table R.P.M.

Jet or Conventional - ..... Nozzle Size

Kind ..... at ..... Ft. ..... Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.

Driller .....

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. ..... Table R.P.M.

Jet or Conventional - ..... Nozzle Size

Kind ..... at ..... Ft. ..... Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.

Driller .....

CLASSES OF TIME BREAKDOWN

ADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:

LING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:

ING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. ~~77~~ 75

Imperial Sun Vetta Kaven F-73 LSD..... SEC..... TWN..... RGE..... W..... Contractor Pete Bawden Type Rig NAT-50-A Month May Day 10 1962

1

1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To. 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILLING STRING

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR					DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

No. 1
No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

From	To	Hrs.	Activity
12:00	7:30	7½	Wait on daylight Drunk
7:30	8:00	½	Swabbing

Driller W. Brooks

2nd Tour

From	To	Hrs.	Activity
8:00	4:00	8	SWABBING

USED
1 SET "KING" SAVER RUBBERS
1 SET (IT LOOSE TYPE) SWAB RUBBERS

Driller L. Majean

3rd Tour

From	To	Hrs.	Activity
4:00	7:00	3	Swabbing
7:00			Pick up 3 1/2" Tubing
	8:15	1¼	Run Plug #3
8:15	10:45	2½	Lay Down Tubing.
10:45	12:00	1¼	Tear out Xmas Tree & Clean Cellar.

USED
1 SET SAVER RUBBERS.

Driller E. L. Betts

Ran 47 Sack Cement Plug #3
From 1758.89 To 1478'
Plug Down @ 8:30

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES..... NO.....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W. Bawden Approved by .....

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. ~~76~~ 74

Imperial Oil Sun Nitla Raven F-35 — LSD ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor Pete Pandora Type Rig NAT 50-A Month Mar Day 9 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation
	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.
DRILLING STRING	DRILL / Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL	DRILL / Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL	DRILL / Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL
	COLLAR / DRILLING STRING / DRILL COLLARS	COLLAR / DRILLING STRING / DRILL COLLARS	COLLAR / DRILLING STRING / DRILL COLLARS
	DATA	DATA	DATA
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed
	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.
	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size
SURVEYS	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off
MUD PUMP RECORD No. 1 No. 2	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

From	To	Hrs.	Operations
12:00	7:15	7¼	Wait on daylite to come
7:15	8:00	¾	Swabbing
			Run 3 (5 swabs; 460-820
			F 1280.
			Topped fluid @ 980'

Driller W. Brooks

From	To	Hrs.	Operations
8:00	4:00	8	Swabbing
			USED:
			5 SETS "KING" SAVER RUBBERS
			5 SETS BT (DISC) SWAB RUBBERS

Driller L. DeSpain

From	To	Hrs.	Operations
4:00	7:30	3½	Swabbing
7:30	11:30	4	W. O. Daylight To Swab.
			Used 1 set of King Saver Rubbers.

Driller E. L. Hicks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher W. L. Parker Approved by .....

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IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 75 73

Fm Rural Sun Rubb Raven F-73 LSD. SEC. TWN. RGE. W. Contractor Peter Bawden Type Rig N.A.T. 50-A Month Mar. Day 8 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation
	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.
DRILLING STRING	DRILL / Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL	DRILL / Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL	DRILL / Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL
	COLLAR / DRILLING STRING / DRILL COLLARS	COLLAR / DRILLING STRING / DRILL COLLARS	COLLAR / DRILLING STRING / DRILL COLLARS
	DATA	DATA	DATA
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed
	Bit Serial No. Table R.P.M.	Bit Serial No. Table R.P.M.	Bit Serial No. Table R.P.M.
	Jet or Conventional - Nozzle Size	Jet or Conventional - Nozzle Size	Jet or Conventional - Nozzle Size
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
MUD PUMP RECORD No. 1 No. 2	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

From	To	Hrs.	Description
12:00	8:00	8	Wait on daylite to frac

Driller W. F. Brooks

From	To	Hrs.	Description
			Sandfrac down tbg w. 4½ 4000 # 20-40 mesh sand in 2500 gal diesel oil. Av. feed rate of 18 BPM at 1600 psi. L.A. Petty.
8:00	11:30	3½	SAND FRAC
11:30	12:30	1	RIG UP TO SWAB
12:30	4:00	3½	W. O. ORDERS

Driller L. Majeau

From	To	Hrs.	Description
4:00	12:00	8.	W. O. ORDERS.

Driller E. L. Hutts.

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ____ REEL SERIAL No. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____ YES ____ NO ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher ____ Approved by ____

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IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. ~~11~~ 12

LSD. Imperial SEC. Swan Hills TWN. Raven I-33 RGE. W. Contractor Eldo Brandon Type Rig NAT. 50-A Month Mar. Day 7 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation
	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.
DRILLING STRING			
DRILL	Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL	Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL	Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL
COLLAR	DRILLING STRING / DRILL COLLARS	DRILLING STRING / DRILL COLLARS	DRILLING STRING / DRILL COLLARS
DATA			
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed
	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.
	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size
SURVEYS	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off
MUD PUMP RECORD	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size
No. 1			
No. 2			
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs.	From / To / Hrs.	From / To / Hrs.
	Wait on Frac Truck 12:00 / 8:00 / 8		W. O. Frac Truck. 4:00 / 10:00 / 6
			W. O. Daylight To Frac. 10:00 / 12:00 / 2
	Driller W. Brandon	Driller	Driller E. L. Hicks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W. Conlin Approved by .....

Form 3440-2 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 271

Imperial Sur Nota Raven F-73 LSD. SEC. TWN. RGE. W. Contractor Peter Bawden Type Rig NAT 50-A Month Mar Day 6 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation
	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.
DRILLING STRING	DRILL / Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL COLLAR / DRILLING STRING / DRILL COLLARS DATA	DRILL / Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL COLLAR / DRILLING STRING / DRILL COLLARS DATA	DRILL / Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL COLLAR / DRILLING STRING / DRILL COLLARS DATA
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed Bit Serial No. / Table R.P.M. Jet or Conventional - / Nozzle Size Kind / at / Ft. / Deg. off	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed Bit Serial No. / Table R.P.M. Jet or Conventional - / Nozzle Size Kind / at / Ft. / Deg. off	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed Bit Serial No. / Table R.P.M. Jet or Conventional - / Nozzle Size Kind / at / Ft. / Deg. off
SURVEYS			
MUD PUMP RECORD No. 1 No. 2	HOURS: On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS: On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS: On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs. WAIT ON FRAC. TRUCK. 12:00 / 8:00 / 8:00	From / To / Hrs. WAIT ON FRAC TRUCK 9:00 / 1:00 / 8	From / To / Hrs. W. O. FRAC TRUCK. 4:00 / 12:00 / 8.
	Driller A. Brooks	Driller	Driller C. L. Hutchison

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W. Coates Approved by .....

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 72 TO

Imperial LSD. Sun SEC. Rutha TWN. Raven RGE. F-75 W. Contractor Eric Powell Type Rig NAT. 50-A Month Mar Day 5 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation
DRILLING STRING	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.
	DRILL COLLAR DATA: Number / OD / ID / Length; INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA: Number / OD / ID / Length; INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA: Number / OD / ID / Length; INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE: Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE: Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE: Drilled / Reamed
	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.
	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size
SURVEYS	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off
MUD PUMP RECORD No. 1 No. 2	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Ran Gamma - Ray Correlation log on 5" & 25" scales over interval 1600' - T.D.	12⁰⁰		
Perforated intervals 1713.5' - 1718.5', 1731.5' - 1737.5', 1741.5' - 1744.5' at 2 shots per foot		2⁰⁰	2
Rig Up & Wo Daylite To Swab	2⁰⁰	8⁰⁰	6

	From	To	Hrs.
Rig Ser	8⁰⁰	8¹⁵	1/4
Swabbing	8¹⁵	4⁰⁰	7 3/4
3 Sets "King" Saver Rubbers			
2 Sets 3J (Disc Type) Swab Rubbers			

	From	To	Hrs.
Sabb. u. c.	4⁰⁰	9⁰⁰	5
W. O. Sand Frac Truck	9⁰⁰	12⁰⁰	3

Driller J. T. Brooks

Driller

Driller E. V. Hutchings

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE: REEL SERIAL No.:
MNFR. OF KELLY HOSE IN USE: HOSE SERIAL No.:
DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES NO

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher L. Hanlon Approved by .....

Form 34402 (300 bks.-10-61)

Imperial Sun Beta Raven F-73 **IMPERIAL OIL LIMITED**

LSD..... SEC..... TWN..... RGE..... W..... Contractor Peter Bawden Drilling Type Rig NATCO-A Month MAR Day 8 19 62

DAILY DRILLING REPORT No. 7769

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL COLLAR					DRILLING STRING / DRILL COLLARS
DATA					

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
LAY DOWN SQLS ELAND	12:00		1
TUBING.		1:00	
NIPPLE UP TREE	1:00	2:30	1½
W.O. SCHLUMBERGER	2:30	6:15	3¾
RIG UP SCHLUMBERGER	6:15	6:45	½
RUN GAMA RAY LOG	6:45	8:00	1¼
GAMA-RAY NOT OPERATIONABLE.			

Driller W. Brook

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL COLLAR					DRILLING STRING / DRILL COLLARS
DATA					

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RUN C-AMA RAY LOG NOT WORKING	8:00	12:00	
W.O.O	12:00	4:00	

Driller [signature]

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
DRILL COLLAR					DRILLING STRING / DRILL COLLARS
DATA					

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
TRY TO LOG.	4:00	8:30	4½
LOGGING & PERFORATING.	8:30	12:00	3½

Driller E L Betts

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. ..... DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. ..... YES..... NO.....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W. Conley Approved by .....

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 70 68

Imp Raven LSD. F SEC. 15 TWN. ____ RGE. ____ W. ____ Contractor Peter Bowden Drlg. Type Rig Nat 50 A. Month March Day 3 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From: 7958. To:	From: To:	From: To:
	Hole Made: Hole Size: Formation:	Hole Made: Hole Size: Formation:	Hole Made: Hole Size: Formation:
DRILLING STRING	Size-D.P.: Stands: Singles: Kelly: Drill. Collar Ft.: Core Bbl. Ft.	Size-D.P.: Stands: Singles: Kelly: Drill. Collar Ft.: Core Bbl. Ft.	Size-D.P.: Stands: Singles: Kelly: Drill. Collar Ft.: Core Bbl. Ft.
	DRILL COLLAR DATA: Number, OD, ID, Length; INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA: Number, OD, ID, Length; INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA: Number, OD, ID, Length; INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS
BIT RECORD	No., Type, Time On Bottom At, Time Pulled At, Total Hours Run, Depth Pulled, Weight On Bit M Pounds, FOOTAGE Drilled, Reamed	No., Type, Time On Bottom At, Time Pulled At, Total Hours Run, Depth Pulled, Weight On Bit M Pounds, FOOTAGE Drilled, Reamed	No., Type, Time On Bottom At, Time Pulled At, Total Hours Run, Depth Pulled, Weight On Bit M Pounds, FOOTAGE Drilled, Reamed
	Bit Serial No. Table R.P.M. Jet or Conventional - Nozzle Size	Bit Serial No. Table R.P.M. Jet or Conventional - Nozzle Size	Bit Serial No. Table R.P.M. Jet or Conventional - Nozzle Size
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
MUDSH PUMP RECORD No. 1 No. 2	HOURS On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size
MUD RECORD	Time, Visc., Wt., W L, pH, ADDITIVES — POUNDS	Time, Visc., Wt., W L, pH, ADDITIVES — POUNDS	Time, Visc., Wt., W L, pH, ADDITIVES — POUNDS
		Displace Fo oil Mark 3/62 85 Bbls of Deisel Fuel.	Ran 54 Jts of 2 7/8 6.5# J-55 Short Pacd Hershey EUE Tubing Tubing landed @ 1662.94 KB. D. Kirby
CORING	From, To, Ft. Cored, Ft. Rec'd., Core No., Type Bbl.	From, To, Ft. Cored, Ft. Rec'd., Core No., Type Bbl.	From, To, Ft. Cored, Ft. Rec'd., Core No., Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
W. O. ORDERS	12:00	8:00	8.

Driller E. L. Hicks 29 days.

	From	To	Hrs.
WAIT ON ORDERS	8:00	9:15	1 1/4
RUN IN	9:15	9:45	1/2
TRY TO Displace C-3-O FREEZE UP 214P from up CN impact of cold fuel THAW pumps	9:45	2:45	5
Displace Hole To fuel	2:45	3:30	3/4
PULL OUT FEE BTM	3:30	4:00	1/2

Driller W. Brooks

	From	To	Hrs.
HOIST TUBING W O ORDERS	4:00	5:30	
	5:30	12:00	
Run in w/ Nipple.			

Driller

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ____ REEL SERIAL No. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ____ NO ____

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher ____ Approved by ____

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 67

Twp RAVEN LSD. F SEC. 23 TWN. ____ RGE. ____ W. ____ Contractor PETER BALDEN DRLG Type Rig NAT 50 A Month MARCH Day 2 19 6

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From: CSG'G 8 / To: / Hole Made: / Hole Size: / Formation:	From: / To: / Hole Made: / Hole Size: / Formation:	From: / To: / Hole Made: / Hole Size: / Formation:
DRILLING STRING	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.
	DRILL COLLAR DATA: Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA: Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA: Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE: Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE: Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE: Drilled / Reamed
	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.
	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size
SURVEYS	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off
PUMP RECORD No. 1 No. 2	HOURS: On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS: On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS: On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

From	To	Hrs.	Operations
12:00	2:00	2	RUNNING 7" CASING.
2:00	3:30	1 1/2	CIRC CASING.
3:30	4:15	3/4	MIX CEMENT & PUMP DOWN PLUG
4:15	7:15	3	DISMANTLE & PICK UP BOP'S
7:15	8:00	3/4	SET PRODUCTION SLIPS.

Driller E. S. Hicks.

From	To	Hrs.	Operations
8:00			TEAR OUT BOP'S; HOOK UP HYDRIL LINES & CLEAN SAND; CUT OFF CSG; LAY DOWN B.O.P.
			PUT ON TUBING FLANGE AND VALVES, CLEAN UP AROUND RIG AND RIG UP TO RUN TUBING
			RUN 10 JTS 2 7/8 TUBING 400 ft.

Driller W. F. Brooks

From	To	Hrs.	Operations
4:00	5:30		RUN 2 7/8 TUBING
5:30	6:30		
6:30	7:30		HOIST TUBING

Driller

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: / DRILLING: / REAMING: / TOTCO: / FISHING: / CIRCULATING: / CONDITIONING MUD: / TRIPPING: / CORING: / CASING: / W.O.C. / D.S. TESTING: / LOGGING: / W O ORDERS: / RIG REPAIRS: / RIG MAINTENANCE: / MISCELLANEOUS: / CONDITION HOLE: / REAMING CLEANING: / WORKING PIPE: / LOST CIRC.:

MNFR. DRILLING LINE IN USE ____ REEL SERIAL No. ____

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ____ NO ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher ____ Approved by ____

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 68 66

Imp Rolex LSD. F SEC. 23 TWN. RGE. W. Contractor PETER BAUDER DRLG Type Rig NAT 50A Month MARCH Day 1 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation
DRILLING STRING	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.
	4½ / 87 / 1 / 40.34		
	DRILL COLLAR DATA: Number / OD / ID / Length; INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA: Number / OD / ID / Length; INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA: Number / OD / ID / Length; INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed
	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.
	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size
SURVEYS	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off	Kind / at / Ft. / Deg. off
MUDDING PUMP RECORD No. 1 No. 2	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
	FELT FOR Bdug #2 Left @ 7514 March 1 62		RAN 58 JTS of 7" 23# J55 Csg. Rg. 2 Short NKK Casing set @ 1870-48 K.B. Ran 35 SKS. of cement Cemented by Halliburton Plug down @ 4.50 PM March 1st 62 Jim Kelly
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
HOISTING PIPE	12:00	12:45	¾
R.G SERVICE CHECK BOP'S	12:45	1:00	¼
RUN IN D.P.'S AND LAY DOWN SAME	1:00	3:30	2½
RUN IN TO FELT PLUG #2	3:30	8:00	4¾
CIRC WEIGHTING TO FELT PLUG #2	5:30	8:00	2½

Driller E. E. Stiles

	From	To	Hrs.
FELT IN PLUG #2	8:00		
LEFT @ 7514'		8:45	¾
RIG UP TO AND LAY	8:45		
DOWN PIPE		4:00	7¼

Driller W. Swarbrick

	From	To	Hrs.
LAY DOWN PIPE	4:00	4:45	
RUN 21 STANDS. III	4:45	5:45	
CIR HOLE FOR CASING	5:45	6:15	
LAY DOWN PIPE	6:15	7:30	
BRAKE KELLY	7:30	8:00	
RIG UP TO RUN CASING	8:00	9:30	
RUNNING CASING	1:30	3:00	

Driller Lou Magee

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher Bob Conlon Approved by .....

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 67 65

Fmp Rajah LSD. F SEC. 13 TWN. RGE. W. Contractor Peter Bawden Drlg Type Rig Nat. 50 A. Month Feb Day 28 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation: S. S.	From / To / Hole Made / Hole Size / Formation
	Size-D.P. 4½ · Stands 81 · Singles — · Kelly 33.58 · Drill. Collar Ft. 634.75 · Core Bbl. Ft.	Size-D.P. 4½ · Stands 81 · Singles — · Kelly 33.58 · Drill. Collar Ft. 634.75 · Core Bbl. Ft. —	Size-D.P. · Stands · Singles · Kelly · Drill. Collar Ft. · Core Bbl. Ft.
DRILLING STRING	DRILL COLLAR DATA: Number 22 · OD 6½ · ID 2 11/16 · Length 634.75 · INDICATOR WEIGHT OF TOTAL: DRILLING STRING 162 M · DRILL COLLARS 50 M	DRILL COLLAR DATA: Number 22 · OD 6½ · Length 634.75 · DRILLING STRING 162000 · DRILL COLLARS 51 000	DRILL COLLAR DATA: Number · OD · ID · Length · DRILLING STRING · DRILL COLLARS
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No. 40 · Type WTR · Time On Bottom At — · Time Pulled At — · Total Hours Run · Depth Pulled — · Weight On Bit M Pounds — · FOOTAGE Drilled — · Reamed —	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed
	Bit Serial No. · Table R.P.M. · Jet or Conventional - · Nozzle Size	Bit Serial No. R.R. · Table R.P.M. — · Jet or Conventional - Conv. · Nozzle Size 11/16	Bit Serial No. · Table R.P.M. · Jet or Conventional - · Nozzle Size
SURVEYS	Kind · at · Ft. · Deg. off	Kind · at · Ft. · Deg. off	Kind · at · Ft. · Deg. off
MUDSH PUMP RECORD No. 1 No. 2	HOURS: On Line / Circulating · Pump Press · Length of Pump Stroke · Strokes Per Min. · Liner Size	HOURS: On Line / Circulating · Pump Press · Length of Pump Stroke · Strokes Per Min. · Liner Size	HOURS: On Line / Circulating · Pump Press · Length of Pump Stroke · Strokes Per Min. · Liner Size
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS: Ran Plug #1 from 7958 - 7800 with 75 sks of cement Plug down @ 8-26 PM Ran Plug #2 from 7640 - 7560 with 50 sks of cement 2% Ca. Cl2. Plug #2 down @ 9 35 PM. Fluid
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Logging	12⁰⁰	8⁰⁰	8.

Driller E. L. Hucks

	From	To	Hrs.
LOGGING, TEAR OUT SCHLUMBERGER	8⁰⁰	11⁰⁰	3
WAIT ON EVALUATION OF LOGS	"	4⁰⁰	5

Driller W. F. Brooks

	From	To	Hrs.
Running log	4⁰⁰	Comp.	2
pick up 22 singles	6⁰⁰	6³⁰	½
CIR	6³⁰	Rig⁵	½
Run plug No 1	6⁵⁵	7.26	
Hoist 7640 For plug 2	8.26	7⁰⁰	
Run plug No 2	7⁰⁰	9³⁵	
Hoist pipe	9³⁵	12⁰⁰	

Driller

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: · DRILLING: · REAMING: · TOTCO: · FISHING: · CIRCULATING: · CONDITIONING MUD: · TRIPPING: · CORING: · CASING: · W.O.C. · D.S. TESTING: · LOGGING: · W O ORDERS: · RIG REPAIRS: · RIG MAINTENANCE: · MISCELLANEOUS: · CONDITION HOLE: · REAMING CLEANING: · WORKING PIPE: · LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 64

Twp. RAVEN LSD. F SEC. 23 TWN. RGE. W. Contractor PETER BAWDEN DRLG Type Rig NAT. 50A. Month FEB Day 27 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From: 7958	From: 7958	From: 7958
	To:	To:	To:
	Hole Made:	Hole Made:	Hole Made:
	Hole Size:	Hole Size:	Hole Size:
	Formation:	Formation:	Formation:
DRILLING STRING	Size-D.P.: 4½	Size-D.P.: 4½	Size-D.P.: 4½
	Stands: 81	Stands: 81	Stands: 81
	Singles:	Singles:	Singles:
	Kelly: 33.58	Kelly: 31.58	Kelly: 3358
	Drill. Collar Ft.: 634.58	Drill. Collar Ft.: 634.75	Drill. Collar Ft.: 634.75
	Core Bbl. Ft.:	Core Bbl. Ft.: —	Core Bbl. Ft.:
	DRILL COLLAR: Number 22, OD 6½, ID 2⅞, Length 634.75	DRILL COLLAR: Number 22, OD 6½, ID 2⅞, Length 634.75	DRILL COLLAR: Number 22, OD 6½, ID 2⅞, Length
	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 162M, DRILL COLLARS 50M.	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 162000, DRILL COLLARS 51000	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 162M, DRILL COLLARS 50M.
	DATA	DATA	DATA
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed
	Bit Serial No. Table R.P.M.	Bit Serial No. Table R.P.M.	Bit Serial No. Table R.P.M.
	Jet or Conventional - Nozzle Size	Jet or Conventional - Nozzle Size	Jet or Conventional - Nozzle Size
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
MUD PUMP RECORD No. 1 / No. 2	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS: On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs.	From / To / Hrs.	From / To / Hrs.
	Logging w/ Schlumberger 12 8 8	LOGGING 8 4 8	LOGGING 4 12 8
	CHECKED BOI @ 2965		
	Driller E. L. Hutchison	Driller W. Brooks	Driller [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ____ REEL SERIAL No. ____

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher [illegible] Approved by ____

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 63

Imp Raven LSD F SEC. 23 TWN. RGE. W. Contractor Peter Bawden Drlg Type Rig Nat. 50 A. Month Feb Day 26 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7950	7958	8	9	SAND.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	81		33.58	634.75	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	22	6½	2 13/16	634.75	DRILLING STRING	DRILL COLLARS
DATA					162 M.	50 M.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
9	WTR.	12 00		7½		15		15

Bit Serial No. 35309 Table R.P.M. 100

Jet or Conventional - Conv. Nozzle Size 3 11/16

SURVEYS

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	1¾		1100	18	53	6
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12 00	100	10 3	5.6	11.	
3 00	115	10 3	5.7	11.	
5 00	120	10 3	5.7	11.	
7 00	126	10 3	6.0	11.	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
R.G Service effect. Bop's.	12 00	12 15	¼
Ream 6¼ Rm. Hole To 9" Hole.	12 15	2 00	1¾
Circ w. o. Schlum B.	2 00	8 00	6.

Driller E. L. Hicks.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
	7958			Suitcase Sands

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	81	—	31.58	634.75	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	22	6¾	2 13/16	634.75	DRILLING STRING	DRILL COLLARS
DATA					162000	51,000

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
39	WTR							15

Bit Serial No. 35309 Table R.P.M. —

Jet or Conventional - Conv Nozzle Size —

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
8		1050	18	53	6.

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2 00	107	10.5	5.4	11.0	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Circ. Wait On Schlumberger Cond. Hole	8 00	4 00	8

Driller W. T. Brooks

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
	7958	—	9	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	41	—	33.58	634.75	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	22	6¾	2 13/16	634.75	DRILLING STRING	DRILL COLLARS
DATA					162000	51,000

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
39	WTR							

Bit Serial No. 35309 Table R.P.M. —

Jet or Conventional - Conv. Nozzle Size —

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1050	18	53	6.

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5 00	100	10.4	5.4	11.	
1 10					

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Wait on Schlumberger.	11 00	5 30	1½
Hoist For Log	5 30	7 00	3½
R.C up To Log.	7 00	11 15	1¾
Logging	10 15	12 00	1¼

Driller

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ____ REEL SERIAL No. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO ____

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher ____ Approved by ____

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 462

Imp RAVEN LSD. F SEC. 23 TWN. ..... RGE. ..... W. ..... Contractor PETER BAWDEN DRLG Type Rig NAT 50 A. Month FEB Day 25 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 7943 / To 7954 / Hole Made 11 / Hole Size 6¼ / Formation SAND.	From 7954 / To 7958 / Hole Made 4 / Hole Size 6¾ / Formation S.S	From 7943 / To 7950 / Hole Made 7 / Hole Size 9 / Formation
DRILLING STRING	Size-D.P. 4½ / Stands 80 / Singles 1 / Kelly 32.49 / Drill. Collar Ft. 634.75 / Core Bbl. Ft. 5C 38	Size-D.P. 4½ / Stands 80 / Singles 1 / Kelly 36.49 / Drill. Collar Ft. 634.75 / Core Bbl. Ft. 5C 38	Size-D.P. 4½ / Stands 81 / Singles — / Kelly 26.00 / Drill. Collar Ft. 634.75 / Core Bbl. Ft.
	DRILL COLLAR: Number 22 / OD 6½ / ID 2⅞ / Length 634.75	DRILL COLLAR: Number 22 / OD 6¾ / ID 2⅞ / Length 634.75	DRILL COLLAR: Number 22 / OD 6½ / ID 2⅜ / Length 634.75
	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 163 M / DRILL COLLARS 50 M.	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 163 M / DRILL COLLARS 51 M.	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 51 M / DRILL COLLARS 163 M.
BIT RECORD	No. 2 / Type D / Time On Bottom At 1:15 / Time Pulled At / Total Hours Run 6¾ / Depth Pulled / Weight On Bit M Pounds 11M. / FOOTAGE Drilled 11 / Reamed
	Bit Serial No. 3958 / Table R.P.M. 82 / Jet or Conventional - DIAMOND CORING / Nozzle Size 3-¼"
	No. 2 / Type D / Time On Bottom At 1:15 / Time Pulled At / Total Hours Run 8¾ / Depth Pulled 7958 / Weight On Bit M Pounds 11M / FOOTAGE Drilled 15. / Reamed
	Bit Serial No. 3958 / Table R.P.M. 82 / Jet or Conventional - D.C / Nozzle Size —
	No. 40 / Type WTR / Time On Bottom At / Time Pulled At / Total Hours Run 5¾ / Depth Pulled / Weight On Bit M Pounds 20 / FOOTAGE Drilled — / Reamed 7
	Bit Serial No. 35309 / Table R.P.M. 110 / Jet or Conventional - CONE / Nozzle Size ½
SURVEYS	Kind / at / Ft. / Deg. off
MUDSH PUMP RECORD No. 1 No. 2	HOURS: On Line 6¾ / Circulating / Pump Press 950 / Length of Pump Stroke 18 / Strokes Per Min. 33 / Liner Size 6"
	HOURS: On Line 2 / Circulating / Pump Press 950 / Length of Pump Stroke 18 / Strokes Per Min. 33 / Liner Size 6.
	HOURS: On Line / Circulating / Pump Press 1100 / Length of Pump Stroke 18 / Strokes Per Min. 52 / Liner Size 6.
MUD RECORD	Time 1:30 / Visc. 110 / Wt. 10.3 / W L 5.2 / pH 10.5 / ADDITIVES — POUNDS: CAUSTIC 200#
	Time 3:00 / Visc. 115 / Wt. 10.2 / W L 5.2 / pH 10.5
	Time 5:00 / Visc. 120 / Wt. 10.3 / W L 5.6 / pH 11
	Time 7:00 / Visc. 130 / Wt. 10.3 / W L 5.8 / pH 11
	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS
	Time 7:00 / Visc. 130 / Wt. 10.4 / W L 5.6 / pH 11.0 / ADDITIVES — POUNDS: CAUSTIC - 100#
	Time 9:00 / Visc. 125 / Wt. 10.3 / W L 5.6 / pH 11.0 / ADDITIVES — POUNDS: Q-BROXIN - 350#
	Time 11:00 / Visc. 122 / Wt. 10.4 / W L 5.8 / pH 11.0 / ADDITIVES — POUNDS: PLASTER - 400#
CORING	From 7943 / To 7954 / Ft. Cored 11 / Ft. Rec'd. / Core No. #11 / Type Bbl. DIAMOND.
	From 7943 / To 7958 / Ft. Cored 15 / Ft. Rec'd. / Core No. 11 / Type Bbl.
	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
BREAK CIRC & RUN 14 TO BOT.	12:00	12:30	½
CIRC PRIOR TO CORING.	12:30	1:15	¾
CUT CORE # 11	1:15	8:00	6¾

Driller E. L. Hicks.

	From	To	Hrs.
CUT CORE # 11	8:00	10:00	2
REP OUT WITH CORE	10:00	1:30	3½
RECOVER CORE, SERVICE	1:30		
DOWN BBL.		3:00	1½
MEAS IN HOLE.	3:00	4:00	1

Driller W. Brooks

	From	To	Hrs.
RIG SER	4:00	4:15	¼
RUNNING IN TO REAM	4:15	6:15	2
REAMING 6½ RAT HOLE.	6:15	12:00	5¾

Pipe Tally - 7943.00
Measured Depth - 7942.52' No change.

Driller .....

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: / DRILLING: / REAMING: / TOTCO: / FISHING: / CIRCULATING: / CONDITIONING MUD: / TRIPPING: / CORING: / CASING: / W.O.C. / D.S. TESTING: / LOGGING: / W O ORDERS: / RIG REPAIRS: / RIG MAINTENANCE: / MISCELLANEOUS: / CONDITION HOLE: / REAMING CLEANING: / WORKING PIPE: / LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 631

Imp. Sun Nettie Lamb F-73 LSD. SEC. TWN. RGE. W. Contractor Bill Brander Drlg Type Rig N.T. 50-A Month FEB Day 24 19 62

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7887	7922.	36.	9	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	80	2	28.00.	634.75	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	22	6½	2⅞	30' ±	DRILLING STRING	DRILL COLLARS
	DATA					157M	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
39	W7			11¼		47M	48.	

Bit Serial No. 69638 Table R.P.M. 57

Jet or Conventional - CONV Nozzle Size 11/16

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
F-350		1050	18"	53	6"

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1.00	97	10.4	5.8	11.0	GEL - 500#
3.00	106	10.4	5.8	11.5	CAUSTIC - 100#
5.00	104	10.4	6.0	11.5	Q-BROXIN - 150#
7.00	96	10.4	6.2	11.0	PLASTER - 200#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRLG	12.00	2.15	2 ¼
RIG SER	2.15	2.30	¼
DRLG	2.30	8.00	5 ½

Driller L. Hagen

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7922	7939	17	9	SAND

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	81		14.58	634.75	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	22	6½	2⅞	634.75	DRILLING STRING	DRILL COLLARS
	DATA					157M	50M.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
39	W7	8.15		18¾		50M	65	

Bit Serial No. 69638 Table R.P.M. 72

Jet or Conventional - CONVENTIONAL Nozzle Size 3-11/16

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			18	53	6"

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8.30	92	10.4	6.2	11.5	GEL 800#
11.00	89	10.4	5.8	11.0	Q BROX 100#
3.00	85	10.3	5.8	11.0	CELLEX 50#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
R.C. SERVICE CHECK BOP'S	8.00	8.15	¼
DRILL 9" HOLE	8.15	4.00	7¾

Driller E. L. Hicks.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7939	7943	4.	9	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	81	-	18.53	634.75	—

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	22	6½	2⅞	634.75	DRILLING STRING	DRILL COLLARS
	DATA					157000	51000

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
39	W7		6.00	20¾	7943	50	69.	

Bit Serial No. 69638 Table R.P.M. 70

Jet or Conventional - CONV. Nozzle Size 11/16

SURVEYS

Kind EASTMAN at 7943 Ft. 3/4 Deg. off

MUD PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1050	18	53	6 / 6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRLG.	4.00	6.00	2
SURVEY	6.00	6.30	½
TRIP OUT	6.30	9.00	2½
PICK UP & SER Core bbl.	9.00	10.00	1
RUN IN.	10.00	12.00	2

Driller W. Brander

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W O ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

Form 34402 (300 blks.-10-61) Imp Sun Netla Raven F-73

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 260

LSD..... SEC..... TWN..... RGE..... W..... Contractor Northern Ltd. Type Rig Nat 50A Month Feb Day 23 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7793	7846	48	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	79	2	40.75	634.75	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	22	6½	2⅞	30'±	158M	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
35	YH	a				50M		

Bit Serial No. 815600 Table R.P.M. 72

Jet or Conventional - CONV Nozzle Size 11/16

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1050	15"	53	6"

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	88	10.3	5.8	10.5	
300	81	10.3	5.9	11.0	
500	89	10.3	6.0	11.0	
700	87	10.3	6.0	11.0	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRLG	1200	215	2 1/4
RIG SER	215	230	1/2
DRLG	230	800	5 1/2

Driller F. Magan

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7846	7874	28	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	80	-	38.93	634.75	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	22	6½	2⅞	30'±	158M	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
38	YH		200	22¾	7787	50M	50	

Bit Serial No. 015600 Table R.P.M. 72

Jet or Conventional - CONV Nozzle Size 11/16

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1050	18"	53	6"

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
500	90	10.2	5.4	11.0	
700	110	10.5	5.4	11.5	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
RIG SER & CHN BLKS	500	515	1/4
DRLG	515	700	5 3/4
HOIST BIT # 38	700	900	2

Driller E. S. Hicks

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7874	7886	12	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	80	1	20.87	634.75	

DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	INDICATOR WEIGHT OF TOTAL DRILL COLLARS
	22	6½	2⅞	30'±	158M	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
39	HTC W7	815				50M		

Bit Serial No. 69638 Table R.P.M. 72

Jet or Conventional - CONV Nozzle Size 11/16

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1050	15"	53	6"

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
900	89	10.4	5.7	11.0	GEL - 500#
1100	95	10.4	5.8	11.0	CAUSTIC - 100#
					Q-BROXIN - 150#
					PUMPKIN - 300#

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
HOIST BIT # 38	1100	530	1 1/2
CUT & SLIP LINE	530	100	7 1/2
RIG SER	600	615	1/4
RUN IN	615	745	1 1/2
CLEAN 13 BRIDGE @ 7856	745	845	1
CLEAN 30' FILL	845		
DRLG	845	1200	3 1/4

Driller E. Tweedie

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W. Carlson Approved by .....

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 259

Imp Ker Hills Ravens F-73 LSD. SEC. TWN. RGE. W. Contractor Allis Brewster Ltd. Type Rig NAT 50-A Month FEB Day 22 19 63

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7772	7787	15	6 1/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	78	2	17.00	634.75	56.35

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	6 1/2	2 7/8	30'±	DRILLING STRING	DRILL COLLARS
DATA					158M	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
2	D				7772	15		

Bit Serial No. 3958 D Table R.P.M. 52

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

MUD PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		850	18"	32	6"

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	108	10.4	5.9	11.0	
300	103	10.3	5.8	11.0	
500	92	10.3	5.8	11.0	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
7737	7787	50		10	

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CUT CORE # 10	1200	200	2
RIG SER	200	215	1/4
CUT CORE	215	500	2 3/4
HOIST BBL	500	800	3

Driller J Majean

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
7787	7756	PLUGGED 10'	9"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	79	-	13.22	634.75	-

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	21	6 1/2	2 7/8	30'±	DRILLING STRING	DRILL COLLARS
DATA					158M	50M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
38	YH	1245				15M		

Bit Serial No. 015600 Table R.P.M. 100

Jet or Conventional - CONV Nozzle Size 11/16

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1100	18"	53	6"

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	77	10.4	5.9	11.0	CAUSTIC - 300#
					6-BROXIN - 300#
					PLASTER - 500#
					GEL - 300#

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
RECOVER CORE	500	915	1 1/4
RIG SER & CHK BOP'S	915	930	1/4
RUN IN	930	1245	3 1/4
REAM 6 1/8 RATHOLE	1245	230	1 3/4
CIRC MUD TEST CORE	230	400	1 1/2

Driller E Stefanka

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
7756	7798	Ream 31' Day 11'	9"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	79	1	23.22	634.75	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	6 1/2	2 7/8	30'±	DRILLING STRING	DRILL COLLARS
DATA					158M	50M

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
38	YH					15M 45M		

Bit Serial No. 015600 Table R.P.M. 100

Jet or Conventional - CONV Nozzle Size 11/16

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1100	15"	53	6"

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
700	92	10.9	7.0	11.5	GEL - 1000 CELLEX 100#
900	84	10.3	6.8	11.5	PLAST - 600
1100	82	10.9	6.7	11.5	6-BROXIN - 600
					SAN SEEDS 45 sks
					CAUSTIC - 250#

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
LOST CIRC - BUILD VOL	400	530	1 1/2
REAM 6 1/8 RATHOLE	530	1015	4 3/4
DRLG 9" HOLE	1015	1200	1 3/4

Driller L L Brooks

HEADING UP & DRLG. OUT: DRILLING: REAMING:

CLASSES OF TIME BREAKDOWN
TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....
DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher L L Brooks Approved by .....

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 58

Imp Lac Belle River F-73 LSD. SEC. TWN. RGE. W. Contractor Peter Bawden Drlg Type Rig NAT 50-A Month FEB Day 21 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation
	@ 7737					7737	7744	7	6¼		7744	7772	28	6¼	
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
	4½	78	2	23.29	634.75		4½	78		35.75	634.75	56.38	4½	78	1	37.14	634.75	56.38
	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS
		22	6½	2 7/8	30±	158 000 / 50M		22	6¼	2 7/8	30'±	153M / 50M		22	6¼	2 7/8	30'±	153 M / 50M
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
	37	RWC		4:00		7737	50M	109		2	◇	1:00				18M			2	◇					11M		
	Bit Serial No.	L95148			Table R.P.M. 78		Bit Serial No.	3958	◇		Table R.P.M. 72		Bit Serial No.	3958	◇		Table R.P.M. 72	
	Jet or Conventional -	C/O			Nozzle Size C/O		Jet or Conventional -				Nozzle Size		Jet or Conventional -				Nozzle Size	
SURVEYS	Kind	at	Ft.	Deg. off			Kind	at	Ft.	Deg. off			Kind	at	Ft.	Deg. off		
MUD PUMP RECORD No. 1 No. 2	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	C-350		1100	18"	53	6"	C-350		850	18"	32	6"	C-350		850	18"	32	6"
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	100	50	10.4	5.8	12.0		300	96	10.2	6.2	11.0		500	87	10.4	6.9	11.5	GEL 1200#
	300	88	10.4	6.2	11.5								700	82	10.3	5.8	11.5	CELLEX-50#
													900	94	10.4	5.8	11.5	
													1100	89	10.4	5.8	11.0	
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
							7737	- 44			10		7737	7772			10	

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CIRC. TO CORE	12:00	4:00	4
HOIST BIT # 37	4:00	8:00	4

	From	To	Hrs.
HOIST BIT	5:00	8:30	½
RIG SER & CHK BOP'S	8:30	8:45	1/4
SLIP & CUT LINE	8:45	9:15	½
RUN IN	9:15	1:00	3¾
CUT & CORE #2	1:00	4:00	3

	From	To	Hrs.
RIG SER	4:00	4:15	¼
CUT CORE #10	4:15	5:00	7¾

Driller J. Maclean | Driller T. Hicks | Driller W. Crooks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: | DRILLING: | REAMING: | TOTCO: | FISHING: | CIRCULATING: | CONDITIONING MUD: | TRIPPING: | CORING: | CASING: | W.O.C. | D.S. TESTING: | LOGGING: | W O ORDERS: | RIG REPAIRS: | RIG MAINTENANCE: | MISCELLANEOUS: | CONDITION HOLE: | REAMING CLEANING: | WORKING PIPE: | LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher L. Walker Approved by .....

Form 34402 (300 bks.-10-60)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 957

Imp Ken Nella Raven F-73 LSD. SEC. TWN. RGE. W. Contractor Lotts Canada Ltd. Type Rig NAT 50A Month FEB Day 20 19 62

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7633	7677	44	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	78	-	24.95	634.75	-

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	22	6½	2⅞	30'±		
DATA					149 M	50 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
37	OWC					50M		

Bit Serial No. 68548 Table R.P.M. 72

Jet or Conventional - C/O Nozzle Size C/O

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	F-350		1000	18"	53	6"
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
7⁰⁰	14	10.5	6.2	11.5	GEL - 3600#
					CAUSTIC - 600#
					Q-BROXIN - 1400#
					PLASTEX - 1250#
					CELLEX - 50#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG SER	12⁰⁰	12¹⁵	¼
DRLG	12¹⁵	8⁰⁰	7¾

Driller J. Majean

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7677	7704	27	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	78	1	21.52	634.75	-

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	22	6½	2⅞	30'±		
DATA					149 M	50 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
37	OWC					50M		

Bit Serial No. 68548 Table R.P.M. 72

Jet or Conventional - C/O Nozzle Size C/O

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	F-350		1000	18"	53	6"
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
9⁰⁰	78	10.6	5.0	11.5	GEL - 4600#
11⁰⁰	77	10.6	5.0	12.0	CAUSTIC - 50#
1⁰⁰	85	10.6	5.6	12.0	CELLEX SEPARATE - 16#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG SER & CHK BOP's	5⁰⁰	5¹⁵	¼
DRLG	5¹⁵	4⁰⁰	7¾

Driller E. L. Clarke

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7704	7737	33	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	78	2	23.24	634.75	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
DRILL COLLAR	22	6½	2⅞	30'±		
DATA					149 M	50 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
37	OWC					50M		

Bit Serial No. 68548 Table R.P.M. 72

Jet or Conventional - C/O Nozzle Size C/O

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	F-350		1000	18"	53	6"
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5⁰⁰	72	10.5	5.3	11.5	GEL - 4700#
7⁰⁰	74	10.5	5.4	11.5	
9⁰⁰	83	10.5	5.8	11.5	
11⁰⁰	85	10.6	5.9	11.5	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRLG	4⁰⁰	8³⁰	4½
RIG SER	8³⁰	8⁴⁵	¼
DRLG	8⁴⁵	11⁹⁵	3
PIPE TO CORE	11⁹⁵	12⁰⁰	¼

Driller W. Tweeks

HEADING UP & DRLG. OUT: DRILLING: REAMING:

CLASSES OF TIME BREAKDOWN
TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W O ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES — NO

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

Form 34402 (300 bks.-10-61) Imp. Ishm Nitla Raven F-73 LSD. SEC. TWN. RGE. W.

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 256

Contractor Peter Pond Drlg Type Rig Nat 50-A Month FEB. Day 19 19 63

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
@7628				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	77	1	35.32	634.75'	—

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	6½	2⅞	30'±	DRILLING STRING	DRILL COLLARS
DATA					198 M	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
36	YM		4	10	7628	50M	10	

Bit Serial No. N94052 Table R.P.M. 50

Jet or Conventional - CONV Nozzle Size 11/16

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
F-350		1100	15"	53	6"

No. 1
No. 2

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
700	50	10.3	6.1	11.0	PLASTER - 500#
					Q-BROXIN - 100#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CIR & MIX MUD	1200	900	4
HOIST TO CSG	900	700	3
PICK UP & SER BBL	700	800	1

Driller J. Magsaw

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
@7628				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	77	-	2.22	634.75'	56.38

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	6½	2⅞	30'±	DRILLING STRING	DRILL COLLARS
DATA					198 M	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1A	O							

Bit Serial No. 3958 O Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
		TRIP			

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
THAW OUT #2 PUMP LINES	500	830	½
RIG SER & CHK BOP'S	530	845	¼
RUN IN W/ BIT	545	1100	2¼
TRY TO BRK CIR	1100	1215	1¼
PULL OUT BIT	1215	400	3¾

Driller E. J. Hicks

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7628	7633	5'	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	6½	2⅞	30'±	DRILLING STRING	DRILL COLLARS
DATA					148 M	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
3A	OWC	1130				45M		

Bit Serial No. 3958 O Table R.P.M.

Jet or Conventional - Nozzle Size

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
F-350		1100	18"	54	6"

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1130	79	10.3			PLASTER - 750#
					PLASTIC - 300#
					Q-BROXIN - 150#
					GEL - 1900#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
PULL OUT	400	430	½
CLEAN & SER BBL	430	530	1
RIG SER	530	545	¼
RUN IN	545	830	2¾
CLEAN 10'	530	1130	3
DRLG	1130	1200	½

Driller E. J. Hicks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W O ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ____ REEL SERIAL No. ____

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher Wilson Approved by ____

Form 34402 (300 bks.-10-61) Imp. Sun Hotte Ram F F-73

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 955

LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor Peter Lawson Daly Type Rig NAT 50-17 Month FEB Day 18 19 62

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7533	7600	REAMED 35' 29 DM	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	77	-		634.75'	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	22	6½	2 7/8	30'±	DRILLING STRING 147 000	DRILL COLLARS 50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
36	YM					15M	28	38'

Bit Serial No. N 94082 Table R.P.M. 74

Jet or Conventional - C-NV Nozzle Size 11/16

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	C-350					
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	75	10.4	5.8	10.5	CAUSTIC - 200#
300	69	10.4	5.9	11.0	C-BROKIN - 300#
500	65	10.5	6.2	11.0	PLASTER - 500#
700	63	10.5	6.3	11.5	GEL - 1200#
					CELLEY - 50#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG SER	1200	1205	1/4
REAM 6½ RATHOLE	1205	515	5
DRIG 9" HOLE	515	545	1/2
PACKING IN C-350	545	600	3 1/4
DRLG	600	800	2

Driller J. Magnan

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7600	7628	28	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	77	1	35.30	634.75	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	22	6½	2 7/8	30'±	DRILLING STRING 147 M	DRILL COLLARS 50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
36	YM				=	50M	57	38

Bit Serial No. N 94082 Table R.P.M. 72

Jet or Conventional - CONV Nozzle Size 11/16

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
900	73	10.1	6.0	11.5	GEL - 400#
100	90	10.1	6.2	11.5	CAUSTIC 200#
300	85	10.6	6.2	12.0	C-DRLG IN - 900#
					PLASTER
					[illegible] 1600#

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
RIG SER & CHK BOP's	800	815	1/4
DRLG	815	1100	2 1/2
MIX MUD	1100	115	2 1/2
CND MUD	115	400	2 3/4

Driller E. J. Stocks

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7628	7628	0		

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	77	1	35.30	634.75	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	22	6½	2 7/8	30'±	DRILLING STRING 147M	DRILL COLLARS 50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
36	YM					50M	57	38

Bit Serial No. N 94082 Table R.P.M. -

Jet or Conventional - CONV Nozzle Size 11/16

Kind at Ft. Deg. off

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1100	140	10.3	6.1	11.0	GEL - 1500 S. F SEEDS 40 sk.
					CAUSTIC ~~100~~ STARCH 60 sk.
					PLASTER ~~100~~ 150

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
			FIBER SEAL		1200 11 sks

	From	To	Hrs.
LOST CIRC. - SPUD MUD	100	930	3 1/2
BUILD VOL & CIRC	930	1200	2 1/2

Driller W. Brooks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W O ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W. Kostaniuk Approved by .....

Form 34402 (300 blks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 654

Imp Lsd Netla Raven F-73 LSD..... SEC..... TWN..... RGE..... W..... Contractor Peter Kewit Sons Ltd Type Rig NAT 50-A Month FEB Day 17 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 7533 To 7559 Hole Made 26' Hole Size 9" Formation	From 7559 To 7571 Hole Made 12 Hole Size 9" Formation	From 7571 To Hole Made Hole Size Formation
DRILLING STRING	Size-D.P. 4½ Stands 76 Singles - Kelly 33.98 Drill. Collar Ft. 634.75' Core Bbl. Ft. 56.38	Size-D.P. 4½ Stands 76 Singles 1 Kelly 17.00 Drill. Collar Ft. 634.75' Core Bbl. Ft. 56.38	Size-D.P. 4½ Stands 76 Singles 1 Kelly 3.00 Drill. Collar Ft. 634.75 Core Bbl. Ft.
	DRILL COLLAR: Number 22 OD 6½ ID 2⅞ Length 30'± INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR: Number 22 OD 6½ ID 2⅞ Length 30'± INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR: Number 22 OD 6½ ID 2⅞ Length 30'± INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS
	DATA: 146 M / 50 M	DATA: 195 M / 50 M	DATA: 195 M / 50 M
BIT RECORD	No. 30 Type O Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds 12 M FOOTAGE Drilled Reamed	No. 30 Type O Time On Bottom At Time Pulled At 3:00 Total Hours Run Depth Pulled Weight On Bit M Pounds 12 M FOOTAGE Drilled 5' Reamed	No. Type Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed
	Bit Serial No. 3958 Table R.P.M. 80	Bit Serial No. 3958 Table R.P.M. 80	Bit Serial No. Table R.P.M.
	Jet or Conventional - O Nozzle Size	Jet or Conventional - O Nozzle Size	Jet or Conventional - Nozzle Size
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
MUSH PUMP RECORD No. 1 No. 2	HOURS On Line 6-3:30 Circulating / Pump Press 900 / Length of Pump Stroke 18" / Strokes Per Min. 32 / Liner Size 6"	HOURS On Line 6-3:30 Circulating / Pump Press 900 / Length of Pump Stroke 15" / Strokes Per Min. 32 / Liner Size 6"	HOURS On Line Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS 1:00 / 100 / 10.6 / 5.9 / 11.0 3:00 / 97 / 10.6 / 5.9 / 11.0 5:00 / 90 / 10.6 / 5.9 / 11.0 7:00 / 84 / 10.6 / 6.0 / 11.0	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS 9:00 / 73 / 10.1 / 6.4 / 11.0 11:00 / 77 / 10.3 / 6.6 / 11.0 1:00 / 72 / 10.3 / 6.8 / 10.5	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS 4:00 / FRTD
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl. 7533 / 7571 / 38 / / 9 /	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl. 7533 / 7571 / 38 / 20 / 9 /	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl. 7533 / 7553 / 20 / / 9 /
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs. RIG SER & CHK BOP: 12:00 / 12:05 / ⅛ CUT CORE #9 12:05 / 1:00 / 7¾	From / To / Hrs. CUT CORE #9 8:00 / 9:30 / 1½ RIG SER & REPAIR 9:30 / / WATER LINE IN BRAKE / 10:15 / ¾ CUT CORE #9 10:15 / 3:00 / 4¾ HOIST CORE 3:00 / 4:00 / 1	From / To / Hrs. HOIST CORE & STRAP OUT 4:00 / 7:00 / 3 RECOVER CORE 7:00 / 8:15 / 1¼ RUN IN D.C. 8:15 / 8:45 / ½ SLIP & CUT LINE 8:45 / 9:15 / ½ RIG SER 9:15 / 9:30 / ¼ RUN IN PT #36 9:30 / 11:00 / 1½ CLEAN CUT 90' FILL 11:00 / 12:00 / 1
	Driller L Brooks	Driller L Mayeau	Driller E L Brooks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W Cook Approved by .....

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 153

LSD. Imp Loc SEC. Hotha Town TWN. F-73 RGE. W. Contractor Watts Canada Ltd. Type Rig NAT 50-A Month FEB Day 16 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation
	7466	7519	~~53~~	9"		7519	7533	14	9"		7533				
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
	4½	76	1	30.30	235.75'		4½	76	1	35.00	235.75'	-	4½	75	2	37.52	234.75'	26.38
	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS
		22	6½	2 7/8	30'±	144 M / 50M		22	6½	2 7/8	30'±	144 M / 50M		22	6½	2 7/8	30'±	144 M / 50M
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
	3S	YSI					50M			3S	YSI		2⁰⁰	21½	7533	50M	159									
	Bit Serial No. N15012				Table R.P.M. 72					Bit Serial No. N15012				Table R.P.M. 72					Bit Serial No. N15012				Table R.P.M. 72			
	Jet or Conventional - CONV.				Nozzle Size 11/16					Jet or Conventional - CONV.				Nozzle Size 11/16					Jet or Conventional - CONV.				Nozzle Size 11/16			
SURVEYS	Kind	at	Ft.	Deg. off		Kind	at	Ft.	Deg. off		Kind	at	Ft.	Deg. off	
MUD PUMP RECORD No. 1 No. 2	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	C-350		1100	18"	52	6"	C-350		1100	18"	52	6"	C-350		1100	18"	52	6"
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	1⁰⁰	75	10.6	6.2	11.0	CAUSTIC - 200#	9⁰⁰	64	10.1	6.2	10.2	GEL 1500#						
	3⁰⁰	72	10.6	6.2	11.0	6-BROM - 400#	11⁰⁰	84	10.1	6.0	10.2	CAUSTIC - 150#						
	5⁰⁰	68	10.6	6.3	11.0	PLASTER - 500#	1⁰⁰	82	10.6	6.4	11.0	CHROMOX - 150#						
	7⁰⁰	69	10.6	6.2	11.0	HI VIS DRIS - 50#						CELLEX - 50#						
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
													7533	—			4	

DETAIL OF OPERATIONS AND REMARKS

From	To	Hrs.	Operation
12⁰⁰	12¹⁵	¼	RIG SER & CHK BOP'S
12¹⁵	8⁰⁰	7¾	DRLG

From	To	Hrs.	Operation
8⁰⁰	11⁰⁰	2⁰⁰	DRLG.
11⁰⁰	11⁰⁰	1⁰⁰	HOIST FOR BIT TIGHT
11⁰⁰	12³⁰	1½	BACK TO BTM + MIX MUD
12³⁰	2⁰⁰	1½	CIR.
2⁰⁰	4⁰⁰	2	HOIST TO CORE

From	To	Hrs.	Operation
4⁰⁰	5⁰⁰	1	WORK TIGHT HOLE @ 4990
5⁰⁰	7¹⁵	2¾	PULL OUT TO CORE
7¹⁵	9⁰⁰	1¼	SER CORE BBL.
9⁰⁰	10³⁰	1½	RUN IN
10³⁰	11¹⁵	1¼	CIRC TO BTM.
11¹⁵	12⁰⁰	¾	CUT CORE #9

Driller W Brooks | Driller J Majeau | Driller E L Hicks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W.O ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES — NO

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W Cook Approved by .....

Form 34402 (300 bks.-10-61)

Imp. Sun Petrolia Raven F-73 — LSD. ____ SEC. ____ TWN. ____ RGE. ____ W. ____

IMPERIAL OIL LIMITED

Contractor Peter Bawden Type Rig NAT. 50-A Month FEB Day 15 19 62

DAILY DRILLING REPORT No. 452

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7347	7374	27	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	74	2	24.18	634.75'	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	22	6½	2¾	30'±	DRILLING STRING	DRILL COLLARS
DATA					142 M	50 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
34	CWC		4:45	23¼		50 M	164	

Bit Serial No. 15240 Table R.P.M. 72

Jet or Conventional - CONV. Nozzle Size 11/16

Kind FISTMAN at 7374 Ft. 1/4 Deg. off

SURVEYS

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	C-350		1100	18"	53	6"
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	70	10.7	6.0	11.0	GEL - 1300 #
300	68	10.8	6.1	11.0	DRIS - 50 #

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG SER & CHK BOP's	1700	1215	1/2
DRLG	1215	415	4
SURVEY	415	445	1/2
TRIP FOR BIT	445	800	3 1/4

Driller W Banks

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7374	7402	28	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	75'	-	33.25'	634.75'	-

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	22	6½	2¾	30'±	DRILLING STRING	DRILL COLLARS
DATA					142 M	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
35'	151	12:00				50M		

Bit Serial No. N15012 Table R.P.M. 74

Jet or Conventional - CONV. Nozzle Size 11/16

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	C-350		1100	15"	53	6"

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1100	90	10.7	5.8	10.5	CAUSTIC - 200#
100	85	10.7	5.9	10.5	Q-BROXIN - 300#
300	82	10.7	5.9	11.0	PLASTER - 500#
					HyVisDris - 25#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RUN IN	500	1100	2
CLEAN 30' TO BTM.	1000	1200	2
DRLG	1200	400	4

Driller L Majeau

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7402	7466	64	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	75'	2	26.50	634.75'	-

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	22	6½	2¾	30'±	DRILLING STRING	DRILL COLLARS
DATA					142 M	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
35'	151	/				50M		

Bit Serial No. N15012 Table R.P.M. 74

Jet or Conventional - CONV. Nozzle Size 11/16

Kind at Ft. Deg. off

PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	C-350		1120	15"	53	6"

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
500	73	10.6	6.0	11.0	CELLEX - 50#
700	76	10.6	6.0	11.5	
900	79	10.6	6.0	11.0	
1100	80	10.6	5.8	11.5	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG SER & CHK BOP's	400	415	1/2
DRLG	415	1200	7 3/4

Driller E L Hicks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W O ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ____ REEL SERIAL No. ____

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher ____ Approved by ____

Form 34402 (300 bks.-10-61)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT No. 51

Imp Ikhil Hills Raven F-73 LSD. SEC. TWN. RGE. W. Contractor Peter Pawson Drlg Type Rig NAT 50-A Month FEB Day 19 19 62

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7210	7234	24	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	73	-	32.74	634.75'	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	22	6½	2 7/8	30'±	DRILLING STRING 142 M	DRILL COLLARS 50 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
34	RWC					50 M		

Bit Serial No. 18240 Table R.P.M. 74

Jet or Conventional - CONV. Nozzle Size 11/16

SURVEYS

Kind at Ft. Deg. off

MUD PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	C-350		1100	18"	53	6"
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
300	126	10.6	6.0	11.0	
500	85	10.6	5.4	11.0	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
SLIP & CUT 34' DRLG LINE	1200	1230	½
RIG SER & CHK BOP'S	1230	1245	¼
RUN IN	1245	145	1
CLEAN 40' TO BOTTOM	145	245	1
DRLG	245	615	3½
REPAIR C350 & MUD VALVE	615	730	1¼
DRLG	730	800	½

Driller W Brooks

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7234	7291	57	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	73	2	32.0	634.75'	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	22	6½	2 7/8	30'±	DRILLING STRING 142 M	DRILL COLLARS 50 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
34	RWC					50 M		

Bit Serial No. 18240 Table R.P.M. 74

Jet or Conventional - CONV Nozzle Size 11/16

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1100	18"	53	6"

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
900	67	10.6	5.8	11.5	GEL - 1200 #
1100	65	10.6	5.9	11.0	CAUSTIC - 200 #
100	62	10.6	6.0	11.0	C-BROWN - 300 #
300	63	10.6	6.0	11.0	PLASTER - 500 #

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
DRLG	800	900	1
RIG SER & CHK BOP'S	900	915	¼
REPAIR C-350	915	930	¼
DRLG	930	400	6½

Driller J Magean

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7291	56	7347	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	74	1	27.09	635.75'	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	22	6½	2 7/8	30'±	DRILLING STRING 142 M	DRILL COLLARS 50 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
34	RWC					50 M		

Bit Serial No. 18240 Table R.P.M. 74

Jet or Conventional - CONV Nozzle Size 11/16

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1100	18"	53	6"

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
500	69	10.6	5.8	11.0	GEL - 1200 #
700	64	10.6	5.6	11.0	
900	70	10.6	5.6	11.0	
1100	77	10.6	5.7	11.0	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
RIG SER & CHK BOP'S	400	415	¼
DRLG	415	1200	7¾

Driller E L Hicks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ____ REEL SERIAL No. ____

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher ____ Approved by ____

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED — DAILY DRILLING REPORT

50

Imperial Sun Nitla Raven F-73 — LSD. ..... SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor Peter Bawden Type Rig NAT 50-A Month FEB Day 13 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
7139	7153	14	9	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	72	—	39.26	634.75	—

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	22	6½	2 7/8	634.75	DRILLING STRING	DRILL COLLARS
					134000	51,000.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
33	YM			3½		15	14.	

Bit Serial No. 801323 Table R.P.M. 100

Jet or Conventional - Conv. Nozzle Size 11/16

Kind ..... at ..... Ft. ..... Deg. off

SURVEYS

SLUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			1050	18	56	6
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	
					GEL	2000
500	62	10.6		11.0	CAUSTIC	200
700	65	10.6		11.5	QBROMIN	400
					PLASTER	500.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG SERV CHK BOPS	12 00	12 15	¼
RUN IN ODI MEAS. IN.	12 15	2 00	1¾
REAM 80' BRIDGE @ 6700	2 00	4 30	2.
[illegible] HOLE, CLEANED FILL	4 30		
REAM 6¾" HOLE.	4 30	8 00	3½

Driller W. Brooks

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
7153	7184	31	9	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	72	2	1310.	633.21	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	22	6½	2 7/8	2900	DRILLING STRING	DRILL COLLARS
					140 000	50 000

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
33	YM			10¾		20M		31

Bit Serial No. 801323 Table R.P.M. 110

Jet or Conventional - CONV Nozzle Size 11/16

Kind ..... at ..... Ft. ..... Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1050	19"	54	6"

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
900	73	10.6	6.4	11.0	GEL — 1200#
1100	69	10.6	6.4	11.0	[illegible]
100	61	10.6	6.2	11.5	[illegible]
300	68	10.6		11.0	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Rig Ser	800	815	¼
Reaming 6¾ RAT Hole.	815	1000	1¾
Work on Rotary Chain	1000	1100	1
Reaming	1100	400	5

Driller .....

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
7184	7210	26	9	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	72	2	38.35	634.75	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR DATA	22	6½	2¾	633.21	DRILLING STRING	DRILL COLLARS
					138M	50M.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
33	YM	4 15	8 30	14½	7210	45M	23	50

Bit Serial No. 801323 Table R.P.M. 74

Jet or Conventional - CONV. Nozzle Size 3-11/16

Kind EPSTAWN at 7210 Ft. MISRUN Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4¼		1100	19	52	6"

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	
500	65	10.7	6.2	11.0	GEL	1000#
900	73	10.7	6.4	11.5	REG. DRIS CORE	50#

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
R.G SERVICE CHECK BOP'S	400	415	¼
REAM 6½ RAT HOLE TO 9" HOLE.	415	445	½
DRILL 9" HOLE.	445	830	3¾
TAKE SURVEY @ 7210	830	900	½
HOIST BIT #33	900	1115	2¼
RUN IN D.C's	1115	1200	¾

Driller L. L. Hughes

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W O ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W Conlon Approved by .....

Form 3440? (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 49

Imperial Sun Netla Raven F-73 LSD. SEC. TWN. RGE. W. Contractor Pitts Bowden Type Rig NAT. 50-A Month FEB Day 12 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation
	7163	7173	10	6 7/8		7173	7183	10	6 7/8		7183	7187	4	6 7/8	
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
	4½	71	2	35.59	633.21	56.38	4½	72	—	15.00	633.21		4½	72	—	19.12	633.21	56.38
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL
	COLLAR	22	6½	2 7/8	633.21	DRILLING STRING / DRILL COLLARS	COLLAR	22	6½	2 7/8	2960.	DRILLING STRING / DRILL COLLARS	COLLAR	22	6½	2 7/8	633.21	DRILLING STRING / DRILL COLLARS
	DATA					140000 / 51,000	DATA					140 M / 50 M	DATA					140 M / 50 M.
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
	2A	O			17 3/4		10			2	O			25 3/4		10 M			20	O	4:00	6:30	78½	7187	10M	48	
	Bit Serial No. 3958				Table R.P.M. 80					Bit Serial No. 3958				Table R.P.M. 80					Bit Serial No. 3958				Table R.P.M. 80			
	Jet or Conventional - D Core				Nozzle Size					Jet or Conventional -				Nozzle Size					Jet or Conventional - Diamond Core				Nozzle Size			
SURVEYS	Kind	at	Ft.	Deg. off		Kind	at	Ft.	Deg. off		Kind	at	Ft.	Deg. off	
SLUSH PUMP RECORD	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	8		800	18	30	6	C-3½		800	18	30	6	2½		800	18	30	6"
No. 2																		
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	12:00	80	10.5	6.1	11.5	CAUSTIC 200	9:00	75	10.6	6.4	11.0	GEL - 500#	~~8:00~~					
	3:00	84	10.4		11.5	PLASTER 500	11:00	72	10.6	6.4	11.0	~~GEL~~	5:00	80	10.6	6.2	11.0	
	5:00	72	10.5	6.2	11.5	Q BROWN 400	1:00	70	10.6	6.5	11.0							
	7:00	73	10.5	6.3	11.5	GEL 200	3:00	77	10.5	6.4	11.0							
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	7139	7173	34		8		7173	7183	10		9		7183	7187	4	48.	8	Diamond.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CUT CORE # 8.	12:00	8:00	8

	From	To	Hrs.
CUT CORE NO 8	8:00	4:00	8

	From	To	Hrs.
CUT CORE # 8	4:00	~~4:30~~ 6:30	2½
HOIST CORE #8 & SLM.	~~4:30~~	10:00	2½
SERVICE CORE BBL & RECOVER CORE	10:00	11:00	1
RUN IN D.C.'s & SLM.	11:00	12:00	1

Driller W. Brooks

Driller [illegible]

Driller L. L. Hughes

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE _____ REEL SERIAL No. _____

MNFR. OF KELLY HOSE IN USE _____ HOSE SERIAL No. _____

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ← NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

Form 34402 (250 bks-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 48

Imperial Sun Netla Raven F-73 LSD..... SEC..... TWN..... RGE..... W..... Contractor Peter Pond Type Rig NAT. 50-A Month Feb. Day 11 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.											
DEPTH	From	To	Hole Made	Hole Size	Formation							
	7103	7139	36.	9								
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
	4½	72	—	26.80	633.21	—						
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						
	COLLAR	22	6¾	2 7/8	633.21	DRILLING STRING	DRILL COLLARS					
	DATA					138000	51000					
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed			
	32	OWC	9⁰⁰			7139	15		52.			
	Bit Serial No. 68543						Table R.P.M. 100					
	Jet or Conventional - CONV.						Nozzle Size 11/16					
SURVEYS	Kind	at	Ft.	Deg. off								
PUSH PUMP RECORD No. 1 No. 2	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size						
			1000	18	52	6						
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						
	12⁰⁰	68	10.5	5.7	11.0.	PLASTER.	400					
	3⁰⁰	64	10.7		11.0.	Q BROX.	250					
	5⁰⁰	66	10.6	6.4	11.0	CAUSTIC	100					
	7⁰⁰	72	10.6		11.0.	GEL	2400					
						HI VIS ORIS.	100					
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
DETAIL OF OPERATIONS AND REMARKS			From	To	Hrs.							
	REAM 6¾" RATHOLE		12⁰⁰	3⁰⁰	3							
	RIG SER CHK BOP'S E CHK C-356		3⁰⁰	3¹⁵	¼							
	REAM 6¾" RATHOLE		3¹⁵	6⁴⁵	3½							
	CIRC TO COND. HOLE.		6⁴⁵	8⁰⁰	1¼							
	Driller W. L. Brooks.											

	2nd Tour From: 8:00 a.m. To: 4:00 p.m.											
DEPTH	From	To	Hole Made	Hole Size	Formation							
	7139	7142.	3	6¼								
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
	4½	71	1	32.00	633.21							
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						
	COLLAR	22	6¾	2 7/8	2400	DRILLING STRING	DRILL COLLARS					
	DATA					110M	50 M.					
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed			
	8	D			2.		11 M					
	Bit Serial No. 3958						Table R.P.M. 80					
	Jet or Conventional -						Nozzle Size					
SURVEYS	Kind	at	Ft.	Deg. off								
PUSH PUMP RECORD No. 1 No. 2	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min	Liner Size						
			775	18.	76	6.						
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						
	3⁰⁰	87	10.7	5.2	11.0							
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
	7139	7142.	3.		8							
DETAIL OF OPERATIONS AND REMARKS			From	To	Hrs.							
	CIRC TO COND HOLE		8⁰⁰	8¹⁵	½							
	RIG SER		8¹⁵	8³⁰	¼							
	HOIST BIT NO 32		8³⁰	11⁰⁰	2½							
	PICK UP CORE BBL		11⁰⁰	11³⁰	½							
	RUNNING IN TO COT CORE NO 8.		11³⁰	1³⁰	2							
	CLEAN OUT TO BOTTON		1³⁰	2⁰⁰	½							
	CORE		2⁰⁰	4¹⁵	2							
	Driller L. Chapman											

	3rd Tour From: 4:00 p.m. To: 12:00 p.m.											
DEPTH	From	To	Hole Made	Hole Size	Formation							
	7142	7163	~~21~~	6⅛								
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
	4½	71	2	25.99	633.21	56.38						
	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL						
	COLLAR	22	6½	2⅜	633.21	DRILLING STRING	DRILL COLLARS					
	DATA					140000	50.000					
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed			
	20	D	1¹⁵		9¾		11M	~~2~~	24			
	Bit Serial No. 3958						Table R.P.M. 75					
	Jet or Conventional - DIMOND CORE						Nozzle Size					
SURVEYS	Kind	at	Ft.	Deg. off								
PUSH PUMP RECORD No. 1 No. 2	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size						
	7¾		800	18	30	6"						
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						
	4³⁰	100	10.5	5.6	10.5	CAUSTIC 100#						
	6³⁰	88	10.5	5.2	11.							
	9⁰⁰	85	10.6	5.2	11							
	11⁰⁰	80	10.6	5.6	11							
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
	7142	7163	21		#8	DIAMOND.						
DETAIL OF OPERATIONS AND REMARKS			From	To	Hrs.							
	RIG SERVICE CHECK BOP'S		4⁰⁰	4¹⁵	¼							
	CUT ◇ CORE # 8		4¹⁵	12⁰⁰	7¾							
	Driller L. S. Dicks											

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 47

Imp. Redeal LSD. F SEC. 23 TWN. ..... RGE. ..... W. ..... Contractor Brown Drlg. Type Rig Nat. 50 A Month Feb. Day 10 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 7095 To — Hole Made — Hole Size 6 1/8 Formation Slave Point.	From 7120 To 7139 Hole Made 19 Hole Size 6 1/8 Formation SP.	From 7087 To 7103 Hole Made 16 Hole Size 7 Formation
DRILLING STRING	Size-D.P. 4 1/2 Stands 71 Singles — Kelly — Drill. Collar Ft. 633.21 Core Bbl. Ft. 56.38	Size-D.P. 4 1/2 Stands 71 Singles 1 Kelly 31. Drill. Collar Ft. 633.21 Core Bbl. Ft. 56.38	Size-D.P. 4 1/2 Stands 71 Singles 2 Kelly 22 Drill. Collar Ft. 633.21 Core Bbl. Ft. —
	DRILL COLLAR DATA: Number 22, OD 6 1/2, ID 2 7/8, Length 633.21; INDICATOR WEIGHT OF TOTAL DRILLING STRING 141 M, DRILL COLLARS 50 M.	DRILL COLLAR DATA: Number 22, OD 6 1/2, ID 2 7/8, Length 633.21; INDICATOR WEIGHT OF TOTAL DRILLING STRING 141,000, DRILL COLLARS 51000	DRILL COLLAR DATA: Number 22, OD 6 1/2, ID 2 7/8, Length 2960; INDICATOR WEIGHT OF TOTAL DRILLING STRING 139000, DRILL COLLARS 50 M
BIT RECORD	No. 1, Type ◇, Time On Bottom At 12:00, Time Pulled At —, Total Hours Run —, Depth Pulled —, Weight On Bit M Pounds 10M, FOOTAGE Drilled —, Reamed —. Bit Serial No. 3958, Table R.P.M. 75, Jet or Conventional - Diamond Core, Nozzle Size	No. 2, Type ◇ 1, Time On Bottom At —, Time Pulled At —, Total Hours Run —, Depth Pulled —, Weight On Bit M Pounds 8, FOOTAGE Drilled —, Reamed —. Bit Serial No. 3958, Table R.P.M. 75, Jet or Conventional - D Core, Nozzle Size	No. 32, Type OWC, Time On Bottom At —, Time Pulled At —, Total Hours Run 3, Depth Pulled —, Weight On Bit M Pounds 18M, FOOTAGE Drilled —, Reamed 16. Bit Serial No. 68543, Table R.P.M. 100, Jet or Conventional - —, Nozzle Size —
SURVEYS	Kind — at — Ft. — Deg. off	Kind — at — Ft. — Deg. off	Kind — at — Ft. — Deg. off
MUSH PUMP RECORD No. 1 / No. 2	HOURS On Line — Circulating —; Pump Press 800; Length of Pump Stroke 18; Strokes Per Min. 32; Liner Size —	HOURS On Line 7 Circulating —; Pump Press 800; Length of Pump Stroke 18; Strokes Per Min. 32; Liner Size 6	HOURS On Line 0-350 Circulating —; Pump Press 1100; Length of Pump Stroke 18"; Strokes Per Min. 50; Liner Size 6"
MUD RECORD	Time 100 / Visc. 75 / Wt. 10 6 / W L 5.6 / pH 10.5 / ADDITIVES — POUNDS: Caustic 200#; 300 / 68 / 10 7 / 6.2 / 10.5 / Gel 2000#; 500 / 70 / 10 6 / 6. / 11. / Q Broxin 450#; 700 / 74 / 10 7 / 5 7 / 11. / Plastex 600#; Reg Driscose 50#	830 / 68 / 10.6 / 6 2 / 11.5 / Dris. 50; 1630 / 64 / 10.6 / 6.2 / 10.5 / Gel 1800; 1230 / 67 / 10.5 / 6.0 / 10.5	1100 / 83 / 10.6 / 5.8 / 10.5 / Caustic - 100#; Q-Broxin - 150#; Plaster - 200#
CORING	From 7089 To 7095 Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl. —	From 7089 To 7089 Ft. Cored 50 Ft. Rec'd. — Core No. 7 Type Bbl. —	From 7089 To 7139 Ft. Cored 50 Ft. Rec'd. 48 Core No. 7 Type Bbl. —
DETAIL OF OPERATIONS AND REMARKS	Cut ◇ Core # 7 — From 1200 To 615 Hrs. 6 1/4 R.C. Service & Heat Bolts. — 615 — 630 — 1/4 Cut ◇ Core # 7 — 630 — 800 — 1 1/2	Cut Core #7 — 800 — 300 — 7 Pull Core #7 — 300 — 400 — 1	Pull Core #7 — 100 — 600 — 2 Recover Core — 600 — 630 — 1/2 Rig Ser & Ser. Core Bbl. — 630 — 645 — 1/4 Slip & Cut 34' Drill Line — 645 — 715 — 1/2 Run In — 715 — 845 — 1 1/2 Ream Tight Spot — 845 — 900 — 1/4 Ream 11" Rathole — 900 — 1200 — 3
	Driller C. L. Hicks.	Driller W. Brooks.	Driller [illegible]

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. CUT: — TOTCO: — CONDITIONING MUD: — CASING: — LOGGING: — RIG MAINTENANCE: — REAMING CLEANING: —
DRILLING: — FISHING: — TRIPPING: — W.O.C. — W O ORDERS: — MISCELLANEOUS: — WORKING PIPE: —
REAMING: — CIRCULATING: — CORING: — D.S. TESTING: — RIG REPAIRS: — CONDITION HOLE: — LOST CIRC.: —

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher J. W. Conlin Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 46

Twp. RADEN LSD. F SEC. 23 TWN. RGE. W. Contractor BRAWLEY DRLG Type Rig NO. 5 UA. Month FEB Day 9 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 7071 / To 7087 / Hole Made 16 / Hole Size 9 / Formation	From 7087 / To 7089 / Hole Made 2 / Hole Size 6 7/8 / Formation	From 7089 / To 7095 / Hole Made 6 / Hole Size 6 3/4 / Formation
DRILLING STRING	Size-D.P. 4 1/2 / Stands 71 / Singles 1 / Kelly 35.02 / Drill. Collar Ft. 633.21 / Core Bbl. Ft.	Size-D.P. 4 1/2 / Stands 71 / Singles — / Kelly 12.07 / Drill. Collar Ft. 633.21 / Core Bbl. Ft. 56.38	Size-D.P. 4 1/2 / Stands 71 / Singles - / Kelly 18 CO. / Drill. Collar Ft. 633.21 / Core Bbl. Ft.
	DRILL COLLAR DATA: Number 22 / OD 6 1/2 / ID 2 7/8 / Length 633.21 / INDICATOR WEIGHT OF TOTAL: DRILLING STRING 140 M. / DRILL COLLARS 50 M.	DRILL COLLAR DATA: Number 22 / OD 6 1/2 / ID 2 7/8 / Length 633.21 / INDICATOR WEIGHT OF TOTAL: DRILLING STRING 143,000 / DRILL COLLARS 51,000	DRILL COLLAR DATA: Number 22 / OD 6 1/2 / ID 2 7/8 / Length 2 CO. / INDICATOR WEIGHT OF TOTAL: DRILLING STRING 141 CO. / DRILL COLLARS 50 M.
BIT RECORD	No. 31 / Type OWC / Time On Bottom At 12 1/2 PM / Time Pulled At 4:00 / Total Hours Run 4 1/2 / Depth Pulled 7087 / Weight On Bit M Pounds 15,000 / FOOTAGE Drilled / Reamed 48	No. 20 / Type D / Time On Bottom At / Time Pulled At / Total Hours Run 4 / Depth Pulled 7089 / Weight On Bit M Pounds 50 / FOOTAGE Drilled — / Reamed —	No. 20 / Type D / Time On Bottom At / Time Pulled At / Total Hours Run 2 / Depth Pulled / Weight On Bit M Pounds 8 M / FOOTAGE Drilled / Reamed
	Bit Serial No. 15244 / Table R.P.M. 100 / Jet or Conventional - DOWN. / Nozzle Size 3 1/16	Bit Serial No. 3958 / Table R.P.M. 78 / Jet or Conventional - D. CORE / Nozzle Size	Bit Serial No. 3958 / Table R.P.M. 80 / Jet or Conventional - D CORE / Nozzle Size
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
PUSH PUMP RECORD No. 1 / No. 2	HOURS On Line 2 1/4 / Circulating 1 1/2 / Pump Press 900 / Length of Pump Stroke 18 / Strokes Per Min. 52 / Liner Size 6	HOURS On Line 4 / Circulating / Pump Press / Length of Pump Stroke 18 / Strokes Per Min. / Liner Size 6	HOURS On Line C-350 / Circulating / Pump Press 800 / Length of Pump Stroke 18 / Strokes Per Min. 30 / Liner Size 6
MUD RECORD	Time 100 / Visc. 67 / Wt. 10.7 / W L 5.6 / pH 11. / ADDITIVES — POUNDS GEL 2000#	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS PLASTER 250 / QBROX 50	Time 1100 / Visc. 102 / Wt. 10.7 / W L 5.6 / pH 10.5 / ADDITIVES — POUNDS
	Time 200 / Visc. 70 / Wt. 10.6 / W L 5.8 / pH 11.		
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From 7087 / To 7089 / Ft. Cored 2 / Ft. Rec'd. 2 / Core No. 6 / Type Bbl.	From 7089 / To 7095 / Ft. Cored 6 / Ft. Rec'd. / Core No. 6 / Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

From	To	Hrs.	Operations
12:00	2:15	2 1/4	REAM IN RAT HOLE
2:15	2:30	1/4	RIG SERVICE
2:30	4:00	1 1/2	CIRC TO CORE
4:00	6:45	2 3/4	HOIST TO RUN CORE BBL
6:45	7:00	1/4	PICK UP CORE BBL & SERVICE
7:00	8:00	1	RUN IN W/ CORE BBL

Driller L. T. Hicks.

From	To	Hrs.	Operations
8:00	9:00	1	RUN IN
9:00	9:45	3/4	CLEAN 15' FILL
9:45	10:00	1/4	RIG SER. & CHK BOPE
10:00	2:00	4	CK BBL, BBL PLUGGED TO CORE
2:00	4:00	2	PULL CORE BBL

Driller W. Brock

From	To	Hrs.	Operations
4:00	5:15	1 1/4	HOIST PLUGGED CORE BBL.
5:15	5:30	1/4	RIG SER.
5:30	7:00	1 1/2	CLEAN OUT CORE BBL. SER
7:00	9:00	2	RUNNING IN HOLE WITH CORE BBL
9:00	10:00	1	CLEAN TO BOTTOM AT 7089
10:00	12:00	2	CORE

Driller J. Mclean

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: / CONDITIONING MUD: / CASING: / LOGGING: / RIG MAINTENANCE: / REAMING CLEANING:
DRILLING: / FISHING: / TRIPPING: / W.O.C. / W O ORDERS: / MISCELLANEOUS: / WORKING PIPE:
REAMING: / CIRCULATING: / CORING: / D.S. TESTING: / RIG REPAIRS: / CONDITION HOLE: / LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher C. Gallin Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 45

Imp. Rhwen LSD. F SEC. 23 TWN. RGE. W. Contractor Bawden Type Rig Ideal 50 A. Month Feb Day 8 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.											
DEPTH	From	To	Hole Made	Hole Size	Formation							
	7067	7080	13	7								
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
	4½	70	2	33.62	633.21							
	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS					
		22	6½	2 11/16	633.21	138 M	50 M					
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled (Cored)	FOOTAGE Reamed			
	1	D	12⁰⁰		22½		10,000	41				
	Bit Serial No. 2815				Table R.P.M. 78							
	Jet or Conventional - Diamond				Nozzle Size							
SURVEYS	Kind	at	Ft.	Deg. off								
PUSH PUMP RECORD No. 1 No. 2	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size						
	8		825	18	31	6						
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						
	1⁰⁰	72	10.7	6.1	10.5	GEL	1200#					
	3⁰⁰	81	10.7	5.9	10.5	PLASTER	500#					
	5⁰⁰	77	10.7	6.	11	CMC BONDY	450#					
	7³⁰	80	10.7	6	11	CAUSTIC	150#					
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
DETAIL OF OPERATIONS AND REMARKS							From	To	Hrs.			
	CUT ◇ CORE #5						12⁰⁰	8⁰⁰	8			
	Driller E. L. Hicks											

	2nd Tour From: 8:00 a.m. To: 4:00 p.m.											
DEPTH	From	To	Hole Made	Hole Size	Formation							
	7080	7087	7'	6¾								
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
	4½	70	2	40.52	633.21	56.38						
	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS					
		22	6½	2 7/8	633.21	139000	51000					
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed			
	1A	D			27¾		10	48				
	Bit Serial No. 2815				Table R.P.M. 78							
	Jet or Conventional - D. Core				Nozzle Size							
	Kind	at	Ft.	Deg. off								
	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size						
			825	18	31	6						
	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						
	8³⁰	75	10.7	6.2	11.0							
	10³⁰	69	10.8	6.7	11.0							
	12⁰⁰	73	10.7	6.4	11.0							
	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
	7080.	7087	48		5	—						
							From	To	Hrs.			
	CUT CORE #5.						8⁰⁰	1¹⁵	5¼			
	RIG SERV CHK BOPS						1¹⁵	1³⁰	¼			
	PULL CORE #5.						1³⁰	4⁰⁰	2½			
	Driller W. Beal											

	3rd Tour From: 4:00 p.m. To: 12:00 p.m.											
DEPTH	From	To	Hole Made	Hole Size	Formation							
	7039	7071	32	7								
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.						
	4½	71	1	19.72	633.21							
	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS					
		22	6½	2 7/8	633.21	139000	51000					
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE ~~Drilled~~	FOOTAGE Reamed			
	31	CWC	8⁴⁵		3¼		15M		32			
	Bit Serial No. 15244				Table R.P.M. 100							
	Jet or Conventional - FDN				Nozzle Size 11/16							
	Kind	at	Ft.	Deg. off								
	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size						
	7-350		850	18"	52	6"						
	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS						
	9⁰⁰	77	10.4	5.8	11.0							
	11⁰⁰	73	10.6	6.0	11.0							
	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.						
							From	To	Hrs.			
	RECOVER CORE #5						7⁰⁰	6⁰⁰	2			
	CUT & SLIP 39' DRILL LINE						6⁰⁰	6³⁰	½			
	RUN IN						6³⁰	8¹⁵	1¾			
	REAM TIGHT SPOT.						8¹⁵	8²⁵	½			
	REAMING 6⅞" PINHOLE						8²⁵	12⁰⁰	3½			
	Driller [illegible]											

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher [illegible] Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 44

Imp Swan Raley LSD. F SEC. 23 TWN. ..... RGE. ..... W. ..... Contractor Peter Brown Drlg Type Rig Nat. 50 A Month Feb Day 7 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 7030 To 7039 Hole Made — Hole Size 9 Formation —	From 7039 To 7051 Hole Made 12 Hole Size 6 3/8 Formation —	From 7051 To 7067 Hole Made 16 Hole Size 6 1/8 Formation —
	Size-D.P. 4 1/2 Stands 71 Singles — Kelly 18.45 Drill. Collar Ft. 633.21 Core Bbl. Ft. —	Size-D.P. 4 1/2 Stands 70 Singles 1 Kelly 33.87 Drill. Collar Ft. 633.21 Core Bbl. Ft. 56.38	Size-D.P. 4 1/2 Stands 70 Singles 2 Kelly 20 12 Drill. Collar Ft. 633.21 Core Bbl. Ft. —
DRILLING STRING	DRILL COLLAR: Number 633.21 OD 6 1/2 ID 2 7/8 Length 633.21 — INDICATOR WEIGHT OF TOTAL: DRILLING STRING 137 M. DRILL COLLARS 50M	DRILL COLLAR: Number 22 OD 6 1/2 ID 2 7/8 Length 633.21 — INDICATOR WEIGHT OF TOTAL: DRILLING STRING 138,000 DRILL COLLARS 51,000	DRILL COLLAR: Number 22 OD 6 1/2 ID 2 7/8 Length 2900 — INDICATOR WEIGHT OF TOTAL: DRILLING STRING 138 000 DRILL COLLARS 50 000
BIT RECORD	No. 30 Type JM Time On Bottom At 12:15 Time Pulled At — Total Hours Run 2 1/2 Depth Pulled 7039 Weight On Bit M Pounds 15,000 FOOTAGE Drilled — Reamed 50	No. 10 Type D Time On Bottom At — Time Pulled At — Total Hours Run 6 3/4 Depth Pulled — Weight On Bit M Pounds 10 FOOTAGE Drilled 12. Reamed —	No. 1 Type D Time On Bottom At — Time Pulled At — Total Hours Run 14 1/2 Depth Pulled — Weight On Bit M Pounds 10 FOOTAGE Drilled — Reamed —
	Bit Serial No. N94068 Table R.P.M. 100 Jet or Conventional - Conv. Nozzle Size 3 11/16	Bit Serial No. 2815 Table R.P.M. Jet or Conventional - D. Core Nozzle Size	Bit Serial No. 2815 Table R.P.M. 80 Jet or Conventional - Nozzle Size
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
MUSH PUMP RECORD No. 1 No. 2	HOURS On Line 1/2 Circulating — Pump Press 1000 Length of Pump Stroke 18 Strokes Per Min. 53 Liner Size 6	HOURS On Line C-356 Circulating — Pump Press 825 Length of Pump Stroke 18 Strokes Per Min. 31 Liner Size 6	HOURS On Line — Circulating — Pump Press 850 Length of Pump Stroke 18 Strokes Per Min. 32. Liner Size 6
MUD RECORD	Time 100 Visc. 60 Wt. 10.7 W L 6.6 pH 11. ADDITIVES — POUNDS: Q Broxin 400#; Plasier 500#; Caustic 150#; Reg Driscose 50#	Time 1600 Visc. 62 Wt. 10.6 W L 6.2 pH 11.0 ADDITIVES — POUNDS: Hivis Dris. 25#; 1230 64 10.7 6.3 11.0 Gel 1200; 300 67 10.7 6.4 11.	Time 500 Visc. 74 Wt. 10.7 W L 6.4 pH 11.5 ADDITIVES — POUNDS: Hy Vis Driscose-25#; 700 76 10.7 6.4 11.0 Gel-800#; 900 65 10.7 6.6 11.0; 1100 68 10.7 6.6 10.5
CORING	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl. —	From 7039 To 7051 Ft. Cored 12 Ft. Rec'd. — Core No. 5 Type Bbl. —	From 7051 To 7067 Ft. Cored 16 Ft. Rec'd. — Core No. 5 Type Bbl. —
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs.: Rig Service 1200 1215 1/4; Reaming 8" & Rat Hole to 9" Hole 1215 1240 1/2; Circ Prior to Coring 1240 200 1 1/2; Hoist Bit #30 200 230 3 1/4; Pull 4 jts Core Bbl & Service 230 345 1/4; Run in & Ream Bottom 345 800 2 1/4; 6139	Run in Hole to Circ to Btm 800 900 1; Rig Ser & Chk B.O.P.s 900 915 1/4; Cut Core #5 915 400 6 3/4	Cut Core #5 1100 630 2 1/2; Rig Ser & Pump 630 645 1/4; Cut Core 645 1200 5 1/4
	Driller L. E. Hutt	Driller W. T. Brooks	Driller

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

Form 34402 (250 bks-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT #2

Imp Sun Ravely LSD. F SEC. 23 TWN. RGE. W. Contractor Peter Baldwin Drlg Type Rig Nat. 50A. Month Feb Day 6 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation
	7010	7026	16	6 1/8	LIME.	7026	7039	13	6 1/4	S P.	6989	7030	11	7	
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
	4 1/2	70		39.89	633.21		4 1/2	70	1	21.87	633.21	56.38	4 1/2	70	2	40.71	633.21	
	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS
	COLLAR	22	6 1/2	2 7/8	633.21	139,000 / 50,000	COLLAR	22	6 1/2	2 7/8	633.21	139000 / 51000	COLLAR	22	6 1/2	2 1/2	1900	135000 / 50000
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
	1		12		19 1/2		12,000	37		10						10				30		1100		2			—	41
	Bit Serial No. 2815				Table R.P.M. 75		Bit Serial No. 2815			Table R.P.M. 75		Bit Serial No. N74058			Table R.P.M. 100	
	Jet or Conventional - Diamond Coring.				Nozzle Size		Jet or Conventional - D. Core			Nozzle Size —		Jet or Conventional - Conv			Nozzle Size 11	
SURVEYS	Kind	at	Ft.	Deg. off		Kind	at	Ft.	Deg. off		Kind	at	Ft.	Deg. off	
SLUSH PUMP RECORD No. 1 No. 2	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	7 3/4		850	18	28	6	C-350.		850	18	29	6.			745	18	54	6.
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	100	82	10.7	5 8	10	CAUST. 200 #	830	74	10.7	6.0	11.0		1100	78	10.0		11.5	H.O
	300	80	10 7	5 6	10 5	Q BROXIN 400 #	1106	75	10.6	6.0	11.0							
	500	77	10 7	5 8	10.5	PHASIER 500 #	100	74	10.6	6.2	11.0							
	700	80	10 7	5 7	11.													
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
	7010	7026	16		#3	Diamond.	6989	7039	50		4							
DETAIL OF OPERATIONS AND REMARKS			From	To	Hrs.				From	To	Hrs.				From	To	Hrs.
	Rig Service Check Bop's Hell joint		12 00	12 15	1/4		Cut Core #4		8 00	9 00	1		Hoist Core No 4		400	600	2.
	Out D Core #4		12 15	8 00	7 3/4		Rig Ser & Chk BOPs		9 00	9 15	1/4		Recovered Core 49 Ser BBL		600	800	2.
							Cut Core #4		9 15	3 30	6 1/4		Running in Hole		800	930	1 1/2
							TRIP		3 30	4 00	1/2.		Clean out 50 FT		930	1000	1/2
													Reaming & Rat Hole		1000	1200	2
	Driller C. L. Hutton						Driller W. Brooks						Driller					

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W O ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher W. Kent Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Jump Swan Pawley LSD. F SEC. 23 TWN. RGE. W. Contractor Peter Bros Drlg. Type Rig Hat 50A Month Feb/62 Day ~~15~~ 17 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation
	@6984					6989	6993	4	6 3/4		6993	7010	17	6 3/4	
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
	4 1/2	70	1	28.25	633.21		4 1/2	69	2	36.26	633.21	56.38	4 1/2	70	—	42.25	633.21	56.38
	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS
		22	6 1/2	2 7/8	633.21			22	6 3/4	2 7/8	633.21	138000 / 51,000		22	6 1/2	2 3/4	2900	139000	
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
	30	J/M	—	11 1/2	4	6989	15 ~~000~~		50	15	◇	1200				10,000		
		Bit Serial No.	901276		Table R.P.M. 100		Bit Serial No.	2815		Table R.P.M. 82		Bit Serial No.	2815		Table R.P.M. 46	
		Jet or Conventional -	Conv		Nozzle Size 3-11/16		Jet or Conventional -	D Core		Nozzle Size		Jet or Conventional -			Nozzle Size
SURVEYS	Kind	at	Ft.		Deg. off	Kind	at	Ft.		Deg. off	Kind	at	Ft.		Deg. off
SLUSH PUMP RECORD	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1							C-350		850	18	34	6	C-350		850	18	30	6
No. 2									800	18	32	6						
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	3 00	93	10.6	6.5	10.5	REG. DRISEAL 50#						DRIS. 25#	5 00	86	10.6	5.6	10.0	CAUSTIC — 100#
						CAL-BOL OF 300#	12 30	75	10.7	6.2	10.0	PLASTER 350#	7 00	83	10.6	5.6	10.5	Q-BROXIN — 50#
							2 30	84	10.6	6.0	10.5	Q BROX 350#	9 00	80	10.6	5.4	11.0	PLASTER — 50#
												CAUSTIC 100#	11 00	78	10.7	5.4	11.0	
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
							6989	6993	4	—	4	—	6993	7010	17		4	

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
R.I. Serv. e.w. Hyd. BOPs	12 00	12 15	1/4
Circ Prior To Coring	12 15	12 45	1/2
Work T. in Hi Hole	12 45	3 00	2 1/4
Condition Mud	3 00	4 30	1 1/2
Work T. in Hi Hole & Pull out	4 30	8 00	3 1/2

Driller L. J. Hicks

	From	To	Hrs.
Pull Collars	8 00	8 30	1/2
Pick up Core Bbl & Run in Collars	8 30	9 30	1
Slip & Cut 34' Drilling Line	9 30	10 00	1/2
Rig Ser & Chk B.O.P.s.	10 00	10 15	1/4
Run In	10 15	11 30	1 1/4
Circ Bbl. To Btm.	11 30	12 00	1/2
Cut Core # 4.	12 00	4 00	4

Driller W. J. Brooks

	From	To	Hrs.
Rig Ser	11 00	11 —	1/4
Cut Core # 4	11 —	12 00	3 3/4

Driller

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

IFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MAKE OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher .....

Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 4741

LSD. F SEC. 73 TWN. RGE. W. Contractor Bawden Type Rig Ideal 50-A Month Feb Day 4 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
1965	6981	16	6 7/8	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	69	2	24.24	633.21	

	DRILL COLLAR Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
DATA	22	6 1/2	2 7/8	633.21	142M	50M.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	◇	12 1/2		23 1/2		11,000	42	

Bit Serial No. 2815 Table R.P.M. 82

Jet or Conventional - Diamond Core. Nozzle Size

SURVEYS

Kind at Ft. Deg. off

SLUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	3 3/4		900	18	81	6"
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
1.00	73	10.8	6	11.0	Caustic - 200#
3.00	72	10.7	6.4	10.5	Hi Vis Driscose - 50#
5.00	75	10.7	6.2	10.5	
7.00	93	10.7	6.2	11.0	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
R.C. Service Check Bol's	12.00	12.15	1/4
Cut ◇ Core # 3	12.15	8.00	7 3/4

Driller E. L. Hutchison

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6981	7'	6989	6 3/4	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	69	2	32.21	633.21	56.38

	DRILL COLLAR Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
DATA	22	6 1/2	2 7/8	633.21	142000	51,000

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
10	◇		11.15	27 1/4	6989	12		

Bit Serial No. 2815 Table R.P.M. 82

Jet or Conventional - D.C. Nozzle Size —

Kind at Ft. Deg. off

SLUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	C-350		900	18	81	6
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8.00	92	10.7	6.3	11.0	Hi Vis. 50#
9.30	110	10.8		11.0	Q Broxin 400#
11.00	108	10.8		11.0	PLASTER 400#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
6939	6989	50	46.60	3	—

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Cut Core #3	8.00	11.45	3 3/4
Pull Core #3	11.45	2.30	2 3/4
Recover Core & wait on orders	2.30		

Driller W. Brook

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6931	6939	Ream 50	7	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4 1/2	70	1	28.25	633.21	

	DRILL COLLAR Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL DRILLING STRING	DRILL COLLARS
DATA	22	6 1/2	2 7/8	2700		

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
31	YM			4		15M		50

Bit Serial No. 701276 Table R.P.M. 100

Jet or Conventional - Conv. Nozzle Size

Kind at Ft. Deg. off

SLUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	C-350		850	18"	52	6"
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
8.00	117	10.5	6.4	11.0	Hy Vis Driscose - 5
10.00	87	10.6	6.4	11.0	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Running in To Ream	1100	5.45	1 3/4
Clean out Tight Hole.	5.45	7.15	1 1/2
Reaming To Bottom	7.15	11.15	4
C.K. H.P. clean	11.15	12.00	3/4

Driller J. Morgan

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher W. Hodson Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 40 40

LSD. F SEC. 13 TWN. RGE. W. Contractor BAWden Type Rig Eden 50A Month Feb 3 Day 19 62

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6139	6144	5	6	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	67	2	18	633.21	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	22	6½	2⅞	2700		
DATA					140 M	50 M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	◊			4		10	CORE	40

Bit Serial No. 2815 Table R.P.M. 80

Jet or Conventional - Nozzle Size

Kind at Ft. Deg. off

SURVEYS

SLUSH PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1			775	18"	28	6
2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
300	125	10.8	6.2	10.5	CAUSTIC - 200#
500	107	10.8	6.4	11.0	PLASTER - 800#
700	88	10.7	6.0	11.5	Q-BROXIN - 400#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RUNNING IN TO CORE	1200	200	2
CLEAN OUT 40 FT TO BOTTOM	200	400	2
CUT 6½ CORE #2	400	800	4

Driller J. Nagan

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6944	6954	10	6⅞	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	1	27.54	633.21	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	22	6½	2⅞	633.21		
DATA					140,000	50,000

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
1	◊	8:15		11 3/4		10,000	15	

Bit Serial No. 2815 Table R.P.M. 82

Jet or Conventional - DIAMOND CORING Nozzle Size

Kind at Ft. Deg. off

SLUSH PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	5 3/4		775	18	30	6
2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
900	85	10.8	5.9	11	PLASTER 400#
100	85	10.7	5.6	11	Q BROXIN 400#
300	86	10.8	5.2	11	HI VIS DRISCOSE 50#

DUMPED SHALE TANK.

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
R.C. SERVICE CHECK BOP'S	8		
KELLY COCK.		8:15	1/4
CUT ◊ CORE # 3	8:15	4:00	7 3/4

Driller L. S. Hicks

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6954	6965	11	6⅞	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	1	38.54	633.21	56.38

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
					DRILLING STRING	DRILL COLLARS
COLLAR	22	6½	2⅞	633.21		
DATA					140,000	51,000

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
10	◊					10		

Bit Serial No. 2815 Table R.P.M. 82

Jet or Conventional - D. C. Nozzle Size

Kind at Ft. Deg. off

SLUSH PUMP RECORD

No.	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1	3:50		775	18	30	6
2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
430	82	10.7	5.9	11.0	
700	82	10.7	7.9	10.5	
1000	82	10.8		11.0	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
6939	6955	26		3	

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
CUT CORE # 3	4:00	12:00	8

Driller W. Brook

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W. Graham Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT #39

LSD. 6 SEC. 73 TWN. ____ RGE. ____ W. ____ Contractor Bowden Type Rig Ideal-5D.A Month Feb-2 Day ____ 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 6785 To 6705 Hole Made 19 Hole Size 9" Formation Ream	From @ 6939 To Ream 6705-6939 Hole Made 9 Hole Size Formation Lime	From 6939 To — Hole Made — Hole Size — Formation —
DRILLING STRING	Size-D.P. 4½ Stands 67 Singles 1 Kelly 35' Drill. Collar Ft. 633.21 Core Bbl. Ft.	Size-D.P. 4½ Stands 69 Singles 2 Kelly 38.29 Drill. Collar Ft. 633.21 Core Bbl. Ft.	Size-D.P. 4½ Stands 69 Singles 2 Kelly 38.29 Drill. Collar Ft. 633.21 Core Bbl. Ft. —
	DRILL COLLAR Number 22 OD 6¼ ID 2⅞ Length 29 ft INDICATOR WEIGHT OF TOTAL DRILLING STRING 136 M DRILL COLLARS 50 M	DRILL COLLAR Number 22 OD 6½ ID 2⅞ Length 633.21 INDICATOR WEIGHT OF TOTAL DRILLING STRING 136,000 DRILL COLLARS 50 M.	DRILL COLLAR Number 22 OD 6½ ID Length INDICATOR WEIGHT OF TOTAL DRILLING STRING 136000 DRILL COLLARS 51
BIT RECORD	No. 39 Type WDR-2 Time On Bottom At 500 Time Pulled At Total Hours Run 3 Depth Pulled Weight On Bit M Pounds 15,000 FOOTAGE Drilled Reamed 17	No. 29 Type WDR-2 Time On Bottom At 8½ Time Pulled At Total Hours Run 8½ Depth Pulled 6936 Weight On Bit M Pounds 15M. FOOTAGE Drilled 50 Reamed	No. 27 Type WDR-2 Time On Bottom At Time Pulled At Total Hours Run Depth Pulled 6939 Weight On Bit M Pounds — FOOTAGE Drilled — Reamed 53
	Bit Serial No. 66076 Table R.P.M. 127 Jet or Conventional - CONV. Nozzle Size 11/16	Bit Serial No. 66076 Table R.P.M. 110 Jet or Conventional - CONV. Nozzle Size 3 11/16	Bit Serial No. 66076 Table R.P.M. — Jet or Conventional - CONV. Nozzle Size —
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
SLUSH PUMP RECORD No. 1 No. 2	HOURS On Line C-350 Circulating Pump Press 1100 Length of Pump Stroke 18" Strokes Per Min. 56 Liner Size 6"	HOURS On Line #1 5½ Circulating 1½ Pump Press 1000# Length of Pump Stroke 18 Strokes Per Min. 52 Liner Size 6	HOURS On Line C-350 Circulating Pump Press 1100 Length of Pump Stroke 18 Strokes Per Min. 54 Liner Size 6
MUD RECORD	Time 300 Visc. 85 Wt. 10.8 W L 6.6 pH 11.0 ADDITIVES — POUNDS 35# Hy Vis Driscose 500 77 10.8 6.4 11.0 700 72 10.7 6.6 11.0	Time 900 Visc. 77 Wt. 10.7 W L 6 pH 10.5 ADDITIVES — POUNDS Plastex 400# 1200 75 10.7 6 11.0 QBrox 400# 300 75 10.7 6.1 11.0 Caustic 200# H.V. Driscose 50# Gel 1200	Time 400 Visc. 87 Wt. 10.8 W L 6.8 pH 11 ADDITIVES — POUNDS H.-V.-DRIS 50# 600 100 10.8 6.0 9.0
CORING	From To Ft. Cored Ft. Rec'd. Core No. Type Bbl.	From To Ft. Cored Ft. Rec'd. Core No. Type Bbl.	From To Ft. Cored Ft. Rec'd. Core No. Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From To Hrs. Rig Ser 1200 1215 ¼ Run In 1215 245 2½ Reaming 30' Tight Hole 245 500 2¼ Reaming Rathole 500 800 3	From To Hrs. R.G. Service Check Bop's & Kelly cock. 800 815 ¼ Ream 6's Rathole 16 Hole. 815 145 5½ Circ To Core 145 315 1½ Hoist, Bit # 29 Hole Tight. 315 400 ¾	From To Hrs. Ream 120' To Btm. 400 445 ¾ Circ To Cond. Mud 445 615 1½ Pull Out 8 Tight Stds 615 900 2¾ Trip Out Hole Good 900 1115 2¼ Pick Up Core Bbl & Run In 1115 1200 ¾
	Driller L. Mclean	Driller E. L. Hicks.	Driller G. Brooks.

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ____ REEL SERIAL No. ____ DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES NO

MNFR. OF KELLY HOSE IN USE ____ HOSE SERIAL No. ____

Total Contract Time ____ hrs. Total Company Time ____ hrs. Toolpusher W. Conlin Approved by ____

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED — DAILY DRILLING REPORT #34

Imperial Sun Nista Raven F-73 LSD. SEC. TWN. RGE. W. Contractor J. Ed. Brown Type Rig NAT 50-A Month FEB Day 19.62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 6910 To 6921 Hole Made 11 Hole Size 6¾ Formation	From 6921 To 6932 Hole Made 11 Hole Size 6¾ Formation	From 6932 To 6939 Hole Made 7 Hole Size 6¾ Formation
DRILLING STRING	Size-D.P. 4½ Stands 69 Singles — Kelly 24.42 Drill. Collar Ft. 633.21 Core Bbl. Ft. 56.38	Size-D.P. 4½ Stands 69 Singles — Kelly 36.42 Drill. Collar Ft. 633.21 Core Bbl. Ft. 56.38	Size-D.P. 4½ Stands 69 Singles — Kelly 38.10 Drill. Collar Ft. 633.21 Core Bbl. Ft. 56.38
	DRILL COLLAR: Number 22 OD 6½ ID Length 633.21	DRILL COLLAR: Number 22 OD 6½ ID Length 633.21	DRILL COLLAR: Number 22 OD 6½ ID Length 633.21
	INDICATOR DATA: WEIGHT OF DRILLING STRING 135000 TOTAL DRILL COLLARS 51,000	INDICATOR DATA: WEIGHT OF DRILLING STRING 135000 TOTAL DRILL COLLARS 51,000	INDICATOR DATA: WEIGHT OF DRILLING STRING TOTAL DRILL COLLARS
BIT RECORD	No. 1 Type ◇ Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds 10 FOOTAGE Drilled Reamed	No. 10 Type ◇ Time On Bottom At Time Pulled At Total Hours Run Depth Pulled Weight On Bit M Pounds FOOTAGE Drilled Reamed	No. 10 Type ◇ Time On Bottom At Time Pulled At Total Hours Run 33 6936 Depth Pulled Weight On Bit M Pounds 10 FOOTAGE Drilled Reamed
	Bit Serial No. ◇ 2815 Table R.P.M. 92	Bit Serial No. 2815 ◇ Table R.P.M. 92	Bit Serial No. ◇ 2815 Table R.P.M. 92
	Jet or Conventional - Nozzle Size —	Jet or Conventional - — Nozzle Size —	Jet or Conventional - Nozzle Size
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
SLUSH PUMP RECORD No. 1 No. 2	HOURS On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS On Line 5-30 / Circulating; Pump Press 775; Length of Pump Stroke 18; Strokes Per Min. 29; Liner Size 6
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS 86 / 10.4 / 6.6 / 11.0 87 / 10.7 / 6.4 / 11.0 91 / 10.7 / 6.6 / 11.0 85 / 10.7 / 6.6 / 11.0.	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS 80 / 10.7 / 6.8 / 11. / CEL 1200# PLASTER 400# Q BROX 400 1° 80 / 10.7 / 5.9 / 11.0 / CAUSTIC 100 HV DRIS 25	Time 4:00 / Visc. 85 / Wt. 10.8 / W L 6.8 / pH 11. / ADDITIVES — POUNDS
CORING	From 6910 To 6921 Ft. Cored Ft. Rec'd. Core No. 2 Type Bbl.	From 6921 To 6932 Ft. Cored Ft. Rec'd. Core No. Type Bbl.	From 6886 To ~~6936~~ 6939 Ft. Cored 50. Ft. Rec'd. ~~50.53~~ Core No. 2 Type Bbl. — ◇ (Revised to 7-6-14/62 from Company)
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs. RIG SER. 12:00 / 12:15 / ¼ CUT CORE #2 12:15 / 8:00 / 7¾.	From / To / Hrs. RIG SER & CHK BOPs 8:00 / 8:15 / ¼ CUT CORE #2 8:15 / 4:00 / 7¾	From / To / Hrs. CUT CORE #2. 4:00 / 7:30 / 3½ PULL OUT 7:30 / 10:30 / 3 RECOVER CORE #2. 10:30 / 12:00 / 1½.
	Driller.....	Driller.....	Driller W. Brooks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: R'G REPAIRS: CONDITION HOLE: LOST CIRC.: MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher ..... Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 3457

LSD. F SEC. 73 TWN. ..... RGE. ..... W. ..... Contractor Brandon Drlg Type Rig 50 A. Ideal Month Jan.-31-62 Day 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 6866 To — Hole Made — Hole Size 7 Formation	From 6886 To 6891 Hole Made 5 Hole Size 6 1/8 Formation	From 6891 To 6919 Hole Made 19 Hole Size 9 Formation S.P.
	Size-D.P. 4½ Stands 67 Singles 1 Kelly 16.53 Drill. Collar Ft. 633.21 Core Bbl. Ft.	Size-D.P. 4½ Stands 68 Singles 2 Kelly 26.80 Drill. Collar Ft. 633.21 Core Bbl. Ft. 57.00	Size-D.P. 4½ Stands 68 Singles 2 Kelly 45.80 Drill. Collar Ft. 633.21 Core Bbl. Ft. 57.00
DRILLING STRING	DRILL COLLAR DATA; Number 22; OD 6½; ID 2⅞; Length; INDICATOR WEIGHT OF TOTAL DRILLING STRING 140 M; DRILL COLLARS 50 M	DRILL COLLAR DATA; Number 22; OD 6½; ID 2⅞; Length 633.21; INDICATOR WEIGHT OF TOTAL DRILLING STRING 135,000; DRILL COLLARS 50 M.	DRILL COLLAR DATA; Number 22; OD 6½; ID 2⅞; Length 633.21; INDICATOR WEIGHT OF TOTAL DRILLING STRING; DRILL COLLARS
BIT RECORD	No. 1; Type ◇; Time On Bottom At; Time Pulled At; Total Hours Run; Depth Pulled; Weight On Bit M Pounds; FOOTAGE Drilled; Reamed	No. 1A; Type Diamond; Time On Bottom At 10 a.m.; Time Pulled At; Total Hours Run 6.; Depth Pulled; Weight On Bit M Pounds 10; FOOTAGE Drilled 5; Reamed	No. 2D; Type D.C.; Time On Bottom At; Time Pulled At; Total Hours Run; Depth Pulled; Weight On Bit M Pounds 10; FOOTAGE Drilled; Reamed
	Bit Serial No. D 2815 Table R.P.M.	Bit Serial No. D 2815. Table R.P.M. 90	Bit Serial No. 2815 Table R.P.M. 100
	Jet or Conventional - Nozzle Size	Jet or Conventional - Nozzle Size	Jet or Conventional - Nozzle Size
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
SLUSH PUMP RECORD No. 1 No. 2	HOURS On Line / Circulating; Pump Press; Length of Pump Stroke; Strokes Per Min.; Liner Size	HOURS On Line #1 / Circulating; Pump Press 775; Length of Pump Stroke 18; Strokes Per Min. 32; Liner Size 6	HOURS On Line C-350 / Circulating; Pump Press 775; Length of Pump Stroke 18; Strokes Per Min. 32; Liner Size 6.
MUD RECORD	Time; Visc.; Wt.; W L; pH; ADDITIVES — POUNDS	Time 1.00; Visc. 87; Wt. 10.7; W L 6.6; pH 11.0; ADDITIVES — POUNDS H.V Driscose 50# 3.00; 72; 10.7; 7.0; 11.0; Plas Tex 400# Q Brox 400# Caustic 100#	Time; Visc.; Wt.; W L 7.8; pH; ADDITIVES — POUNDS Hy Vis. Dris. 50#. 11.00; 102; 10.7; 6.9; 11
CORING	From; To; Ft. Cored; Ft. Rec'd.; Core No.; Type Bbl.	From 6781; To 6891; Ft. Cored; Ft. Rec'd.; Core No. 2; Type Bbl.	From 6876; To 6895; Ft. Cored 19; Ft. Rec'd.; Core No. 2; Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

From	To	Hrs.	Remarks
500	500	5	PUT NEW HIGH DRIVE SPROCKET ON JACKSHAFT & NEW ROTARY SPROCKET ON
500	600	1	PICK UP CORE BBL
600	800	2.	RUNNING IN TO CORE 6¼ HOLE
			Measure in
			Depth - 6871'
			Measured Depth - 6886.95'
			Pipe Correction of 15' long on tubulanger.

Driller .....

From	To	Hrs.	Remarks
8.00	8.45	¾	RUN IN W/ CORE BBL.
8.45	9.15	½	CLEAN OUT 40' FILL.
9.15	9.30	¼	R.G SERVICE @ HECK BOP'S
9.30	10.00	½	CIRC TO CORE
10.00	4.00	6.	CUT CORE #2

Driller E. L. Hicks.

From	To	Hrs.	Remarks
4.00	12.00	8	CUT CORE #2

Driller W Brandon

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher Wilson. Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT #36

Imperial LSD. Sec Nettle Raven SEC. TWN. F-73 RGE. W. Contractor Nettle Raven Drlg. Type Rig NAT 50-A Month Jan Day 30 1962

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6829	6941	12	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	-	17	663-21	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	6½	2¼	29'1"	DRILLING STRING	DRILL COLLARS
DATA					140,000	51,200

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
26	OWV		12 30	7½	6831	45	20'	
27	W7	600						

Bit Serial No. 98296 Table R.P.M. 80

Jet or Conventional - Conv Nozzle Size 11/16

SURVEYS

Kind at Ft. Deg. off

SLUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	C-350		1100	18"	52	6"
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	95	10.7	7.6	11.0	
700	89	10.7	7.6	11.0	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILL 9" HOLE	12 00	13 15	1¼
RIG SER.	13 15	13 30	¼
HOIST FOR BIT	13 30	2 45	2¼
RUN IN	2 45	4 30	1¾
WASH 38' TO BOTTOM	4 30	6 00	1½
DRILL 9" HOLE	6 00	POOH	2

Driller [signature]

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6841	6861	20	9	Hard Shale & Lt.

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	-	36.42	633.21	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	6½	2⅞	633.21	DRILLING STRING	DRILL COLLARS
DATA					137,000	50,000

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
27	W7	8 15		9¾		50m.	30	

Bit Serial No. 98296 Table R.P.M. 64

Jet or Conventional - Conv. Nozzle Size 3-7/16

Kind at Ft. Deg. off

SLUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1			1100	18	54	6
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
830	92	10.7	7.9	11	Plaster 300#
1000	60	10.7	7.9	11.	Q Brox 500#
200	62	10.7	8.	11	H.V. Driscose 150#
330	80	10.7	7.6	11.	Gel 1200#
					Lime 100#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG SERVICE CHECK BOPs	8 00	8 15	¼
DRILL 9" HOLE	8 15	4 00	7¾

Driller E. L. Hicks.

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6861	6871	10	9"	Slave Point

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	69	1	16.53	633.21	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	6½	2¼	633.21	DRILLING STRING	DRILL COLLARS
DATA					137000	51000.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
27	W7				6871	48.	40.	

Bit Serial No. 98296 Table R.P.M. 60

Jet or Conventional - Conv Nozzle Size 11/16

Kind at Ft. Deg. off

SLUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1	C-350		1100	18	54	6
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
430	108	10.8	5.7	11.	
700	108	10.8	6.8	11.	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRLG	4 00	4 45	¾
RIG SER & CHK BOPs	4 45	5 00	¼
DRLG.	5 00	6 45	1¾
CIRC. SAMPLE.	6 45	8 00	1¼
TRIP OUT, MEAS. OUT	8 00	11 30	3½
SLIP & CUT 34' DRLGLINE	11 30	12 00	½

Driller W Brook

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W. O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ← NO

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher Wlamlin Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 3435

Imperial Sun Nitla Raven LSD. SEC. TWN. RGE. F-73 W. Contractor Peter Gordon Ltd. Type Rig Pet 50-A Month Jan Day 29 19 62

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 6775' To 6811 Hole Made 36 Hole Size 7 Formation	From 6811 To Hole Made Hole Size Formation	From 6811 To 6829 Hole Made 18' Hole Size 9" Formation
DRILLING STRING	Size-D.P. 4½ Stands 62 Singles 2 Kelly 31.70 Drill. Collar Ft. 633.21 Core Bbl. Ft.	Size-D.P. 4½ Stands 68 Singles 2 Kelly 12.80 Drill. Collar Ft. 633.21 Core Bbl. Ft.	Size-D.P. 4½ Stands 68 Singles 2 Kelly 36.80 Drill. Collar Ft. 633.21 Core Bbl. Ft.
	DRILL COLLAR DATA: Number 22, OD 6¼, ID 2 7/16, Length 79'±	DRILL COLLAR DATA: Number 22, OD 6½, ID 2⅞, Length 623.21	DRILL COLLAR DATA: Number 22, OD 6½, ID 2 7/16, Length 633.21
	INDICATOR WEIGHT OF TOTAL DRILLING STRING 139,000 DRILL COLLARS 50M	INDICATOR WEIGHT OF TOTAL DRILLING STRING DRILL COLLARS 50,000	INDICATOR WEIGHT OF TOTAL DRILLING STRING 140000 DRILL COLLARS 51,200
BIT RECORD	No. 25, Type OWV, Time On Bottom At, Time Pulled At 700, Total Hours Run 12, Depth Pulled, Weight On Bit M Pounds 50M, FOOTAGE Drilled 87, Reamed	No. 25, Type OWV, Time On Bottom At 12, Time Pulled At 700, Total Hours Run 12, Depth Pulled 6811, Weight On Bit M Pounds 50, FOOTAGE Drilled 87, Reamed No. 26, Type YH	No. 26, Type YH, Time On Bottom At 4:00, Time Pulled At, Total Hours Run 7¼, Depth Pulled, Weight On Bit M Pounds 45, FOOTAGE Drilled 18, Reamed
	Bit Serial No. 26889 Table R.P.M. 82	Bit Serial No. 804971 Table R.P.M. 82	Bit Serial No. 804971 Table R.P.M. 80
	Jet or Conventional - Conv. Nozzle Size 11/16	Jet or Conventional - Conv. Nozzle Size 3-11/16	Jet or Conventional - Conv. Nozzle Size 3-11/16
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind at Ft. Deg. off
SLUSH PUMP RECORD No. 1 / No. 2	HOURS On Line C-350, Circulating; Pump Press 1100; Length of Pump Stroke 18; Strokes Per Min. 52; Liner Size 6"	HOURS On Line #1, Circulating; Pump Press 1150; Length of Pump Stroke 18; Strokes Per Min. 54; Liner Size 6	HOURS On Line C-350, Circulating; Pump Press 1100; Length of Pump Stroke 18 / 14; Strokes Per Min. 52; Liner Size 6 / 6¾
MUD RECORD	Time 100, Visc. 170, Wt. 10.8, W L 8.8, pH 10.5, ADDITIVES — POUNDS Q-BROXIN - 500# 300, 195, 10.8, , 10.5, LIME - 150# 500, 160, 10.8, 9.0, 11.0 700, 130, 10.7	Time, Visc., Wt., W L, pH, ADDITIVES — POUNDS	Time 500, Visc. 100, Wt. 10.7, W L 8.2, pH 11.0, ADDITIVES — POUNDS Lime 200 700, 73, 10.8, 8.4, 10.9, Hy Vis 100 1000, 122, 10.8, 7.9, 10.5 1115, 87, 10.8, 8.8, 10.5
CORING	From To Ft. Cored Ft. Rec'd. Core No. Type Bbl.	From To Ft. Cored Ft Rec'd. Core No. Type Bbl.	From To Ft. Cored Ft. Rec'd. Core No. Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs. R.G SER 1200 / 1215 / ¼ DRILL F. HOLE 1215 / 1245 / ½ PUT NEW PACKING IN @ 330 1245 / 130 / ¼ DRILL 130 / 700 / 5½ HOIST 700 / 800 / 1	From / To / Hrs. HOIST BIT # 25 800 / 1045 / 2¾ R.G SERV. see CHECK BOP'S 1045 / 1100 / ¼ RUN IN w/ BIT #26 1100 / 115 / 2¼ REMOVE BADGE @ 6990' 115 RUN IN TO BOT. / 245 / 1½ REAM O. C. HOLE. 245 / 400 / 1¼	From / To / Hrs. REAM & CLEAN 5' TO BTM 400 / 430 / ½ R.G SER & CHK B.O.P.s. 430 / 445 / ¼ DRLG 445 / 1200 / 7¼
	Driller J. Morgan	Driller C. L. Hobbs	Driller W Brooks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W Conlin Approved by .....

Form 34402 (250 blks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 34

Imperial LSD. Sun SEC. Netla TWN. Raven RGE. F-73 W. Contractor Peter Pond Drlg Type Rig #4 50-A Month Jan Day 28 19 62

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6678	6724	57	7	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	67	2	19	633.21	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	22	6½	2⅛	xxx	DRILLING STRING	DRILL COLLARS
	DATA					134.000	TM

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
E-4	OWV			12½		40	51	—

Bit Serial No. 45520 Table R.P.M. 82

Jet or Conventional - CONV. Nozzle Size 11/16

Kind at Ft. Deg. off

SURVEYS

SLUSH PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1050	18	52	6"

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
100	100	10.8	8.8	11.0	

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG. SER	1200	1215	¼
DRILL 9" HOLE	1215	700	6¾
HOIST FOR BIT	700	800	1

Driller L. Majeau

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6573				

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	67	2	20.75	633.21	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	22	6½	2⅛	633.21	DRILLING STRING	DRILL COLLARS
	DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
25	OWV	N.L						

Bit Serial No. 26889 Table R.P.M.

Jet or Conventional - CONV. Nozzle Size 3 7/16

Kind at Ft. Deg. off

SLUSH PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					TRIPPING

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
11503			
HOIST BIT # 24	800	1112	3 1/4
RUN E.D.C's	1112	1200	¾
R/C SER. J.C. CHECK BOP's.	1200	1212	¼
SLIP & CUT DRILL LINE.	1212	112	1
RUN IN & REAM TIGHT SPOTS	112	400	2¾

Driller C. S. Hubbs

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6724	6775	51	9"	—

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	68	1	12.74	633.21	

	DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
	COLLAR	22	6½	2 11/16	633.21	DRILLING STRING	DRILL COLLARS
	DATA					138000	51273

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
25	OWV			6	—	45		

Bit Serial No. 26889 Table R.P.M. 82

Jet or Conventional - CONV Nozzle Size 11/16

Kind at Ft. Deg. off

SLUSH PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1800	18	52	6
			14		6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
700	72	10.8		9.0	CEL 8400
930	92	10.8	10.4	10.0	CAUSTIC 200
1100	124	10.8	8.8	10.5	QBROWN 1800
					PLASTER 600.
					LIME 100 #

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
REAM & CLEAN 200' BRIDGED HOLE TO BTM. CLEAN 40'	400	545	1¾
FILL RIG. SER & CHK BOPS	545	600	¼
DRLG.	600	1200	6.

Driller

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING. LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO ....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher Monkin Approved by .....

Form 24402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 33

Imperial LSD. Sec. Twn. Rge. W. Contractor Peter Bawden Drlg. Type Rig NAT 50-A Month Jan. Day 27 19 62

Well: San Nella Raven F-75

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6573	6629	56	9	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	66	2	13.28	633.21	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	6½	2¼	633.21	DRILLING STRING	DRILL COLLARS
DATA						51273

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
23	OWV			17½	—	50	143	

Bit Serial No. 51046 Table R.P.M. 82

Jet or Conventional - CONV Nozzle Size 11/16

SURVEYS

Kind at Ft. Deg. off

SLUSH PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1075	18		6
			14		6½

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
12:30	57	10.8	11.2	12.0	Gel 5000#
2:00	56	10.8	✓	10.5	Plaster 750#
6:30	85	10.8			Hyprodie 150#
7:30	90	10.8			Flosa 50#
					Lime 100#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRLG	12:00	3:15	3¼
RIG SER & CHK BOPS	3:15	3:30	¼
DRLG	3:30	8:00	4½

Driller W. Brooks

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6627	6633	1	9	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	66	2	17.25	633.21	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	6½	2¼	2700	DRILLING STRING	DRILL COLLARS
DATA					134000	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
23	OWV			—	—	—	—	

Bit Serial No. 45520 Table R.P.M. 82

Jet or Conventional - CONV Nozzle Size 11/16

SURVEYS

Kind at Ft. 6633 Deg. off 3

SLUSH PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1050	18	53	6

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
WORK ON MUD PUMP	8:00	8:15	¼
R.S SER	8:15	8:30	¼
DRILL	8:30	9:15	¾
SURVEYS	9:15	9:30	¼
HOIST	9:30	12:00	2½
REAMING IN & CLEAN OUT TO BOTTOM	12:00	1:00	4

Driller J. Nazar

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
6633	6678	45'	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	67	0	31.53	633.21	

DRILL	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
COLLAR	22	6½	2¼	2700	DRILLING STRING	DRILL COLLARS
DATA					134000	50M

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
24	OWV	4:00				50	45'	

Bit Serial No. 45520 Table R.P.M. 82

Jet or Conventional - CONV Nozzle Size 11/16

SURVEYS

Kind at Ft. Deg. off

SLUSH PUMP RECORD No. 1 No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350		1050	18	52	6"

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
5:00	95	10.7	8.3	10.0	GEL — 1000#
7:00	90	10.7	8.8	10.0	CAUSTIC — 200#
					Q-BROXIN — 400#
					PLASTER — 600#
					H.V. DISPERSE — 25#

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG SER	4:00	4:15	¼
DRLG	4:15	9:15	5
CHECK BOPS & TIGHTEN BOLTS (CRACKED SPROCKET)	9:15	11:30	2¼
DRLG	11:30	11:45	¼
DARK ON BOPS	11:45	12:00	¼

Driller E. L. Hicks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE: DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. ..... YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher ..... Approved by .....

Form 3402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 32

Imperial LSD. Sec. Sun TWN. Nitla RGE. Raven W. F-73 Contractor Lotus Bowden Type Rig NAT 50-A Month Jan Day 26 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.					2nd Tour From: 8:00 a.m. To: 4:00 p.m.					3rd Tour From: 4:00 p.m. To: 12:00 p.m.				
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation
	6474	6486	12	9		6486	6501	15	9		6504	6573	69	9	SHALE
DRILLING STRING	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.	Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
	4½	65	—	21	633.21		4½	65	-	38.50	633.21		4½	66	—	16.21	633.21	
	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL: DRILLING STRING / DRILL COLLARS
		22	6½		633.21	133000 / 51273		22	6½	2¼	29	130 M / 50 M		22	6½	2⅞	633.21	134,000 / 50,000
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
	22	OWV			16¼	6486	50	139		23	OWV			2		50M			23	OWV	4⁰⁰		9¾		50M.	85	
	Bit Serial No.	26886			Table R.P.M.	85	Bit Serial No.	57616			Table R.P.M.	82	Bit Serial No.	51046			Table R.P.M.	82
	Jet or Conventional -	Conv.			Nozzle Size	11/16	Jet or Conventional -	Conv.			Nozzle Size	11/16	Jet or Conventional -	Conv.			Nozzle Size	3 11/16
SURVEYS	Kind		at		Ft.	Deg. off	Kind		at		Ft.	Deg. off	Kind	Eastman	at	6486	Ft.	2½ Deg. off
SLUSH PUMP RECORD No. 1 / No. 2	HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	6-30		1650	18	53	6							#1		1075	18	53	6"
						6½												
MUD RECORD	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS	Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	100	56	10.8										500	72	10.7	9.8	10	Plastex 1000 #
													900	65	10.9	8.1	10	D Brox 600 #
													900	59	10.8	8.6	10	Caustic 300 #
													1200	58	10.8	8.7	10	
CORING	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.
DETAIL OF OPERATIONS AND REMARKS			From	To	Hrs.				From	To	Hrs.				From	To	Hrs.
	Rig Ser & Chk BOPs		12⁰⁰	12¹⁵	¼		R & Ser		800	815	½		R & G Service @ Heat, BOP's		4⁰⁰	4⁰⁵	1/4
	Drlg		12¹⁵	200	1¾		Running in - Hole Tight Spots To Bottom		815	200	5¾		Drill 9" Hole		4¹⁵	12⁰⁰	7¾
	Survey		200	230	½		Drill To Hole		200	400	2							
	Trip for Bit		230	800	5½													
	Driller W Brooks						Driller						Driller E. S. Hicks					

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time ..... hrs. Total Company Time ..... hrs. Toolpusher W Coulson Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED — DAILY DRILLING REPORT

Imperial LSD. Sun Pella Raven F-73 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor Peter Bawden Type Rig NAT. 50-A Month Jan. Day 20 1962.

31

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 6347	From 6347 To 6416 Hole Made 69 Hole Size 9	From 6416 To 6474 Hole Made 58 Hole Size 9 Formation SHALE.
DRILLING STRING	Size-D.P. 4½ Stands 63 Singles 1 Kelly 31. Drill. Collar Ft. 633 Core Bbl. Ft.	Size-D.P. 4½ Stands 64 Singles 1 Kelly 40.50 Drill. Collar Ft. 633.21 Core Bbl. Ft.	Size-D.P. 4½" Stands 64 Singles 2 Kelly 38.50 Drill. Collar Ft. 633.21 Core Bbl. Ft.
	DRILL COLLAR: Number 22 OD 6½ ID 2¼ Length 633.21	DRILL COLLAR: Number 22 OD 6½ ID 2¼ Length 27	DRILL COLLAR: Number 22 OD 6½ ID 2⅞ Length 633.21
	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 128 000 DRILL COLLARS 51273	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 130 M DRILL COLLARS 50 M	INDICATOR WEIGHT OF TOTAL: DRILLING STRING 131 M DRILL COLLARS 50M.
BIT RECORD	No. 22 Type OWV Time On Bottom At 7:45 Time Pulled At — Total Hours Run ¼ Depth Pulled — Weight On Bit M Pounds — FOOTAGE Drilled — Reamed —	No. 22 Type OWV Time On Bottom At — Time Pulled At — Total Hours Run 7¾ Depth Pulled — Weight On Bit M Pounds 50 M FOOTAGE Drilled 69 Reamed —	No. 22 Type OWV Time On Bottom At 4:15 Time Pulled At — Total Hours Run 14½ Depth Pulled — Weight On Bit M Pounds 45M FOOTAGE Drilled 127 Reamed —
	Bit Serial No. 26886 Table R.P.M. 110	Bit Serial No. 26886 Table R.P.M. 82	Bit Serial No. 26886 Table R.P.M. 82
	Jet or Conventional - CONV. Nozzle Size 11/16	Jet or Conventional - CONV. Nozzle Size 11/16	Jet or Conventional - CONVENTIONAL Nozzle Size 3 - 11/16
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind EASTMAN at Ft. Deg. off
SLUSH PUMP RECORD No. 1 No. 2	HOURS On Line C-350 Circulating — Pump Press 1050 Length of Pump Stroke 18 Strokes Per Min. 55 Liner Size 6	HOURS On Line — Circulating — Pump Press 1050 Length of Pump Stroke 18 Strokes Per Min. 54 Liner Size 6.	HOURS On Line #1 Circulating — Pump Press 1050 Length of Pump Stroke 18 Strokes Per Min. 53 Liner Size 6
MUD RECORD	Time — Visc. — Wt. — W L — pH — ADDITIVES — POUNDS	Time 8:00 Visc. 54 Wt. 10.8 W L 10.6 pH 9.5 ADDITIVES — POUNDS: PHASTER - 1500#; G-BROXIN - 500#; CAUSTIC - 300#; DRISCOSE HV. - 25#; CELEX - 100#	Time 4:30 Visc. 61 Wt. 10.8 W L 9.2 pH 9.5 ADDITIVES — POUNDS: GEL 1800#; PHASTER 800#; LIME 200#; DRISCOSE 125; G BROXIN 400#; CAUSTIC 200#
		Time 3:00 Visc. 62 Wt. 10.9 W L 10.4 pH 9.5	Time 6:00 Visc. 63 Wt. 10.8 W L 10 pH 9.5; Time 9:00 Visc. 87 Wt. 10.8 W L 9.2 pH 9.5; Time 12:00 Visc. 95 Wt. 10.8 W L 9.2 pH 9.5
CORING	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl.	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl.	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs. RIG SER & CHK BOPS 12:00 / 12:15 / ¼ SLIP & CUT 425' DRLG LINE. 12:15 / 1:30 / 1¼ RUN IN 1:30 / 3:00 / 1½ REAM BRIDGES @ 18 STDS; 3:00 16 STDS, 14 STDS, 7 STDS; 2 STDS OFF BTM NO FILL. / 8:00 / 5:00	From / To / Hrs. RIG SER 8:00 / 8:15 / ¼ DRILL IN HOLE. 8:15 / 4:00 / 7¾ 8	From / To / Hrs. R. & SERVICE 4:00 / 4:45 / ¾ DRILL 9" HOLE. 4:45 / 5:00 / ¼ REPLACE CLOYD STD 5:00 / 6:00 / 1 DRILL 9" HOLE 6:00 / 12:00 / 6.
	Driller W. Brooks.	Driller J. Magsam	Driller C. S. Hicks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: DRILLING: REAMING: TOTCO: FISHING: CIRCULATING: CONDITIONING MUD: TRIPPING: CORING: CASING: W.O.C. D.S. TESTING: LOGGING: W O ORDERS: RIG REPAIRS: RIG MAINTENANCE: MISCELLANEOUS: CONDITION HOLE: REAMING CLEANING: WORKING PIPE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W. Crooks Approved by .....

Form 34402 (250 bks-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Imperial Stella Raven F-73 LSD. SEC. TWN. RGE. W. Contractor Peter Bawden Type Rig NAT-50A Month Jan. 24 Day 24 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 6247	From 6247 To 6325 Hole Made 78 Hole Size 9	From 6325 To 6347 Hole Made 22 Hole Size 9 Formation SHALE.
DRILLING STRING	Size-D.P. 4½ Stands 62 Singles 1 Kelly 21 Drill. Collar Ft. 633.21 Core Bbl. Ft.	Size-D.P. 4½ Stands 63 Singles — Kelly 1050 Drill. Collar Ft. 632.21 Core Bbl. Ft.	Size-D.P. 4½ Stands 63 Singles 1 Kelly 31.93 Drill. Collar Ft. 633.21 Core Bbl. Ft.
	DRILL COLLAR DATA: Number 22 OD 6½ ID — Length 633 INDICATOR WEIGHT OF TOTAL DRILLING STRING — DRILL COLLARS	DRILL COLLAR DATA: Number 22 OD 6½ ID 2⅜ Length 2900 INDICATOR WEIGHT OF TOTAL DRILLING STRING 170M DRILL COLLARS 50M	DRILL COLLAR DATA: Number 22 OD 6½ ID 3 1/16 Length 633.21 INDICATOR WEIGHT OF TOTAL DRILLING STRING 134000 DRILL COLLARS 20000
BIT RECORD	No. 21 Type YS Time On Bottom At — Time Pulled At — Total Hours Run — Depth Pulled — Weight On Bit M Pounds — FOOTAGE Drilled — Reamed —	No. 21 Type YS Time On Bottom At 9.00 Time Pulled At — Total Hours Run 7 Depth Pulled — Weight On Bit M Pounds 45M FOOTAGE Drilled 72 Reamed 60	No. 21 Type YS Time On Bottom At 4.15 Time Pulled At 6.30 Total Hours Run 9¼ Depth Pulled 1347 Weight On Bit M Pounds 45M FOOTAGE Drilled 100 Reamed —
	Bit Serial No. 016739 Table R.P.M. 11 Jet or Conventional - CONV. Nozzle Size 1" 16	Bit Serial No. 016729 Table R.P.M. 105 Jet or Conventional - CONV Nozzle Size 11/16	Bit Serial No. 016739 Table R.P.M. 104 Jet or Conventional - CONVENTIONAL Nozzle Size 3 11/16
SURVEYS	Kind at Ft. Deg. off	Kind at Ft. Deg. off	Kind Eastman at 6247 Ft. 2½ Deg. off
SLUSH PUMP RECORD No. 1 No. 2	HOURS On Line — Circulating — Pump Press — Length of Pump Stroke — Strokes Per Min. — Liner Size	HOURS On Line — Circulating — Pump Press 1050 Length of Pump Stroke 18 Strokes Per Min. 53 Liner Size 6	HOURS On Line #1 — Circulating — Pump Press 1050 Length of Pump Stroke 18 Strokes Per Min. 53 Liner Size 6
MUD RECORD	Time — Visc. — Wt. — W L — pH — ADDITIVES — POUNDS	Time — Visc. — Wt. — W L — pH — ADDITIVES — POUNDS: QBrex 200# Plaster 1000# Caustic 300# Reg Driscose 50# H.V. Driscose 25#	Time 4.00 / 6.00 — Visc. 53 / 71 — Wt. 10.9 / 10.8 — W L 9.6 — pH 9.5 / 9.5 — ADDITIVES — POUNDS: Gel 1000# Driscose 25#
CORING	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl.	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl.	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG SER & CHK BOPs	12.00	12.15	¼
RUN IN	12.15	1.00	¾
REAM IN FROM 4823	1.00	8.00	7

Driller W. T. Brook

	From	To	Hrs.
RUN IN 4 STANDS + CLEANOUT 60 FT TO BOTTOM	8.00	8.45	¾
RIG SER	8.45	9.00	¼
DRLG FULL HOLE	9.00	4.00	7

Driller [illegible]

	From	To	Hrs.
4.00 - 4.15 RIG SERVICE	4.00	4.15	¼
DRILL 9" HOLE	4.15	6.30	2¼
HOIST BIT #21	6.30	10.00	3½
RUN IN DRILL COLLARS.	10.00	10.45	¾
SLIPPING DRILLING LINE.	10.45	12.00	1¼

Driller E. L. Dicks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING: MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.: MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ..... NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher [illegible] Approved by .....

Form 34402 (250 bks.-3-59) RAVEN

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 29

F LSD. 73 SEC. ..... TWN. ..... RGE. ..... W. ..... Contractor Ltd. Bawden Type Rig NAT-10-A Month Jan. Day 23 1962

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From 6017 To 6117 Hole Made — Hole Size 9 Formation —	From 6117 To 6220 Hole Made 103 Hole Size 9 Formation	From 6220 To 6247 Hole Made 27 Hole Size 9 Formation SHALE.
DRILLING STRING	Size-D.P. 4½ Stands 60 Singles 2 Kelly 39.70 Drill. Collar Ft. 633.21 Core Bbl. Ft.	Size-D.P. 4½ Stands 62 Singles — Kelly 2.1184 Drill. Collar Ft. 633.21 Core Bbl. Ft.	Size-D.P. 4½ Stands 62 Singles 1 Kelly 2184 Drill. Collar Ft. 633.21 Core Bbl. Ft.
	DRILL COLLAR: Number 22 OD 6½ ID — Length 633.21 INDICATOR WEIGHT OF TOTAL: DRILLING STRING — DRILL COLLARS —	DRILL COLLAR: Number 22 OD 6½ ID 2 13/16 Length 29FT INDICATOR WEIGHT OF TOTAL: DRILLING STRING 120 M DRILL COLLARS 45M	DRILL COLLAR: Number 22 OD 6½ ID 2 13/16 Length 633.21 INDICATOR WEIGHT OF TOTAL: DRILLING STRING 122 M. DRILL COLLARS 50 M.
	DATA	DATA	DATA
BIT RECORD	No. 20 Type M4N. Time On Bottom At — Time Pulled At — Total Hours Run — Depth Pulled — Weight On Bit M Pounds — FOOTAGE Drilled — Reamed 1416 03	No. 20 Type M1N Time On Bottom At — Time Pulled At — Total Hours Run 7½ Depth Pulled — Weight On Bit M Pounds 45M FOOTAGE Drilled 103 Reamed —	No. 20 Type M4N Time On Bottom At 4:00 Time Pulled At 8:00 Total Hours Run 11 Depth Pulled 6247 Weight On Bit M Pounds 45M FOOTAGE Drilled 130 Reamed —
	Bit Serial No. 497509 Table R.P.M. 110 Jet or Conventional - CON Nozzle Size 6/16	Bit Serial No. 497509 Table R.P.M. 100 Jet or Conventional - CON Nozzle Size 6/16	Bit Serial No. 497509 Table R.P.M. 104 Jet or Conventional - CONVENTIONAL Nozzle Size 3 11/16
SURVEYS	Kind — at — Ft. — Deg. off	Kind — at — Ft. — Deg. off	Kind EASTMAN at 6247 Ft. 2½ Deg. off
SLUSH PUMP RECORD No. 1 No. 2	HOURS: On Line — Circulating — Pump Press — Length of Pump Stroke — Strokes Per Min. — Liner Size —	HOURS: On Line — Circulating — Pump Press 1650 Length of Pump Stroke 18 Strokes Per Min. 53 Liner Size 6	HOURS: On Line #1 Circulating — Pump Press 1075 Length of Pump Stroke 18 Strokes Per Min. 55 Liner Size 6
MUD RECORD	Time — Visc. — Wt. — W L — pH — ADDITIVES — POUNDS	Time 900 Visc. 74 Wt. 10.5 W L 11.0 pH 9.5 ADDITIVES — POUNDS: MUSTIC - 300# 100 58 O-BROXIN - 700# 300 53 PLASTER - 1200# GEL - 700#	Time 4:30 Visc. 53 Wt. 10.5 W L 10. pH 9.5 ADDITIVES — POUNDS: GEL 2400# MUSTIC BROXIN PLASTER. 1250#
CORING	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl. —	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl. —	From — To — Ft. Cored — Ft. Rec'd. — Core No. — Type Bbl. —

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG SERVICE CHK BOPs	1200	12"	¼
RUN IN	12"	1H"	1¾
REAM & CLEAN 1457 TO BTM.	1H"	800	6¼

Driller W. Brooks

	From	To	Hrs.
DRLG 9" Hole	800	930	1½
RIG SER	930	1000	½
DRLG	1000	1100	6

Driller [illegible]

	From	To	Hrs.
RIG SERVICE, BOP CHECK	400	415	¼
DRILL 9" HOLE	415	545	3½
TAKE SURVEY	545	8	¼
TRIP FOR BIT # 20	8	600	4

Driller E. S. Hicks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: — DRILLING: — REAMING: — TOTCO: — FISHING: — CIRCULATING: — CONDITIONING MUD: — TRIPPING: — CORING: — CASING: — W.O.C. — D.S. TESTING: — LOGGING: — W.O. ORDERS: — RIG REPAIRS: — RIG MAINTENANCE: — MISCELLANEOUS: — CONDITION HOLE: — REAMING CLEANING: — WORKING PIPE: — LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W. Conlin Approved by .....

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 25

F LSD. 13 SEC. TWN. RGE. W. Contractor Kauen Type Rig 551 Trail Month Jan Day 22 19 60

	1st Tour From: 12:00 Midnight To: 8:00 a.m.	2nd Tour From: 8:00 a.m. To: 4:00 p.m.	3rd Tour From: 4:00 p.m. To: 12:00 p.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From: 5987 / To: 6068 / Hole Made: 81 / Hole Size: 9" / Formation:	From: 6068 / To: 6117 / Hole Made: 49 / Hole Size: 9 / Formation: Shale
DRILLING STRING	Size-D.P. / Stands / Singles / Kelly / Drill. Collar Ft. / Core Bbl. Ft.	Size-D.P.: 4½ / Stands: 60 / Singles: - / Kelly: 21.83 / Drill. Collar Ft.: 633.21 / Core Bbl. Ft.	Size-D.P.: 4½ / Stands: 60 / Singles: 2 / Kelly: 34.70 / Drill. Collar Ft.: 633.21 / Core Bbl. Ft.
	DRILL COLLAR DATA: Number / OD / ID / Length / INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA: Number: 22 / OD: 6½ / ID: 2 7/16 / Length: 633.21 / INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS	DRILL COLLAR DATA: Number: 22 / OD: 6½ / ID: 2 7/16 / Length: 633.21 / INDICATOR WEIGHT OF TOTAL DRILLING STRING / DRILL COLLARS
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Weight On Bit M Pounds / FOOTAGE Drilled / Reamed	No.: 19 / Type: ESCHG / Time On Bottom At: 6:30 / Time Pulled At: / Total Hours Run: / Depth Pulled: / Weight On Bit M Pounds: 35 / FOOTAGE Drilled: 81 / Reamed:	No.: 19 / Type: OSC3 / Time On Bottom At: / Time Pulled At: 8:00 / Total Hours Run: 9¼ / Depth Pulled: 6117 / Weight On Bit M Pounds: 35M / FOOTAGE Drilled: 130 / Reamed:
	Bit Serial No. / Table R.P.M. / Jet or Conventional - / Nozzle Size	Bit Serial No.: 23992 / Table R.P.M.: 100 / Jet or Conventional -: / Nozzle Size: 11/16	Bit Serial No.: 23992 / Table R.P.M.: 110 / Jet or Conventional -: Conv. / Nozzle Size: 3-14/16
SURVEYS	Kind / at / Ft. / Deg. off	Kind: / at: / Ft.: / Deg. off:	Kind: / at: / Ft.: / Deg. off:
MUSH PUMP RECORD No. 1 No. 2	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press: 950 / Length of Pump Stroke: 18 / Strokes Per Min.: 53 / Liner Size: 6"	HOURS On Line / Circulating / Pump Press: 950 / Length of Pump Stroke: 18 / Strokes Per Min.: 53 / Liner Size: 6"
MUD RECORD	Time / Visc. / Wt. / W L / pH / ADDITIVES — POUNDS	Time: 11am / Visc.: 85 / Wt.: 10.2 / W L: 11.6 / pH: 8.5 / ADDITIVES: Caustic 300; Plaster 500; Q Broxin - 400	Time: 500 / Visc.: 62 / Wt.: 10.6 / W L: 12.3 / pH: 10.5 / ADDITIVES: Gel - 1500#; Carbonex - 200#; Cellex - 100#
	Time: 8am / Visc.: 57 / Wt.: 10.7 / W L: 11.4 / pH: "		
CORING	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Cored / Ft. Rec'd. / Core No. / Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs.	From / To / Hrs. Ser: 8am / 8:15 / ¼ Run in: 8:15 / 9:30 / 1¼ Clean out.: 9:30 / 10:30 / 1 Drill: 10:30 / 4pm / 5½	From / To / Hrs. Service: 4pm / 4:15 / ¼ Drill: 4:15 / 8pm / 3¾ Survey: 8pm / 8:15 / ¼ Hoist.: 8:15 / 11:15 / 3 REPAIRS: 11:15 / 12pm / ¾
	Driller:	Driller: L Hagerman	Driller: E Hicks

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: / DRILLING: / REAMING: / TOTCO: / FISHING: / CIRCULATING: / CONDITIONING MUD: / TRIPPING: / CORING: / CASING: / W.O.C. / D.S. TESTING: / LOGGING: / W O ORDERS: / RIG REPAIRS: / RIG MAINTENANCE: / MISCELLANEOUS: / CONDITION HOLE: / REAMING CLEANING: / WORKING PIPE: / LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher Kauen Approved by .....

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Imp. Sun. Bruce E-73 Contractor Brewster - D.L.C. Type Rig 8 Date JAN-22 Report No. 29-21

DEPTH

DRILL PIPE

BIT RECORD

SURVEYS

MUD PUMP RECORD
Pump No. 1
Pump No. 2

MUD RECORD

CORING

DETAIL OF OPERATIONS AND REMARKS

1st Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
5794	5812	18	9	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
57	1	34	633.21	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
17	M4N		930	15¼	5812	-	199	

Bit Serial No. 1193548 Table R.P.M. 100
Jet or Conventional - 16 Nozzle Size 16
Number of Drill Collars 22 Size of Drill Collars 6½
Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		950	10	55	6

Time	Visc.	Wt.	W.L.	Additives - In Pounds

From	To	Ft. Rec'd	Core No.	Type Bbl.

From	To	Hrs.	
800	9	1¼	DRL.
9	9 30	¼	SURVEY
930	1200	2½	HOIST BIT 17
1200	100	1	SLIP LINE x CUT
100	400	3	RUNNING IN HOLE READY STANDS TO BOTTOM

Driller [signature]

2nd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
5812	5915	103	9	SHALE

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
58	2	17 73	633.21	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
18	OSC-3	400		7¼		35,000	103	

Bit Serial No. 6861 Table R.P.M. 110
Jet or Conventional - CONVENTIONAL Nozzle Size 3-1/11
Number of Drill Collars 22 Size of Drill Collars 6½
Kind EASTMAN at 5812 Ft. 3½ Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		950	18	53	6

Time	Visc.	Wt.	W.L.	Additives - In Pounds
5-00	85	10.6	11.3	CAUSTIC 500#
900	93	10.6	11.4	CAUSTIC BORAX 200#
1000	80	10.6	12	QBROKE 400#
1200	85	10.6	12	CELLEX 50#
				PLASTER 400#

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
400	415	¼	RIG SERVICE BOP CHECK
415	445	½	REPAIR PRESSURE GAUGE IN DERRICK
445	1200	7¼	DRILL 9" HOLE.

Driller [signature]

3rd Tour From: 12:00 p.m. To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation
5915	5987	72	9	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
59	1	29.17	633.21	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
18	OSC-3	400	400	11	5987	35M.	175	-

Bit Serial No. 6861 Table R.P.M. 110
Jet or Conventional - CONV. Nozzle Size 16
Number of Drill Collars 22 Size of Drill Collars 6½
Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-3-30	-	1000	18	53	6

Time	Visc.	Wt.	W.L.	Additives - In Pounds

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
1200	1215	¼	R.C. SERF CHK BOPS
1215	400	3¾	DRLG.
400	430	½	SURVEY.

Driller

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES ✓ NO

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher [signature] Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Mt. Dil Dev. Netla Raven F-73 Contractor Peter Bawden Type Rig NAT. 50-A. Date Jan 20 10 Report No. 28 & 29

| | 1st Tour From: 8:00 a.m. To: 4:00 p.m. | | |

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Jean Beta Rave F-13 Contractor Peter Bawden Type Rig NAT-50-A Date Jan 17 to 19 Report No. #9.25

1st Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
5148	5354'	206.	9	

DRILL PIPE

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
52	1	20.48.	633.21	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
15	OSC							

Bit Serial No. 6862 Table R.P.M. 110
Jet or Conventional - CONV. Nozzle Size 11/16
Number of Drill Collars 22 Size of Drill Collars 6½
Kind at Ft. Beg. off

SURVEYS

MUD PUMP RECORD
Pump No. 1
Pump No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

MUD RECORD

Time	Visc.	Wt.	W.L.	Additives - In Pounds
430	45	10.6	11.8	PH 10.5 GEL 3400#
				CELLEX 100#
130	57	10.5	9.7	PH 10.5 PLASTER 500#
				G-BROXIN 200#

CORING

From	To	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

From	To	Hrs.
8:00	8:15	¼
8:15	4:00	7¾

R.C. SER & CHK BOPS
DRIG

Driller _____

2nd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
5354	5372	18'	9"	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
52	1	37.48	633.21	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
15	OSC3		5354	12 1/2	5365			
16	OSC3	1130		1/2				

Bit Serial No. 6875 Table R.P.M. 110
Jet or Conventional - CONV. Nozzle Size 11/16
Number of Drill Collars 22 Size of Drill Collars 6½
Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
C-350	C-	900	18"	53	6"

Time	Visc.	Wt.	W.L.	Additives - In Pounds
				GEL-500#
M/L	TRIP			Q-BROXIN 250#
M/D				

From	To	Hrs.
4:00		
	4:30	½
4:30	5:15	¾
5:15	7:15	2
7:15	9:30	2¼
9:30	11:30	2
11:30	12:00	½

Driller L. Majean

3rd Tour From: 12:00 p.m. To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation
5372	5578	206	9"	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
54	2	35.37	633.21	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
16	OSC3	1215		8¼		35000	213	

Bit Serial No. 6875 Table R.P.M. 110
Jet or Conventional - CONVENTIONAL Nozzle Size 3-11/16
Number of Drill Collars 22 Size of Drill Collars 6½
Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	/	950	18	53	6"

Time	Visc.	Wt.	W.L.	Additives - In Pounds
100	59	10.6	9.	GEL 4000#
300	56	10.6	8.6	CAUSTIC 500#
500	50	10.6	10	CARBONOX 200#
700	52	10.6	11.	G BROXIN 300#

From	To	Hrs.
12:00	12:15	¼
12:15		7¾

R.C. SERVICE & HEAT BOP'S
DRILL 9" HOLE

Driller E. S. Parks

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES ✓ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher W. Cooke Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Sup Sun Petia Rayen F-73 Contractor Lister Bowden Type Rig NAT-50 Date Jan. 4-5 Report No. 26

	1st Tour From: 8:00 a.m. To: 4:00 p.m.					2nd Tour From: 4:00 p.m. To: 12:00 p.m.					3rd Tour From: 12:00 p.m. To: 8:00 a.m.				
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation
	4926	5010	84.	9	—	5010	~~5094~~	87	9		5097	5148	51	9.	SHALE
DRILL PIPE	Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.	Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.	Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
	48	1	38.10.	633.21		44	1	35.40	22 633.21		50	—	26.27	633.21	
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
	14	S3P	9.45		6.7	—	38,000		—	14	S3P		10.15	12.	4997	40000	171			15	OSC-3A	3.15		3 3/4		30,00	51	
	Bit Serial No. 1400641				Table R.P.M. 110	Bit Serial No. 1400641				Table R.P.M. 100	Bit Serial No. 6862				Table R.P.M. 110
	Jet or Conventional - CONV				Nozzle Size 11/16	Jet or Conventional - CONV				Nozzle Size 11/16	Jet or Conventional - CONV.				Nozzle Size 3-11/16
	Number of Drill Collars 22				Size of Drill Collars 6 1/2	Number of Drill Collars 22.				Size of Drill Collars 6 1/2	Number of Drill Collars 22				Size of Drill Collars 6 1/2
SURVEYS	Kind	at	Ft.		Beg. off	Kind	at	Ft.		Beg. off	Kind East	at 5097	Ft.	2 3/4	Beg. off
	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
PUSH PUMP RECORD Pump No. 1	C-3.0			18		6			950	18	53.	6.	#1		900	18	53	6"
Pump No. 2		2.4 P		14		6 1/2												
MUD RECORD	Time	Visc.	Wt.	W.L.	Additives - In Pounds	Time	Visc.	Wt.	W.L.	Additives - In Pounds	Time	Visc.	Wt.	W.L.	Additives - In Pounds
	1.00	48	10.3	12.2	GEL 1500 #	6.00	46	10.3	10.8		5.00	42	~~10.3~~	9.8	GEL 1800 #
	3.00	43	10.4	16.6	PLASTER 500 #	8.00	47	10.4	11.0		7.00	46	10.5	10.1	CAUSTIC 200 #
					QBROXIN 400 #										QBROXIN 400 #
					DRISCOSE 100 #										PLASTER 500 #
					CAUSTIC 200 #										CARBONOX 200 #
CORING DETAIL OF OPERATIONS AND REMARKS	From	To	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
REAM 3 STDS BRIDGED HOLE	8.00	9.00	1
CLEAN 40' FILL	9.00	9.30	1/2
RIG SER & CHK BOPS	9.30	9.45	1/4
DRLG	9.45	4.00	6 1/4

	From	To	Hrs.
RIG SER	11.00	4.15	1/4
DRL 9" Hole.	4.15	10.00	5 3/4
HOLE SURVEYS.	10.00	10.15	1/4
HOIST FOR BIT.	10.15	12.00	1 3/4

	From	To	Hrs.
HOIST BIT # 14	12.00	12.15	1/4
RIG SERV. CHECK BOP'S	12.15	12.30	1/4
RUN IN W/ BIT # 15	12.30	2.00	1 1/2
REAM BRIDGE FROM 4965 TO TD	2.00	4.15	2 1/4
DRILL 9" Hole	4.15	8.00	3 3/4

Driller W. Brooks | Driller L. Mageau | Driller E. L. Burke

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ____ NO ____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher W. Coles Approved by _____

Form 34402 (250 bks.-3-59)

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Kaun LSD. F SEC. 73 TWN. RGE. W. Contractor Bawden Type Rig #10 A. Ideal Month Jan Day 17 1963

1st Tour From: 12:00 Midnight To: 8:00 a.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
4712	4768	56	9"	

DRILLING STRING

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	45	2	36.98	22	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	22	6½	2⅞	633.21	DRILLING STRING	DRILL COLLARS
DATA						

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
12	Esco			9¼	4768	40	158	
13	YT.1			New.				

Bit Serial No. 177239 - 092063 Table R.P.M. 110

~~Jet~~ or Conventional - Nozzle Size 11/16

SURVEYS Kind East C at 4768 Ft. 1¼° Deg. off

SLUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
No. 1						
No. 2						

MUD RECORD

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
2⁰⁰	53	10.3	11	10	Caustic - 100 # Q Broxin - 400 # Plaster - 500 #

CORING

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Rig Service & Check	12⁰⁰	12¹⁵	¼
Drill	12¹⁵	4⁴⁵	4½
Survey	4⁴⁵	5⁰⁰	¼
Trip	5⁰⁰	8⁰⁰	3

Driller E. Hicko.

2nd Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
4768	4929	56		

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	46	1	37.95	22	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	22	6½	2⅞	633.21	DRILLING STRING	DRILL COLLARS
DATA						

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
13	YT.1			11¼		40	56	

Bit Serial No. 092063 Table R.P.M. 110

~~Jet~~ or Conventional - Nozzle Size 11/16

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		950	18	53	6"

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
					Gel - 1500 #
	46	10.	11.2	10	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Rig Service & Check	8⁰⁰	8¹⁵	¼
Run in	8¹⁵	9⁴⁵	1½
Reaming & Cleaning To Bottom	9⁴⁵	11⁴⁵	2
Drill	11⁴⁵	4⁰⁰	4¼

Driller W. Brooks

3rd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
4929	4924	95	9"	

Size-D.P.	Stands	Singles	Kelly	Drill. Collar Ft.	Core Bbl. Ft.
4½	47	1	41.24	22	

	Number	OD	ID	Length	INDICATOR WEIGHT OF TOTAL	
DRILL COLLAR	22	6½	2⅞		DRILLING STRING	DRILL COLLARS
DATA						

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Weight On Bit M Pounds	FOOTAGE Drilled	FOOTAGE Reamed
13	YT.1			12		40	151	

Bit Serial No. 092063 Table R.P.M.

~~Jet~~ or Conventional - Nozzle Size

Kind at Ft. Deg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		850	18	53	6

Time	Visc.	Wt.	W L	pH	ADDITIVES — POUNDS
	42	10.3	11.6	10.5	Gel - 1000 #
	44	10.4	11.8	10.5	
	44	10.3	11.8	10	
	48	10.3	11.7	10.	

From	To	Ft. Cored	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Rig Service	4⁰⁰	4¹⁵	¼
Drill	4¹⁵	12⁰⁰	7¾

Driller L. Mateaw

CLASSES OF TIME BREAKDOWN

HEADING UP & DRLG. OUT: TOTCO: CONDITIONING MUD: CASING: LOGGING: RIG MAINTENANCE: REAMING CLEANING:
DRILLING: FISHING: TRIPPING: W.O.C. W O ORDERS: MISCELLANEOUS: WORKING PIPE:
REAMING: CIRCULATING: CORING: D.S. TESTING: RIG REPAIRS: CONDITION HOLE: LOST CIRC.:

MNFR. DRILLING LINE IN USE ..... REEL SERIAL No. .....

MNFR. OF KELLY HOSE IN USE ..... HOSE SERIAL No. .....

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO .....

Total Contract Time .....hrs. Total Company Time .....hrs. Toolpusher W. Gordon Approved by .....

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Imp. Sun Beta Raven F-73 Contractor Peter Bawden Type Rig N-A150-A Date Jan 19 to 21 Report No. 223

	1st Tour From: 8:00 a.m. To: 4:00 p.m.					2nd Tour From: 4:00 p.m. To: 12:00 p.m.					3rd Tour From: 12:00 p.m. To: 8:00 a.m.				
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation
	4525	4610	85'	9"		4610	4712	102.	7 7/8"		4712	4768	56	9	
DRILL PIPE	Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.	Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.	Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
	44	—	28.10	633.21	—	45	-	40.50	633.21		45	2	36.98	633.21	
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
	11	DT		200	12 1/2	4610	40M			12	FS-10	715		4 3/4		40M	102		12	FS-10	9"4		9"4	4768	40M	158	
	Bit Serial No. 73418. Table R.P.M. 110					Bit Serial No. 177279 Table R.P.M. 110					Bit Serial No. 177239 Table R.P.M. 110				
	Jet or Conventional - CONV Nozzle Size 11/16					Jet or Conventional - CONV. Nozzle Size 11/16					Jet or Conventional - CONV Nozzle Size 3 - 11/12				
	Number of Drill Collars 22 Size of Drill Collars 6"					Number of Drill Collars 22 Size of Drill Collars 6 1/2					Number of Drill Collars 22 Size of Drill Collars 6 1/2				
SURVEYS	Kind at Ft. Beg. off					Kind at Ft. Beg. off					Kind Eastman at 4768 Ft. 1 1/4 Beg. off				
SWH PUMP RECORD Pump No. 1 Pump No. 2	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	C-350			18		6	C-350			18	52	6"	#1		850	18	53	6"
		2 in P		17		6 1/2												
MUD RECORD	Time	Visc.	Wt.	W.L.	Additives - In Pounds	Time	Visc.	Wt.	W.L.	Additives - In Pounds	Time	Visc.	Wt.	W.L.	Additives - In Pounds
		63	10.3		DRISCOSE 100#	2200	64	10.2	10.4		2300	53	10.3	11.	CAUSTIC 25#
	1030	58	10.3	8.9	CAUSTIC 100#	1800	53	10.2	10.6						PLASTER 50#
															QBROXIN 40#
CORING	From	To	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Rec'd.	Core No.	Type Bbl.	From	To	Ft. Rec'd.	Core No.	Type Bbl.
DETAIL OF OPERATIONS AND REMARKS		From	To	Hrs.			From	To	Hrs.			From	To	Hrs.
	RIG SERVICE CHK BOPS	800	815	1/4		FINISH OUT	400	445	3/4		R.S. Service check BOP	1200	1215	1/4
	(1) RIG TRIP OUT	815	200	5 3/4		RUN IN	1115	1400	1 1/4		Drill 9" Hole	1215	445	4 1/2
		200	400	2		REAM BRIDGE @ 3710	1400	1430	1/2		Take Survey @ 4768	445	500	1/4
						RUN IN	1430	1700	1/2		Hoist Bit #12	500	800	3
						CLEAN 30' TO BOTTOM	1700	1715	1/4					
						DRILL 9" HOLE	1715	1200	17 3/4					
	Driller (W) Brooks					Driller [illegible]					Driller E. L. Bush			

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher [illegible] Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Sun Rivers Raven F-73 Contractor Peter Bawden Type Rig NAT-50-9 Date Jan 15 & 16 Report No. 22

| | 1st Tour From: 8:00 a.m. To: 4:00 p.m. | | |

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Sup. Sun Rutla Raven Contractor Loffland Brothers Type Rig NAT. 50-A Date Jan. 15th 15 Report No. 21

DEPTH / DRILL PIPE / BIT RECORD / SURVEYS / FLUSH PUMP RECORD (Pump No. 1, Pump No. 2) / MUD RECORD / CORING DETAIL OF OPERATIONS AND REMARKS

1st Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
4164	4223	59	9	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
39	2	28.54	633.21	—

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
9	RWC	—	—	18½	—	50	141'	

Bit Serial No. 18234 Table R.P.M. 65
Jet or Conventional - Conv. Nozzle Size 16
Number of Drill Collars 22 Size of Drill Collars 6½
Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			18		6
			14		

Time	Visc.	Wt.	W.L.	Additives - In Pounds
				CAUSTIC 200 #
100	38	10.1		3 BROXIN 500 #
				PLASTER 500 #
				DRISCOSE 100 #
				CARBONOX 500 #
				GEL 3500 #

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
800	930	1½	D.C.
930	945	¼	R. SER. CHK BOPS
945	1400	4¼	D.D.G.

Driller W. L. Brooks

2nd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
4223	4236	13	7	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
39	1	Down	633.21	—

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
9	RWC		236	20	4236	50	1'7	
10	RSC16	4236		0				

Bit Serial No. 46456 Table R.P.M.
Jet or Conventional - Conv Nozzle Size 11/16
Number of Drill Collars 22 Size of Drill Collars 6 5/8
Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		750	13	54	6"

Time	Visc.	Wt.	W.L.	Additives - In Pounds
900	42	10.3	11.4	
100	28	10.1	10.6	
300	42	10.1		
		AKIN		

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
400	545	1¾	DRILL 9" HOLE
545	600	¼	DROP SURVEY
600	500	7	PULL OUT
800			REPAIR FUEL LINE
	830	½	TO BOILER
830	1030	7	RUN IN
1030	1100	½	DRILL OUT BRIDGE @ 3605'
1100	1200	1	CLEAN 40' TO BOTTOM

Driller Brown

3rd Tour From: 12:00 p.m. To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation
4236	4311	75	9	SHALE & S.L. STONE

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
40	2	27.20	683.21	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
10	RSC16	1 3¼		1 3¼		50,000	75'	

Bit Serial No. 46486 Table R.P.M. 65
Jet or Conventional - CONVENTIONAL Nozzle Size 3-11/16
Number of Drill Collars 22 Size of Drill Collars 6½
Kind Low Torque at 4236 Ft. 31 Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
#1		225	18	53	6"

Time	Visc.	Wt.	W.L.	Additives - In Pounds
100	35	10.1	11.6	GEL 2,000 #
300	42	10.1	11.4	DRISTAC 200 #
100	45	10.1	12	2 BROXIN 400 #
700	40	10.1	11.4	DR. GOOSE 50 #
				PLASTER 1000 #

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
1200	1215	1¼	K.G SERVICE CHECK BOP'S
1215	800	7¾	DRILL 9" HOLE

Driller E. J. Hicks

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES ✓ NO

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Imp. Oil LTD Contractor PETER BAWDEN DRLG. Type Rig Rotary Date JAN 16/62 14 Report No. 20

DEPTH

1st Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation
4078.				

2nd Tour From: 4:00 p.m. To: 12:00 p.m.				
From	To	Hole Made	Hole Size	Formation
4078	4100	22	9	

3rd Tour From: 12:00 p.m. To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation
4100	4164	64	9	KLAE & SHALE

DRILL PIPE

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
38	1	26.41.	633.21	—

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
39	—	28.81	633.41	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
8	OSC	9 3/4	9 3/4	9 3/4	4075	55	104	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
9	OWC			3		50M.		

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
9	OWC		10 3/4			55M		

Bit Serial No. 5567 Table R.P.M.
Jet or Conventional - CONV. Nozzle Size
Number of Drill Collars 21 Size of Drill Collars 6 1/2
Kind EASTMAN at 4078 Ft. 1/2 Beg. off

Bit Serial No. 18234 Table R.P.M. 65
Jet or Conventional - CONV. Nozzle Size 1/16
Number of Drill Collars 22 Size of Drill Collars 6 1/2
Kind at Ft. Beg. off

Bit Serial No. 18234 Table R.P.M. 64
Jet or Conventional - CONVENTIONAL Nozzle Size 3-11/16
Number of Drill Collars 22 Size of Drill Collars 6 1/2
Kind 4078 at 1/2 Ft. Beg. off

SURVEYS

FLUSH PUMP RECORD

Pump No. 1
Pump No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
4		800	18	90	6

MUD RECORD

Time	Visc.	Wt.	W.L.	Additives - In Pounds

Time	Visc.	Wt.	W.L.	Additives - In Pounds
				Q BROXIN 400#
				PLASTER 500#
				CAUSTIC 200#

Time	Visc.	Wt.	W.L.	Additives - In Pounds
100	45	10.3	10.5	GEL 3200#
300	39	10.3	11.2	CAUSTIC 100#
500	40	10.3	10.8	PLASTER 250#
800	45	10.3		DRISPOSE 50#

CORING

DETAIL OF OPERATIONS AND REMARKS

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
8:00 - 8:15 R.B SERVICE CHECK BOP'S	8:00	8:15	1/4
HOIST BIT #8	8:15	10:30	2 1/4
CHANGE FILLS	10:30		
CHECK DRIFTS, CHANGE			
HEADS & LINERS IN C-350		4:00	5 1/2

	From	To	Hrs.
RIG SERV. CHK BOPS	4:00	4:15	1/4
SLIP & CUT 24' DRLG LINE	4:15	4:45	1/2
PICK UP COLLARS & RUN IN	4:45	7:30	2 3/4
BRK CIRC & REAM BRIDGED			
HOLE @ 3628 & 3710	7:00	8:15	1 1/4
CLEAN 30' FILL	8:15	9:00	3/4
DRLG	9:00	12:00	3.

	From	To	Hrs.
R.G SERVICE CHECK BOP'S	12:00	12:15	1/4
DRILL 9" HOLE	12:15	8:00	7 3/4

Driller E. L. Hicks Driller (illegible) Driller E. L. Hicks

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher (illegible) Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Imp Sun Nelse Runsel #F-73 Contractor Peter Bowden Drlg. Type Rig Nat. 50 H Date Jan 13 62 13 Report No. 19

1st Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3957	3973	116	9	Shale & Limestone

DRILL PIPE

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
37	1	15.63	606.41	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
7	OSC-3	8 1/2	8 1/2	8 1/2	3973	30,000	154	

Bit Serial No. 6730 Table R.P.M. 155.
Jet or Conventional - Conventional Nozzle Size 3-11/16
Number of Drill Collars 21 Size of Drill Collars 6 1/2
Kind at Ft. Beg. off

SURVEYS

MUD PUMP RECORD
Pump No. 1
Pump No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1100	18	53	6 3/4

MUD RECORD

Time	Visc.	Wt.	W.L.	Additives - In Pounds
9:00	40	10.3	10.2	CEL 3200 #
1:00	48	10.3	13.4	Caustic 150 #
2:00	53	10.3	16.	G Broxin 400 #
3:00	40	10.3	15.	Plaster. 1000 #
4:00	42	10.3	12.6	Drispose. 100 #

CORING

From	To	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
Rig Service & Hook Bol's Fully Pooh.	8:00	8:15	1/4
Drill 9" Hole.	8:15	3:00	6 3/4
Take wireline out of sheaves	3:00		
Slice slipped on Rope.		3:30	1/2
Take Survey	3:30	3:45	1/4
Hoist Bit #1	3:45	4:00	1/4

Driller C. S. Hyde

2nd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
3973	3998	25'	9"	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
37	1	41.	606.41	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
8	OSC							

Bit Serial No. 5867 Table R.P.M.
Jet or Conventional - Conv Nozzle Size 11/16
Number of Drill Collars 21 Size of Drill Collars 6 1/2
Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			18		6 3/4
			14		6 1/2

Time	Visc.	Wt.	W.L.	Additives - In Pounds

From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Trip out	4:00	5:30	1 1/2
Rig Ser & Chk BOPs	5:30	5:45	1/4
Repair oiler chain & change oil in Comrd	5:45	7:00	1 1/4
Run in	7:00	8:15	1 1/4
Clean 50' T-fill	8:15	9:00	3/4
Drlg.	9:00	12:00	3.

Driller W. Brooks

3rd Tour From: 12:00 p.m. To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation
3998	4077	79	9"	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
33	1	10	606.41	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
8	OSC		7:30	9 3/4	4077	55,000	79	

Bit Serial No. 5867 Table R.P.M. 86
Jet or Conventional - Conv. Nozzle Size 11/16
Number of Drill Collars 21 Size of Drill Collars 6 5/8
Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		1100	18	54	6 3/4

Time	Visc.	Wt.	W.L.	Additives - In Pounds
1:00	41	10.3	14.6	Drispose - 200 #
5:00	42	10.3	10.4	

From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Drill 9" Hole	12:00	2:00	2
Replace Pop Valve in C-30	2:00	2:30	1/2
Drill 9" Hole	2:30	7:15	4 3/4
Survey	7:15	7:30	1/4
Hoist	7:30	8:00	1/2

Driller

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES ✓ NO

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher W. Brooks Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well TRIP SAND NELLA BAUER #F-73 Contractor PETER BAWDEN DRLG. Type Rig NMC 50 A Date JAN 11/62 Report No. ~~17~~ 18

	1st Tour From: 8:00 a.m. To: 4:00 p.m.					2nd Tour From: 4:00 p.m. To: 12:00 p.m.					3rd Tour From: 12:00 p.m. To: 8:00 a.m.				
DEPTH	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation	From	To	Hole Made	Hole Size	Formation
	3547	3673	126	9	SHALE	3673	3773	100	9"	—	3773	3857	85	9"	
DRILL PIPE	Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.	Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.	Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
	54		14.65	606.41		35	—		606.41	—	36	—	13 FT	606.41	
BIT RECORD	No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed		No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
	6	YTL	7 1/4		7 1/4		30,000	127			6	YTL	7 1/4		14 3/4	—	20/30	237	
	Bit Serial No.	21481 6		Table R.P.M. 160		Bit Serial No.	6 - 21481 6		Table R.P.M. 160		Bit Serial No.	6730		Table R.P.M. 160	
	Jet or Conventional -	CONVENTIONAL		Nozzle Size 3 - 11/16		Jet or Conventional -	CONV.		Nozzle Size 1/16		Jet or Conventional -	CONV.		Nozzle Size 3 - 11/16	
	Number of Drill Collars	21		Size of Drill Collars 6 1/2		Number of Drill Collars	21		Size of Drill Collars 6 1/2		Number of Drill Collars	21		Size of Drill Collars 6 5/8	
	Kind EASTMAN at 3607		Ft. 3 3/4°	Beg. off		Kind EASTMAN at 3730		Ft.	Beg. off		Kind EASTMAN at 3819		Ft. 3°	Beg. off	
SURVEYS															
MUSH PUMP RECORD Pump No. 1 Pump No. 2	HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size	HOURS On Line	Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
	24 64		1100	18	54	6 3/4	17 1/2	8 M.T.	1100	18	54	6 3/4				18	52	6 3/4"
										14								
MUD RECORD	Time	Visc.	Wt.	W.L.	Additives - In Pounds		Time	Visc.	Wt.	W.L.	Additives - In Pounds		Time	Visc.	Wt.	W.L.	Additives - In Pounds	
	9 00	38	10.5	12.4	PLASTER	500 #	5 00	45	10.7		GEL - 2000 #		12 30	38	10.3	11.8		
	12 00	41	10.5	10.4	G BROXIN	300 #	7 00	42	10.4		G-BROXIN - 100 #		7 00	38	10.4	12.2		
	2 00	42	10.5	10.	CAUSTIC	200 #					DRISCOSE - 50 #							
	4 00	44	10.5	10.	GEL	2000 #												
CORING	From	To	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Rec'd.	Core No.	Type Bbl.		From	To	Ft. Rec'd.	Core No.	Type Bbl.	
DETAIL OF OPERATIONS AND REMARKS			From	To	Hrs.				From	To	Hrs.				From	To	Hrs.
	8 00 - 8 15 RIG SERVICE CHECK BOPS.		8 00	8 15	1/4		RIG SER, WKONC-3506' CHK BOPS		4 00	4 15	1/4		DRILL 9" HOLE		12 00	2 45	2 3/4
	DRILL 9" HOLE		8 15	10 15	2		DRLG		4 15	9 00	4 3/4		DROP SURVEY, RIG SER		2 45	3 00	1/4
	TAKE SURVEY		10 15	10 45	1/2		SURVEY 3730		9 00	9 15	1/4		HOIST FOR BIT		3 00	4 15	1 1/4
	DRILL 9" HOLE.		10 45	3 00	4 1/4		DRLG		9 15	12 00	2 3/4		RUN IN		4 15	5 15	1
	TAKE SURVEY		3 00	3 45	3/4								REAM 60' TO BOTTOM		5 15	6 15	1
	DRILL 9" HOLE.		3 45	4 00	1/4								DRILL 9" HOLE		6 15		
	Driller E L Hicks						Driller						Driller					

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES _____ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

Form 34402 (500 bks.-57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Judy Creek No. 14 Raven #F-93 Contractor Peter Kiewit Drlg. Type Rig National 50-A Date Jan. 10/62 Report No. 17

1st Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
3232	3397	165	9	Sandstone

DRILL PIPE

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
30	2	40.36	606.41	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
5	S4	5½		9½		30,000	192	

Bit Serial No. 158 315 Table R.P.M. 160
Jet or Conventional - Conventional Nozzle Size 3 - 11/16
Number of Drill Collars 21 Size of Drill Collars 6½
Kind Eastman at 3248 Ft. 1½ 1¼ 1½° Beg. off

SURVEYS

FLUSH PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
23 38 / 3397		1000	18	54	6 3/4

Pump No. 1
Pump No. 2

MUD RECORD

Time	Visc.	Wt.	W.L.	Additives - In Pounds
6⁰⁰	40	10.2	16	Bentonite 500 #
12⁰⁰	36	10.2	14.2	Plastex 1000 #
3⁰⁰	36	10.2	16	Caustic 200 #
7⁰⁰	36	10.2	16	Dr. Sease 50 #
				Gel 1600 #

CORING DETAIL OF OPERATIONS AND REMARKS

From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
R.C. Service & Hect Bop's	8⁰⁰	8¹⁵	¼
Drill 9" Hole	8¹⁵	8³⁰	¼
Take Survey	8³⁰	9⁰⁰	½
Drill 9" Hole	9⁰⁰	12¹⁵	3¼
Take Survey	12¹⁵	12⁴⁵	½
Drill 9" Hole	12⁴⁵	3¹⁵	2½
Take Survey	3¹⁵	3⁴⁵	½
Drill 9" Hole	3⁴⁵	4⁰⁰	¼

Driller [signature]

2nd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
3397	3527	3527	9	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
32	1	20.99	606.41	—

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
5	S4	7:3						

Bit Serial No. 158 315 Table R.P.M. 86
Jet or Conventional - Conv Nozzle Size 1-6
Number of Drill Collars 21 Size of Drill Collars 6 3
Kind at 3517 Ft. 1 1/2 10 Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			18	48	6 3/4 / 6 3

Time	Visc.	Wt.	W.L.	Additives - In Pounds
6	78	10.4	16	Gel 1200 #
11	43	10.4	13.2	Driscose 100 #

From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Rig Ser, Chk Bops, Install			
2 c Chain & Wk on Air Compressor	4⁰⁰	4¹⁵	¼
Drlg	4¹⁵	11⁰⁰	6¾
Sidney 3517 - 1½°	11⁰⁰	11¹⁵	¼
Drlg	11¹⁵	12⁰⁰	¾

Driller [signature]

3rd Tour From: 12:00 p.m. To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation
3527	3547	20	7	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
32	1	11.32	21 606.41	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
6	YTL			½		11000	20	

Bit Serial No. 211846 Table R.P.M. 85
Jet or Conventional - Conv Nozzle Size 11/32
Number of Drill Collars 21 Size of Drill Collars 6 5/8
Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		950	18	50	6 3/4

Time	Visc.	Wt.	W.L.	Additives - In Pounds
7⁰⁰	40	10.4	14.4	

From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Drlg	12⁰⁰	12²⁵	¾
Rig Ser Check Bops	12²⁵	1⁰⁰	¼
Pull Out Wk Tight Hole 3175'	1⁰⁰	4¹⁵	3¼
Run In	4¹⁵	6³⁰	2¼
Clean 120' To Bottom	6³⁰	7³⁰	1
Drlg	7³⁰	8⁰⁰	½

Driller [signature]

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES ✓ NO

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher [signature] Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well IMP. BULL NESS RAVEN F-72 # Contractor PETER BAWDEN DR. LG. Type Rig 50 A Date JAN 9/62 Report No. 16

	1st Tour From: 8:00 a.m. To: 4:00 p.m.	2nd Tour From: 4:00 p.m. To: 12:00 p.m.	3rd Tour From: 12:00 p.m. To: 8:00 a.m.
DEPTH	From 2594 To 3084 Hole Made 190 Hole Size 9 Formation CRETACEOUS SHALE	From 3084 To 3205 Hole Made 121 Hole Size 9 Formation —	From 3205 To 3232 Hole Made 37 Hole Size 7 Formation
DRILL PIPE	Stds. 29 Singles 1 Kelly 20.91 Drill Collar Ft. 432.71 Core Bbl. Ft.	Stds. 30 Singles 2 Kelly 22.33 Drill Collar Ft. 432.71 Core Bbl. Ft. —	Stds. 29 Singles — Kelly 24 Drill Collar Ft. 415.41 Core Bbl. Ft.
BIT RECORD	No. 4 Type OSC 1G Time On Bottom At 9 1/4 Time Pulled At — Total Hours Run 9 1/4 Depth Pulled — Wt. Lbs. 20,000 FOOTAGE Drilled 234 Reamed —	No. 4 Type OSC 1G Time On Bottom At — Time Pulled At — Total Hours Run — Depth Pulled — Wt. Lbs. — FOOTAGE Drilled — Reamed —	No. 5 Type 5J Time On Bottom At — Time Pulled At — Total Hours Run — Depth Pulled — Wt. Lbs. — FOOTAGE Drilled — Reamed —
	Bit Serial No. 99977 Table R.P.M. 160	Bit Serial No. 590777 Table R.P.M. 160	Bit Serial No. 178315 Table R.P.M. 160
	Jet or Conventional - CONVENTIONAL Nozzle Size 3 11/16	Jet or Conventional - CONV Nozzle Size 11/16	Jet or Conventional - CONV Nozzle Size 11/16
	Number of Drill Collars 15 Size of Drill Collars 6 1/2	Number of Drill Collars 15 Size of Drill Collars 6 1/2	Number of Drill Collars 21 Size of Drill Collars 6 1/2
	Kind EASTMAN at 3044 Ft. 1/4 Beg. off	Kind EASTMAN at 3205 Ft. Beg. off	Kind at Ft. Beg. off
SURVEYS	HOURS On Line / Circulating — Pump Press 925 — Length of Pump Stroke 18 — Strokes Per Min. 54 — Liner Size 6 3/4	HOURS On Line / Circulating — Pump Press — Length of Pump Stroke 18 / 14 — Strokes Per Min. — Liner Size 6 3/4 / 6 1/2	HOURS On Line / Circulating — Pump Press 950 — Length of Pump Stroke 18 — Strokes Per Min. 54 — Liner Size 6 3/4
MUD RECORD	Time / Visc. / Wt. / W.L. / Additives - In Pounds 8:30 / 45 / 10.4 / 17 / GEL 600# 10:00 / 40 / 10.2 / 18 / CAUSTIC 200# 2:00 / 38 / 10 / 18 / Q BROXIN 300# 4:00 / 38 / 10 / 20 / PLANTER 800#	Time / Visc. / Wt. / W.L. / Additives - In Pounds 5:00	Time / Visc. / Wt. / W.L. / Additives - In Pounds DRISCOSE - 50# Q - BROXIN - 200# TRIP / MIX MUD
	From / To / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Rec'd. / Core No. / Type Bbl.
CORING			
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs. RIG SERVICE & HEAT BOP'S & KELLY COCK. 8:00 / 8:15 / 1/4 DRILL 9" HOLE. 8:15 / 2:15 / 6 SURVEY @ 3044 2:15 / 2:45 / 1/2 DRILL 9" HOLE. 2:45 / 4:00 / 1 1/4	From / To / Hrs. RIG SERVICE CHK BOPS 4:00 / 4:15 / 1/4 DRLG 4:15 / 9:15 / 5 SURVEY 9:15 / 9:30 / 1/2 PULL OUT 9:30 / 10:15 / 3/4 P/U STUCK 16 STDS (1 std off bottom, rack pipe) 10:15 / 12:00 / 1 3/4	From / To / Hrs. WORK STUCK PIPE (P/U 170M) 12:00 / 1:30 / 1 1/2 FINISH OUT 1:30 / 3:00 / 1 1/2 REPAIR 2 ND CHAIN ON HAWKS 3:00 / 3:45 / 3/4 PICK UP 6 DR. COLLARS 3:45 / 5:00 / 1 1/4 (1 MANUFACTURING FLAW) RUNNING IN HOLE. 5:00 / 7:00 / 2 DRILL 7:00 / — / —
	Driller C. L. Hicks	Driller C. E. Brooks	Driller —

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK SLOWOUT PREVENTER EQUIPMENT TODAY YES ✓ NO ---

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher W. Cowan Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Imp. Sun. Neth. Raven F-73 Contractor Peter Bawden Drlg. Type Rig No. 50 A Date Jan. 8/62 Report No. 11

DEPTH

DRILL PIPE

BIT RECORD

SURVEYS

SLUSH PUMP RECORD

Pump No. 1

Pump No. 2

MUD RECORD

OPERATIONS AND REMARKS

1st Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation
2490	2590	100	9"	Sand & Shale.

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
23	2	35.72	432.71	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
2	Hm	~~3/4~~	~~3/4~~	14 3/4	2514	~~30,000~~	731	50'
3	OSC-1G	3 1/4		3 1/4		30,000	76	

Bit Serial No. (2) N14389 (3) 47344 Table R.P.M. 170

Jet or Conventional - Conventional Nozzle Size 3 - 11/16

Number of Drill Collars 15 Size of Drill Collars 6 1/2

Kind Eastman at 2514 Ft. 1/2° Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		350	18	53	6 3/4

Time	Visc.	Wt.	W.L.	Additives - In Pounds
330	36	9.6		
100	40	9.6		
300	41	9.7		Water.
400	41.	9.8		

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
800	845		Drill in 6.
845	900		Time Survey
900	1015		Hoist Bit # 2
1015	1030		R.G. Service & Hook BOPs
1030	1145		Run in w/ Bit # 3
1145	1200		Clean out 30' Fill
1200	130		Drill 9" Hole.
130	215		Thaw Single out of Mousehole
215	400		Drill 9" Hole

Driller E. L. Hughes.

2nd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
2590	168.	2776	9"	Wabuman.

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
26	—	14.8'.	432.71	—

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
3	OSC1G			10 3/4		30000		—

Bit Serial No. 47944 Table R.P.M. 170

Jet or Conventional - Con Nozzle Size

Number of Drill Collars 15 Size of Drill Collars 6 1/2"

Kind Eastman at 2715' Ft. 1/2° Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W.L.	Additives - In Pounds
4	37	10.1	10.2	Gel 1200 #
7	36	10.1		Q Broxin 150 #
11	38	10.1	10.4	Plaster 400 #
				Caustic 100 #
				Water

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
400	415	1/4	Rig Ser & Chk BOPs
415	1000	5 3/4	Drlg
1000	1015	1/4	Survey 2715' - 1/2°
1015	1200		Drlg.

Driller D. Bawden

3rd Tour From: 12:00 p.m. To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation
2773	2894	116.	9	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
23.	—	41.32.	432.71	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
3	OSC1G		3 PM	13 3/4	4850	30000	72.	
4	OSC1G			2.		30000	~~644~~	

Bit Serial No. 59977 Table R.P.M. 165

Jet or Conventional Conv. Nozzle Size 3 1/16.

Number of Drill Collars 15 Size of Drill Collars 6 1/2

Kind Eastman at 2850 Ft. 4 Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		950	16	56	6 3/4

Time	Visc.	Wt.	W.L.	Additives - In Pounds
100	37	10.0	11.5	

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
1200	300.	3	Drill.
300	330	1/2	Rig Ser. Run Survey
330	515	1 3/4	Hoist
515	600	1/4	Run in To Drill
600	800	2	Drill.

Driller

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES_____ NO_____

Total Contract Time_____hrs. Total Company Time_____hrs. Toolpusher W. Kozlow Approved by_____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Name & No. Norman Wells Raven F-73 Contractor Peter Bawden Drilling Type Rig NAT. 50-A Date Jan. 7 Report No. 11

1st Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
1783				

DRILL PIPE

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
14	2	26.87	432.71	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
	D.T.C.		#1					

Bit Serial No. _____ Table R.P.M. _____

Jet or Conventional - _____ Nozzle Size _____

Number of Drill Collars _____ Size of Drill Collars _____

Kind _____ at _____ Ft. _____ Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

SURVEYS

MUD PUMP RECORD
Pump No. 1
Pump No. 2

MUD RECORD

Time	Visc.	Wt.	Additives - In Pounds
		W.L.	Keller 24/1/62
			DST #1 1738-1783 V.O. 60 MIN.
			W.A.B. Rec. 360' mud
			HP 825 FP 120-150 SIP 60/60 = 795/790
1300-300			Hoist Packer.
300-400			Break & Lay Down Packer.

CORING DETAIL OF OPERATIONS AND REMARKS

From	To	Ft. Rec'd.	Core No.	Type Bbl.
	BHT. 100°F.			

	From	To	Hrs.
Make up Packer.	600	815	1¼
R.R. Service & Check BOP's Kelly cock.	815	8	
		830	¼
Running in Packer.	530	915	¾
Head up Packer.	915	1015	1
Took 60 FEN	1015	1030	¼
Tool Shut = Initial S.I. 1 OPEN	1030	1130	1
	1130	1230	1
	1230	130	1

Driller J. Hicks

2nd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
1783	2085'	302	9"	SAND.

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
18	—		432.71	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
2	YH			6½	—	28	302	5'0

Bit Serial No. N-4389 Table R.P.M. 160

Jet or Conventional - Conv. Nozzle Size 11/16

Number of Drill Collars 15' Size of Drill Collars 6¼

Kind _____ at _____ Ft. _____ Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1		725	18	58	6¾
			14		6½

Time	Visc.	Wt.	W.L.	Additives - In Pounds
			8.8	CEL 3000#
	35	9.3		Q-BROXIN 150#
				PLASTER 400#
	PH	10.		

From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
Rig Service & Chk D.C.'s.	400	415	¼
Trip in.	415	500	¾
Blow Kelly & Clean Jo.	500	530	½
Drlg.	530	600	¾
Weld Kelly.	600	815	2
Drlg.	815	1200	3¾

Driller W. Brooks

3rd Tour From: 12:00 p.m. To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation
2085	2190	105'	9	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
17 2	2		15 - 432.71	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
2	YH					30		

Bit Serial No. N 4389 Table R.P.M. 170

Jet or Conventional - Conv. Nozzle Size 11/16

Number of Drill Collars 12 Size of Drill Collars 6½

Kind _____ at _____ Ft. _____ Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		800	18	56	6¾
			14		6½

Time	Visc.	Wt.	W.L.	Additives - In Pounds
~~600~~	~~30~~	~~9.1~~	~~8.2~~	GEL 2000#
500	34	9.5	9.6	Q-BROXIN 100#
700	36	9.6		PLASTER 300#

From	To	Ft. Rec'd.	Core No.	Type Bbl.
2235				

	From	To	Hrs.
Rig Serv	1200	1215	¼
Drill	1215	415	4¼
Survey at 2300	415	430	¼
Drill	430		3½

Driller J. Watson

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES _____ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 13

Well Lone Jap Pelly Raven Contractor Eastern Rambler Type Rig Jet 50 H Date June 6 62 Report No. 15

DEPTH / DRILL PIPE

1st Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation
1748	1779	30	6 1/2	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
14	126 106	26 Down	432.71	

2nd Tour From: 4:00 p.m. To: 12:00 p.m.				
From	To	Hole Made	Hole Size	Formation
1777	1783	5	6 1/8	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
14	—	24.45	432.71	6288

3rd Tour From: 12:00 p.m. To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
14	2	24	432.91	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
1	◇			10 1/2		10	CORE	

Bit Serial No. 2915 Table R.P.M. 96.
Jet or Conventional - Nozzle Size
Number of Drill Collars 15 Size of Drill Collars 6 1/2
Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		550	18	23.	6 3/4

Time	Visc.	Wt.	W.L.	Additives - In Pounds
10	36	9.5	7.0	GEL 1000 #
3	37	9.6		CAUSTIC 100 #
				Q-BROXIN 150 #
				PLASTER 400 #
				SMALL STREAM WATER

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
1	◇		12 1/4	12 1/4	1783	10	50	

Bit Serial No. 2815 Table R.P.M. 96
Jet or Conventional - ◇ Nozzle Size
Number of Drill Collars 15 Size of Drill Collars 6 1/2
Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
1 3/4		500	18	22	6 3/4

Time	Visc.	Wt.	W.L.	Additives - In Pounds
5:30	38	9.6	2.5	GEL 1000 #

Core #1 1733-83 (Rec. 50') oil stained ss.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
2	Reed			2			—	50.

Bit Serial No. Table R.P.M.
Jet or Conventional 4389 Nozzle Size
Number of Drill Collars 6 Size of Drill Collars
Kind at 15 Ft. 6 1/2 Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W.L.	Additives - In Pounds
5:00	36	9.4	9.5	GEL. 1000 #
				CAUSTIC 100 #
				Q-BROXIN 150 #
				PLASTER 400 #
				SMALL STREAM WATER

SURVEYS

SLUSH PUMP RECORD

Pump No. 1
Pump No. 2

MUD RECORD

CORING DETAIL OF PER-FORATIONS

From	To	Ft. Rec'd.	Core No.	Type Bbl.
1749	1779		1	

From	To	Ft. Rec'd.	Core No.	Type Bbl.
1779	1783	50	1	DIAMOND.

From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
CORE	8:00	11:30	3 1/2.
RIG SERV CHECK BOPS.	11:30	11:45	1/4
CORE	11:45	1:00	1 1/4

	From	To	Hrs.
R.C. SERVICE.	4:00	4:15	1/4
OUT CORE #1	4:15	6:00	1 3/4
HOIST CORE #1	6:00	7:30	1 1/2
RECOVER CORE & SERVICE CORE BBL.	4:30		
STAND BACK CORE BBL.		11:15	3 3/4
RUN IN W/ BIT #2	11:15	11:30	1/4
	11:30	12:00	1/2

	From	To	Hrs.
RUNNING IN TO REAM	12:00	1:00	1
MIX MUD TO CIR	1:00	2:00	1
REAMING	2:00	4:00	2
CIR	4:00	5:00	1
HOIST	5:00	6:00	1
PICK UP PACKER	6:00	8:00	2

Driller E. L. Hicks

Driller

CLASSES OF TIME BREAKDOWN
TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
CORING: D.S. TESTING: RIG MAINTENANCE:
CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES NO

Contract Time hrs. Total Company Time hrs. Toolpusher W. Conlon Approved by

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Lynx Lake Area Contractor Pete Lauder Type Rig Nat 50-A Date Jan 5 Report No. Rpt 2

	1st Tour From: 8:00 a.m. To: 4:00 p.m.	2nd Tour From: 4:00 p.m. To: 12:00 p.m.	3rd Tour From: 12:00 p.m. To: 8:00 a.m.
DEPTH	From 1370 To 1646. Hole Made 276. Hole Size 9. Formation —	From 1646 To 1733 Hole Made 87 Hole Size 9" Formation Sand.	From 1733 To 1748 Hole Made 15 Hole Size 6¾ Formation SAND.
DRILL PIPE	Stds. 13 Singles 1170. Kelly 1132.35 Drill Collar Ft. 6¾ 432.71 Core Bbl. Ft.	Stds. 14 Singles — Kelly 37.33 Drill Collar Ft. Core Bbl. Ft.	Stds. 13 Singles 2 Kelly 20.71 Drill Collar Ft. 432.71. Core Bbl. Ft. 62.88
BIT RECORD	No. 1 Type OSC3 Time On Bottom At — Time Pulled At — Total Hours Run 12. Depth Pulled — Wt. Lbs. 30000 FOOTAGE Drilled 276. Reamed	No. 1 Type OSC-3 Time On Bottom At 13¼ Time Pulled At 1733 Total Hours Run 19¼ Depth Pulled 1733 Wt. Lbs. 25000 FOOTAGE Drilled 857 Reamed	No. 1A Type C7 Time On Bottom At 5:15 Time Pulled At — Total Hours Run 2¾ Depth Pulled — Wt. Lbs. 10000 FOOTAGE Drilled — Reamed —
	Bit Serial No. 99963. Table R.P.M. 180 Jet or Conventional - CONV Nozzle Size 11/16. Number of Drill Collars 15 Size of Drill Collars 6½. Kind at Ft. Beg. off	Bit Serial No. 99963 Table R.P.M. 168 Jet or Conventional - CONVENTIONAL Nozzle Size 3 11/16 Number of Drill Collars 15 Size of Drill Collars 6 1/2 Kind at Ft. Beg. off	Bit Serial No. Table R.P.M. Jet or Conventional - CORE Nozzle Size — Number of Drill Collars 15 Size of Drill Collars 6¾ Kind at Ft. Beg. off
SURVEYS			
FLUSH PUMP RECORD Pump No. 1 Pump No. 2	HOURS On Line / Circulating: Pump Press 600, Length of Pump Stroke 18, Strokes Per Min. 65, Liner Size 6¾	HOURS On Line / Circulating: Pump Press 725, Length of Pump Stroke 18, Strokes Per Min. 53, Liner Size 6¾	HOURS On Line / Circulating: Pump Press —, Length of Pump Stroke 18 / 14, Strokes Per Min. —, Liner Size —
MUD RECORD	Time — Visc. — Wt. — W.L. — Additives - In Pounds: 100# Silark of Soda; 400# Caustic; 10# Al. Stearate; 2250# Q. Broxin. Mix Mud	Time — Visc. MUD Wt. 43 W.L. 9.5 Additives - In Pounds: Q BROXIN 1000#; PLASTER 2250#	Time — Visc. — Wt. — W.L. — Additives - In Pounds —
CORING	From — To — Ft. Rec'd. — Core No. — Type Bbl. —	From — To — Ft. Rec'd. — Core No. — Type Bbl. —	From 1733 To 1748. Ft. Rec'd. — Core No. 1 Type Bbl. —

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
DRILL.	8:00	8:45	¾
R.C SER Check BOPS & K. Run SURVEY	8:45	9:00	¼
DRILL 9" HOLE.	9:00	12:45	3¾
TIGHTEN UP Kelly	12:45	1:45	1
DRILL.	1:45	2:45	1
TIGHTEN UP Kelly	2:45	4:00	1¼

Driller E. Wilson

	From	To	Hrs.
R.C. SERVICE.	4:00	4:15	¼
WELD ON TELLY, WORK ON STAND PIPE.	4:15	5:30	1¼
DRILL 9" HOLE.	5:30	5:45	¾
REPLACE UNION ON STAND PIPE & TELLY HOSE	5:45	8:45	3
DRILL 9" HOLE.	8:45	10:15	1½
PUMP SWEEP & CONDITION MUD.	10:15	11:45	1½
TAKE SURVEY	11:45	12:00	¼

Driller E. S. Hicks

	From	To	Hrs.
TRIP OUT MEAS OUT	12:00	12:30	½
RIG SER CHK BLD RAMS.	12:30	12:45	¼
PICK UP & SER CORE BBL.	12:45	3:15	2½
RUN IN	3:15	4:00	¾
CLEAN H. F. CIRC. TO CORE.	4:00	5:15	1¼
CUT CORE #1.	5:15	8:00	2¾

Driller W. S. Brooks

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES_____ NO_____

Total Contract Time_____hrs. Total Company Time_____hrs. Toolpusher_____ Approved by_____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well _____ Contractor _____ Type Rig _____ Date Jan 4 Report No. 11

1st Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation

DRILL PIPE

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. _____ Table R.P.M. _____

Jet or Conventional - _____ Nozzle Size _____

Number of Drill Collars _____ Size of Drill Collars _____

Kind _____ at _____ Ft. _____ Beg. off

SURVEYS

MUD PUMP RECORD

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Pump No. 1
Pump No. 2

MUD RECORD

Time	Visc.	Wt.	W.L.	Additives - In Pounds

CORING

From	To	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
WAIT ON WATER	900	1400	5

Driller A. R. Tapsum

2nd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
876			9"	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
4		29.32	432.71	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
1	OSC3							

Bit Serial No. 99963 Table R.P.M. _____

Jet or Conventional - CONVENTIONAL Nozzle Size _____

Number of Drill Collars 15 Size of Drill Collars 6½

Kind _____ at _____ Ft. _____ Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W.L.	Additives - In Pounds

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
400	900	5	WAIT ON WATER.
900	1100	2	PRESS UP & RETIGHTEN BOP's
1100	1115	¼	PRESS UP TO 1000 PSI HELD OK FOR 10 MIN.
1115	1200	¾	DRILL INS OUT CEMENT

Driller C. L. Hicks

3rd Tour From: 12:00 p.m. To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation
876	1370	494	9"	

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
10	—	34'	432.71	—

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
1	OSC3	—	—	6½	—	2500	494	

Bit Serial No. 99963 Table R.P.M. 180

Jet or Conventional - CONV. Nozzle Size 16

Number of Drill Collars 15 Size of Drill Collars 6½

Kind — at — Ft. _____ Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		600	18	60	6¾

Time	Visc.	Wt.	W.L.	Additives - In Pounds
				GEL 6000
				BICARB 500
700	33	8.9	—	

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
1200	1245	¾	DRILL OUT PLUG, FLOAT COLLAR & SHOE.
1245	100	¼	R.I.C. SER.
100	130	½	WORK ON CAMP & DRKS OILERS
130	800	6½	DRILL 9" HOLE.

Driller D. Crooks

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES _____ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Imp. Lus. Hills. Laven Contractor Peters Rawdon Type Rig Hd. 50-A Date Jan. 3 Report No. 10

	1st Tour From: 8:00 a.m. To: 4:00 p.m.	2nd Tour From: 4:00 p.m. To: 12:00 p.m.	3rd Tour From: 12:00 p.m. To: 8:00 a.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From 876 / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation
DRILL PIPE	Stds. / Singles / Kelly / Drill Collar Ft. / Core Bbl. Ft.	Stds. / Singles / Kelly / Drill Collar Ft. / Core Bbl. Ft.	Stds. / Singles / Kelly / Drill Collar Ft. / Core Bbl. Ft.
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Wt. Lbs. / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Wt. Lbs. / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Wt. Lbs. / FOOTAGE Drilled / Reamed
	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.
	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size
	Number of Drill Collars / Size of Drill Collars	Number of Drill Collars / Size of Drill Collars	Number of Drill Collars / Size of Drill Collars
SURVEYS	Kind / at / Ft. / Beg. off	Kind / at / Ft. / Beg. off	Kind / at / Ft. / Beg. off
SLUSH PUMP RECORD Pump No. 1 Pump No. 2	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size
MUD RECORD	Time / Visc. / Wt. / W.L. / Additives - In Pounds	Time / Visc. / Wt. / W.L. / Additives - In Pounds	Time / Visc. / Wt. / W.L. / Additives - In Pounds
CORING	From / To / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Rec'd. / Core No. / Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

From	To	Hrs.	Description
800	400	8	WAIT ON WATER

From	To	Hrs.	Description
400	1200	8	WAIT ON WATER

From	To	Hrs.	Description
1200	800	8:00	WAIT ON WATER WK ON WATER TRUCK

Driller L. Marcau

Driller E. L. Hicks

Driller W. Brooks

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES _____ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

Form 34402 (500 blks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well No. Sun Bella Rowe Contractor Peter Bawden Type Rig Flat 50-A Date Jan. 2 Report No. 11

DEPTH

DRILL PIPE

1st Tour From: 8:00 a.m. To: 4:00 p.m.				
From	To	Hole Made	Hole Size	Formation

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.

2nd Tour From: 4:00 p.m. To: 12:00 p.m.				
From	To	Hole Made	Hole Size	Formation

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.

3rd Tour From: 12:00 p.m. To: 8:00 a.m.				
From	To	Hole Made	Hole Size	Formation

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
4	—	27.75	432.71	—

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
1	OSC3	—	—	—				

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Number of Drill Collars Size of Drill Collars

Kind at Ft. Beg. off

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Number of Drill Collars Size of Drill Collars

Kind at Ft. Beg. off

Bit Serial No. 99963 Table R.P.M. —

Jet or Conventional - CONV. Nozzle Size —

Number of Drill Collars 15 Size of Drill Collars 6¾

Kind at Ft. Beg. off

SURVEYS

FLUSH PUMP RECORD

Pump No. 1
Pump No. 2

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		— 1800		—	6¾
		— 14			—

MUD RECORD

Time	Visc.	Wt.	W.L.	Additives - In Pounds

Time	Visc.	Wt.	W.L.	Additives - In Pounds

Time	Visc.	Wt.	W.L.	Additives - In Pounds

CORING

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
WAIT ON WATER	0900	1200	3

	From	To	Hrs.
WAIT ON WATER	900	2400	8

	From	To	Hrs.
Wait on water	1200.		

Driller [illegible] Driller E. J. Hicks Driller W. A. Brooks

CLASSES OF TIME BREAKDOWN

DRILLING: REAMING: TOTCO: FISHING: CIRCULATING CONDITIONING MUD: TRIPPING: CORING: CASING JOB: W.O.C. & NIPPLING UP: D.S. TESTING: LOGGING: RIG REPAIRS RIG MAINTENANCE: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORW DED WITH TOUR REPORT. DATA WHICH **FULLY** DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY

YES_____ NO_____

Total Contract Time_____hrs. Total Company Time_____hrs. Toolpusher [illegible] Approved by_____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Imp Sun Rayed E-73 Contractor Pete Bawden Drlg. Type Rig NAT 50-A Date Jan 11 Report No. 8

DEPTH

DRILL PIPE

BIT RECORD

SURVEYS

MUD RECORD

FLUSH PUMP RECORD
Pump No. 1
Pump No. 2

CORING DETAIL OF OPERATIONS AND REMARKS

1st Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Number of Drill Collars Size of Drill Collars

Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W.L.	Additives - In Pounds

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
	7	7	Work on Bail Unit & Wash

Driller E. Hallam

2nd Tour From: 4:00 p.m. To: 12:00 p.m.

From	T	Hole Made	Hole Size	Formation

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Number of Drill Collars Size of Drill Collars

Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W.L.	Additives - In Pounds

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
	6:00	12	WAITING ON WATER

Driller E. Hicks

3rd Tour From: 12:00 p.m. To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Conv. Nozzle Size

Number of Drill Collars Size of Drill Collars 6 1/2

Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
			18	—	6 3/4
			14		

Time	Visc.	Wt.	W.L.	Additives - In Pounds

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.	
12:00			Wait on Water

Driller W. Brooks

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK SLOWOUT PREVENTER EQUIPMENT TODAY
YES _____ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher M Kerbi Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well IMP. SUN. RAVEN Contractor BAUDEN DRLG. Type Rig 50A Date DEC-31-61 Report No. 7

DEPTH

DRILL PIPE

BIT RECORD

SURVEYS

FLUSH PUMP RECORD
Pump No. 1
Pump No. 2

MUD RECORD

CORING DETAIL OF OPERATIONS AND REMARKS

1st Tour From: 8:00 a.m. To: 4:00 p.m.

From	To	Hole Made	Hole Size	Formation

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Number of Drill Collars Size of Drill Collars

Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W.L.	Additives - In Pounds

From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
CHANGED B.O.P.S FOR IMPERIAL X W.O. WATER	8:00	4:00	8

Driller J. Rawson

2nd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Number of Drill Collars Size of Drill Collars

Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W.L.	Additives - In Pounds

From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
HEAD UP & ABANDONED MUD LINE W/O MUD TANK & W.O. WATER.	4:00	12:00	8

Driller E. J. Hicks

3rd Tour From: 12:00 p.m. To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed

Bit Serial No. Table R.P.M.

Jet or Conventional - Nozzle Size

Number of Drill Collars Size of Drill Collars

Kind at Ft. Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size

Time	Visc.	Wt.	W.L.	Additives - In Pounds

From	To	Ft. Rec'd.	Core No.	Type Bbl.

	From	To	Hrs.
NIPPLE UP TO IMPERIAL SPECS. WAIT ON WATER.	12:00	8:00	8:00

Driller W. Dodd

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH **FULLY** DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES _____ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher W. Condon Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Imp. Lucas Nitla Raven E-73 Contractor Peter Bawden Drlg Type Rig Nat. 50-A Date Dec 30 Report No. 6 A 6

	1st Tour From: 8:00 a.m. To: 4:00 p.m.	2nd Tour From: 4:00 p.m. To: 12:00 p.m.	3rd Tour From: 12:00 p.m. To: 8:00 a.m.
DEPTH	From 776 To — Hole Made — Hole Size — Formation —	From 776 To — Hole Made — Hole Size — Formation —	From 776 To — Hole Made — Hole Size — Formation —
DRILL PIPE	Stds. — Singles — Kelly — Drill Collar Ft. — Core Bbl. Ft.	Stds. — Singles — Kelly — Drill Collar Ft. — Core Bbl. Ft.	Stds. — Singles — Kelly — Drill Collar Ft. — Core Bbl. Ft.
BIT RECORD	No. — Type — Time On Bottom At — Time Pulled At — Total Hours Run — Depth Pulled — Wt. Lbs. — FOOTAGE Drilled — Reamed	No. — Type — Time On Bottom At — Time Pulled At — Total Hours Run — Depth Pulled — Wt. Lbs. — FOOTAGE Drilled — Reamed	No. — Type — Time On Bottom At — Time Pulled At — Total Hours Run — Depth Pulled — Wt. Lbs. — FOOTAGE Drilled — Reamed
	Bit Serial No. — Table R.P.M.	Bit Serial No. — Table R.P.M.	Bit Serial No. — Table R.P.M.
	Jet or Conventional - — Nozzle Size	Jet or Conventional - — Nozzle Size	Jet or Conventional - — Nozzle Size
	Number of Drill Collars — Size of Drill Collars	Number of Drill Collars — Size of Drill Collars	Number of Drill Collars — Size of Drill Collars
	Kind — at — Ft. — Beg. off	Kind — at — Ft. — Beg. off	Kind — at — Ft. — Beg. off
SURVEYS			
PUSH PUMP RECORD Pump No. 1 Pump No. 2	HOURS On Line / Circulating — Pump Press — Length of Pump Stroke — Strokes Per Min. — Liner Size	HOURS On Line / Circulating — Pump Press — Length of Pump Stroke — Strokes Per Min. — Liner Size	HOURS On Line / Circulating — Pump Press — Length of Pump Stroke — Strokes Per Min. — Liner Size
MUD RECORD	Time — Visc. — Wt. — W.L. — Additives - In Pounds	Time — Visc. — Wt. — W.L. — Additives - In Pounds	Time — Visc. — Wt. — W.L. — Additives - In Pounds
CORING	From — To — Ft. Rec'd. — Core No. — Type Bbl.	From — To — Ft. Rec'd. — Core No. — Type Bbl.	From — To — Ft. Rec'd. — Core No. — Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From — To — Hrs.	From — To — Hrs.	From — To — Hrs.
	Cut off Cond. Dig Cellar 2' Deeper, Cut off Csg Collar & Lay Down Landing Joint.	WOH On Weather.	Nipple up 12:00 8:00
	Wait On Weather.	Nipple up.	
	Driller W. F. Brooks	Driller L. Hagen	Driller W. F. Brooks

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES _____ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

Well Imperial Sun/Nitla Raven Contractor Peter Bawden Type Rig National 50-A Date Dec 29/30 Report No. 5 to 5

	1st Tour From: 8:00 a.m. To: 4:00 p.m.	2nd Tour From: 4:00 p.m. To: 12:00 p.m.	3rd Tour From: 12:00 p.m. To: 8:00 a.m.
DEPTH	From: — To: — Hole Made: — Hole Size: — Formation: —	From: — To: — Hole Made: — Hole Size: — Formation: —	From: 876 To: — Hole Made: — Hole Size: — Formation: —
DRILL PIPE	Stds.: 6 Singles: 1 Kelly: 41 Drill Collar Ft.: 259 Core Bbl. Ft.: —	Stds.: — Singles: — Kelly: — Drill Collar Ft.: — Core Bbl. Ft.: —	Stds.: — Singles: — Kelly: — Drill Collar Ft.: — Core Bbl. Ft.: —
BIT RECORD	No.: — Type: — Time On Bottom At: — Time Pulled At: — Total Hours Run: — Depth Pulled: — Wt. Lbs.: — FOOTAGE Drilled: — Reamed: —	No.: — Type: — Time On Bottom At: — Time Pulled At: — Total Hours Run: — Depth Pulled: — Wt. Lbs.: — FOOTAGE Drilled: — Reamed: —	No.: — Type: — Time On Bottom At: — Time Pulled At: — Total Hours Run: — Depth Pulled: — Wt. Lbs.: — FOOTAGE Drilled: — Reamed: —
	Bit Serial No.: — Table R.P.M.: —	Bit Serial No.: — Table R.P.M.: —	Bit Serial No.: — Table R.P.M.: —
	Jet or Conventional: — Nozzle Size: —	Jet or Conventional: — Nozzle Size: —	Jet or Conventional: — Nozzle Size: —
	Number of Drill Collars: — Size of Drill Collars: —	Number of Drill Collars: — Size of Drill Collars: —	Number of Drill Collars: — Size of Drill Collars: —
SURVEYS	Kind: — at: — Ft.: — Beg. off: —	Kind: — at: — Ft.: — Beg. off: —	Kind: — at: — Ft.: — Beg. off: —
SLUSH PUMP RECORD Pump No. 1 Pump No. 2	HOURS On Line: — Circulating: — Pump Press: — Length of Pump Stroke: — Strokes Per Min.: — Liner Size: —	HOURS On Line: — Circulating: — Pump Press: — Length of Pump Stroke: — Strokes Per Min.: — Liner Size: —	HOURS On Line: — Circulating: — Pump Press: — Length of Pump Stroke: — Strokes Per Min.: — Liner Size: —
MUD RECORD	Time: — Visc.: — Wt.: — W.L.: — Additives - In Pounds: —	Time: — Visc.: — Wt.: — W.L.: — Additives - In Pounds: —	Time: — Visc.: — Wt.: — W.L.: — Additives - In Pounds: —
CORING	From: — To: — Ft. Rec'd.: — Core No.: — Type Bbl.: —	From: — To: — Ft. Rec'd.: — Core No.: — Type Bbl.: —	From: — To: — Ft. Rec'd.: — Core No.: — Type Bbl.: —
DETAIL OF OPERATIONS AND REMARKS	W.O.C. From: 8:00 To: 4:00 Hrs.: 8:00	W.O.C. From: 4:00 To: 12:00 Hrs.: 8	W.O.C. From: 12:00 To: 8:00 Hrs.: 8
	Driller: W. T. Brooks	Driller: L. Hatera	Driller: [illegible]

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES_____ NO_____

Total Contract Time_____hrs. Total Company Time_____hrs. Toolpusher [illegible] Approved by_____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

4

Well Imp Sun Nelle Raven #F-72 Contractor Peter Bawden Drlg. Type Rig Ideal 50A Date Dec. 22/61 Report No. 17

	1st Tour From: 8:00 a.m. To: 4:00 p.m.	2nd Tour From: 4:00 p.m. To: 12:00 p.m.	3rd Tour From: 12:00 p.m. To: 8:00 a.m.
DEPTH	From / To / Hole Made / Hole Size / Formation	From / To / Hole Made / Hole Size / Formation	From: 8376 / To / Hole Made / Hole Size / Formation
DRILL PIPE	Stds. / Singles / Kelly / Drill Collar Ft. / Core Bbl. Ft.	Stds. / Singles / Kelly / Drill Collar Ft. / Core Bbl. Ft.	Stds. / Singles / Kelly / Drill Collar Ft. / Core Bbl. Ft.
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Wt. Lbs. / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Wt. Lbs. / FOOTAGE Drilled / Reamed	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Wt. Lbs. / FOOTAGE Drilled / Reamed
	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.	Bit Serial No. / Table R.P.M.
	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size	Jet or Conventional - / Nozzle Size
	Number of Drill Collars / Size of Drill Collars	Number of Drill Collars / Size of Drill Collars	Number of Drill Collars / Size of Drill Collars
SURVEYS	Kind / at / Ft. / Beg. off	Kind / at / Ft. / Beg. off	Kind / at / Ft. / Beg. off
PUSH PUMP RECORD Pump No. 1 Pump No. 2	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size
MUD RECORD	Time / Visc. / Wt. / W.L. / Additives - In Pounds	Time / Visc. / Wt. / W.L. / Additives - In Pounds	Time / Visc. / Wt. / W.L. / Additives - In Pounds
	CORRECTION TO STRAIGHTEN OUT BOOK.		
CORING	From / To / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Rec'd. / Core No. / Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs.	From / To / Hrs.	From / To / Hrs.
			Thaw out Flow Line & Pump Suctions. 2:00 / 1:12 / 1 1/4
			Circ C.S.G. Prior to Cementing. 1:15 / 2:30 / 1 1/4
			Mix Cement & Pump Down Plug. 2:30 / 4:45 / 2 1/4
			W.O.C. 4:45 / 8:00 / 3 1/4
	Driller	Driller	Driller E. L. Hicks

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES____ NO____

Total Contract Time_____ hrs. Total Company Time_____ hrs. Toolpusher_____ Approved by_____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 3

Well Travers No. 1 Beaver River F-78 Contractor Peter Brown Drlg. Type Rig N.T. 50A Date Dec 28/61 Report No. 4

	1st Tour From: 8:00 a.m. To: 4:00 p.m.	2nd Tour From: 4:00 p.m. To: 12:00 p.m.	3rd Tour From: 12:00 p.m. To: 8:00 a.m.
DEPTH	From / To / Hole Made / Hole Size / Formation: 876	From / To / Hole Made / Hole Size / Formation:	From / To / Hole Made / Hole Size / Formation: @ 876.
DRILL PIPE	Stds. / Singles / Kelly / Drill Collar Ft. / Core Bbl. Ft.: 6 / 1 / 41.23 / 259.17 / —	Stds. / Singles / Kelly / Drill Collar Ft. / Core Bbl. Ft.:	Stds. / Singles / Kelly / Drill Collar Ft. / Core Bbl. Ft.: 6 / 1 / 41.32 / 9 / 259.19 /
BIT RECORD	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Wt. Lbs. / FOOTAGE Drilled / Reamed: 2A / OSC3 / / / 4 / 876 / / /	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Wt. Lbs. / FOOTAGE Drilled / Reamed:	No. / Type / Time On Bottom At / Time Pulled At / Total Hours Run / Depth Pulled / Wt. Lbs. / FOOTAGE Drilled / Reamed: 2A / OSC3 / / / 4 / 876 / 20,000 / 2 11 /
	Bit Serial No. 41407 Table R.P.M. 180	Bit Serial No. Table R.P.M.	Bit Serial No. 41407 Table R.P.M. 120
	Jet or Conventional - Conv Nozzle Size	Jet or Conventional - Nozzle Size	Jet or Conventional - Conventional Nozzle Size 3-3/4
	Number of Drill Collars 9 Size of Drill Collars 6 3	Number of Drill Collars Size of Drill Collars	Number of Drill Collars 9 Size of Drill Collars 6 1/2
SURVEYS	Kind at Ft. Beg. off	Kind at Ft. Beg. off	Kind at Ft. Beg. off
PUSH PUMP RECORD Pump No. 1 Pump No. 2	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size	HOURS On Line / Circulating / Pump Press / Length of Pump Stroke / Strokes Per Min. / Liner Size
MUD RECORD	Time / Visc. / Wt. / W.L. / Additives - In Pounds	Time / Visc. / Wt. / W.L. / Additives - In Pounds: Ran 28 Jts. 838.45 Ft. 10 3/4 J.S. 40.516 S.C Mannesmann Casing Plus Davis Float + shoe. Cemented by Halliburton with 650 sack Plus 2% Ca. Cl. Landed at 857.88 K.B. Plug down 445 AM Fair returns.	Time / Visc. / Wt. / W.L. / Additives - In Pounds: 1:00 / 42 / 9.8 / / Gel 2000# 3:00 / 41 / 9.8 / 4:00 / 41 / 9.8 /
CORING	From / To / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Rec'd. / Core No. / Type Bbl.	From / To / Ft. Rec'd. / Core No. / Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs.: 8:00-8:15 Rig Srv. 8:00 / 8:15 / 1/4 — 8:15-1:00 Wait on Halliburton 8:15 / 1:00 / 4 3/4 — Pull out & Rig up to Run 10 3/4" Csg 1:00 / 3:00 / 2 — Run 10 3/4" Csg 3:00 / 4:00 / 1	From / To / Hrs.: Rig'g Casing 4 hrs 11:00 / 4 / 1 — Working on Mud Pump 11:00 / 12:00 / 1	From / To / Hrs.: Rig'g down rotary tools. 12:00 / 12:30 / 1/2 — Circ. & condition Mud. 12:30 / 2:00 / 1 1/2 — Condition hole, waiting on Hal. Burton 4:00 / 8:00 / 4.
	Driller A. Brooks	Driller	Driller E. Hicks

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY YES_____ NO_____

Total Contract Time_____hrs. Total Company Time_____hrs. Toolpusher W. Gordon Approved by_____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT

2

Well Twp 34 NE 1 to RAVEN #F-73 Contractor PETER BALLOGH DRLG. Type Rig Mercury 50A Date DEC 27/61 Report No. 15: 2

	1st Tour From: 8:00 a.m. To: 4:00 p.m.	2nd Tour From: 4:00 p.m. To: 12:00 p.m.	3rd Tour From: 12:00 p.m. To: 8:00 a.m.
DEPTH	From 620 To 685 Hole Made 65 Hole Size 15 Formation Surface	From 685 To 876 Hole Made 191 Hole Size 15 Formation	From 368 To 620 Hole Made 252 Hole Size 15 Formation Sand & Shale
DRILL PIPE	Stds. 4 Singles 1 Kelly 30.95 Drill Collar Ft. 259.19 Core Bbl. Ft. —	Stds. 56 Singles 1 Kelly 41.32 Drill Collar Ft. 259.19 Core Bbl. Ft.	Stds. 3 Singles 2 Kelly 25.56 Drill Collar Ft. 9) 259.19 Core Bbl. Ft.
BIT RECORD	No. 1A Type OSC3 Time On Bottom At — Time Pulled At 9:15 Total Hours Run 24 Depth Pulled 665 Wt. Lbs. 20000 FOOTAGE Drilled 665 Reamed — 2A OSC3 2:00 — ½ — — 20	No. 2A Type OSC3 Time On Bottom At — Time Pulled At 8.30 Total Hours Run 1 Depth Pulled 876. 20000 FOOTAGE Drilled 211 Reamed	No. 1A Type OSC-3 Time On Bottom At 23 Time Pulled At — Total Hours Run 23 Depth Pulled — Wt. Lbs. 15000 FOOTAGE Drilled 620 Reamed
	Bit Serial No. 4407 Table R.P.M. 180 Jet or Conventional - Conv. Nozzle Size — Number of Drill Collars 9 Size of Drill Collars 6½ Kind — at — Ft. Beg. off	Bit Serial No. 44107 Table R.P.M. 180 Jet or Conventional - Conv. Nozzle Size 8-32 Number of Drill Collars 9 Size of Drill Collars 6½ Kind — at — Ft. Beg. off	Bit Serial No. 5740 Table R.P.M. 180 Jet or Conventional - Reed TCI-WL Nozzle Size 2-13/16 1-3/4 Number of Drill Collars 9 Size of Drill Collars 6½ Kind Fast Mud at 376 Ft. Beg. off 1½-3/4
SURVEYS			
FLUSH PUMP RECORD Pump No. 1 Pump No. 2	HOURS On Line — Circulating — Pump Press 400 Length of Pump Stroke 18 Strokes Per Min. 54 Liner Size 7¼	HOURS On Line — Circulating — Pump Press 400 Length of Pump Stroke 18 Strokes Per Min. 54 Liner Size 7¼	HOURS On Line #0 #1 Circulating — Pump Press 375 Length of Pump Stroke 18 Strokes Per Min. 55 Liner Size 7¼
MUD RECORD	Time — Visc. — Wt. — W.L. — Additives - In Pounds	Time — Visc. — Wt. — W.L. — Additives - In Pounds Gell 10.00	Time 1:00 Visc. 29 Wt. 9.4 3:00 Visc. 30 Wt. 9.5 4:00 Visc. 30 Wt. 9.5
CORING	From — To — Ft. Rec'd. — Core No. — Type Bbl.	From — To — Ft. Rec'd. — Core No. — Type Bbl.	From — To — Ft. Rec'd. — Core No. — Type Bbl.
DETAIL OF OPERATIONS AND REMARKS	From / To / Hrs. RIG SER 8:00 / 8:15 / ¼ DRLG. 8:15 / 9:15 / 1 SURVEY 9:15 / 9:30 / ¼ TRIP OUT 9:30 / 10:30 / 1 WK ON BRK OUT CATHEAD. 10:30 / 12:30 / 2 RUN IN BRK CIRC. 12:30 / 2:00 / 1½ DRLG. 2:00 / 2:30 / ½ WK ON OIL LINES IN DWKS Cab. 2:30 / 4:00 / 1½	CLEAN OUT OIL LINES. 4:00 / 4:30 / ½ DRLG 15" Hole. 4:30 / 8:00 / 3½ CIR TO CLEAN HOLE Hole Casing Fund 8:00 / 8:30 / ½ TRIP TO CLEAN OUT 8:30 / 12:00 / 3½	R. G SERVICE. 12:00 / 12:15 / ¼ DRLG. 12:15 / 1:00 / ¾ WORK ON LUB BEARINGS on DRK 1:00 / 1:45 / ¾ TAKE SURVEY 1:45 / 2:00 / ¼ DRLG 2:00 / 4:00 / 2 TAKE SURVEY START TRIP 4:00 / 4:45 / ¾ DRLG. 4:45 / 8:00 / 3¼
	Driller W. Bunch	Driller [illegible]	Driller E. S. Hicks

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD: CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK BLOWOUT PREVENTER EQUIPMENT TODAY
YES _____ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher [illegible] Approved by _____

Form 34402 (500 bks. -57).

IMPERIAL OIL LIMITED

DAILY DRILLING REPORT 7

Well IMP SUN KAUNES Contractor BAWDEN DR. LG. CO Type Rig NAT. 50 A. Date DEC-26-61 Report No. EDM R

1st Tour From: 8:00 a.m. To: 4:00 p.m.

DEPTH

From	To	Hole Made	Hole Size	Formation
124	307	183	15	SURFACE

DRILL PIPE

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
		41.32	259.19	

BIT RECORD

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
1A	OSC-3	10:1		10:2	—	2000	307	—

Bit Serial No. 5740 Table R.P.M. 180

Jet or Conventional - CONV. Nozzle Size 3-3/32 - 3/4

Number of Drill Collars 9 Size of Drill Collars 6 1/2

Kind EASTMAN at 300 Ft. 1/2 Beg. off

SURVEYS

PUSH PUMP RECORD

	HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
Pump No. 1			325	18	54	7 1/4
Pump No. 2				14		

MUD RECORD

Time	Visc.	Wt.	W.L.	Additives - In Pounds
				Spudded in @ 11.30 P.M. 25 DEC. 1961

CORING

From	To	Ft. Rec'd.	Core No.	Type Bbl.

DETAIL OF OPERATIONS AND REMARKS

	From	To	Hrs.
RIG SER	8.00	8.15	1/4
LOK ON DUMPS	8.15	9.15	1
DRLG 15" HOLE	9.15	11.30	2 1/4
SURVEY 150' - 1/2°	11.30	11.45	1/4
DRLG	11.45	1.30	1 3/4
SURVEY 250' - 3/4°	1.30	1.45	1/4
DRLG	1.45	4.00	2 1/4

Driller D. Bowden

2nd Tour From: 4:00 p.m. To: 12:00 p.m.

From	To	Hole Made	Hole Size	Formation
307	368	61	15	SAND

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
	3	41.32	259.19	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
1A	OSC-3	17		17		2000	350	—

Bit Serial No. 5740 Table R.P.M. 180

Jet or Conventional - CONV. Nozzle Size 3-3/32 - 3/4

Number of Drill Collars 9 Size of Drill Collars 6 1/2

Kind EASTMAN at 300 Ft. 1/2 Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
		350	10	50	7 1/4
			11		

Time	Visc.	Wt.	W.L.	Additives - In Pounds

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.
DRLG	11.00	1
R.C. SUR & SURVEY 300-1/2	5.00	1/2
DRLG	5.15	3/4
REPAIR OIL PUMP IN DRAWWORKS	7.30	1 1/2
DRLG	8.00	4 1/2

Driller L. Taylor

3rd Tour From: 12:00 p.m. To: 8:00 a.m.

From	To	Hole Made	Hole Size	Formation
0	124	124	15	SAND

Stds.	Singles	Kelly	Drill Collar Ft.	Core Bbl. Ft.
		20	86.58	

No.	Type	Time On Bottom At	Time Pulled At	Total Hours Run	Depth Pulled	Wt. Lbs.	FOOTAGE Drilled	FOOTAGE Reamed
1A	OSC-3	4" 1/4		4" 1/4		8000	124	

Bit Serial No. 5740 Table R.P.M. 180

Jet or Conventional - CONVENTIONAL Nozzle Size 3-3/32-1-3/4

Number of Drill Collars 3 Size of Drill Collars 6 1/2

Kind EASTMAN at 26.5° Ft. 3.5° Beg. off

HOURS On Line	HOURS Circulating	Pump Press	Length of Pump Stroke	Strokes Per Min.	Liner Size
NO 1		150	18	61	7 1/4

Time	Visc.	Wt.	W.L.	Additives - In Pounds
12.00	35			
2.00	33			
4.00	32			

From	To	Ft. Rec'd.	Core No.	Type Bbl.

From	To	Hrs.
R. SERVICE	12.15	1/4
DRILL 15" HOLE	2.45	2
TAKE SURVEY	2.30	1/4
WORK ON MUD PUMP	4.00	1 1/2
DRILL 15" HOLE	5.30	1 1/2
TAKE SURVEY	5.45	1/4
DRILL 15" HOLE	1.30	3/4
LUNCH ON	8.00	2

Driller E. Bowden

CLASSES OF TIME BREAKDOWN

DRILLING: FISHING: TRIPPING: W.O.C. & NIPPLING UP: RIG REPAIRS
REAMING: CIRCULATING CORING: D.S. TESTING: RIG MAINTENANCE:
TOTCO: CONDITIONING MUD CASING JOB: LOGGING: MISCELLANEOUS:

FORM 34570 "DRILLING EQUIPMENT, REPAIRS AND REPLACEMENTS" SHOULD BE FILLED IN AND FORWARDED WITH TOUR REPORT. DATA WHICH FULLY DESCRIBES THE EQUIPMENT REPLACEMENT SHOULD BE GIVEN.

DID YOU CHECK SLOWOUT PREVENTER EQUIPMENT TODAY YES _____ NO _____

Total Contract Time _____ hrs. Total Company Time _____ hrs. Toolpusher _____ Approved by _____

Form ED-19.

DAILY REPORT

OPERATOR'S COPY.

DATE FEB 19 '62 56

COMPANY Imp. Oil Ltd.

CONTRACTOR Peter Bawden Drlg. RIG No. 8 Licensed Well Name & Location Imp. Gen Nitle Ramm F-73 K. B. Elev.

	FIRST TOUR 12:00 p.m. — 8:00 a.m			SECOND TOUR 8:00 a.m. — 4:00 p.m.			THIRD TOUR 4:00 p.m. — 12:00 p.m.		
DEPTH	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour
	7628	—	7628	@7628			7628	5'	7633.
TIME	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom / Off Bottom
							1/2	7 1/2	
BIT RECORD	Size / No. / Type / Condition / Wt. / R.P.M. / Ft. Drilled / Bit-hrs.								
	9 / 36 / YM			6 1/8 / 20 / D / good.			9 / 37 / OWC / 0.3. / 40M / 60 / 5' / 2.		
DRILL PIPE	Size / Stands / Singles / Drill Collar / Kelly / Core Bbl.								
	4 1/2 / 77 / 1 / 22 634.75' / 35'30.			4 1/2 / 77 / — / 634.7' / 9.22			4 1/2 / 77 / 1 / 634.7' / 40.10 / —		
MUD RECORD	Time / Weight / Vis. / Gel Str. / pH / Am't Added / Kind								
	2000 / 10.3 / 80 / 6.1 / 11.0 / PLASTER - 500# / D-BROXIN - 400						1130 / 10.3 / 79 /			/ PLASTER 750# / CAUSTIC 300#
CORING	Time / Interval / Ft. Cut / Ft. Rec'd / Type								
										/ Q BROXIN 450# / C-FL 1900#.
SURVEY	Depth / Degrees Off / Depth / Degrees Off								
CASING & CEMENTING DETAILS	Size / Amount / Set at K.B. / Wt./Ft. / New/Used / Grade / Cubic Feet of Mix (Dry Volume) / Type of Cementing Material / ADDITIVES Including Ratio or Percentage / Slurry Weight Lb./Gal.								
PERFORATING	Interval / Shot/Ft. / Type / Interval / Shot/Ft. / Type								
ACIDIZING or FRACING	Interval / Amount Gals. / Kind / Breakdown Press. / Final Press. / Feed Rate Bbls./Min.								
FORMATION TESTS	No. / Interval Tested / to								
	Valve Open / min. / Shut in / mins.								
	Gas to Surface / min. / @ / Mcf/d Max.								
	Oil to Surface / min. / @ / Bbl/d Max.								
	Recovery: / ft. / ft. / ft.								
ABANDONMENT PLUGS	No. / Interval / Cement / Additive / Plug Down / Felt At / Time								
LOGS	Type / Int.								
REMARKS	1200 400 CIR. OUT MUD 400 800 HOIST PIT No 36. 800 PICK UP CORE BBL			600-830 THAW out #2 pumplines to TANK. 830-845 R.G Service check BOP's. 845-1100 Running CORE BBL. 1100-1200 TRY TO BREAK CIRC. 1215-400 PULL out CORE BBL			400-430 PULL OUT 430-530 CLEAN OUT & SER. BBL 530-545 RIG SER. CHK BOP'S 545-830 RUN IN 830-1130 UNPLUG BIT & CLEAN OUT 1130-1200 DRLG		
	Operator	Driller E. Harcus		Operator	Driller E. L. Hicks		Operator	Driller W. Bunch	

Form ED-19.

DAILY REPORT

OPERATOR'S COPY.

COMPANY Imperial Oil Ltd. DATE FEB 18 '62 55

CONTRACTOR Peter Bawden Drlg. RIG No. 8 Licensed Well Name & Location Imperial Lion Pelly Ramm F-13 K. B. Elev.

	FIRST TOUR 12:00 p.m. — 8:00 a.m			SECOND TOUR 8:00 a.m. — 4:00 p.m.			THIRD TOUR 4:00 p.m. — 12:00 p.m.		
DEPTH	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour
	7533	Reaming 38FT Drill 29FT	7600	7600	28	7628	7628	0	7628
TIME	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom
				3½	5½a		0	8		
BIT RECORD	Size / No. / Type / Condition / Wt. / R.P.M. / Ft. Drilled / Bit-hrs.									
	9 / 36 / VM / 1H / 45 / 72 / 29 / 7½			9 / 36 / VM / 11 / 50M / 72 / 57 / 10			9 / 36 / VM. / ? / — / — / 57 / 16		
DRILL PIPE	Size / Stands / Singles / Drill Collar / Kelly / Core Bbl.								
	4½ / 77 / — / 22. 634.75 / 3800 /			4½ / 77 / 8 / 634.75 / 3530 /			4½ / 77 / 1 / 634.75 / 35.30 / —		
MUD RECORD	Time / Weight / Vis. / Gel Str. / pH / Am't Added / Kind								
	7:00 / 10.4 / 69 / 3.9 / 11.0 / CAUSTIC — 200# PLASTER — 500# QUIKEN — 300# GEL — 1200# / CELLEX-50						11:50 / 16.3 / 170 /		11.0 / CEL CAUSTIC / 450 500
	7:00 / 10.5 / 65 / 6.2 / 11.0 /								
CORING	Time / Interval / Ft. Cut / Ft. Rec'd / Type								
				Time / Interval / Ft. Cut / Ft. Rec'd / Type: SAWDUST 600#			Time / Interval / Ft. Cut / Ft. Rec'd / Type: SAWDUST 40 SUNFLOWER SEEDS 40SKS / 0 / BROKIN 100 PLASTER 120		
SURVEY	Depth / Degrees Off / Depth / Degrees Off			Depth / Degrees Off / Depth / Degrees Off			Depth / Degrees Off / Depth / Degrees Off		
CASING & CEMENTING DETAILS	Size / Amount / Set at K.B. / Wt./Ft. / New/Used / Grade / Cubic Feet of Mix (Dry Volume) / Type of Cementing Material / ADDITIVES Including Ratio or Percentage / Slurry Weight Lb./Gal.								
PERFORATING	Interval / Shot/Ft. / Type / Interval / Shot/Ft. / Type								
ACIDIZING or FRACING	Interval / Amount Gals. / Kind / Breakdown Press. / Final Press. / Feed Rate Bbls./Min.						Interval: FIBRE SEAL 11SKS CEL / Amount Gals.: 4560 / Kind / Breakdown Press. / Final Press. / Feed Rate Bbls./Min.		
FORMATION TESTS	No. / Interval Tested / to								
	Valve Open / min. / Shut in / mins.								
	Gas to Surface / min. / @ / Mcf/d Max.								
	Oil to Surface / min. / @ / Bbl/d Max.								
	Recovery: ft. / ft. / ft.								
ABANDONMENT PLUGS	No. / Interval / Cement / Additive / Plug Down / Felt At / Time								
LOGS	Type / Int.								
REMARKS	1200 12:00 R.g SER 12:15 5:15 Reaming 6½ Rat Hole 5:15 5:45 Drill 9" Hole. 5:45 6:00 PUT new packing in 350. 6:00 8:00 DRILL.			8:00 8:15 R.G SERVICE & Check BOP's. 8:15 10:15 DRILL 9" Hole. 10:40 1:15 Mix Mud & Regain circ @ 7628 1:15 4:30 Condition Mud.			1:00 9:30 LOST CIRC. COND. MUD. 9:30 12:00 Build volume & CIRC.		
	Operator / Driller			Operator / Driller E. L. Hicks.			Operator / Driller W. Brooks.		

Form ED-19.

DAILY REPORT

OPERATOR'S COPY.

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COMPANY Imperial Oil Ltd. DATE Feb 17/62

CONTRACTOR Peter Bawden RIG No. 8 Licensed Well Name & Location Imp. Sun Rutla Rayen F-73 K. B. Elev.

	FIRST TOUR 12:00 p.m. — 8:00 a.m			SECOND TOUR 8:00 a.m. — 4:00 p.m.			THIRD TOUR 4:00 p.m. — 12:00 p.m.		
DEPTH	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour
	7533.	7559	26'	7559	12.	7571.	@ 7571		
TIME	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom
	7:3	4								
BIT RECORD	Size / No. / Type / Condition / Wt. / R.P.M. / Ft. Drilled / Bit-hrs.									
	6¼ / 25 / D / / 12000 / 80 / 26. / 8									
	6½ / 20 / D / Good. / 12 000 / 80 / ~~Ft. Drilled~~ CORE 12. / 14									
	9. / 36 / Y/M / 14									
DRILL PIPE	Size / Stands / Singles / Drill Collar / Kelly / Core Bbl.									
	4½ / 76 / 2 / 634.75 / 3398 / 56.31									
	4½ / 76 / 1 / 22. 634.75 / 1700 / 56.38									
	9½ / 76 / 1 / 634.75 / 3100									
MUD RECORD	Time / Weight / Vis. / Gel Str. / pH / Am't Added / Kind									
	1200 / 10.6 / 100 / — / 11.0									
	700 / 10.6 / 84 / — / 11.0									
	900 / 10.6 / 73 / 6.4 / 11.0 / FLEX-75									
	100 / 10.6 / 72 / 6.8 / 10.5									
CORING	Time / Interval / Ft. Cut / Ft. Rec'd / Type									
	#9 / 7533-7571 / 38									
SURVEY	Depth / Degrees Off / Depth / Degrees Off									
CASING & CEMENTING DETAILS	Size / Amount / Set at K.B. / Wt./Ft. / New/Used / Grade / Cubic Feet of Mix (Dry Volume) / Type of Cementing Material / ADDITIVES Including Ratio or Percentage / Slurry Weight Lb./Gal.									
PERFORATING	Interval / Shot/Ft. / Type / Interval / Shot/Ft. / Type									
ACIDIZING or FRACING	Interval / Amount Gals. / Kind / Breakdown Press. / Final Press. / Feed Rate Bbls./Min.									
FORMATION TESTS	No. / Interval Tested / to									
	Valve Open min. Shut in mins.									
	Gas to Surface min. @ Mcf/d Max.									
	Oil to Surface min. @ Bbl/d Max.									
	Recovery: ft. / ft. / ft.									
ABANDONMENT PLUGS	No. / Interval / Cement / Additive / Plug Down / Felt At / Time									
LOGS	Type / Int.									
REMARKS	12⁰⁰-12¹⁵ RIGSER & CHK BOPs 12¹⁵-8⁰⁰. CUT CORE #9			8⁰⁰ 9.30 CUT CORE NO 9. 9³⁰ 10¹⁵ RIG SER- REPAIR WATER LINE IN BRAKS 10¹⁵ 3⁰⁰ CUT CORE 3⁰⁰ 4⁴⁰ HOIST CORE			4³⁵-7⁰⁰ HOIST CORE #7 & MEASURE PIPE. 7⁰⁰-8¹⁵ RECOVER CORE & STAND BACK BBL. 8¹⁵-8⁴⁵ RUN IN DES. 8⁴⁵-9¹⁵ SLIP & CUT DRILLING LINE. 9¹⁵-9³⁰ RIG SERVICE & CK FELT BOPs. 9³⁰ 11⁰⁰ RUN IN W/BIT #36 11⁰⁰-12⁰⁰ CLEAN OUT 9' FILL.		
	Operator	Driller W. Bowden		Operator	Driller		Operator	Driller E. Pickett	

Form ED-19.

DAILY REPORT

OPERATOR'S COPY.

COMPANY Imperial Oil Ltd. DATE Feb 16/62 53

CONTRACTOR Peter Bawden RIG No. 8 Licensed Well Name & Location Imperial Sun Netla Raven F-73 K. B. Elev.

	FIRST TOUR 12:00 p.m. — 8:00 a.m			SECOND TOUR 8:00 a.m. — 4:00 p.m.			THIRD TOUR 4:00 p.m. — 12:00 p.m.		
DEPTH	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour
	7466.	53	7519	7519	14	7533	7533		
TIME	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom
	7 3/4	7 3/4					7 1/4	7 3/4		
BIT RECORD	Size / No. / Type / Condition / Wt. / R.P.M. / Ft. Drilled / Bit-hrs.									
	9 / 35 / YSI / OB / 50M. / 72.			9 / 25 / YSI / / 50M / 72. / 14 / 2.			6 3/4 / 20 / D / 14 / 10 / 50		
DRILL PIPE	Size / Stands / Singles / Drill Collar / Kelly / Core Bbl.								
	4 1/2 / 76 / 1 / 22-634.75' / 20.30 / —			4 1/2 / 76 / 1 / 22 634.75' / 35.00 /			4 1/2 / 73 / 2 / 694.25 / 27.02 /		
MUD RECORD	Time / Weight / Vis. / Gel Str. / pH / Am't Added / Kind								
	3.00 / 10.6 / 72 / / 11.0 / CAUSTIC / 200#			9.00 / 10.6 / 64 / 6.2 / 10.5 / CAUSTIC / 150#					
	7.00 / 10.6 / 69 / / 11.0 / Q BROXIN / 400#			1.00 / 10.6 / 82 / 6.4 / 11.0 / GEL / 1900#					
									CELLEX / 30#
CORING	Time / Interval / Ft. Cut / Ft. Rec'd / Type								
							11.45 / 7533 — / Started Core #9 /		
SURVEY	Depth / Degrees Off / Depth / Degrees Off								
	7374 / 1 1/4								

CASING & CEMENTING DETAILS	Size / Amount / Set at K.B. / Wt./Ft. / New/Used / Grade / Cubic Feet of Mix (Dry Volume) / Type of Cementing Material / ADDITIVES Including Ratio or Percentage / Slurry Weight Lb./Gal.

PERFORATING	Interval / Shot/Ft. / Type / Interval / Shot/Ft. / Type

ACIDIZING or FRACING	Interval / Amount Gals. / Kind / Breakdown Press. / Final Press. / Feed Rate Bbls./Min.

FORMATION TESTS	
	No. Interval Tested to
	Valve Open min. Shut in mins.
	Gas to Surface min. @ Mcf/d Max.
	Oil to Surface min. @ Bbl/d Max.
	Recovery: ft.
	ft.
	ft.

ABANDONMENT PLUGS	No. / Interval / Cement / Additive / Plug Down / Felt At / Time

LOGS	Type / Int.
	1200-1215 RIG SER & CHK BOPS
	1215-800 DRLG.

REMARKS	Type / Int.
	800 1000 DRILL 9" HOLE
	1000 1100 HOIST 1 STAND TIGHT
	1100 1230 80 BACK TO BOTTOM, C.R. MX
	MUD FOR CORE NO 9
	1230-200 CIR
	200-400 HOIST TO CORE

Operator Imperial Oil Ltd Driller W. Brooks.

	Interval / Shot/Ft. / Type / Interval / Shot/Ft. / Type

	Interval / Amount Gals. / Kind / Breakdown Press. / Final Press. / Feed Rate Bbls./Min.

	No. Interval Tested to
	Valve Open min. Shut in mins.
	Gas to Surface min. @ Mcf/d Max.
	Oil to Surface min. @ Bbl/d Max.
	Recovery: ft.
	ft.
	ft.

	No. / Interval / Cement / Additive / Plug Down / Felt At / Time

	Type / Int.
	900-1000 WORK TIGHT HOLE @ 6990
	1000-1045 POH OUT TO CORE.
	1045-900 PICK UP CORE BBL & SERVICE SAME
	900-1030 RUN IN W/ CORE BBL.
	1030-1145 CHANGE OUT BRAIDED LINE @ 6995 & RUNNING TO BOT
	1145-1200 C-T CORE #9

Operator Driller E. S. Kitz.

	Interval / Shot/Ft. / Type / Interval / Shot/Ft. / Type

	Interval / Amount Gals. / Kind / Breakdown Press. / Final Press. / Feed Rate Bbls./Min.

	No. Interval Tested to
	Valve Open min. Shut in mins.
	Gas to Surface min. @ Mcf/d Max.
	Oil to Surface min. @ Bbl/d Max.
	Recovery: ft.
	ft.
	ft.

	No. / Interval / Cement / Additive / Plug Down / Felt At / Time

	Type / Int.

Form ED-19.

DAILY REPORT

OPERATOR'S COPY.

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COMPANY Imperial Oil Ltd

DATE Feb. 13/64

CONTRACTOR Peter Bawden RIG No. 8 Licensed Well Name & Location Imp Sun Notla Raven F-73 K. B. Elev.

	FIRST TOUR 12:00 p.m. — 8:00 a.m.			SECOND TOUR 8:00 a.m. — 4:00 p.m.			THIRD TOUR 4:00 p.m. — 12:00 p.m.		
	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour
DEPTH	7347	27	7375	7374	28	7402	7402	64	7466
TIME	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom	On Bottom	Off Bottom
							7 3/4	1/4		
BIT RECORD	Size / No. / Type / Condition / Wt. / R.P.M. / Ft. Drilled / Bit-hrs.								
	9 / 34 / JWC / LOCK / 50M. / 72 / 164 / 23 1/2			7 / 35 / YSI / GOOD / 50M / 74 / 28 / 4			9 / 35 / YSI / RUNNING / 50M / 74		
DRILL PIPE	Size / Stands / Singles / Drill Collar / Kelly / Core Bbl.								
	4 1/2 / 74 / 2 / 634.75 / 24.18 / —			4 1/2 / 75 / — / 22 - 634.75 / 23.25 /			4 1/2 / 75 / 2 / 122.75 / 39.30 /		
MUD RECORD	Time / Weight / Vis. / Gel Str. / pH / Am't Added / Kind								
	1200 / 10.7 / 70 / / 11.0 / 2 1300 E / CEL			9 1/2 00 / 10.7 / 91 / — / 10.5 / Hy-Flo 6 @ 15-25# Pac-Reg-300#			7:00 / 10.6 / 76 / 6-0 / 11.5 / CELLEY / 38		
	300 / 10.7 / 68 / / 11.0 / 30 E / DRIS.			3 00 / 10.7 / 62 / — / 11.0 / PLASTER 200# C-BRAKE 300#			11.0 / 10.6 / 70 / / 11.0 /		
CORING	Time / Interval / Ft. Cut / Ft. Rec'd / Type								
SURVEY	Depth / Degrees Off / Depth / Degrees Off								
	7374 / 1/4								

CASING & CEMENTING DETAILS	Size	Amount	Set at K.B.	Wt./Ft.	New/Used	Grade	Cubic Feet of Mix (Dry Volume)	Type of Cementing Material	ADDITIVES Including Ratio or Percentage	Slurry Weight Lb./Gal.

PERFORATING	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type

ACIDIZING or FACING	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.

FORMATION TESTS	
	No. Interval Tested to
	Valve Open min. Shut in mins.
	Gas to Surface min. @ Mcf/d Max.
	Oil to Surface min. @ Bbl/d Max.
	Recovery: ft.
	ft.
	ft.

ABANDONMENT PLUGS	No.	Interval	Cement	Additive	Plug Down	Felt At	Time

LOGS	Type	Int.

REMARKS		
	1200-12 00	K. SER & CHK BOP's
	12 00 - 4 45	DRLG
	4 00 - 4 45	SURVEY
	4 45 - 8 00	TRIP FOR BIT

Operator Driller W. Bowden

	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type

	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.

	No. Interval Tested to
	Valve Open min. Shut in mins.
	Gas to Surface min. @ Mcf/d Max.
	Oil to Surface min. @ Bbl/d Max.
	Recovery: ft.
	ft.
	ft.

No.	Interval	Cement	Additive	Plug Down	Felt At	Time

Type	Int.

8 00 - 10 00	Running in Hole.
10 00 - 12 00	Clean out 30 FT to Bottom
12 00 - 1 00	Drlg 9" Hole

Operator Driller E. Hooper

	Interval	Shot/Ft.	Type	Interval	Shot/Ft.	Type

	Interval	Amount Gals.	Kind	Breakdown Press.	Final Press.	Feed Rate Bbls./Min.

	No. Interval Tested to
	Valve Open min. Shut in mins.
	Gas to Surface min. @ Mcf/d Max.
	Oil to Surface min. @ Bbl/d Max.
	Recovery: ft.
	ft.
	ft.

No.	Interval	Cement	Additive	Plug Down	Felt At	Time

Type	Int.

4 00 - 4 00	R.G. Service & Check BOP's.
4 00 - 12 00	Drill 9" Hole.

Operator Imp Oil LTD Driller C.

Form ED-19.

DAILY REPORT

OPERATOR'S COPY.

COMPANY Imp. Oil LTD. DATE FEB 14, 1962 21

CONTRACTOR PETER BAWDEN DRLG. RIG No. 8 Licensed Well Name & Location. Imp. SUN NE Ld. RAVEN # F-23 K. B. Elev.

	FIRST TOUR 12:00 p.m. — 8:00 a.m.			SECOND TOUR 8:00 a.m. — 4:00 p.m.			THIRD TOUR 4:00 p.m. — 12:00 p.m.		
	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour	Start of Tour	Hole Made This Tour	End of Tour
DEPTH	7210	24	7234	7234	57	7291	7291	56	7347
TIME	On Bottom: 4	Off Bottom: 4	On Bottom:	Off Bottom:	On Bottom: 7 1/2	Off Bottom: 1/2	On Bottom:	Off Bottom:	On Bottom: 7 3/4	Off Bottom: 1/4
BIT RECORD	Size 9 · No. 34 · Type OWC · Condition RUNNING · Wt. 48 · R.P.M. 74 · Ft. Drilled 24 · Bit-hrs. 4			Size 9 · No. 34 · Type OWC · Condition IN · Wt. 50 · R.P.M. 74 · Ft. Drilled 81 · Bit-hrs. 11 1/2			Size 9 · No. 34 · Type OWC · Condition IN · Wt. 50M · R.P.M. 74 · Ft. Drilled 137 · Bit-hrs. 19		
DRILL PIPE	Size 4 1/2 · Stands 73 · Singles · Drill Collar 634.75 · Kelly 32.74 · Core Bbl.			Size 4 1/2 · Stands 73 · Singles 2 · Drill Collar 634.75 · Kelly 32. · Core Bbl.			Size 4 1/2 · Stands 74 · Singles 1 · Drill Collar 634.75 · Kelly 27.29 · Core Bbl.		
MUD RECORD	Time · Weight · Vis. · Gel Str. · pH · Am't Added · Kind 3 00 · 10 6 · 126 · C. · 11. · · · 1 00 · 10 6 · 85 · 5.4 · 11. · · ·			Time · Weight · Vis. · Gel Str. · pH · Am't Added · Kind 9 00 · 10 6 · 67 · 5.8 · 11.5 · CAUSTIC GEL · 200 # 3 00 · 10 6 · 63 · 6.1 · 11. · GEL · 1500 # PLASTER · 500 #			Time · Weight · Vis. · Gel Str. · pH · Am't Added · Kind 5 00 · 10 6 · 69 · 5.8 · 11. · GEL · 1200 # 11 00 · 10 6 · 77 · 5.7 · 11 · ·		
CORING	Time · Interval · Ft. Cut · Ft. Rec'd · Type			Time · Interval · Ft. Cut · Ft. Rec'd · Type			Time · Interval · Ft. Cut · Ft. Rec'd · Type		
SURVEY	Depth · Degrees Off · Depth · Degrees Off			Depth · Degrees Off · Depth · Degrees Off			Depth · Degrees Off · Depth · Degrees Off		
CASING & CEMENTING DETAILS	Size 10 3/4 · Amount 238 · Set at K.B. 238 · Wt./Ft. 40.5 · New/Used NEW · Grade J-55 · Cubic Feet of Mix (Dry Volume) 650 · Type of Cementing Material OIL WELL · ADDITIVES Including Ratio or Percentage 2% CaCl2 · Slurry Weight Lb./Gal.								
PERFORATING	Interval · Shot/Ft. · Type · Interval · Shot/Ft. · Type			Interval · Shot/Ft. · Type · Interval · Shot/Ft. · Type			Interval · Shot/Ft. · Type · Interval · Shot/Ft. · Type		
ACIDIZING or FRACING	Interval · Amount Gals. · Kind · Breakdown Press. · Final Press. · Feed Rate Bbls./Min.			Interval · Amount Gals. · Kind · Breakdown Press. · Final Press. · Feed Rate Bbls./Min.			Interval · Amount Gals. · Kind · Breakdown Press. · Final Press. · Feed Rate Bbls./Min.		
FORMATION TESTS	No. · Interval Tested · to Valve Open · min. · Shut in · mins. Gas to Surface · min. · @ · Mcf/d Max. Oil to Surface · min. · @ · Bbl/d Max. Recovery: ft. ft. ft.			No. · Interval Tested · to Valve Open · min. · Shut in · mins. Gas to Surface · min. · @ · Mcf/d Max. Oil to Surface · min. · @ · Bbl/d Max. Recovery: ft. ft. ft.			No. · Interval Tested · to Valve Open · min. · Shut in · mins. Gas to Surface · min. · @ · Mcf/d Max. Oil to Surface · min. · @ · Bbl/d Max. Recovery: ft. ft. ft.		
ABANDONMENT PLUGS	No. · Interval · Cement · Additive · Plug Down · Felt At · Time			No. · Interval · Cement · Additive · Plug Down · Felt At · Time			No. · Interval · Cement · Additive · Plug Down · Felt At · Time		
LOGS	Type · Int.			Type · Int.			Type · Int.		

REMARKS

Operator IMP O.L LTD. Driller W. Brooks.

12⁰⁰–12³⁰ Sh. up & cut DRLG LINE.
12³⁰–12⁴⁵ R.G SERVICE CHECK BOP's.
12⁴⁵–1⁴⁵ RUN 14.
1⁴⁵–2⁴⁵ CL CSG, 40' TO BOT.
2⁴⁵–6¹⁵ DRL 9" HOLE.
6¹⁵–7³⁰ REPAIR MUD LINE VALVE & CLEAN PUMP
7³⁰–8⁰⁰ DRL 9" HOLE.

Operator IMP O.L LTD. Driller L. Hagan

8⁰⁰–9⁰⁰ DRL 9" HOLE.
9⁰⁰–9¹⁵ R.G SERVICE CHECK BOP's.
9¹⁵–9³⁰ REPAIR 9-350
9³⁰–4⁰⁰ DRL 9" HOLE.

Operator IMP O.L LTD. Driller E. F. Hucko

4⁰⁰–4¹⁵ RIG SERVICE & CHECK BOP's.
4¹⁵–12⁰⁰ DRL 9" HOLE.