

Drilling Authority No. 508
Date Issued 16 February 1971

WELL NAME: Unkno 300 ft at T. 300000 3-11
FIELD: _____
LOCATION: Unit 5 Area: _____
Section 17 Grid 172-37-27
Latitude 41-27-5 Longitude 172-37-27
U.W.L.R. _____
U.W.I. _____

Rig Release Date: _____

Status: _____

Information Release Date: _____

CHANGE OF NAME

DATE RECEIVED	INDEX
16-2-71	Application for a Drilling Authority. Well Completion Data. Well History Report.
	Application to Amend a Drilling Authority.
	Application to change a Well Name.
22-3-71	Application to Abandon a Well or Suspend Drilling.
	Application to Alter Condition of a Well. Well History Supplement. Well Completion Data. Work-over Report No.
	Application to Commingle Production before Measurement.
	Data for Back Pressure Test on Natural Gas Wells - Monograph 7 Method.
	Data for Back Pressure Test on Natural Gas Wells - Vitter's Method.
	M.P.R. - Oil - Calculations.
	New Oil Well Report.
	New Gas Well Report.
	Well Inspection Report.
	Rig Inspection Report.
	Battery Inspection Report.
	Equipment Report.
	Well Card.
	New Service Well Report.
	Monthly Water Flood Operations Report
	Monthly Water Receipts and Disposal of Fluids Report Logs. Large scale..... Small scale.....



File No.
Drilling Authority No. 508

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

Application to Abandon a Well or Suspend Drilling

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to abandon or suspend drilling in:

Name and number of well: CHINCHAGA 3-13
Location: Unit 19 Section 19 Grid 60° 10' 122° 15'
Latitude 60° 01' 44.0" Longitude 122° 17' 29.0"
From Established Reference Marker 100.1 S of S.E. Cor. of Unit 3
Conservation Well Location Reference Lat. 60.04555 N., Long. 122.29130° W.
Permit No. Lease No. 550 - 09 (Former 2301)

Canada Southern Petroleum Ltd.
(Permitter, Lessee, Lessee)

Date of commencement of proposed program March 18, 1971

OIL, GAS, AND WATER ENCOUNTERED (Depths)

Oil at _____
Gas at _____
Water at _____
Total Depth 6222' K.B. Date of last operations Reached T.D. March 16, 1971
Present condition of well Open hole to 6222' K.B.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At	Size of Cement and Additives	Amount Piled
1. 9-5/8"	32.3	628'	623'	260 + 2% CaCl ₂	
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
1	6222' - 6050'	Bottom hole (Chinchaga)	112	50% excess
2	4700' - 4550'	Slave Pt.	125	" "
3	700' - 550'	Surface casing	184	" " + 3% CaCl ₂
		Surface	5	Weld plate

The following logs have been run IES, BHC SGR-Cal.
Other operations proposed NONE

Operations to be carried out by Cascade Drilling Contractor Licence No.
Address P.O. Box 5520, Postal St. A, Calgary Address
Responsible Agent in field D. Tufts, Blain, Binnie and Associates Engineering Ltd.
Dated at Calgary, Alberta this 18 Day of March 19 71
Signed by P. Eng. Company Union Gas Company of Canada Limited
Title Operator's Exploratory Licence No. 1810

Note:—The Oil Conservation Engineer's office must be notified before work is commenced.

(For OIL AND MINERAL DIVISION use only)

APPROVAL

This application has been examined and proposed programme approved, subject to the following conditions:

Confirming oral approval given by Mr. G. E. Blue
on the 17th March 1971.

Dated 22nd March 19 71

Oil Conservation Engineer

(AND 52-90 (5) (2-69))

Forms to be submitted in triplicate to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

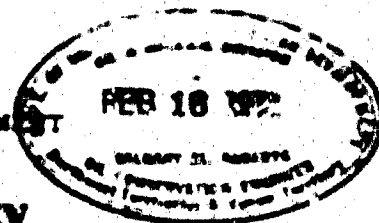
Drilling Authority No. 108

Project No.

File No.



DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION



Application for a Drilling Authority

This notice of intention to begin drilling operations, in triplicate, and where required a plan of survey approved by the Surveyor General showing the target area or the site of the well must be submitted and approved before commencing operations.

In compliance with the "Canada Oil and Gas Land Regulations", application is hereby made for approval to drill:—

Name and number of well EnGas CSP et al S. Celibeta J-13

Location: Unit J Section 13 Grid 60°10' 122°15'
Latitude 60°02'44.0" Longitude 122°17'29.0"

Unique Well Identifier 300J136010122150

Universal Well Location Reference 60.04555°, 122.29138°

Elevation: Ground 1485 K.B. 1495 (est.) feet above sea-level.

Well is expected to produce from Slave Point formation at a depth of about 4688 feet. Expected total final depth 6150

Area assigned to well

(See Oil Conservation Engineer's map only)

Permit No. Lease No. 556-69 Acreage 4.796

Permitter, licensee, or leasee Canada Southern Petroleum Ltd.

Exploratory Licence No. 1695

Surface owned by Crown or Crown

(If allocated surface name and address of owner and company.)

Petroleum and natural-gas rights owned by Crown

We propose to use the following strings of casing, either cementing or landing them as indicated below:—

Casing Size O.D. (Inches)	Weight (Lb./Ft.)	Grade	New or Used	Estimated Depth	Scale of Cement
1. 9-5/8	36	K-55	New	630	260
2. 7	20	K-55	New	4750	200
3. Note: 7" casing to be run only in the event of production, severe lost circulation, or extreme high pressure.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment 900 series, 12" Hydril;
900 series, 12" double gate Shaeffer with blind rams and pipe rams;
900 series manifold; casing as above.

Well will be drilled with Rotary Rig No. 21E by Cascade Drilling Co. Ltd.
(Drilling Contractor or company)

Responsible agent of applicant:—

Contractor's Business Licence No. 788

At well D. L. Tufts

At registered office R. A. Mills

Address 59 Hendon Dr., Calgary

Address 631 - 7th Avenue S. W., Calgary 2

It is understood that if changes become necessary, notice of the change of plan will be submitted.

Dated at Calgary, Alberta

this 17

day of February 19 71

Signed by R. A. Mills

Company Union Gas Company of Canada Limited

Title Consulting Petroleum Engineer Operator's Licence No. 1810

(For Oil and Mineral Division use only)

APPROVED

This application has been examined and approved subject to the following conditions:—

1. Copies of this Drilling Authority shall be exhibited at the Drilling Rig in both the Doghouse and the Drilling Foreman's Office between spud and rig release dates.
2. The Company will submit to this office, on Tuesday of each week, the latest

Dated 16th February 19 71

Please see over page

Oil Conservation Engineer

Forms to be submitted to Oil Conservation Engineer,
Department of Indian Affairs and Northern Development, Calgary, Alberta.

reports received by radio on the progress of the well.

3. During well drilling and testing operations, every effort shall be made to ensure that drilling fluids, chemicals and wastes shall be disposed of or contained in a manner that will prevent the contamination of adjacent vegetation and surface or sub-surface waters.
4. We draw your attention to Sections 95 and 96 of the Canada Oil and Gas Land Regulations.
5. Surface casing must be set at least 75' into a competent formation.
6. All porosity, oil, gas or water encountered before the intermediate casing is set will have to be isolated or covered by cement.
7. Any additional strings of casing shall receive the approval of the Oil Conservation Engineer prior to running.

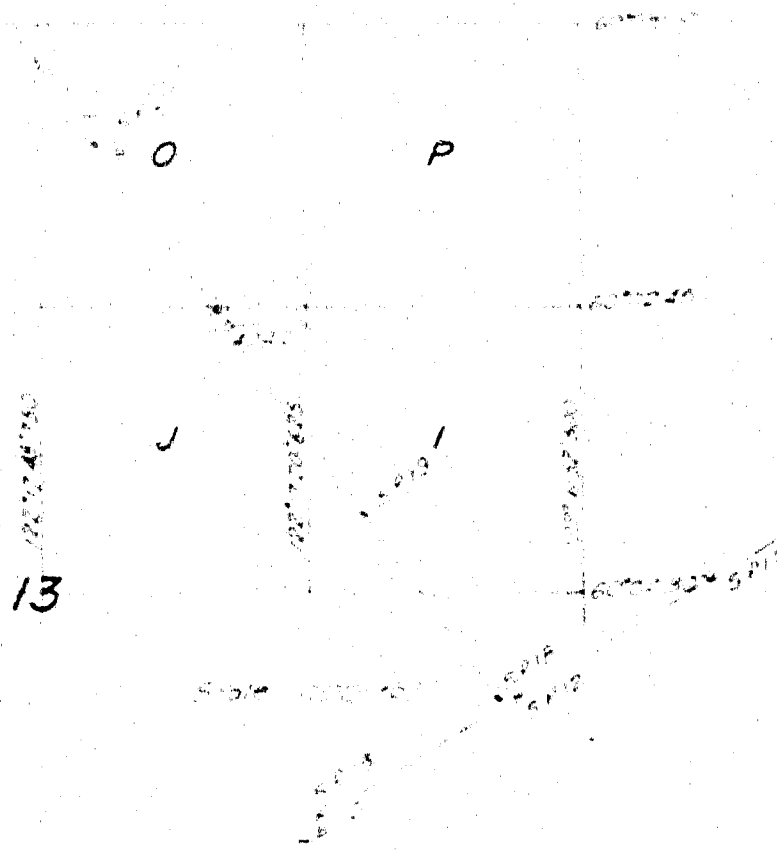

B.H.J. Thomas, Oil Conservation Engineer

UNGAS CSP ET AL S CELIBETA J-13

Unit J Sec. 13 Grid Area 60°10'; 122°15'

Lat. $60^{\circ}02'44".0$ Long. $122^{\circ}17'29".0$

NORTHWEST TERRITORIES



Certified Correct September 13, 1971

Wm Dabbs
Dominion and Alberta Land Surveyor
DABBS CONTROL SURVEYS LTD.

UNION GAS COMPANY
OF CANADA LIMITED

ELEVATION: 1485 - Ground at 5120 Lino 3

CO-ORDS: 1061 S. of NE Cor
4242 W. of NE Cor Unit J

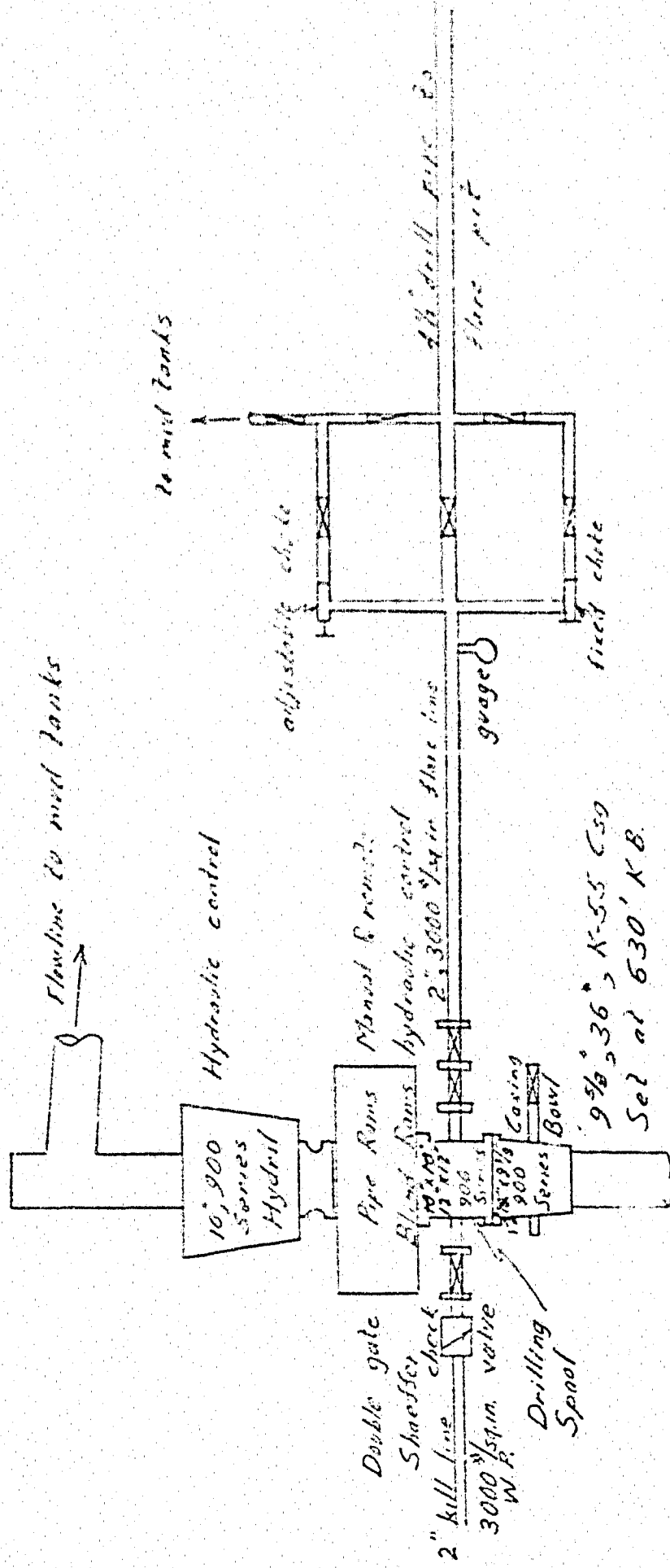
Well U-3 is 50' N of shot point 20
and 2500' N of the intersection
of Line 3 and Line 6

GEOLOGICAL PROGNOSIS

Ground elev.	1485' above sea level
K.B. elev.	1495' (est.)

Devonian top	1348' K.B.
Slave Point	4688'
Watt Mountain	4998'
Keg River	5888'
Chinchaga	6088'
T.D.	6138'





Un Gas CSP & al S. Calibeta J-13

RIG NO. 21 E

DRAWWORKS	Unit 20 drawworks grooved for 1 1/4" drilling line equipped with 22" double Parkersburg hydromatic brake, crown stopper and a Bear automatic drilling control, powered by a G. E. 752 R electric motor.	
POWER	Power supply consists of 2 sets twin G. M. C. 6-71 driving 2 GE 558-5 D. C. Generator and 2-D 343 Caterpillar engines rated at 350 H. P., driving two G. E. 558-5 D. C. generators. Rated H. P. available to drawworks for hoisting 1,250.	
MUD PUMPS - No. 1:	National G-700, 8 x 14, equipped with a Hydril K-20-3000 pulsation dampener, rated at 700 input H. P. unitized with one G. E. 752R electric motor.	
	No. 2:	National C-250, 7 1/4 x 15, rated at 370 input H. P. unitized with one G. E. 752 R electric motor.
DERRICK	Lee C. Moore 133'.	Capacity - 700,000#
SUB BASE	Lee C. Moore, step down type. Derrick section: 13' high, 26' wide, 32' long	
BLOWOUT PREVENTER EQUIPMENT	1 - GK 10-900 Hydril and 1 - 10-900 SS hydraulic Shaffer operated by an 80 gallon Hydril accumulator. Three-station manifold on rig floor and remote control to operate Hydril only in the accumulator house. There are also two nitrogen bottles and a Baker core pump in the accumulator house to operate the B. O. P. equipment in case of power failure.	
ROTARY TABLE	Unit Rig S-21-A, 21 x 53 1/4, equipped with split and solid type master bushings.	
TRAVELLING BLOCK	Oilwell 80.	Capacity - 350 tons.
HOOK	Web Wilson Hydra Hook	Capacity - 350 tons
SWIVEL	National N 815.	Capacity - 400 tons
SHALE SHAKER	Link belt NRM 134 double.	
LIGHT PLANTS	Caterpillar D-315, 30 K. W. I. H. C. WDBA, 20 K. W.	
MUL TANKS	3 - all steel.	Capacity - 640 barrels.
WATER TANKS	1 tank.	Capacity - 280 barrels
FUEL TANKS	1 tank	Capacity - 4,400 gallons
DRILL PIPE	5" 19.5# Grade E, 6 1/4" O. D. tool joints with 4 1/2" I. F. connections.	



Drilling Authority No.508.....

Date Issued... Feb. 16/71.....

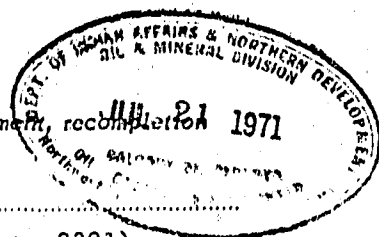
CANADA
DEPT. OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION

LAND 52-90 (2) 13-701

JAN 12 9 53 AM '72

WELL COMPLETION DATA

To be submitted in duplicate within thirty days after the completion, rework, abandonment, recompletion or suspension of every well.



Well name and number.....UnGas CSP et al S Celibeta J-13.....

Permit No. Lease No. 556-69 (Former 2301)

Canada Southern Pte. Ltd. Exploratory License No. 1695
(Permitter, Licensee, Lessee)

Union Gas Co. of Canada Ltd. (Operator) Exploratory Licence No. 1810

Location: Unit J Section 13 Grid 60°10', 122°15'

Latitude 60° 02' 44.0" Longitude 122° 17' 29.0"

Unique well identifier300J136010122150.....

Universal Well Location Reference..... Lat. 60.04555°N Long. 122.29138°W.....

	DATE	DEPTH
Spudded	Feb. 27/71	0
Suspended		
Resumed Operations		
Finished Drilling		
Deepened		
Complete (gas/oil)		
Abandoned	Mar. 18/71	6222
Rig released	Mar. 19/71	6222

Pool(s) None
 Interval(s) open to production None
 Elevation: Gr. 1485 K.B. 1503
 Rig No. 21E
 Drilling Contractor Cascade Drilling Co. Ltd.
 Contractor's Business Licence No. 788

CASING RECORD

Casing Size (Inches)	Grade	Weight	Amount	Set at -	Sacks of Cement and Additive
1. 9-5/8"	H40	32.3	626	626	260 + 2% CaCl ₂
2.					
3.					
4.					
5.					
6.					

GEOLOGICAL TOPS	ELEVATION		CORE RECORD					
	Depths	Sub-Sea	From	To	Rec.	From	To	Rec.
1st Dense LS	2053	- 550	NONE					
Spece	4555	- 3052						
Slave Point	4602	- 3099						
Watt Mtn.	5020	- 3517						
Elk Point	5032	- 3529						
Keg River	5960	- 4457						
Chinchaga	6170	- 4667	LOG RECORD					

LOG RECORD

Run No.	Type of Log	From	To
T.D.	Borehole Compensated Sonic	6226	6222
	Induction Electrical	626	6222

140-172

CEMENTING RECORD (Pump Squeeze, etc.)				PERFORATING RECORD (Bullet, Jet)				SERVICING RECORD (Acidizing, Fracing, etc.)			
Date	From	To	Remarks	Date	From	To	Remarks	Date	From	To	Remarks
March 18/71	6050	6222	Keg River/Chinchaga	NONE				NONE			
March 18/71	4485	4700	Slave Point								
March 18/71	570	700	Surface Casing Shoe								

DRILL STEM TESTS

No.	Date	Formation	From	To	V.O. Mins.	F.S.I. Mins.	F.S.I. Mins.	I.S.I.B.H.P.	F.S.I.B.H.P.	I.F.R.H.P.	F.F.R.H.P.	I.H.P.	F.H.P.	REMARKS
NONE														

ANALYSIS				PRESENT STATUS OF WELL			
Lab. No.	Sample	From	To	Source	Remarks	Oil	(Interval)
NONE							
						Gas	(Interval)
						Dry	Plugged & Abandoned
						Susp.	

Company Union Gas Company Canada Ltd.
 Signed by *[Signature]* **BLUM, BONNE AND ASSOCIATES ENGINEERING LTD**
 631 - 7th AVENUE S.W.
 Title Drilling Manager CALGARY 2, ALBERTA
 Date July 20/71
 Forms to be prepared in duplicate if forwarded to the Oil
 Conservation Engineer, Calgary, Alberta.

DAY WORK RECORD

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

LOCATION UNH45 RT AL CALIFORNIA DATE MARCH 19 1971

[illegible]

TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER *Large job - not done*

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

CASCADE DRILLING

Company Limited

DAILY DRILLING REPORT

CONSERVATION BOARD

DAY WORK RECORD

THIS IS _____ DAY ON THIS WELL

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 215 COMPANY Cascade Drilling Co. Ltd. LOCATION Hyman Lake, Alberta DATE 18 June 1951

Tour - Midnight - 8 a.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked							NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE	
DRILLER	Carl Cameron													
DERRICK	Line 4152													
MOTOR	Tracy Harrison													
FLOOR	George R. Pitt													
FLOOR	Deputy													
FLOOR														
FIREMAN														
EXTRA														
INJURIES:														
FIRES:														

Tour - 8 a.m. - 4 p.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked							NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE	
DRILLER	Frank Schmidt													
DERRICK	Line 4152													
MOTOR	Line 4152													
FLOOR	Line 4152													
FLOOR	Line 4152													
FLOOR	Line 4152													
FIREMAN														
EXTRA														
INJURIES:														
FIRES:														

Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked							NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE	
DRILLER	Earl Grant													
DERRICK	Line 4152													
MOTOR	Line 4152													
FLOOR	Line 4152													
FLOOR	Line 4152													
FLOOR	Line 4152													
FIREMAN														
EXTRA														
INJURIES:														
FIRES:														

REMARKS	TIME		
	START	STOP	INTERVAL
Heavy to Heavy Mud	12:00	12:30	1/2
Heavy to Heavy Mud	12:30	12:45	1/4
Heavy to Heavy Mud	12:45	1:00	1/4
Heavy to Heavy Mud	1:00	1:15	1/4
Heavy to Heavy Mud	1:15	1:30	1/4
Heavy to Heavy Mud	1:30	1:45	1/4
Heavy to Heavy Mud	1:45	2:00	1/4
Heavy to Heavy Mud	2:00	2:15	1/4
Heavy to Heavy Mud	2:15	2:30	1/4
Heavy to Heavy Mud	2:30	2:45	1/4
Heavy to Heavy Mud	2:45	3:00	1/4
Heavy to Heavy Mud	3:00	3:15	1/4
Heavy to Heavy Mud	3:15	3:30	1/4
Heavy to Heavy Mud	3:30	3:45	1/4
Heavy to Heavy Mud	3:45	4:00	1/4
Heavy to Heavy Mud	4:00	4:15	1/4
Heavy to Heavy Mud	4:15	4:30	1/4
Heavy to Heavy Mud	4:30	4:45	1/4
Heavy to Heavy Mud	4:45	5:00	1/4
Heavy to Heavy Mud	5:00	5:15	1/4
Heavy to Heavy Mud	5:15	5:30	1/4
Heavy to Heavy Mud	5:30	5:45	1/4
Heavy to Heavy Mud	5:45	6:00	1/4
Heavy to Heavy Mud	6:00	6:15	1/4
Heavy to Heavy Mud	6:15	6:30	1/4
Heavy to Heavy Mud	6:30	6:45	1/4
Heavy to Heavy Mud	6:45	7:00	1/4
Heavy to Heavy Mud	7:00	7:15	1/4
Heavy to Heavy Mud	7:15	7:30	1/4
Heavy to Heavy Mud	7:30	7:45	1/4
Heavy to Heavy Mud	7:45	8:00	1/4
Heavy to Heavy Mud	8:00	8:15	1/4
Heavy to Heavy Mud	8:15	8:30	1/4
Heavy to Heavy Mud	8:30	8:45	1/4
Heavy to Heavy Mud	8:45	9:00	1/4
Heavy to Heavy Mud	9:00	9:15	1/4
Heavy to Heavy Mud	9:15	9:30	1/4
Heavy to Heavy Mud	9:30	9:45	1/4
Heavy to Heavy Mud	9:45	10:00	1/4
Heavy to Heavy Mud	10:00	10:15	1/4
Heavy to Heavy Mud	10:15	10:30	1/4
Heavy to Heavy Mud	10:30	10:45	1/4
Heavy to Heavy Mud	10:45	11:00	1/4
Heavy to Heavy Mud	11:00	11:15	1/4
Heavy to Heavy Mud	11:15	11:30	1/4
Heavy to Heavy Mud	11:30	11:45	1/4
Heavy to Heavy Mud	11:45	12:00	1/4

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER _____

B.O.P. Test-Operated _____ Time _____ Results _____ TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

CASCADE DRILLING

Company Limited

DAILY DRILLING REPORT

CONSERVATION BOARD

DAY WORK RECORD

THIS IS 17 DAY ON THIS WELL

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 312 COMPANY Louisiana Drilling Co. Inc. LOCATION Indian Creek - Louisiana DATE 12 March 1971

Tour - Midnight - 8 a.m.
Specify Actual Hours Worked HRS.

DRILLER Don Connerly

DERRICK Lucy Hise

MOTOR Terrell Wilson

FLOOR Geary Ritz

FLOOR Al. H. H. H. H.

FLOOR Al. H. H. H. H.

FIREMAN

EXTRA

INJURIES

FIRES

Tour - 8 a.m. - 4 p.m.
Specify Actual Hours Worked HRS.

DRILLER Frank Schmitt

DERRICK Wayne Clayton

MOTOR Larry D. Miller

FLOOR Raymond H.

FLOOR Wayne Clayton

FLOOR

FIREMAN

EXTRA

INJURIES

FIRES

Tour - 4 p.m. - Midnight
Specify Actual Hours Worked HRS.

DRILLER Earl Pruitt

DERRICK Don Hankovich

MOTOR Sid Schoder

FLOOR Mike Sutowski

FLOOR Nelson Beck

FLOOR

FIREMAN

EXTRA

INJURIES

FIRES

FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS			
6955	22'	6007	6'4"	147M	19 6'2" 2 1/4"	2.14' GALS	HRS.	5"	28			
NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLD.	DEPTH IN	HRS.	DEPTH OUT	CONDITION	D. COLLARS
1	1 1/2"	RG7X5	3-14	4943	35	13	82	5955	6'4"			19 6'2" 2 1/4"
MUD												
12 MN. 2 A.M. 4 A.M. 6 A.M. ADDITIVES												
AT SURVEYS DEGREE												
MOTOR HOURS												
NEXT OIL CHANGE												
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
NO. 1 PRES-SURE												
MODEL S.P.M.												
LINER SIZE												
NO. 2 PRES-SURE												
MODEL S.P.M.												
LINER SIZE												
GENERAL												
W.L. 11 F.C. 7/2 PH. 1												

FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS			
6007	94'	6101	7 3/4"	14514	19 6'2" 2 1/4"			5"	60			
NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLD.	DEPTH IN	HRS.	DEPTH OUT	CONDITION	D. COLLARS
3	3 3/4"	RG7X5	3-14	4943	40	45	146	5955	14			19 6'2" 2 1/4"
MUD												
8 A.M. 10 A.M. 12 NOON 2 P.M. ADDITIVES												
AT SURVEYS DEGREE												
MOTOR HOURS												
NEXT OIL CHANGE												
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
NO. 1 PRES-SURE												
MODEL S.P.M.												
LINER SIZE												
NO. 2 PRES-SURE												
MODEL S.P.M.												
LINER SIZE												
GENERAL												
W.L. 9.8 F.C. 5/2 PH. 1												

FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS			
6101	67'	6168	7 3/4"	14514	19 6'2" 2 1/4"			5"	60			
NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLD.	DEPTH IN	HRS.	DEPTH OUT	CONDITION	D. COLLARS
8	8 3/4"	RG7X5	3-14	4943	40	45	213	5955	21 3/4"			19 6'2" 2 1/4"
MUD												
4 P.M. 6 P.M. 8 P.M. 10 P.M. ADDITIVES												
AT SURVEYS DEGREE												
MOTOR HOURS												
NEXT OIL CHANGE												
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
NO. 1 PRES-SURE												
MODEL S.P.M.												
LINER SIZE												
NO. 2 PRES-SURE												
MODEL S.P.M.												
LINER SIZE												
GENERAL												
W.L. 10 F.C. 2 1/2 PH. 4												

REMARKS	TIME		
	START	STOP	INTERVAL
Forward lat. 100' (100' - 100')	1:00	1:15	3/4
Ground lat. 100' (100' - 100')	1:15	1:30	1/4
Drone	1:30	1:45	1 3/4
Reel. Lat. 100' (100' - 100')			
on long. 100' (100' - 100')			1/4
Drone	1:45	2:00	1 1/2
			1/4
	</		

Company Limited

THIS IS 11 DAY ON THIS WELL

DAY WORK RECORD

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

LOCATION

DATE Jan 10 1971 19 71

Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL PIPE		STANDS		
Specify Actual Hours Worked	HRS.	5920 27		5955 212		145"		19	6 1/2	3 3/4		GALS.	8	HRS.	3"	SIZE	58
DRILLER	Fred Gault	8															
DERRICK	Don Dunkerich	8															
MOTOR	Sid Schuchter	5															
FLOOR	Mike Spitzowski	8															
FLOOR	Harold Beck	5															
FLOOR																	
FIREMAN																	
EXTRA																	
INJURIES:																	
FIRES:																	
		B	NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLD.	DEPTH IN	HRS.	DEPTH OUT	CONDITION	D. COLLARS		
		I	7	8 3/16	X 55 H	3-12	74753	36	40	550	5405	47	5955	9-1-1	14-54-4		
		T	8	8 3/16	R.F. 7X3	2-11	4943								OTHER FT.		
		S															
		MUD		4 P.M.	5 P.M.	6 P.M.	10 P.M.	ADDITIVES				AT SURVEYS DEGREE		MOTOR HOURS		NEXT OIL CHANGE	
		WEIGHT		7.7	9.7			6-AL-1000				5955		34	1	104	280
		VISCOSITY		6.5	6.8			6-AL-1000							2		
		GEL													3	96	17
		P	NO. 1	PRES-SURE	1175	1175										4	90
		U	MODEL	S.P.M.	60											5	104
		M	7-20	LINER SIZE	6 1/2			SIZE	TRIPS	NO. LINES	TON MILES	TOTAL MILES	SLIP	FEET OR	CUT	FEET LEFT ON SPOOL	NEXT SLIP
		P	NO. 2	PRES-SURE				1 1/2		8							
		S	MODEL	S.P.M.				GENERAL									
			7-20	LINER SIZE	5 1/2												
		W.L.		F.C.		pH.											

[illegible]

TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER 12.00

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

DAY WORK RECORD

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

DATE 12 March 1971

[illegible]

TOOLPUSHER

APPROVED 8

Company Limited

THIS IS 12 DAY ON THIS WELL

DAY WORK RECORD

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

LOCATION UNAS CSPTAL. SHELTON J-13 DATE 12 MARCH 19 71

Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL PIPE	STANDS				
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE	SINGLES				
DRILLER	<i>Frank Schmidt</i>	<i>5405</i>	<i>410</i>	<i>5445</i>	<i>3 3/4</i>	<i>137A</i>	<i>19</i>	<i>6 1/2</i>	<i>2 1/4</i>					<i>2</i>				
DERRICK	<i>Vladimir Grouse</i>	B	NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLO.	DEPTH IN	HRS.	DEPTH OUT	CONDITION				
MOTOR	<i>Larry Dorman</i>	I	<i>7</i>	<i>8 3/4</i>	<i>+55M</i>	<i>3/13</i>	<i>29753</i>	<i>30</i>	<i>114</i>	<i>40</i>	<i>5405</i>	<i>3 3/4</i>						
FLOOR	<i>Eric Craft</i>	T																
FLOOR	<i>Freddie Clark</i>	S																
FIREMAN			MUD				4 P.M.	6 P.M.	8 P.M.	10 P.M.	ADDITIVES		AT SURVEYS DEGREE	MOTOR HOURS	NEXT OIL CHANGE			
SAFETY			WEIGHT											1	<i>56</i>	<i>210</i>		
INJURIES:			VISCOSITY											2				
FIRES:			GEL											3	<i>48</i>	<i>210</i>		
		P	NO. 1	PRES-SURE			<i>1200</i>							4	<i>47</i>			
		U	MODEL	S.P.M.			<i>60</i>							5	<i>76</i>	<i>230</i>		
		M	<i>C-40</i>	LINER SIZE			<i>5.0</i>	SIZE	TRIPS	NO. LINES	TON MILES	TOTAL MILES	SLIP	FEET OR CUT	FEET LEFT ON SPOOL	NEXT SLIP		
		P	NO. 2	PRES-SURE			<i>1 1/2</i>		<i>8</i>									
		S	MODEL	S.P.M.				GENERAL										
			<i>C-35</i>	LINER SIZE														
			W.L. <i>116</i>				F.C. <i>2</i>				PH. <i>1</i>							

[illegible]

Totco Ring on Bit No. _____		D.P. Calipered Date _____	Results _____	From Pipe Rack _____	TOTAL CONTRACTOR TIME _____ HRS.	TOOLPUSHER _____
B.O.P. Test-Operated _____		Time _____	Results _____		TOTAL COMPANY TIME _____ HRS.	APPROVED BY _____

THIS IS 13 DAY ON THIS WELL

NOTE-Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 712-40 COMPANY Union Gas Co. TD.

LOCATION UNBMS CBR ETAL S/H/ARTN T-13 DATE 11 MARCH 1971

[illegible]

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

TOTAL CONTRACTOR TIME _____ HRS.

TOOL-PUSHER James J. [Signature]

B.O.P. Test-Operated	Time	Results
----------------------	------	---------

TOTAL COMPANY TIME _____ HRS.

APPROVED BY _____

Company Limited

DAILY DRILLING REPORT

CONSERVATION BOARD

DAY WORK RECORD

THIS IS 12 DAY ON THIS WELL

NOTE-Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 21E-40 COMPANY Indian Gas Co. LTD.

LOCATION UNCOM PROPTAL S. OF BETHTJ43 DATE 10 MARCH 1971

Tour - Midnight - 8 a.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS			FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE
DRILLER	Earl Gunt	8	4620	79	4707	7 1/2	128"	19	6 1/2	3 3/8		8	3"
DERRICK	Don Junkerlich	8											
MOTOR	Sid Schenker	8											
FLOOR	Vince Spithowski	8											
FLOOR	Noland Deck	8											
FLOOR													
FIREMAN													
EXTRA													
INJURIES:													
FIRES:													
B I T S													
MUD													
WEIGHT													
VISCOSITY													
GEL													
P U M P S													
W.L. 15 F.C. 1/2 PH. 8.0													
Tour - 8 a.m. - 4 p.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS			FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE
DRILLER	Don Pinner	1	4709	73	4780	7 1/4	127m	19	6 1/2	3 3/8		7	3"
DERRICK	Lyle Huff	1											
MOTOR	John Kelen	1											
FLOOR	Bobby Potts	1											
FLOOR	A. W. W. W.	1											
FLOOR													
FIREMAN													
EXTRA													
INJURIES:													
FIRES:													
B I T S													
MUD													
WEIGHT													
VISCOSITY													
GEL													
P U M P S													
W.L. F.C. PH.													
Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS			FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE
DRILLER	Frank Schmitt	9	4780	96	4876	7 3/4	130M	19	6 1/2	2 1/4			4 1/2
DERRICK	Walter Crawford	9											
MOTOR	Harry Doman	9											
FLOOR	Greg Gault	9											
FLOOR	Walter Stanton	9											
FLOOR													
FIREMAN													
EXTRA													
INJURIES:													
FIRES:													
B I T S													
MUD													
WEIGHT													
VISCOSITY													
GEL													
P U M P S													
W.L. 15 F.C. 3 PH. 4													

[illegible]

Total Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____

TOTAL CONTRACTOR TIME _____ HRS. TCOLPUSHER James J. J. J. J.
TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

Company Limited

THIS IS 11 DAY ON THIS WELL

DAY WORK RECORD

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 31E-4C COMPANY UNION GAS CO LTD LOCATION UNCAS CR. ET. AL CALIFORNIA TIRE DATE 9 MARCH 1971

Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL P.M.	STAND							
Specify Actual Hours Worked	HRS.	NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLD.	DEPTH IN	HRS.	DEPTH OUT	CO. NO.	STAND							
DRILLER	Frank Schmitt 4	5	4 1/4	XIG	3-13	30792	32	20	5.7	4075	25	4612	3-1-	14-544							
DERRICK	Walter Crandall 4	6	2 3/4	XSSR	3-13	29733	20	30	17	4612	3			OTHER FT.							
MOTOR	Harry Dorman 4						23	44						C.B. FT.							
FLOOR	Greg Smith 4	MUD										AT SURVEYS DEGREE	MOTOR HOURS	NEXT OIL CHANGE							
FLOOR	Walter Schmitt 4	WEIGHT										4612	3 1/4	1	264	270	SUBS. FT.				
FLOOR		VISCOSITY												2			SHOCK 9.3				
FIREMAN		GEL												3	120	170	FT. UP ON KELLY				
EXTRA		PUMP												4	136		22-66				
INJURIES:		NO. 1 PRES-SURE												5	244	200	TOTAL				
FIRES:		MODEL															14624				
		LINER SIZE										SIZE	TRIPS	NO. LINES	TC & MILES	TOTAL MILES	SLIP	FEET OR CUT	FEET LEFT ON SPOOL	NEXT SLIP	
		NO. 2 PRES-SURE																			
		MODEL										GENERAL									
		LINER SIZE																			
		W.L.										F.C.									
		P.H.																			

	REMARKS	TIME		
		START	STOP	INTERVAL
	Drilling w/ 5 m	12.00	12.30	1/2
	Rig SEND. 16.00. 4 Hody Cuck			
	SURVEY @ 4300	12.30	1.00	1/2
	Drilling w/ 12 m	1.00	3.30	2 1/2
	SURVEY @ 4363	3.30	4.00	1/2
	Drilling w/ 10 m.	4.00	6.45	2 3/4
	SURVEY @ 4423	6.45	7.15	1/2
	Drilling w/ 12 m	7.15	8.00	3/4
	Drill	8.00	9.45	1 3/4
	Comm. Survey Send Rig	9.45		
	Rigs - Hody Cuck		10.15	1/2
	Drill	10.15	12.15	2
	Survey @ 4545	12.15	13.45	1 1/2
	Drill	13.45	2.15	2 1/2
	SURVEY @ 4606 MISSRND	2.15	3.45	1 1/2
	Drill	3.45	4.00	1/4
	Drill 8 3/4 hole	400	430	1/2
	Be sample 187 feet	430	530	1
	LIST Log 00 m	530		
	BTM hole dr. pick up			
	Shook 54A changer		730	2
	Run in hole	730	845	1 1/4
	Arrest C.R.	845	900	1/4
	Drill	900	1200	3

TOOLPUSHER [Signature]

APPROVED BY _____

DAY WORK RECORD

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

THIS IS 9 DAY ON THIS WELL

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 315-40 COMPANY United Engr. Co., Ltd.

LOCATION DAVID C. FOSTAL COLLEGE T-12 DATE 7 MARCH 1971

Tour - Midnight - 8 a.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL PIPE	STANDS			
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE	35 SINGLES			
DRILLER <i>EARL GAUNT</i>	8	3696	127	3813	6	104.1	20	14.125	5.71								
DERRICK <i>DON HINNEMANN</i>	8	BITS	NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DR.LD.	DEPTH IN	HRS.	DEPTH OUT	CONDITION	D. COLLARS		
MOTOR <i>SID SCHACKE</i>	12		4	8 3/4	X 1 1/2	3-13	30790	17	100	426	3387	19 1/4			20 - 872.92		
FLOOR <i>WILSON SPITKOWSKI</i>	8								8	100			19 1/4			OTHER FT.	
FLOOR <i>NEILSEN DECK</i>	12														C.B. FT.		
FIREMAN		MUD	12 MN.	2 A.M.	4 A.M.	6 A.M.	ADDITIVES				AT SURVEYS DEGREE		MOTOR HOURS		NEXT OIL CHANGE		
EXTRA		WEIGHT			8.9	8.4	5500 #				3717	2 1/2	1	200	150	SUBS. FT.	
INJURIES:		VISCOSITY			60	60	22 #				3780	2 1/4	2			FT. UP ON KELLY	
FIRES:		GEL											3	57	110	TOTAL	
		PUMPS	NO. 1	PRES-SURE	1700	1700	1710	1700					4	72		26	
			MODEL	S.P.M.	60	60	60					5	24 1/2	750	3813.		
			NO. 2	PRES-SURE													
			NO. 1	PRES-SURE					SIZE	TRIPS	NO. LINES	TON MILES	TOTAL MILES	SLIP	FEET OR CUT	FEET LEFT ON SPOOL	NEXT SLIP
			MODEL	S.P.M.													
			NO. 2	PRES-SURE													
			MODEL	S.P.M.													
			NO. 1	PRES-SURE													
			MODEL	S.P.M.													
			NO. 2	PRES-SURE													
			MODEL	S.P.M.													
			NO. 1	PRES-SURE													
			MODEL	S.P.M.													
			NO. 2	PRES-SURE													
			MODEL	S.P.M.													
			NO. 1	PRES-SURE													
			MODEL	S.P.M.													
			NO. 2	PRES-SURE													
			MODEL	S.P.M.													
			NO. 1	PRES-SURE													
			MODEL	S.P.M.													
			NO. 2	PRES-SURE													
			MODEL	S.P.M.													
			NO. 1	PRES-SURE													
			MODEL	S.P.M.													
			NO. 2	PRES-SURE													
			MODEL	S.P.M.													
			NO. 1	PRES-SURE													
			MODEL	S.P.M.													
			NO. 2	PRES-SURE													
			MODEL	S.P.M.													
			NO. 1	PRES-SURE													
			MODEL	S.P.M.													
			NO. 2	PRES-SURE													
			MODEL	S.P.M.													
			NO														

Tour - 8 a.m. - 4 p.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE	SINGLES
DRILLER		4112	109	39	7 1/4	101	10	6 1/2	2 3/4					
DERRICK														
MOTOR														
FLOOR														
FLOOR														
FLOOR														
FIREMAN														
EXTRA														
INJURIES:														
FIRES:														

BITS	NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLD.	DEPTH IN	HRS.	DEPTH OUT	CONDITION	D. COLLARS
	4	7 1/4	2-13	X16	40001	11	106	735	3297	256			ROCK
													OTHER FT.
													C.B. FT.

MUD	8 A.M.	10 A.M.	12 NOON	2 P.M.	ADDITIVES	AT SURVEYS DEGREE	MOTOR HOURS	NEXT OIL CHANGE	SUBS. FT.
WEIGHT	1.9	2.9	2.9	2.9	1.0 - 20 - 2	2741	2 3/4	1	200
VISCOSITY	60	62	66	70	1.0 - 12 - 2	2901	2 3/4	2	
GEL								3	64
								4	10
								5	200

PUMPS	NO. 1	PRES-SURE	1150	1250	1250	1250												
	MODEL	S.P.M.	60	60	60	60												
		LINER SIZE	2 1/2	X 12			SIZE	TRIPS	NO. LINES	TON MILES	TOTAL MILES	SLIP	FEET OR	CUT	FEET LEFT ON SPOOL	NEXT SLIP		
	NO. 2	PRES-SURE																
	MODEL	S.P.M.					GENERAL											
		LINER SIZE																

W.L.	F.C.	pH.

Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL PIPE	STANDS	
Specify Actual Hours Worked	HRS.							NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE	STANDS
DRILLER		2922	95	4017	4 1/2	107	120	6 1/2	2 1/4						29
DERRICK															SINGLES
MOTOR															D. COLLARS
FLOOR															OTHER FT.
FLOOR															C.B. FT.
FLOOR															SUBS. FT.
FLOOR															FT. UP ON KELLY
FIREMAN															TOTAL
EXTRA															
INJURIES:															
FIRES:															

[illegible]

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____

[illegible]

TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER [Signature]

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

DAY WORK RECORD

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

100

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
B.O.P. Test-Operated _____ Time _____ Results _____

TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER James J. L. [Signature]
TOTAL COMPANY TIME _____ HRS. APPROVED BY [Signature]

DAY WORK RECORD

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

FIRES: _____

[illegible]

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

CASCADE DRILLING

Company Limited

DAILY DRILLING REPORT

CONSERVATION BOARD

DAY WORK RECORD

THIS IS 6 DAY ON THIS WELL

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 21E-14 COMPANY CASCADIA PETROL

LOCATION COLUMBIA T 13

DATE March 9 1971

Tour - Midnight - 8 a.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked		2255	2422	2497	6 1/4	9000	19 1/2 2 1/4			5 1/2	20 SINGLES
DRILLER	FRANK SCHWARTZ										
DERRICK	W. H. HARRIS										
MOTOR	Harry Ramsey										
FLOOR	Ray G. R. R.										
FLOOR	Barrie Clayton										
FLOOR											
FIREMAN											
EXTRA											
INJURIES:											
FIRES:											

Tour - 8 a.m. - 4 p.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked		2497	133	2630	3 1/4	90	19 1/2 2 1/4		8	5	22 SINGLES
DRILLER	Earl Gault										
DERRICK	Don Hankewich										
MOTOR	Sid Schofield										
FLOOR	Walter S. H. H.										
FLOOR	Nelson Dean										
FLOOR											
FIREMAN											
EXTRA											
INJURIES:											
FIRES:											

Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked		2630	333	2963	6 1/4	9101	19 1/2 2 1/4			5 1/2	26 SINGLES
DRILLER	Earl Gault										
DERRICK	W. H. HARRIS										
MOTOR	Harry Ramsey										
FLOOR	Ray G. R. R.										
FLOOR	Barrie Clayton										
FLOOR											
FIREMAN											
EXTRA											
INJURIES:											
FIRES:											

REMARKS	START	STOP	INTERVAL
Mix mud for lost circulation	1200	100	1
Drill 9 3/4" hole	100	200	1
Big service survey	200	230	1/2
Drill	230	490	2
Survey	430	445	1/4
Drill	445	600	13/4
Survey	600	615	1/4
Drill	615	7 1/2	1 1/2
Survey	7 1/2	7 1/2	1/4
Survey	7 1/2	8 1/2	1/4
Big service - 6.0. R. + Kelly back	8 1/2	8 30	1/4
Drilling	8 30	10 45	2 1/4
Drop survey	10 45	11 00	1/4
Wait for bit	11 00	12 30	1 1/2
Check fluid loss & change bit	12 30	12 45	1/4
Run in hole	12 45	2 15	1 1/2
Break core clean 15' F. 11	2 15	2 45	1/2
Drilling	2 45	4 00	1 1/4
Drill	4 00	4 45	3/4
Survey - 6.0. R. + Kelly back	4 45	5 15	1/2
Drill	5 15	6 30	1 1/4
Survey @ 3971	6 30	6 45	1/4
Drill	6 45	9 15	1 1/2
Survey @ 3971	9 15	9 30	1/4
Drill	9 30	10 15	1 3/4
Survey @ 3971	10 15	10 30	1/4
Drill	10 30	12 00	1 1/2

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER _____
 B.O.P. Test-Operated _____ Time _____ Results _____ TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

CASCADE DRILLING

Company Limited

DAILY DRILLING REPORT

CONSERVATION BOARD

DAY WORK RECORD

THIS IS 5 DAY ON THIS WELL

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 31E 40 COMPANY 41625 CSP ETAL LOCATION COLLIERIA 1-13 DATE March 3 1971

Tour - Midnight - 8 a.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS			FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked							NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE
DRILLER	1374	367	1701	5 1/4	8011	1965	2 1/2						
DERRICK													
MOTOR													
FLOOR													
FLOOR													
FIREMAN													
EXTRA													
INJURIES													
FIRES													

Tour - 8 a.m. - 4 p.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS			FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked							NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE
DRILLER	1701	427	2123	6 3/4	824	1961 1/2	2 1/2						
DERRICK													
MOTOR													
FLOOR													
FLOOR													
FIREMAN													
EXTRA													
INJURIES													
FIRES													

Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS			FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked							NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE
DRILLER	2123	132	2225	5 3/4	7711	1961 1/2	2 1/2						
DERRICK													
MOTOR													
FLOOR													
FLOOR													
FIREMAN													
EXTRA													
INJURIES													
FIRES													

REMARKS	START	STOP	INTERVAL
Drill 2 1/4 hole	1200	100	1
Rig service OK BOPS	100	115	1/4
Service hoist	115	200	3/4
Change bit	200	215	1/2
Run in hole	215	245	1/2
Drill	245	400	1 1/4
Service	400	415	1/4
Drill	415	530	1 1/4
Service	530	545	1/4
Drill	545	630	3/4
Service	630	645	1/4
Drill	645	705	1
Service	705	700	1/4
Service Rig & Service Hoist	800	805	1/4
Drilling	805	1015	2
Survey	1015	1030	1/4
Drilling	1030	1040	1/4
Survey	1040	1200	1 1/4
Drilling	1200	1215	1/4
Survey	1215	1230	1/4
Drilling	1230	300	1 1/2
Survey	300	315	1/4
Drilling	315	400	3/4
Drill	400	505	1 1/4
Service Rig & BOPS	505	530	1/4
Drill	530	700	3
Service @ 700	700	715	1/4
Drill	715	1015	1 1/2
Service	1015	1030	1/4

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER Joe. Johnson

B.O.P. Test-Operated _____ Time _____ Results _____ TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

CASCADE DRILLING

Company Limited

DAILY DRILLING REPORT

CONSERVATION BOARD

DAY WORK RECORD

THIS IS 4 DAY ON THIS WELL

NOTE-Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 2140 COMPANY CASCADE CSP ETAL LOCATION CALIBATA 1-13 DATE March 9 1971

Tour - Midnight - 8 a.m.

Specify Actual Hours Worked HRS.

DRILLER Frank Schmitt 8

DERRICK Walter Schmitt 8

MOTOR Walter Schmitt 8

FLOOR Greg Gamm 8

FLOOR Walter Schmitt 8

FLOOR

FIREMAN

EXTRA

INJURIES:

FIRES:

FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS		
					NO. O.D. I.D. WGT.	GALS.	HRS.	SIZE			
626											
NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLO.	DEPTH IN	HRS.	DEPTH OUT	CONDITION
1	2 3/4	XDU	3/13	30722							
MUD				ADDITIVES				AT SURVEYS DEGREE		MOTOR HOURS	
WEIGHT											
VISCOSITY											
GEL											
PUMP											
NO. 1 PRES-SURE											
MODEL S.P.M.											
NO. 2 PRES-SURE											
MODEL S.P.M.											
GENERAL											
W.L.				F.C.				PH.			

REMARKS	START	STOP	INTERVAL
WIPPERING UP ROPE	1200	200	2
PREV. LAST RIGGING RIG	200		
10 1500 PSI O.K.		230	1/2
Rail in hole low	230		
DOUBLE PIPE		400	1 1/2
READ TEST HYDRAULIC	400		
PIPE RIGS 1500 PSI			
WORK OIL ALLEGATION			
PUMP		800	4

Tour - 8 a.m. - 4 p.m.

Specify Actual Hours Worked HRS.

DRILLER Earl Gault 8

DERRICK Don Hankewich 5

MOTOR Sid Schaefer 8

FLOOR Vince Spithowski 8

FLOOR Nelson Deck 8

FLOOR

FIREMAN

EXTRA

INJURIES:

FIRES:

FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS		
					NO. O.D. I.D. WGT.	GALS.	HRS.	SIZE			
626	440	1065	4	62 M	19 6 1/2 27 1/2		3	5"	5		
NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLO.	DEPTH IN	HRS.	DEPTH OUT	CONDITION
1	2 3/4	XDU	3-13	30722	25	100	440	626	4		
MUD				ADDITIVES				AT SURVEYS DEGREE		MOTOR HOURS	
WEIGHT				83 8.3				750 1/2		1 88 280	
VISCOSITY				28 28				900 715		2 142 170	
GEL								1055 2'		4 142 170	
PUMP										5 130 280	
NO. 1 PRES-SURE				950 950 950				SANDUST 100 FINE 5 DAY		TOTAL 1066.	
MODEL S.P.M.				65 65						NEXT SLIP	
NO. 2 PRES-SURE				10 1/2				180		8	
MODEL S.P.M.											
GENERAL											
W.L.				F.C.				PH.			

REMARKS	START	STOP	INTERVAL
LAY DOWN 3 SINGLES	8		
KICK UP 2 DRILL COLLARS	9.15	1 1/4	
DRILL CUT	9.15	11.00	1 3/4
DRILL 8 3/4 HOLES	11.00	12.15	1 1/4
SURVEY @ 750	12.15	12.30	1/4
DRILLING	12.30	2.00	1 1/2
SURVEY @ 900	2.00	2.30	1/2
DRILLING	2.30	3.30	1
SURVEY @ 1055	3.30	3.45	1/4
DRILLING	3.15	4.00	1/4

Tour - 4 p.m. - Midnight

Specify Actual Hours Worked HRS.

DRILLER Earl Gault 1

DERRICK Earl Gault 1

MOTOR Earl Gault 1

FLOOR Earl Gault 1

FLOOR Earl Gault 1

FLOOR

FIREMAN

EXTRA

INJURIES:

FIRES:

FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS		
					NO. O.D. I.D. WGT.	GALS.	HRS.	SIZE			
1065	269	1334	7 1/4	72 M	19 6 1/2 27 1/4				7		
NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLO.	DEPTH IN	HRS.	DEPTH OUT	CONDITION
1	2 3/4	XDU	2-13	30722	6 M	120	710	626	18 1/4		OK
MUD				ADDITIVES				AT SURVEYS DEGREE		MOTOR HOURS	
WEIGHT				74				1148 2'		1 76 280	
VISCOSITY				27				1200 1 1/4		2 150 170	
GEL										3 150 170	
PUMP										4 150 170	
NO. 1 PRES-SURE				1000 1000 1000				BICARB - 100"		5 150 170	
MODEL S.P.M.				62						TOTAL 1234	
NO. 2 PRES-SURE										NEXT SLIP	
MODEL S.P.M.											
GENERAL											
W.L.				F.C.				PH.			

REMARKS	START	STOP	INTERVAL
DRILL	4.00	5.00	1 1/2
SURVEY @ 1148	5.00	5.45	1/4
DRILL 6"	5.45	6.15	2 1/2
SURVEY @ 1210	6.15	7.00	1/4
DRILL 6"	7.00	10.00	2 1/4
SURVEY @ 1252	10.00	11.00	1/4
DRILL 2' 4.15 M	11.00	12.00	1

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER Earl Gault

B.O.P. Test-Operated _____ Time _____ Results _____ TOTAL COMPANY TIME _____ HRS. APPROVED BY _____

CASCADE DRILLING

Company Limited

DAILY DRILLING REPORT

CONSERVATION BOARD

DAY WORK RECORD

THIS IS 3 DAY ON THIS WELL

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 21E-40 COMPANY UNGAS CSP ETAL LOCATION CELICATA T-13 DATE MARCH 1 1971

Tour - Midnight - 8 a.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE	
DRILLER <u>Frank Schmitt</u>	<u>8</u>													
DERRICK <u>Wagner</u>	<u>8</u>													
MOTOR <u>Long</u>	<u>8</u>													
FLOOR <u>Long</u>	<u>8</u>													
FLOOR <u>Long</u>	<u>8</u>													
FIREMAN														
EXTRA														
INJURIES:														
FIRES:														
Tour - 8 a.m. - 4 p.m.		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE	
DRILLER <u>Earl Gault</u>	<u>8</u>													
DERRICK <u>Don Hankewich</u>	<u>8</u>													
MOTOR <u>Sid Schenker</u>	<u>8</u>													
FLOOR <u>Vince Silitkowski</u>	<u>8</u>													
FLOOR <u>Nelson Dec K</u>	<u>8</u>													
FLOOR														
FIREMAN														
EXTRA														
INJURIES:														
FIRES:														
Tour - 4 p.m. - Midnight		FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS				FUEL	BOILER	DRILL PIPE	STANDS
Specify Actual Hours Worked	HRS.						NO.	O.D.	I.D.	WGT.	GALS.	HRS.	SIZE	
DRILLER <u>Cal Carney</u>	<u>8</u>													
DERRICK <u>Wife HOFF</u>	<u>8</u>													
MOTOR <u>Tom Haddock</u>	<u>8</u>													
FLOOR <u>Barry Barry</u>	<u>8</u>													
FLOOR <u>Al Matovink</u>	<u>8</u>													
FLOOR														
FIREMAN														
EXTRA														
INJURIES:														
FIRES:														

REMARKS	TIME		
	START	STOP	INTERVAL
Running csg. wire all	12.00		
To top of bottom		2.00	2
Wire prior cementing	2.00	2.30	1/2
Cement & pump plug	2.30	3.00	1
W.O.C.	3.00	3.00	4 1/2
W.O.C.	8	4	8
Cut and 2 1/2" Finnish collar			
Long flare lines			
Digging ditches			
Clean up back valves			
Get. For heading up			
Wait for welder	4.00	6.00	2
Cut 7" csg. off			
Weld on 56 bowl	6.00	8.30	2 1/2
Heading up	9.30	12.00	3 1/2

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____
 B.O.P. Test-Operated _____ Time _____ Results _____

TOTAL CONTRACTOR TIME _____ HRS.
 TOTAL COMPANY TIME _____ HRS.

TOOLPUSHER Joe. J. J. J.
 APPROVED BY J. J. J.

CASCADE DRILLING

Company Limited

DAILY DRILLING REPORT

CONSERVATION BOARD

DAY WORK RECORD

THIS IS 2 DAY ON THIS WELL

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 21E-40 COMPANY UN GAS CSP ET AL LOCATION CELIRETA T-13 DATE FEB 27 1971

Tour - Midnight - 8 a.m.

Specify Actual Hours Worked HRS.

DRILLER FRANK SCHMIDT

DERRICK WILSON

MOTOR WILSON

FLOOR WILSON

FLOOR WILSON

FLOOR WILSON

FIREMAN

EXTRA

INJURIES:

FIRES:

FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS			
155	425	590	7	60A	12 1/2 2 1/2 3 1/4				1			
NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLD.	DEPTH IN	HRS.	DEPTH OUT	CONDITION	D. COLLARS
1A	12 1/4	XT 3A		26974	180	120	590	11				14 395.69
MUD												
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
NO. 1 PRES. SURE												
NO. 2 PRES. SURE												
GENERAL												
W.L. F.C. pH.												

REMARKS	START	STOP	INTERVAL
Drill 12 1/4 hole	1200	100	1
Rig Service 5490	100	115	1/2
Drill 12 1/4 hole	115	245	1 1/2
5490	245	300	1/2
Drill	300	500	2
5490	500	515	1/4
Drill	515	615	1
5490	615	630	1/4
Drill	630	820	1 1/2

Tour - 8 a.m. - 4 p.m.

Specify Actual Hours Worked HRS.

DRILLER FRANK SCHMIDT

DERRICK WILSON

MOTOR WILSON

FLOOR WILSON

FLOOR WILSON

FLOOR WILSON

FIREMAN

EXTRA

INJURIES:

FIRES:

FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS			
580	16	596	1 1/2	60A	12 1/2 2 1/2 3 1/4				2			
NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLD.	DEPTH IN	HRS.	DEPTH OUT	CONDITION	D. COLLARS
1A	12 1/4	XT 3A	2 1/2 1/16	26974	180	120	596	0	1 1/2	596	288	14 395.69
MUD												
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
NO. 1 PRES. SURE												
NO. 2 PRES. SURE												
GENERAL												
W.L. F.C. pH.												

REMARKS	START	STOP	INTERVAL
Drilling 12 1/4 hole.	8.00	8.80	7/8
Survey	8.80	8.45	1/4
Hoist (Dummy Trip Strap)	8.45	10.45	2
Ream + Clean to Bottom	10.45	11.15	1/2
Circ + W.O. Magnet. Cond Mur	11.15	12.30	1 1/4
Hoist For Magnet.	12.30	1.15	3/4
W.O. Magnet	1.15	1.45	1/2
Run in w/ Magnet. Junk	1.15	2.45	1
Circ over cone	2.45	3.15	1/2
Hoist + Recovered Cone.	3.15	4.00	3/4

Tour - 4 p.m. - Midnight

Specify Actual Hours Worked HRS.

DRILLER FRANK SCHMIDT

DERRICK WILSON

MOTOR WILSON

FLOOR WILSON

FLOOR WILSON

FLOOR WILSON

FIREMAN

EXTRA

INJURIES:

FIRES:

FROM	FOOTAGE	TO	HRS. ON BOTTOM	WT. DRILL STRING (1000 LBS.)	DRILL COLLARS	FUEL	BOILER	DRILL PIPE	STANDS			
596	30	626	1 1/2	60A	12 1/2 2 1/2 3 1/4				2			
NO.	SIZE	TYPE	SIZE JETS	SERIAL NO.	WEIGHT	R.P.M.	FT. DRLD.	DEPTH IN	HRS.	DEPTH OUT	CONDITION	D. COLLARS
1A	12 1/4	XT 3A	2 1/2 1/16	26974	180	120	626	1 1/2		626	2-2-1	14
MUD												
WEIGHT												
VISCOSITY												
GEL												
PUMPS												
NO. 1 PRES. SURE												
NO. 2 PRES. SURE												
GENERAL												
W.L. F.C. pH.												

REMARKS	START	STOP	INTERVAL
Ream + Clean to Bottom	4.00	4.30	1/2
Drill 12 1/4 hole	4.30	5.00	1/2
Hoist	5.00	5.30	1/2
Ream + Clean to Bottom	5.30	6.00	1/2
Drill 12 1/4 hole	6.00	6.30	1/2
Hoist	6.30	6.45	1/4
Ream + Clean to Bottom	6.45	7.15	3/4
Drill 12 1/4 hole	7.15	7.45	1/2
Hoist	7.45	7.55	1/4

Totco Ring on Bit No. _____ D.P. Calipered Date _____ Results _____ From Pipe Rack _____ TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER WILSON

B.O.P. Test-Operated _____ Time _____ Results _____ TOTAL COMPANY TIME _____ HRS. APPROVED BY WILSON

Company Limited

CONSERVATION BOARD

DAY WORK RECORD

NOTE - Please show FOOTAGE made while "Control Drilling" as well as HOURS.

RIG No. 21 E-40 COMPANY UNGA AS CSP et al LOCATION Calibeta J-13 DATE Feb 27 19 71

[illegible]

TOTAL CONTRACTOR TIME _____ HRS. TOOLPUSHER W. J. [Signature]

TOTAL COMPANY TIME _____ HRS. APPROVED BY _____