

To be submitted in duplicate within thirty days after the completion, rework, abandonment, recompletion or suspension of every well.
À présenter en double dans les trente jours suivant l'achèvement, le remaniement, l'abandon et le reconditionnement de chaque puits.

Well Name & No. — Nom et n° du puits

PACIFIC HB N TATHLINA I-72A

Permit No. — N° de permis

4139

(Permittee, Licensee, Lessee) — (Détenant de permis ou de licence, du concessionnaire)

Hudson's Bay Oil & Gas Company

Exploratory Licence No. — N° de licence de sondage

2012

(Operator) — (Exécutant)

Pacific Petroleum Ltd.

Exploratory Licence No. — N° de licence de sondage

2008

LOCATION — EMPLACEMENT

Unit — Unité

Section

Grid — Étendue quadrillée

Latitude

Longitude

I

72

60-30-118-00

60°21'30.5" N.

118°13'17" W.

Unique Well Identifier — Code d'ordinateur

Universal Well Location Reference — Références universelles d'emplacement du puits

3021726030118000

Lat. 60.35847° N., Long. 118.22139° W.

	Date	Depth — Profondeur	Pool(s) Gisement(s)
Spudded Début des travaux	Feb. 12/74		
Suspended Suspension des travaux			Interval(s) Open to Production Intervalle(s) de production
Resumed Operations Reprise des travaux			
Finished Drilling Forage terminé	Feb. 28	4275 — Driller 4279 — Logger	
Deepened Approfondissement			
Complete (Gas/Oil) Achèvement (Gaz/Pétrole)			Elevation: Gr. 1110.6 K.B. 1125.0 Altitude du sol du carré d'entraînement
Abandoned Abandon	Mar. 5	4275	Rig No. 1 Drilling Contractor Jomax N° de la tour de forage Entrepreneur en forage
Rig Released Fin des travaux	Mar. 5	4275	Contractor's Business Licence No. ET-1624 N° du permis de l'entrepreneur

CASING RECORD — TUBAGE

Casing Size (Inches) Diamètre (en pouces)	Grade Qualité	Weight Poids	Amount Longueur	Set at — Fixation à	Sacks of Cement and Additives Sacs de ciment et d'additifs
1. 9 5/8"	K-S	32.3	483.20	480 K.B.	400 + 2% CaCl ₂
2.					
3.					
4.					
5.					
6.					

Geological Tops Sommet des formations	Log Elevation — Profondeur		Core Record — Carottes					
	Depths Sous le niveau du sol	Sub-Sea Sous le niveau de la mer	From — de	To — à	Rec. Recupérées	From — de	To — à	Rec. Recup.
Jean Marie	1520	- 395	NIL.					
Muskwa	3440	-2315						
Slave Point	3634	-2509						
Watt Mountain	3818	-2693						
Sulphur Point	3830	-2705						
Elk Point Dolo.	3901	-2776						
Keg River Dolo.	4024	-2899						
Keg River LS	4105	-2980	Log Record — Diagrammes					
Chinchaga	4206	-3081	Run Série	Type of Log Genre de diagramme	From — De	To — À		
			*1	Formation Density	3000	4278(4264)		
			1	Dual Induction	442	4273		
			1	Borehole Compensated	442	4269		
			*1	Compensated Neutron	3000	4264		
			*	These 2 logs combined				

[illegible]

DRILL STEM TESTS - ESSAIS AUX TIGES

No. —	Date	Formation	From — de	To — à	V.O. Mins. Verns ouverts (minutes)	I.S.I. Mins. Première observation (minutes)	F.S.I. Mins. Observation définitive (minutes)	I.S.I.B.H.P. Pression de fond à l'obturation à la 1 ^{re} observation	F.S.I.B.H.P. Pression de fond à l'écoulement définitif	I.F.B.H.P. Pression de fond au jaillissement	F.F.B.H.P. Pression de fond à l'écoulement définitif	L.H.P. Pression hydrostatique de début	F.H.P. Pression hydrostatique définitif	Remarques — Remarques
1	Mar. 1	Chinchaga	4200	4275	59	60	56	1774	1749	356	881	2060	1955	FAB on PF, remaining steady WAB on flow period, dec. to nil in 20 min. Rec'd 180' gas cut mud, 1815' salt water (107,700 ppm).
2	Mar. 1	Elk Point	3910	3990	61	57	59	1602	1560	540	1478	1963	1969	FAB on PF, WAB on flow, dec nil in 45 min. Rec'd 3305' (98,200 ppm).
3	Mar. 3	Slave Point	3636	3666										MISRUN—unable to rotate too
4	Mar. 3	Slave Point	3636	3666	60	54	58	134	71	72	72	1916	1760	WAB on PF, no blow on flow period. Rec'd 2' dr'lg. mud

ANALYSIS - ANALYSE

Lab. No. N° de laboratoire	Sample Échantillon	From - de	To - à	Source	Remarks - Remarques	Oil Huile	(Interval)/(Intervalle)
E74-356-3	Water	3910	3990	DST #2			
E74-355-3	Water	4200	4275	DST #1			
						Dry Sec	X
						Susp. Travaux sus.	

Company ~~Pacific Petroleum Ltd.~~
Société

Signed by _____
Signed per _____

Frontier Operations Manager

April 2, 1974

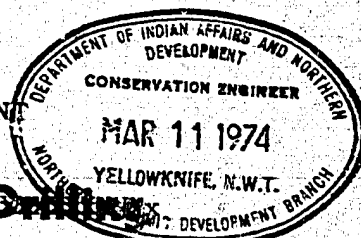
Forms to be prepared in duplicate and forwarded to the District Conservation Engineer.

présenter les formules remplies à l'industriel en conservation du district.



Drilling Authority No. 747

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, to suspend drilling:—

Name and number of well PACIFIC HB TATHLINA I-72A

Location: Unit I Section 72 Grid 60-30-118-0°

Latitude 60°21'305" N. Longitude 118°13'17" W.

From Established Reference Marker

Universal Well Location Reference Lat. 60.35847° N., Long. 118.22139° W.

Permit No. 4139

Lease No.

Hudson's Bay Oil & Gas Company
(Permittee, Licencee, Lessee)

Date of commencement of proposed program March 4, 1974

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at Nil.

Gas at Nil.

Water at 4200-75, 3910-90

Total Depth 4275 Date of last operations March 4, 1974

Present condition of well Waiting on abandonment.

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 9 5/8"	32.3	483.20	480 K.B.	414 + 2% CaCl ₂	Nil.
2.					
3.					
4.					
5.					

PROPOSED ABANDONMENT PROGRAM

Plug		Geological Formation	Number of Sacks of Cement	Remarks
No.	Position			
1	3768-4275	Slave Point	270	
2	3390-3490	Muskwa	92	Felt at 3375'.
3	1470-1570	Jean Marie	75	Felt at 1450'.
4	393- 493	Devonian	95	Felt at 370'.
5	Surface		5	

The following logs have been run Form. Dens., DIL, BHC, Comp. Neut.

Other operations proposed

Operations to be carried out by Joma Drilling Ltd.

Contractor Licence No. ET-1624

Address Calgary, Alberta

Address

Responsible Agent in field R. W. Nyffeler

P. O. Box 610, Ft. St. John, B.C.

Dated at Calgary, Alberta

this 5

Day of

March

19 74

Signed by

Company

Pacific Petroleum Ltd.

Title Frontier Operations Manager Operator's Exploratory Licence No. 2008

Note:—The District 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:

Dated

March 12, 19 74

District Conservation Engineer



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 . . . PACIFIC HB N TATHLINA I-72A

Location: Unit I Section 72 Grid 60-30-118-00

Latitude . . . 60°21' 30.5" N Longitude . . . 118°13'17" W

Unique Well Identifier . . . 3021726030118000

Universal Well Location Reference. Lat. 60.35847° N., Long. 118.22139° W.

Elevation: Ground . . 1108 (est.) K.B. . . 1120 (est.) feet above sea-level.

Well is expected to produce from . . . Slave Point, Elk Point formation at a depth

of about . . . 3414, 3710 feet. Expected total final depth . . . 4190

Area assigned to well Exploratory

(for District Conservation Engineer's use only)

Permit No. 4139 Lease No. Acreage 63,212

Permittee, licensee, or lessee . . . Hudson's Bay Oil & Gas Company

Exploratory Licence No. . . . 2012

Surface owned by Crown or . . . Crown

(If alienated submit name and address of owner and occupant.)

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	Sacks of Cement
1. . . 9 5/8	. . 36#	. . J-55	. . New	. . 475	. . To Surface
2.					
3.					
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment. . . Hydril-Double Gate Shaffer

. . . Water . . . 3414

. . . Gas . . . 3414, 3710

. . . Oil . . . Not anticipated

Well will be drilled with Rotary Rig No. . . . 1 by . . . Jomax Drilling Ltd.

(Drilling Contractor or company)

#210, 634 - Sixth Avenue S.W.

Calgary, Alberta T2P 0S4

Responsible agent of applicant:-

At well . . . R. W. Nyffeler

Contractor's Business Licence No. ET 1624.

Address P.O. Box 610, Ft. St. John. Address P.O. Box 6666, Calgary, Alberta

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

Dated at . Calgary, Alberta this . . . 15 day of . . . February 19 74

Signed by Company . . . Pacific Petroleum Ltd.

Title Frontier Operations Manager . . . Operator's Licence No. . . . 2008

(For Oil and Mineral Division use only)

APPROVED

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

Dated . . 19 February . . 19 74

B. Wood

District Conservation Engineer

Forms to be submitted to District Conservation Engineer,
Department of Indian Affairs and Northern Development.

Drilling Authority #747

667-11-04-050

WELL HISTORY REPORT

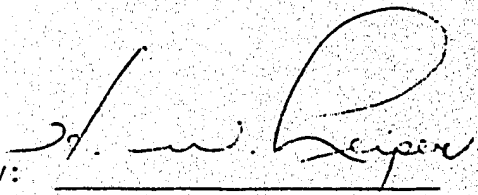
PACIFIC HB N TATHLINA I-72A

PACIFIC PETROLEUMS LTD.
P. O. BOX 6666
CALGARY, ALBERTA
T2P 6T6

Compiled By:


C. G. Johnston

Submitted By:


H. W. Leiper,
Frontier Operations Manager

Date: March 26, 1974.

PACIFIC PETROLEUMS LTD.
WELL HISTORY REPORT

PACIFIC HB N TATHLINA I-72A

INDEX OF CONTENTS

	<u>Page</u>
1. SUMMARY OF WELL DATA	
2. GEOLOGICAL SUMMARY	
3. ENGINEERING SUMMARY	
4. LOGGING SUMMARY	
5. ANALYSIS	
6. COMPLETION SUMMARY	
7. DAILY DRILLING SUMMARY	

PACIFIC PETROLEUMS LTD.
WELL HISTORY REPORT
PACIFIC HB N TATHLINA I-72A

1. SUMMARY OF WELL DATA

(a) Well Name: Pacific HB N Tathlina I-72A

(b) Permittee: Hudson's Bay Oil & Gas Ltd.

(c) Operator: Pacific Petroleum Ltd.
P. O. Box 6666
CALGARY, Alberta
T2P 6T6

(d) Location: Unit I, Section 72 -60°21'30"5N, 118°13'17"W
Grid: 60-30-118-00 - 3021726030118000
Lat. 60° 21' 30.5" N.,
Long. 118° 13' 17" W.

(e) Co-Ordinates: Not applicable

(f) Permit No.: 4139

(g) Drilling Contractor: Jomax Drilling Ltd.
Rig #1
Licence ET 1624

(h) Drilling Authority: 747 - Issued Feb. 19/74

(i) Classification: Exploratory

(j) Elevations: Ground: 1110.6' (est.)
K.B.: 1125.0' (est.)
K.B. to Ground: 13.5'

(k) Date Spudded: February 12, 1974

(l) Completed Drilling: February 28, 1974

(m) Total Depth: 4275' - Driller: 4279 Logger

(n) Status: Abandoned

(o) Date Drilling Rig Released: March 5, 1974

(p) Hole Sizes to T.D.: 13 3/4" - 480'
8 3/4" - T.D.

PACIFIC PETROLEUMS LTD.
WELL HISTORY REPORT
PACIFIC HB N TATHLINA I-72A

1. SUMMARY OF WELL DATA

(a) Well Name:	Pacific HB N Tathlina I-72A
(b) Permittee:	Hudson's Bay Oil & Gas Ltd.
(c) Operator:	Pacific Petroleum Ltd. P. O. Box 6666 CALGARY, Alberta T2P 6T6
(d) Location:	Unit I, Section 72 -60°21'30"5N, 118°13'17"W Grid: 60-30-118-00 - 3021726030118000 Lat. 60° 21' 30.5" N., Long. 118° 13' 17" W.
(e) Co-Ordinates:	Not applicable
(f) Permit No.:	4139
(g) Drilling Contractor:	Jomax Drilling Ltd. Rig #1 Licence ET 1624
(h) Drilling Authority:	747 - Issued Feb. 19/74
(i) Classification:	Exploratory
(j) Elevations:	Ground: 1110.6' (est.) K.B.: 1125.0' (est.) K.B. to Ground: 13.5'
(k) Date Spudded:	February 12, 1974
(l) Completed Drilling:	February 28, 1974
(m) Total Depth:	4275' - Driller: 4279 Logger
(n) Status:	Abandoned
(o) Date Drilling Rig Released:	March 5, 1974
(p) Hole Sizes to T.D.:	13 3/4" - 480' 8 3/4" - T.D.

Pacific HB N Tathlina I-72A

1. SUMMARY OF WELL DATA - Cont'd.

(q) Casing:

Surface: Ran 12 jts. (483.20') 9 5/8" 32.3# K-S, ST&C Rge. 3 casing. Landed at 480' K.B., Howco insert float at 443.55' K.B. c/w 14 barrel cement scour ahead, 400 sacks Construction + 2% CaCl₂. Displaced plug with 35 barrels water at 6 BPM. Slurry weight 15.5#. Pumped plug with 1500#. Float held okay. Plug down 2:30 a.m. February 15, 1974. 2 barrels returns. Held okay in annulus.

Production: Nil.

2. GEOLOGICAL SUMMARY

(a) Formation Tops:

	<u>Log</u>		<u>Sample</u>	
	<u>Subsea</u>	<u>Depth</u>	<u>Subsea</u>	<u>Depth</u>
Jean Marie	- 395'	1520'	- 408'	1533'
Muskwa	-2315'	3440'	-2325'	3450'
Slave Point	-2509'	3634'	-2505'	3630'
Watt Mountain	-2693'	3818'	-2685'	3810'
Sulphur Point	-2705'	3830'	-2715'	3840'
Elk Point Dolomite	-2776'	3901'	-2775'	3900'
Keg River Dolomite	-2899'	4024'	-2895'	4020'
Keg River Limestone	-2980'	4105'	-2975'	4100'
Chinchaga	-3081'	4206'		

(b) Cored Intervals:

Nil.

(c) Core Descriptions:

Nil.

Pacific HB N Tathlina I-72A

3. ENGINEERING SUMMARY - Cont'd.

(f) Abandonment Plugs:

March 5, 1974

PLUG #4: 393-493 (100') c/w 95 sacks
Construction + 2% CaCl₂. Plug down 3:15
a.m. March 5, 1974. Felt at 370' 11:45 a.m.
March 5, 1974. Put 5 sacks in surface
casing, cut casing 3' below ground level,
weld on cap, installed well identifier.

(g) Lost Circulation Zones:

February 12, 1974 at 45'.
Lost 150 barrels mud. Recovered circulation
with 60 sacks sawdust and 5 sack filter seal.

(h) Report of Blowouts:

Nil.

4. LOGGING SUMMARY

(a) Logs:

FORMATION DENSITY

Run #1: 3000-4264 - March 1, 1974.

DUAL INDUCTION

Run #1: 442-4273 - March 1, 1974.

BOREHOLE COMPENSATED

Run #1: 442-4269 - March 1, 1974.

COMPENSATED NEUTRON

Run #1: 3000-4264 - March 1, 1974.

(b) Surveys:

Nil.

5. ANALYSIS

(a) Core Analysis:

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(b) Gas Analysis:

--

(c) Oil Analysis:

--

(d) Water Analysis:

E74-356-3	DST #2	C & G Lab.
E74-355-3	DST #1	C & G Lab.

2. GEOLOGICAL SUMMARY(a) Formation Tops:

<u>Formation</u>	<u>Sample</u>		<u>Log</u>	
	<u>Top</u>	<u>Subsea</u>	<u>Top</u>	<u>Subsea</u>
Jean Marie	1533'	- 408'	1520'	- 395'
Muskwa	3450'	-2325'	3440'	-2315'
Slave Point	3630'	-2505'	3634'	-2509'
Watt Mountain	3810'	-2685'	3818'	-2693'
Sulphur Point	3840'	-2715'	3830'	-2705'
Elk Point	3900'	-2775'	3911'	-2776'
Key River Dolomite	4020'	-2895'	4024'	-2899'
Key River	4100'	-2975'	4105'	-2980'
Limestone				
Chinchaga	4205'	-3080'	4206'	-3081'
Total Depth	4275'	-3150'	4276'	-3151'

(b) Core Record:

No cores were cut.

(c) Sample Descriptions:

- 3000 - 3050' Shale: light green to light grey green, slightly calcareous to calcareous, very silty, grading to siltstone in part, abundant Siltstone: light grey to light green grey, calcareous, minor Shale: medium red brown, minor Limestone: cream to buff, microcrystalline, silty, dense.
- 3050 - 3060' Shale: light grey, blocky, micromicaceous, silty in part, calcareous, Limestone: grey to occasional cream, crypto to occasional microcrystalline, argillaceous, silty in part, dense, minor Siltstone: light grey, calcareous.
- 3060 - 3120' Limestone: grey, cryptocrystalline, very argillaceous, silty in part, dense, grading in part to Shale: grey, blocky, slightly micromicaceous, very calcareous, silty in part.
- 3120 - 3250' Shale: grey, blocky, slightly micromicaceous, very calcareous, slightly silty, grading in part to Limestone: grey, cryptocrystalline, very argillaceous, slightly silty, dense.
- 3250 - 3260' Shale: as above, Shale: grey, blocky, micromicaceous, calcareous, slightly silty, minor Limestone: as above.
- 3260 - 3300' Shale: green grey, blocky, micromicaceous, slightly calcareous to calcareous, slightly silty in part, minor grey Shale: as above.

Pacific HB N Tathlina I-72A

2. GEOLOGICAL SUMMARY CONTINUED

(c) Sample Descriptions Continued:

- 3300 - 3350' Shale: green grey, blocky, micromicaceous, slightly calcareous, slightly silty in part.
- 3350 - 3450' Shale: green grey, blocky, micromicaceous, slightly calcareous in part, occasional slight trace pyrite.
- MUSKWA 3450' (-2325')
- 3450 - 3470' Shale: dark grey brown to brown, fissile, micromicaceous, bituminous, calcareous in part, slightly silty, Siltstone: grey, slightly calcareous to calcareous in part, sandy in part, slightly bituminous, slight trace pyrite.
- 3470 - 3480' Shale: dark grey brown to black-brown, fissile, micromicaceous, bituminous, slightly calcareous, slightly silty, occasional Siltstone: as above, trace pyrite.
- 3480 - 3490' Shale: as above, minor Shale: grey green, fissile, slightly micromicaceous, trace pyrite.
- 3490 - 3540' Shale: dark grey brown to black brown, fissile, micromicaceous, bituminous, slightly calcareous in part, minor green Shale: as above, trace Siltstone: as above, trace pyrite.
- 3540 - 3550' Shale: green, fissile, micromicaceous, slightly calcareous in part, brown Shale: as above, slight trace pyrite.
- 3550 - 3560' Green Shale: as above, minor brown Shale: as above, occasional pyrite.
- 3560 - 3600' Shale: dark grey to black to black brown, sub-fissile to blocky, micromicaceous, slightly bituminous, trace pyrite.
- 3600 - 3610' Limestone: cream, cryptocrystalline, dense, trace pyrite.
- 3610 - 3620' Limestone: cream to light grey, crypto to occasional microcrystalline, dense, Shale: light to medium grey, fissile, micromicaceous, slightly calcareous.
- 3620 - 3630' Shale: as above, minor Limestone: light grey, crypto-crystalline, dense, trace pyrite.
- SLAVE POINT 3630' (-2505')
- 3630 - 3660' Limestone: cream to medium brown to tan, crypto-crystalline to microcrystalline, fragmental, dense to trace pyrite, trace pyrite.

2. GEOLOGICAL SUMMARY CONTINUED

(c) Sample Descriptions Continued:

- 3660 - 3700' Limestone: medium to dark brown to occasional light brown, crypto to microcrystalline, dense.
- 3700 - 3740' Limestone: light to medium to dark brown, crypto to microcrystalline, slight trace calcite veining, dense.
- 3740 - 3760' Limestone: medium to dark brown, crypto to microcrystalline, trace calcite veining, dense.
- 3760 - 3790' Limestone: medium to dark to occasional light brown, crypto to occasional microcrystalline, dense, trace pyrite.
- 3790 - 3800' Limestone: buff to brown, crypto to microcrystalline, dense.
- 3800 - 3810' Limestone: buff, crypto to occasional microcrystalline, dense.

WATT MOUNTAIN 3810' (-2685')

- 3810 - 3820' Limestone: as above, Shale: green grey, sub-fissile, micaceous.
- 3820 - 3840' As above with occasional Limestone: cream, micro to crypto-crystalline, dense.

SULPHUR POINT 3840' (-2715')

- 3840 - 3850' Limestone: buff to buff cream to occasional buff, crypto to microcrystalline, slight trace leaching, dense.
- 3850 - 3860' Limestone: buff to buff cream, crypto to microcrystalline, trace leaching, occasional pyrobitumen, trace pyrite, slight trace pinpoint porosity.
- 3860 - 3870' Limestone: buff to cream buff, crypto to microcrystalline, trace leaching, dense.
- 3870 - 3880' Limestone: buff, crypto to micro to very fine crystalline, dolomitic, dense, Dolomite: medium brown, crypto to occasional very fine crystalline, calcareous in part, trace intercrystalline porosity.
- 3880 - 3900' Limestone: buff to cream buff to occasional cream, crypto-crystalline to microcrystalline, slightly dolomitic, dense, occasional Dolomite: buff, cryptocrystalline, dense.

ELK POINT 3900' (-2775')

- 3900 - 3910' Dolomite: medium brown, very fine crystalline, subhedral to trace euhedral, dense to trace poor intercrystalline porosity.

2. GEOLOGICAL SUMMARY CONTINUED

(c) Sample Descriptions Continued:

- 3910 - 3920' Dolomite: light to medium brown, micro to occasional very fine crystalline, calcareous in part, dense to trace poor porosity, Limestone: light brown, micro to cryptocrystalline, dolomitic in part, dense.
- 3920 - 3930' Dolomite: light to medium brown, micro to occasional very fine crystalline, slightly calcareous in part, dense to trace poor porosity.
- 3930 - 3940' Dolomite: medium brown, very fine to microcrystalline, subhedral to euhedral in small part, generally dense but occasional to trace of poor intercrystalline porosity.
- 3940 - 3960' Dolomite: medium to occasional dark brown, very fine to microcrystalline, trace porosity.
- 3960 - 3970' Dolomite: medium to occasional dark brown, very fine to fine crystalline, subhedral to euhedral in small part, occasional poor intercrystalline porosity.
- 3970 - 3980' Dolomite: light to medium brown, micro to very fine crystalline, slight trace porosity.
- 3980 - 3990' Anhydrite: light to medium brown, microcrystalline, dolomitic, dense, minor Dolomite: as above.
- 3990 - 4000' Dolomite: light to medium brown, microcrystalline, slightly calcareous, dense, minor Anhydrite: light brown to cream, microcrystalline, dolomitic, dense.
- KEG RIVER DOLOMITE 4020' (-2895')
- 4020 - 4040' Dolomite: medium brown, very fine crystalline, dense to trace porosity.
- 4040 - 4050' Dolomite: medium brown, fine to medium grained, subhedral to anhedral, trace coarse euhedral crystalline, poor intercrystalline porosity.
- 4050 - 4080' Dolomite: as above, occasional coarse euhedral dolomite crystal clusters, trace calcite crystal clusters, poor to occasional fair vuggy porosity.
- 4080 - 4090' Dolomite: light to medium brown, very fine to fine to occasional medium crystalline, occasional poor vuggy porosity.
- 4090 - 4100' Dolomite: medium to dark brown, very fine to fine to occasional medium crystalline, slightly calcareous in part, dense to trace poor porosity.

2. GEOLOGICAL SUMMARY CONTINUED

(c) Sample Descriptions Continued:

KEG RIVER LIMESTONE 4100' (-2975')

- 4100 - 4110' Limestone: medium to dark brown, micro to very fine crystalline, slightly dolomitic in part, Limestone: light brown, microcrystalline, dense.
- 4110 - 4120' Limestone: dark to light brown, crypto to microcrystalline to occasional very fine, slightly dolomitic in part, dense.
- 4120 - 4160' Limestone: dark to light brown, crypto to microcrystalline, dense.
- 4160 - 4190' Limestone: as above, slight trace calcite veining.
- 4190 - 4205' Limestone: as above.

CHINCHAGA 4205' (-3080')

- 4205 - 4210' Dolomite: medium to dark brown, fine to medium crystalline, subhedral to anhedral to trace euhedral, trace calcite veining, trace subhedral to euhedral dolomite crystal clusters indicating occasional poor porosity.
- 4210 - 4220' Dolomite: as above, but poor to occasional fair porosity.
- 4220 - 4230' Dolomite: medium to dark brown, fine to medium to coarse crystalline, subhedral to euhedral, occasional euhedral dolomite crystal clusters, fair to occasional good porosity.
- 4230 - 4240' Anhydrite: light to medium brown, microcrystalline, slightly dolomitic to dolomitic in part, trace Dolomite: as above, minor Dolomite: medium brown, microcrystalline, slightly anhydritic to anhydritic in part, dense.
- 4240 - 4250' Anhydrite: buff to white to light brown, microcrystalline, slightly dolomitic, interbedded with Dolomite: light to medium brown, slightly anhydritic, dense.
- 4250 - 4275' Anhydrite: buff to light brown, microcrystalline, slightly dolomitic in part, dense, occasional interbedded with Dolomite stringers: as above.

TOTAL DEPTH: 4275' (-3150')

Pacific HB N Tathlina I-72A

3. ENGINEERING SUMMARY

(a) Drill Stem Tests:

DST #1: March 1, 1974 - 4200-4275 (Chinchaga) 59/60/56. FAB on PF, remaining steady, WAB on flow period, decreasing to nil in 20 minutes. Recovered 180' gas cut mud, 1815' salt water (Salinity - 107,700 ppm). HP 2060/1955, SIP 1774/1749, FP 356/881.

DST #2: March 1, 1974 - 3910-3990 (Elk Point) 61/57/59. FAB on PF, WAB on flow, decreasing to nil in 45 minutes. Recovered 3305' salt water (Salinity - 98,200 ppm). HP 1963/1969, SIP 1602/1560, FP 540/1478.

DST #3: March 3, 1974 - 3636-3666 (Slave Point) MISRUN - unable to rotate tools.

DST #4: March 3, 1974 - 3636-3666 (Slave Point) 60/54/58. WAB on PF, no blow on flow period. Recovered 2' drilling mud. HP 1916/1760, SIP 134/71, FP 72/72.

(b) Casing Record:

See Page (2).

(c) Bit Record:

See Page

(d) Mud Record:

See Page

(e) Deviation Record:

See Page

(f) Abandonment Plugs:

March 4, 1974

PLUG #1: 3768-4275 (507') c/w 270 sacks Construction. Plug down 8:30 a.m. March 4, 1974.

PLUG #2: 3390-3490 (100') c/w 92 sacks Construction + 2% CaCl₂. Plug down 9:15 a.m. March 4, 1974. Felt at 3375' 5:15 p.m. March 4, 1974.

PLUG #3: 1470-1570 (100') c/w 75 sacks Construction + 2% CaCl₂. Plug down 6:15 p.m. March 4, 1974. Felt at 1450' 2:15 a.m. March 5, 1974.

Pacific HB N Tathlina I-72A

7. DAILY DRILLING SUMMARY

<u>Date - 1974</u>	<u>Depth</u>	<u>Day</u>	<u>Footage</u>	<u>Well Status & General Information</u>
February 13	128	1	128	Drilling 15" hole. Spud 11:30 a.m. February 12, 1974. Hole condition fair. Rig was skidded 78' south. Circulation was lost at 45'. Lost 150 barrels. Regained with 60 sacks Sawdust and 5 sacks fiber seal.
February 14	440	2	312	Reaming. Hit boulder at 50'. At 124', 15" hole was 2° in deviation. Drilled from 124' - drld. 8 3/4" pilot hole to 480'. Then reamed hole to 13 3/4" hole.
February 15	480	3	40	Waiting on cement. Ran 9 5/8" casing.
February 16	480	4		Drilling on cement. Pressure tested blind rams to 1500# 15 minutes. Pressure tested 4 1/2" rams and hydril 15 minutes to 200#.
February 17	778	5	298	Tested Kelly cock and motor shut down. Okay. Drilling 8 3/4" hole. At 650', pulled Kelly to replace casing protector rubber on drill pipe. Went back in hole, could not drill due to iron on bottom. Pulled out, picked up junk sub. Ran back in, had trouble getting past 540'. Went to bottom and worked bit and junk sub. Pulled out. Recovered 12 1/2# iron. Reran bit and junk sub. At 540' K.B. pipe hung up. Turned pipe for 1/2 hour, dropped through, went back to bottom and drilled ahead. Recovered 2 large pieces of iron.
February 18	1235	6	457	Drilling. Hole condition good. Waiting on logging unit to run collar locator. While tripping bit, did not feel obstruction at 540'.
February 19	1633	7	398	Removing overshot from drill collars. Hole condition good. Ran collar locator, found bottom joint of casing at 577'-613'. Lost 300# pump pressure, picked up bit 5' from bottom, pipe parted. Pulled remainder. Ran in with American overshot with 6 1/4" basket grapple. Latched onto fish. Pulled and layed down fish.
February 20	2345	8	712	Drilling. Hole condition good.
February 21	2660	9	315	Drilling.
February 22	3070	10	410	Drilling.
February 23	3220	11	150	Drilling.
February 24	3537	12	317	Drilling.
February 25	3764	13	227	Drilling. Hole condition good.
February 26	4013	14	249	Drilling.

Pacific HB N Tathlina I-72A

7. DAILY DRILLING SUMMARY - Cont'd.

<u>Date - 1974</u>	<u>Depth</u>	<u>Day</u>	<u>Footage</u>	<u>Well Status & General Information</u>
February 27	4060	15	57	Dressing all drill collars. Hole condition good. Pipe backed off immediately below Kelly. Twisted off at 165' below Kelly and drill collars backed off at 3615' (leaving 15 collars in hole). Ran in with 8 1/4" over-shot and 6 1/8" slips. Rec'd 5 full singles and 14.5' of 6 th single. Pipe was shattered vertically for 1.5". Dressed overshot with 4 3/8" slips. Latched onto fish and pulled same loose with 40,000#. Rec'd fish (all pipe and 5-6 1/4" collars). Leaving 4 1/2" XH box looking up. Pin was in good condition. Ran in with 4 1/2" XH pin looking down and screwed into fish. Broke circulation, pulled fish loose with 170,000#. Chained out of hole and laid down 4-6 1/4" collars (2 were damaged while fishing and 2 were slightly washed out).
February 28	4210	16	150	Drilling.
March 1	4275	17	65	Hoisting to log. Hole condition good. While hoisting to log pipe broke off flush with slips, while breaking connection. Ran in with 3 5/8" O.D. spear and pulled pipe.
March 2	T.D.	18		Hoisting DST #1: 4200-4275 (Chinchaga). Hole condition good.
March 3		19		Running DST #3: 3636-3666 (Slave Point). Ran DST #2: 3910-3990 (Eik Point).
March 4		20		Circulating on bottom with open end pipe to run Plug #1. DST #3: Misrun, unable to shut in tool after PF. Ran DST #4: 3636-3666 (Slave Point).
March 5		21		Waiting on cement (Plug #4). Ran Plug #1: 3768-4275. Plug #2: 3390-3490, Plug #3: 1470-1570, Plug #4: 393-493.
March 6		22		Tearing out rig and preparing to move. Laid down drill pipe and BOP's. Cut off bowl. Ran 5 sack plug in top of casing. Welded on plate and identifier. Rig released 4:00 p.m. March 5, 1974.

Pacific HB N Tathlina I-72A

3. ENGINEERING SUMMARY - Cont'd.

(c) Bit Record:

Bit No.	Make	Type	Size	Serial No.	Hours On BTM	Depth		Footage	
						In	Out		
1A	Smith	DTJ	15	RETIP	9	0	143	143	5-4-1
2A	HW	XIG	8 3/4	62926	9 1/4	143	440	297	2-2-1
3A	HW	OSC3	13 3/4		10 1/2	143	480	377	
9 5/8" surface casing set at 480' K.B.									
1	HW	XIG	8 3/4	64027	31 1/2	480	1210	730	6-5-1
2	HW	XIG	8 3/4	62865	15 3/4	1210	1633	423	Twist off at 1633'.
3	HW	XIG	8 3/4	64008	31	1633	2508	875	4-3-1
4	HW	XIG	8 3/4	64001	33 1/4	2508	3126	618	4-4-1
5	HW	J55	8 3/4	61747	76	3126	4060	934	Pinched
6	HW	X55R	8 3/4	50872	27 1/2	4060	4275	215	1-1-1

Total Depth 4275' K.B.

(d) Mud Record:

Date 1974	Depth	Weight lbs/US gal.	Viscosity Secs.	Water Loss CC in 30"	Filter Cake 32nd In	pH	Remarks
Feb. 13	128	10.0	115				Sawdust Caustic Gel.
Feb. 14	440	10.0	100				Caustic Gel.
Feb. 15	480	10.0	100				Gel.
9 5/8" surface casing @ 480' K.B.							
Feb. 17	778	8.4	28				Bi-carb.
Feb. 18	1235	8.4	29				
Feb. 19	1633	8.4	29				
Feb. 20	2345	8.6	29				
Feb. 21	2660	8.7	29				
Feb. 22	3070	9.2	39	18.0	2/32	9.0	Gel Caustic CMC.
Feb. 23	3220	9.3	40	7.0	2/32	9.4	Gel Caustic CMC.
Feb. 24	3537	9.4	38	6.5	2/32	9.4	Gel Sawdust.
Feb. 25	3764	9.4	38	7.0	2/32	9.0	Gel.
Feb. 26	4013	9.5	38	8.0	2/32	11.0	Caustic Unical.
Feb. 27	4060	9.7	38	10.0	2/32	11.0	Soda Ash.
Feb. 28	4210	9.6	50	8.0	2/32	10.5	Gel Caustic Unical.
March 1	4275	9.6	70	8.0	2/32	10.5	Gel Caustic Unical.
March 2	4275	9.6	70	8.0	2/32	10.5	

Total Depth 4275' K.B.

Pacific HB N Tathlina I-72A

3. ENGINEERING SUMMARY - Cont'd.

(e) Deviation Record:

<u>Survey At</u>	<u>Deviation</u>
124'	2°
158'	1 1/3°
220'	2 1/4°
360'	1 1/8°
480'	1°
9 5/8" surface casing set at 480' K.B.	
650'	1/2°
747'	1/2°
997'	1/8°
1210'	1/2°
1433'	1/4°
1790'	0°
2133'	1/4°
2508'	1/2°
2922'	3/4°
3219'	1/4°
3500'	3°
3530'	3°
3580'	2 7/8°
3640'	3°
3701'	2 3/4°
3761'	2 1/2°
3820'	2 1/2°
3914'	2°
4000'	1 1/2°
4120'	1 1/2°

Total Depth 4275' K.B.

PACIFIC PETROLEUMS LTD.

LABORATORY REPORT NUMBER: E74-356

E74-356-1: Top

RESISTIVITY: 0.179 Ohm-Meters @ 25° C.

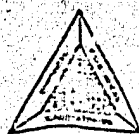
Very muddy water with a yellowish filtrate.

E74-356-2: Middle

RESISTIVITY: 0.093 Ohm-Meters @ 25° C.

Slightly muddy water with a greenish filtrate.

H₂ S present.

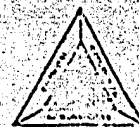


CONTAINER 102- 77

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

EDMONTON — FORT ST. JOHN — CALGARY

— WATER ANALYSIS —



LABORATORY NUMBER

E74-355-3

OPERATOR NAME AND ADDRESS

PACIFIC PETROLEUMS LTD.

SAMPLE LOCATION

60 21' 30.50.118 13' 17.00

WELL OR SAMPLE LOCATION NAME

Pacific HB N Tathlina 1-72-A

ELEVATIONS

KB GRD
1108'

FIELD OR AREA

Thathlina River

POOL OR ZONE

Chinchaga

NAME OF SAMPLER

COMPANY

B.J. Service

TEST TYPE & NO

D.S.T. 1

1995 Ft.

TEST RECOVERY

TEST INTERVAL OR PERFS

POINT OF SAMPLE

Top of Tool

AMT & TYPE OF CUSHION

MUD RESISTIVITY

4200' - 4275'

TYPE OF PRODUCTION

PUMPING

FLOWING

GAS LIFT

SWAB

PRODUCTION RATES

WATER

BBL/D OIL

BBL/D GAS

MCF/D

PRESSURES - PSIG

TEMPERATURES (°F)

SEPARATOR TREATER

RESERVOIR

CONTAINER
WHEN
SAMPLED WHEN
RECEIVED

SEPARATOR TREATER

CONTAINER
WHEN
SAMPLED WHEN
RECEIVED

DATE SAMPLED (D/M/Y)

02/03/74

DATE RECEIVED (D/M/Y)

08/03/74

DATE ANALYZED (D/M/Y)

21/03/74

ANALYST

R.J. Maloney

REMARKS

ION MG/L MG% MEQ/L ION MG/L MG% MEQ/L

Na

Cl 72100

2033.22

TOTAL SOLIDS Mg/L

BY EVAPORATION

129100 @ 110°C

BY EVAPORATION

@ 100°C

K

Br

AT IGNITION

CALCULATED

109260

Ca

I

ORGANIC MATTER: Present

Mg

HCO₃

SPECIFIC GRAVITY

REFRACTIVE INDEX

@ 60°F

1.3546 @ 25°C

Ba

SO₄

OBSERVED FM

RESISTIVITY (Ohm/meter)

5.8 @ 73°F

0.079 @ 25°C

Sr

CO₃

Present

OH

H₂S Present

Remarks and Conclusions

LOGARITHMIC PATTERN MEQ. PER LITER

||||| 10000 1000 100 10 1 0.1 0.01 0.001 0.0001 0.00001 0.000001 0.0000001 0.00000001 0.000000001 0.0000000001

Na

Cl

The sample consisted
of muddy water with

Ca

HCO₃

a light green filtrate

Mg

SO₄

Fe

CO₃

continued.....

PACIFIC PETROLEUMS LTD.

LABORATORY REPORT NUMBER: E74-355

E74-355-1: Top

RESISTIVITY: 0.157 Ohm-Meters @ 25° C.

Very muddy water with a yellowish filtrate.

E74-355-2: Middle

RESISTIVITY: 0.085 Ohm-Meters @ 25° C.

Muddy water with a light green filtrate.

H₂S present.

667-11-04-050

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1 Location PACIFIC-H-B-N-TATHLINA 1-72-A Job# 7331

Date MARCH 4 1974

REMARKS

DATE MARCH 4-1974

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands			
No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
MUD											
WEIGHT											
VISCOSITY											
GEL											
PUMP											
S											
W.L. F.C. pH.											
MUD											
WEIGHT											
VISCOSITY											
GEL											
PUMP											
S											
W.L. F.C. pH.											
MUD											
WEIGHT											
VISCOSITY											
GEL											
PUMP											
S											
W.L. F.C. pH.											
MUD											
WEIGHT											
VISCOSITY											
GEL											
PUMP											
S											
W.L. F.C. pH.											

REMARKS	Start	Time	Interval
RIG SERVICE	1200	1215	15
LAY DOWN 69-6 1/2" OD-DR. COLLAR	1215	230	21
TRIP IN OPEN END TO 3000' +	230		
BREAK CIRC	415	1 1/4	
PICK UP 19 SINGLES 4 1/2" DR PIPE	415		
* TRIP IN	530	1 1/4	
CIRCULATE CONDITION DRILLING	530		
MUD PRIOR RUNNING PLUGS	800	2 1/2	
Company Time Cont'r Time			
MAR 4/74 RAN Plug # 1	830	830	1/2
Pull & Stand 1/2 and 1 single	830	845	1/4
RAN Plug # 2	845	915	1/2
WOC Plug # 2	915	4:10	10 3/4
Company Time Cont'r Time			
WOC Plug # 2 Felt Plug #	4:20	515	1 1/4
@ 515 Pa @ 3275			
Pull out to 1570'	515	545	1/2
RAN Plug # 3	545	615	1/2
WAP Plug # 3	615	1200	5 3/4
Company Time Cont'r Time			

JOMAX DRILLING LIMITED

Rig# 1 Location PACIFIC-H-B-N-TATHLINA 1-72-A Job# 7331 Date MARCH 4 1974

Tour	Midnight - 8 a.m.	Hrs.
Driller	EDMOND DEMAS	12
Derrick	DOUG McLEOD	12
Motor	KEN KRUPINSKI	8
Floor	CLARE FINGAS	12
Floor	RUSSEL PLAMONDON	12
Fireman		
Extra		

No Injuries Reported This Tour

Signed Driller E. Demas

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

Specify actual hours worked

Tour	8 a.m. to 4 p.m.	Hrs.
Driller		
Derrick		
Motor		
Floor		
Fireman		
Extra		

C.A. Hans LaBamba 10

No Injuries Reported This Tour

Signed Driller

Tour - 4 p.m. - Midnight

Specify actual hours worked

Tour	4 p.m. - Midnight	Hrs.
Driller	Chiff. Kinzie	12
Derrick	Keith Morrison	12
Motor	James K. K. K.	12
Floor	August. S. S.	12
Floor	Gary Sage	12
Fireman		
Extra		

No Injuries Reported This Tour

Signed Driller R. Kinzie

Toolpusher R. Kinzie

Approved by

Totco Ring on Bit No. D.P. Calipered Date

B.O.P. Test-Operated Time

Results

Results

Boiler in Operation

Toolpusher

Approved by

CONSERVATION BOARD COPY

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1 Location PACIFIC H.B.N. TATHLINA-1-72-A Job# 7331

Date MARCH 3 1974

REMARKS

DATE MARCH 3/74

From		Footage		Hrs. on Bottom		Wt. Drill String (1000 lbs.)		DRILL COLLARS				FORMATION		OIL		FUEL		WATER		Stands		REMARKS		Time																						
No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly	TOTAL	Company Time	Cont'r Time	Start	Stop	Interval																								
MUD																								12 Mn.	2 a.m.	4 a.m.	6 a.m.	Additives	At Surveys Degree		MOTOR HOURS		Next Oil Change													
WEIGHT																																														
VISCOSITY																																														
GEL																																														
PUMP																																														
S																																														
W.L.																								F.C.		pH.																				
MUD																								8 a.m.	10 a.m.	12 Noon	2 p.m.	Additives	W/ B.T. Sample		MOTOR HOURS		Next Oil Change													
WEIGHT																																														
VISCOSITY																																														
GEL																																														
PUMP																																														
S																																														
W.L.																								F.C.		pH.																				
MUD																								4 p.m.	6 p.m.	8 p.m.	10 p.m.	Additives																		
WEIGHT																																														
VISCOSITY																																														
GEL																																														
PUMP																																														
S																																														
W.L.																								F.C.		pH.																				

Totco Ring on Bit No. D.P. Calipered Date

B.O.P. Test-Operated Time

Results

Results

Boiler in Operation 2.1 hrs

Toolpusher

Approved by

CONSERVATION BOARD COPY

JOMAX DRILLING LIMITED
Rig# 1 Location PACIFIC H.B.N. TATHLINA-1-72-A
Job# 7331 Date MARCH 3 1974
Tour — Midnight - 8 a.m.

Specify actual hours worked	Hrs.
Driller EDMOND DEMAS	12
Derrick DOUG MCLEOD	12
Motor DOUGLAS DAVIDSON	8
Floor CLARE FINGAS	12
Floor RUSSEL PLAMONDON	12
Fireman	
Extra	

No Injuries Reported This Tour
DOUGLAS DAVIDSON RECEIVED
BACK INJURY WHEN FELL
ON RIG FLOOR.Signed Driller Edmond Demas
Tour — 8 a.m. to 4 p.m.

Specify actual hours worked	Hrs.
Driller	
Derrick Ken Kupperke	8
Motor	
Ft. Up On Kelly	
Fireman DOE RANDALL	10
Extra H. VERLA STRASHOK	10
AMPATI HANS LABANKO	10

No Injuries Reported This Tour

Signed Driller H. Verla
Tour — 4 p.m. - Midnight

Specify actual hours worked	Hrs.
Driller Cliff Kozak	12
Derrick Keith Morrison	8
Motor Jerry Fay	12
Floor August Soley	12
Floor Greg Sager	12
Fireman	
Extra	

No Injuries Reported This Tour

Signed Driller R. S. Kozak

Toolpusher Keith Morrison
Approved by

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1 Location PACIFIC H.B.-N. TATHNA 1-72-A Job# 7331

Date FEBRUARY 27 1974

REMARKS

DATE FEB 27 1974

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands			
No.	Size	Type	Size Jels	Serial No.	Weight	R.P.M.	Feet Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION
6	8 3/4	X55R	3-14	50872							2-4-1/2
MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives											
WEIGHT											
VISCOSITY											
GEL											
PUMP											
W.L. F.C. pH.											
4060	35	4045	5	78,000	8 3/4	28	45				
B.I.T.S.											
MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives											
WEIGHT											
VISCOSITY											
GEL											
PUMP											
W.L. F.C. pH.											
4045	50	4145	6 3/4	78,000	8 3/4	28	45				
B.I.T.S.											
MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives											
WEIGHT											
VISCOSITY											
GEL											
PUMP											
W.L. F.C. pH.											

REMARKS	Start	Stop	Interval
RIG SERVICE	1200	1215	15
CIRCULATE - WORK STUCK FISH	1215	130	1 1/4
TRIP OUT FISH, CHAIN TONG OUT	130	330	2
LAY DOWN FOUR 6 1/2" OD DR. COLLARS	330		
W/ DAMAGED THREADS 4 BOXES	400		2
TRIP OUT DRILL COLLARS.			
CLEAN & INSPECT BIT - PINCHED	400	530	1 1/2
TRIP IN W/ NEW BIT SERV.	530		
AND INSPECT ALL DRILL COLLARS			
PICK UP 3-6 1/2" OD D.C.	800	2 1/2	
Company Time Cont'r Time			
RIG SERVICE - R.D.P.	800	815	15
TRIP IN W/ NEW BIT MEASURE	815		
IN	945		1 1/2
RAFAK CIRC - CLEAN 50' SLIGHTLY	945		
UNDER GAUGE HOLE TO BOTTOM	1100		1 1/4
DRILL 8 3/4" HOLE	1100	4 1/2	5
Company Time Cont'r Time			
K. S. W. R.O.P.S.	4 1/2	4 1/2	1/2
Drill 8 3/4" Hole	4 1/2	9 00	4 3/4
Survey and install Casing	9 00		
To Joint.	9 00		1
Drill 8 3/4" Hole	10 00	12 00	2
Company Time Cont'r Time			

JOMAX DRILLING LIMITED

Rig# 1 Location PACIFIC H.B.-N. TATHNA 1-72-A

Job# 7331 Date FEBRUARY 27 1974

Tour	Midnight - 8 a.m.	Hrs.
Driller	EDMOND L. DEMAS	12
Derrick	DOUG M'LEDD	8
Motor	DOUGLAS DAVIDSON	12
Floor	RUSSEL PLAMONDO	12
Floor	DAVE SHIELDS	12
Fireman		
Extra		

No Injuries Reported This Tour

Signed Driller Edmond Demas

Tour	8 a.m. to 4 p.m.	Hrs.
Driller	KEITH KAUPERSKI	8
Derrick		
Motor		
Floor		
Fireman	VERLA STRASHOK	10
Extra	HANS LABANKO	10
	JOE GALLAND	10

No Injuries Reported This Tour

Signed Driller K. Kauperski

Tour	4 p.m. - Midnight	Hrs.
Driller	Chiff Kenzie	12
Derrick	Keith Morrison	8
Motor	Terry Topeck	12
Floor	August Sobry	12
Floor	Kevin M'Hele	12
Fireman		
Extra		

No Injuries Reported This Tour

Signed Driller K. Kauperski

Tour	Toolpusher	Approved by
	Keith Thompson	

Totco Ring on Bit No.

D.P. Calipered Date

Results

Boiler in Operation 2 1/2 HRS

Toolpusher Keith Thompson

B.O.P. Test-Operated

4 1/2 9 BLIND RAMS Time 8 15 AM 4 00 AM

Results WIDAKING GOOD

Approved by Keith Thompson

CONSERVATION BOARD COPY

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Date FEBRUARY 26 1974

Rig# 1 Location PACIFIC-H-B-N TATHUNA-1572-A Job# 7331

REMARKS

DATE FEB 26 - 1974

JOMAX DRILLING LIMITED

Rig# 1 PACIFIC-H-B-N TATHUNA-1572-A

Job# 7331 Date FEBRUARY 25, 1974

From		Footage		To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FORMATION		OIL		Stands		Time																			
No.	Size	Type	Size Jts	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	FUEL	WATER	Singles	Start	Stop	Interval																			
MUD																		At Surveys Degree			MOTOR HOURS			Next Oil Change												
WEIGHT																		39 14			2°															
VISCOSITY																																				
GEL																																				
PUMP																																				
No. 1 Pressure																																				
Model S.P.M.																																				
Liner Size																																				
No. 2 Pressure																																				
Model S.P.M.																																				
Liner Size																																				
W.L.																																				
F.C.																																				
pH																																				
From																		Footage			To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FORMATION		OIL		Stands		Time		
No.																		Size		Type	Size Jts	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	FUEL	WATER	Singles	Start	Stop	Interval	
MUD																		At Surveys Degree			MOTOR HOURS			Next Oil Change												
WEIGHT																		4000			1°															
VISCOSITY																																				
GEL																																				
PUMP																																				
No. 1 Pressure																																				
Model S.P.M.																																				
Liner Size																																				
No. 2 Pressure																																				
Model S.P.M.																																				
Liner Size																																				
W.L.																																				
F.C.																																				
pH																																				
From																		Footage			To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FORMATION		OIL		Stands		Time		
No.																		Size		Type	Size Jts	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	FUEL	WATER	Singles	Start	Stop	Interval	
MUD																		At Surveys Degree			MOTOR HOURS			Next Oil Change												
WEIGHT																		4000			1°															
VISCOSITY																																				
GEL																																				
PUMP																																				
No. 1 Pressure																																				
Model S.P.M.																																				
Liner Size																																				
No. 2 Pressure																																				
Model S.P.M.																																				
Liner Size																																				
W.L.																																				
F.C.																																				
pH																																				
From																		Footage			To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FORMATION		OIL		Stands		Time		
No.																		Size		Type	Size Jts	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	FUEL	WATER	Singles	Start	Stop	Interval	
MUD																		At Surveys Degree			MOTOR HOURS			Next Oil Change												
WEIGHT																		4000			1°															
VISCOSITY																																				
GEL																																				
PUMP																																				
No. 1 Pressure																																				
Model S.P.M.																																				
Liner Size																																				
No. 2 Pressure																																				
Model S.P.M.																																				
Liner Size																																				
W.L.																																				
F.C.																																				
pH																																				

Totco Ring on Bit No. 5

D.P. Caliper Date

Results

Boiler in Operation YES

Toolpusher

B.O.P. Test-Operated 4:15 AM - M.S.H. DRILLING 11:54 8:15 AM

Results WORKING Good

Approved by

CONSERVATION BOARD COPY

Tour - Midnight - 8 a.m.

Specify actual hours worked Hrs.

Driller EDWARD DEMAS 12

Derrick DOUG McLEOD 8

Motor DOUGLAS DAVIDSON 12

Floor DARY JONES 3

Floor RUSSEL VANDERBILT 12

Fireman

Extra

No Injuries Reported This Tour

Signed Driller E. Demas

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

Specify actual hours worked Hrs.

Driller

Derrick KEVIN KRUPENSKI 8

Motor

Floor

Fireman

Extra

No Injuries Reported This Tour

Signed Driller

Tour - 4 p.m. - Midnight

Specify actual hours worked Hrs.

Driller CLIFF KENZIE 12

Derrick Keith Meisner 8

Motor Jerry Papoff 12

Floor August Salty 12

Floor Kevin McHale 12

Fireman

Extra

No Injuries Reported This Tour

Signed Driller

Toolpusher

Approved by

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Date FEBRUARY 24 1974

REMARKS

JOMAX DRILLING LIMITED

Rig # 1 Location PACIFIC-H.B.-N-TATHLINA 1-72-A

Job # 7331 Date FEBRUARY 24 1974

Rig # 1 Location PACIFIC-H.B.-N-TATHLINA 1-72-A

Job # 7331

REMARKS

Start Time Interval

DATE FEB 24-1974

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands
3448	89	3537	7 1/4	78000	8 6 3/4 2 1/2 48 1/2		FUEL 4 1/2	
							WATER	
No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.
5	8 3/4	155	3-14	61747	40000	50	411	30 1/2
5:30 AM DECKLEASID W.O.B. To 30000 R.V. MAP 60								
MUD 12 M. 2 a.m. 4 a.m. 6 a.m. Additives SAWDUST 15 SKS At Surveys Degree MOTOR HOURS Next Oil Change								
WEIGHT 9.4 9.4 9.4 9.4 3219 740 1								
VISCOSITY 36 37 38 38 8500 3 2								
GEL								
No. 1	Pressure	800	800	800	900			
Model	S.P.M.	6 1/2	6 1/2	6 1/2	6 1/2			
No. 2	Pressure	6 1/2	6 1/2	6 1/2	6 1/2			
Model	S.P.M.	6 1/2	6 1/2	6 1/2	6 1/2			
General CLEANED SHAKH TANK.								
W.L. 6.5 F.C. 7/32 PH. 9.4								

RIG SERVICE - B.D.P.s	1200	1215	1 1/4
DRILL 8 3/4" HOLE	1215	445	4 1/2
TAKE HOLE SURVEY w/WIRE LINE	445	515	1 1/2
DRILL 8 3/4" HOLE	515	800	2 3/4
D. Collars 595.63			
Other Ft. W. SUBS			
C.B. Ft.			
Subs. Ft.			
Ft. Up On Kelly 1700			
TOTAL 353100			
Slip Foot Cut Feet Left on Spool Next Slip			
Company Time Cont'r Time			

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands
537	88	3625	7 1/4	78000	8 6 3/4 2 1/2 48 1/2		FUEL	
							WATER	
No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.
5	8 3/4	3-55	3-14	61747	30000	60	499	37 1/2
DRILL 8 3/4" HOLE								
MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives GEL 2400# At Surveys Degree MOTOR HOURS Next Oil Change								
WEIGHT 9.1 9.1 9.1 9.1 3530 3 1								
VISCOSITY 37 38 38 38 3580 2 2 1/2								
GEL								
No. 1	Pressure	800						
Model	S.P.M.	6 1/2						
No. 2	Pressure	6 1/2						
Model	S.P.M.	6 1/2						
General								
W.L. 6.5 F.C. 2/32 PH. 9.4								

RIG SERVICE - BOPS	800	813	1 1/4
TAKE HOLE SURVEY	815	830	1 1/4
DRILL 8 3/4" HOLE	830	1215	3 3/4
Survey	1215	1245	1 1/2
Drill 8 3/4" Hole	1245	4100	3 1/4
D. Collars 595.63			
Other Ft. W. SUBS			
C.B. Ft.			
Subs. Ft.			
Ft. Up On Kelly 26'			
TOTAL 3625			
Slip Foot Cut Feet Left on Spool Next Slip			
Company Time Cont'r Time			

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands
3625	64	3689	7 1/4	78000	8 6 3/4 2 1/2 48 1/2		FUEL	
							WATER	
No.	Size	Type	Size Jaws	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.
5	8 3/4	3-55	3-14	61747	30000	55	563	13 1/2
DRILL 8 3/4" HOLE								
MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives At Surveys Degree MOTOR HOURS Next Oil Change								
WEIGHT 9.4 9.5 9.4 9.4 3640 3 1								
VISCOSITY 37 38 38 38 3640 3 2								
GEL								
No. 1	Pressure	800						
Model	S.P.M.	6 1/2						
No. 2	Pressure	6 1/2						
Model	S.P.M.	6 1/2						
General								
W.L. 7.3 F.C. 2/32 PH. 9.4								

Rig Service	4100	4115	1 1/4
Drill 8 3/4" Hole	4115	6445	2 1/2
Survey	6445	715	1 1/2
Drill 8 3/4" Hole	715	12100	4 3/4
D. Collars 595.63			
Other Ft. W. SUBS			
C.B. Ft.			
Subs. Ft.			
Ft. Up On Kelly			
TOTAL 3689			
Slip Foot Cut Feet Left on Spool Next Slip			
Company Time Cont'r Time			

Totco Ring on Bit No. 5 D.P. Calipered Date Results Boiler in Operation 21 HRS

B.O.P. Test-Operated 1 1/2 HRS Time 8:15 AM Results WORKING GOOD

Toolpusher K. J. Thompson

Approved by K. J. Thompson

CONSERVATION BOARD COPY

Tour — Midnight - 8 a.m.	
Specify actual hours worked	Hrs.
Driller	EDMOND DEMAS 12
Derrick	DOUG M'LEED 12
Motor	DOUGLAS DAVIDSON 12
Floor	DARCY JONES 12
Floor	RUSSEL PLAMONDON 12
Fireman	
Extra	

No Injuries Reported This Tour

Signed Driller Edmond Demas

Tour — 8 a.m. to 4 p.m.	
Specify actual hours worked	Hrs.

Driller	
Derrick	
Motor	
Ft.	
Fireman	VERLA STRACHOT 10
Extra	HANS LABANKO 10
	AMPATT JOE GALLAND 10
No Injuries Reported This Tour	

Tour — 4 p.m. - Midnight	
Specify actual hours worked	Hrs.

Driller	Leo Wagner 12
Derrick	Ken Krupinski 12
Motor	Martin Poll 12
Floor	Brad Jason 12
Floor	Dave Shields 12
Fireman	
Extra	

No Injuries Reported This Tour

Signed Driller Leo Wagner

Toolpusher K. J. Thompson

Approved by K. J. Thompson

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1 Location PACIFIC-H.B.-N-TATHLINA-1-72-A

Job# 7331

Date FEBRUARY 23 1974

REMARKS

DATE FEB 23/74

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	FUEL	WATER	Stands	REMARKS	Start	Stop	Interval
3130	90	3220	7 1/4	78000	28 48					2595.42	RIG SERVICE ✓ B.O.P.s	1200	1215	15
											Singles	1		
											D. Collars	595.63		
											Other Ft.	W/50.55		
											C.B. Ft.			
											Subs. Ft.			
											Ft. Up On Kelly	72.00		
											TOTAL	3220.05		
											Slip			
											Feet Cut			
											Feet Left on Spool			
											Next Slip			
											Company Time			
											Cont'r Time			
											Stands	2653		
											Singles	60.14		
											D. Collars	595.63		
											Other Ft.	W/50.55		
											C.B. Ft.			
											Subs. Ft.			
											Ft. Up On Kelly	25		
											TOTAL	3325		
											Slip			
											Feet Cut			
											Feet Left on Spool			
											Next Slip			
											Company Time			
											Cont'r Time			
											Stands	2834		
											Singles			
											D. Collars	595.63		
											Other Ft.	W/50.55		
											C.B. Ft.			
											Subs. Ft.			
											Ft. Up On Kelly	22		
											TOTAL	3448		
											Slip			
											Feet Cut			
											Feet Left on Spool			
											Next Slip			
											Company Time			
											Cont'r Time			

Totco Ring on Bit No. 5
B.O.P. Test-Operated HYDRIL

D.P. Caliper Date 8:15 A.M.

Results WORKING

Boiler in Operation GOOD

Toolpusher K. H. Jones

Approved by

CONSERVATION BOARD COPY

JOMAX DRILLING LIMITED

Rig# 1 Location TATHLINA-1-72-A
Job# 7331 Date FEB 23 1974

Tour — Midnight - 8 a.m.
Specify actual hours worked Hrs.
Driller EDMOND DEMAS 12
Derrick DOUG McLEOD 12
Motor DOUGLAS DAVIDSON 12
Floor DARCY JONES 12
Floor RUSSEL PLAMONDON 12
Fireman
Extra

No Injuries Reported This Tour

Signed Driller E. Demas

Tour — 8 a.m. to 4 p.m.
Specify actual hours worked Hrs.
Driller
Derrick
Motor
Floor

Fireman VERLA STANLEY 10
Extra HANS LABANKO 10
LAMPART, JOE GALLUND 10
No Injuries Reported This Tour

Signed Driller

Tour — 4 p.m. - Midnight
Specify actual hours worked Hrs.
Driller Leo Wagner 12
Derrick KEN KRUPINSKI 12
Motor MARTIN DOLL 12
Floor Brad Jason 12
Floor Dave Shields 12
Fireman
Extra

No Injuries Reported This Tour

Signed Driller Leo Wagner

Toolpusher T. H. Jones
Approved by

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1 Location PACIFIC-H-B-N-TATHLINA-1-72-4

Job# 7331

Date FEB 22 1974

REMARKS

DATE FEB-22-1974

JOMAX DRILLING LIMITED

Rig# 1 Location TATHLINA-1-72-4
Job# 7331 Date FEB 22 1974

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FORMATION		OIL	REMARKS		Start	Time Stop	Interval
No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars	Other Ft.	C.B. Ft.	Subs. Ft.	Ft. Up On Kelly
2933	131	3070	7 1/4	70000	7	6 1/2	28	40				2565.25		12:00	1:15	1 1/4
DRILL 8 3/4" HOLE																
TAKE HOLE SURVEY																
RIG SERVICE - B.O.P.s																
DRILL 8 3/4" HOLE																
MUD																
WEIGHT 9.3																
VISCOSITY 39																
GEL																
PUMPS																
No. 1 Pressure 1050																
Model S.P.M. 62																
Liner Size 6"																
No. 2 Pressure 1050																
Model S.P.M. 62																
Liner Size 6"																
W.L. F.C. 3/32 pH. 9.0																
3070	56	3126	13 1/4	70000	7	6 1/2	28	40				25		8:00	8:15	1/4
RIG SERVICE - B.O.P.s																
DRILL 8 3/4" HOLE																
CIRC & WORK PIPE																
HOISTED BIT 4																
PICK UP LINE IN DWHS																
MUD																
WEIGHT 9.3																
VISCOSITY 39																
GEL																
PUMPS																
No. 1 Pressure 1100																
Model S.P.M. 62																
Liner Size 6"																
No. 2 Pressure 1100																
Model S.P.M. 62																
Liner Size 6"																
W.L. F.C. 3/32 pH. 9.0																
3126	4	3130	1	7	7	6 1/2	28	47				25		4:00	4:15	1/4
LAY DOWN BIT DRILL																
COLLAR 4. BIT 54B																
PICK UP 5 DRILL COLLARS																
LAY DOWN 4 JTS PIPE																
PICK UP W/ PIPE																
Blow Kelly + Break Circ																
Drill 8 3/4" Hole																
MUD																
WEIGHT 9.3																
VISCOSITY 39																
GEL																
PUMPS																
No. 1 Pressure 1100																
Model S.P.M. 62																
Liner Size 6"																
No. 2 Pressure 1100																
Model S.P.M. 62																
Liner Size 6"																
W.L. F.C. pH.																

Totco Ring on Bit No. 4

D.P. Caliper Date

Results

Boiler in Operation 24 HRS

Toolpusher

B.O.P. Test-Operated 4/10/74

Time 8:15 AM

Results WORKING

GOOD

Approved by

CONSERVATION BOARD COPY

Tour - Midnight - 8 a.m.

Specify actual hours worked

Driller EDMOND DENIAS 12

Derrick ROUG McLEOD 12

Motor DOUGLAS DAVIDSON 12

Floor DANCY JONES 12

Floor

Fireman

Extra

No Injuries Reported This Tour

Signed Driller E. Denias

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

Specify actual hours worked

Driller

Derrick

Motor

Floor

Fireman

Extra

Signed Driller DORTHY RANDAL 10

Extra

Signed Driller JOE GALLAND 10

No Injuries Reported This Tour

VERA STRASHOK 10

HANS KABAUKO 10

Signed Driller

Tour - 4 p.m. - Midnight

Specify actual hours worked

Driller Leo Wagner 12

Derrick KEN KUPINSKI 12

Motor MARTIN DALL 12

Floor BRAD JASON 12

Floor DAVE SHIELDS 12

Fireman

Extra

No Injuries Reported This Tour

Signed Driller Leo Wagner

Toolpusher Keith Thompson

Approved by

DAILY DRILLING REPORT

Date FEB 21 1974

REMARKS

DATE	REMARKS
FEB 21/74	

JOMAX DRILLING LIMITED

JOMAX DRILLING LIMITED
Rig# 1 Location THAILAND 1-72 A
Job# 7331 Date FEB 21 1974

[illegible][illegible][illegible]

B.O.P. Test-Operated 42" RAMS Time 8¹⁵ AM

Results

Boiler in Operation

2. Tool purchase

Results **WORKING GOOD**

Approved by _____

CONSERVATION BOARD COPY

Tour — Midnight - 8 a.m.	
Specify actual hours worked	Hrs.
Driller <u>EDMOND DEMAS</u>	<u>12</u>
Derrick <u>DOUG MCCLEOD</u>	<u>12</u>
Motor <u>DOUGLAS DAVIDSON</u>	<u>12</u>
Floor <u>DARCY JONES</u>	<u>12</u>
Floor <u>CLARE FINGAS</u>	<u>12</u>
Fireman	
Extra	
No Injuries Reported This Tour	
C. FINGAS BROKE HIS KN 2 TEETH WHEN HE SLIPPED ON FLOOR.	
Signed Driller <u>E. Demas</u>	
Tour — 8 a.m. to 4 p.m.	
Specify actual hours worked	Hrs.
Driller	
Derrick	
Motor	
Floor	
Floor	
Fireman <u>DOT RANDAL</u>	<u>10</u>
Extra	
<u>AMPAI JOE GALLUND 10</u>	
No Injuries Reported This Tour	
Signed Driller	
Tour — 4 p.m. - Midnight	
Specify actual hours worked	Hrs.
Driller <u>Leo Wagner</u>	<u>12</u>
Derrick <u>Ken Kruginski</u>	<u>12</u>
Motor <u>Martin Doll</u>	<u>12</u>
Floor <u>Brad Tason</u>	<u>12</u>
Floor <u>Dave Shields</u>	<u>12</u>
Fireman	
Extra	
No Injuries Reported This Tour	
Signed Driller <u>Leo Wagner</u>	
Toolt pusher <u>Keith Thompson</u>	
Approved by <u>Keith Thompson</u>	

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1 Location PACIFIC-H-B-N-TATHLING 1-72-A Job# 7331

Date FEB 21 1974

REMARKS

DATE FEB 21/74

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	FUEL	WATER	Stands												
No.	Size	Type	Size Jots	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs.	Feet Reamed	Mrs.	CONDITION	D. Collars	Other Ft.									
2508	152	2660	7 1/4	65	7 1/4	28	40															
4	8 1/2	XIG	3-13	64001	35	70	152	7 1/4			DRILLING											
MUD											12 M	2 M	4 a.m.	6 a.m.	Additives	At Surveys Degree	MOTOR HOURS	Next Oil Change				
WEIGHT											8.7	8.7				2500	2					
VISCOSITY											WATER											
GEL											1000	1000										
PUMPS											No. 1	Pressure										
Model											S.P.M.	62	62	1000								
Liner Size											6"	6"	6"									
No. 2											Pressure											
Model											S.P.M.											
Liner Size											6"	6"	6"									
W.L.											F.C.											
From											Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	FUEL	WATER	Stands		
2660											122	2782	7 3/4	66	7 3/4	28	40					
4											8 1/2	XIG	3-13	64001	35	70	274	15			DRILL	
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	Pressure										
Model											S.P.M.											
Liner Size											6"	6"	6"									
No. 2											Pressure											
Model											S.P.M.											
Liner Size											6"	6"	6"									
W.L.											F.C.											
From											Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	FUEL	WATER	Stands		
2782											151	2933	7 1/4	67	7 1/4	28	40					
4											8 1/2	XIG	3-13	64001	35	70	425	20			DRILL	
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	Pressure										
Model											S.P.M.											
Liner Size											6"	6"	6"									
No. 2											Pressure											
Model											S.P.M.											
Liner Size											6"	6"	6"									
W.L.											F.C.											

REMARKS	Start	Time	Interval
RIG SERVICE 1 BOPS	1200	1215	15
DRILL 8 1/2" HOLE	1215	330	34
REPAIR VALVE 4 1/2" #1 PUMP	330	1100	2
DRILL 8 1/2" HOLE	1100	800	4
Company Time			
Cont'r Time			
Rig Service 1 Bops.	8.00	8.15	15
Drill 8 1/2" HOLE	8.15	4.00	7 3/4
Company Time			
Cont'r Time			
Rig Service	4.00	4.15	15
Drill 8 1/2" HOLE	4.15	12.00	7 1/4
Company Time			
Cont'r Time			

JOMAX DRILLING LIMITED

Rig# 1 Location PACIFIC-H-B-N-TATHLING 1-72-A Job# 7331 Date FEB 21 1974

Tour — Midnight - 8 a.m.

Specify actual hours worked

Hrs.

Driller: EDMOND DEMAS 12

Derrick: DOUG McLEOD 12

Motor: DOUGLAS DAVIDSON 12

Floor: DARCY JONES 12

Floor: CLARE FINGAS 12

Fireman

Extra

No Injuries Reported This Tour

C. FINGAS BROKE AMS
AND 2 TEETH WHEN HE
SLIPPED ON FLOOR.

Signed Driller: E. Demas

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked

Hrs.

Driller

Derrick

Motor

Floor

Fireman

Extra

No Injuries Reported This Tour

Signed Driller: L. Wagner

Tour — 4 p.m. - Midnight

Specify actual hours worked

Hrs.

Driller: Leo Wagner 12

Derrick: Ken Krupinski 12

Motor: Martin Doll 12

Floor: Brad Tason 12

Floor: Dave Shields 12

Fireman

Extra

No Injuries Reported This Tour

Signed Driller: L. Wagner

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked

Hrs.

Driller: Leo Wagner 12

Derrick: Ken Krupinski 12

Motor: Martin Doll 12

Floor: Brad Tason 12

Floor: Dave Shields 12

Fireman

Extra

Totco Ring on Bit No. 4 H D.P. Calipered Date

B.O.P. Test-Operated 4 1/2" RAMS Time 8:15 AM

Results

Boiler in Operation

Results WORKING GOOD

Approved by

CONSERVATION BOARD COPY

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1

Location PACIFIC-H-B-N-TATHLINE 1-72-A

Job# 7331

Date FEBRUARY 20 1974

REMARKS

DATE FEB 20 1974

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	STANDS
2154	186	2345	7 1/4	64000	7 6 1/2 28 70 1/2			1963
					FUEL			
					WATER			
					CONDITION			
					D. Collar			
					Other Ft.			
					C.B. Ft.			
					Subs. Ft.			
					Ft. Up Kelly			
					TOTAL			
					Size			
					TRIPS			
					No. Lines			
					TON MILES			
					TOTAL MILES			
					Slip			
					Feet or			
					Cut			
					Feet Left on Spool			
					Next Slip			
					General			
					W.L.			
					F.C.			
					pH.			

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	STANDS
2345	138	2483	7 1/4	64 M	7 6 1/2 28 70 1/2			1963
					FUEL			
					WATER			
					CONDITION			
					D. Collar			
					Other Ft.			
					C.B. Ft.			
					Subs. Ft.			
					Ft. Up On Kelly			
					TOTAL			
					Size			
					TRIPS			
					No. Lines			
					TON MILES			
					TOTAL MILES			
					Slip			
					Feet or			
					Cut			
					Feet Left on Spool			
					Next Slip			
					General			
					W.L.			
					F.C.			
					pH.			

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	STANDS
2483	25	2508	3/4	64 M	7 6 1/2 28 70 1/2			1993
					FUEL			
					WATER			
					CONDITION			
					D. Collar			
					Other Ft.			
					C.B. Ft.			
					Subs. Ft.			
					Ft. Up On Kelly			
					TOTAL			
					Size			
					TRIPS			
					No. Lines			
					TON MILES			
					TOTAL MILES			
					Slip			
					Feet or			
					Cut			
					Feet Left on Spool			
					Next Slip			
					General			
					W.L.			
					F.C.			
					pH.			

Totco Ring on Bit No.

D.P. Calipered Date

Results

Boiler in Operation

Teelpusher

B.O.P. Test-Operated

HYDRIL

Time

8:55 AM

Results

WORKING GOOD

Approved by

CONSERVATION BOARD COPY

JOMAX DRILLING LIMITED

Rig# 1 Location PACIFIC-H-B-N-TATHLINE 1-72-A

Job# 7331 Date FEB 20 1974

Tour — Midnight — 8 a.m.

Specify actual hours worked

Hrs.

Driller EDMOND DEMAS 12

Derrick DOUG M'CLEDD 12

Motor DOUGLAS DAVIDSON 12

Floor DARCY JONES 12

Floor CLARE FINGAS 12

Fireman

Extra

No Injuries Reported This Tour

Signed Driller E. Demas

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked

Hrs.

Driller

Derrick

Motor

Floor

Fireman

Extra

No Injuries Reported This Tour

Signed Driller

Tour — 4 p.m. — Midnight

Specify actual hours worked

Hrs.

Driller Leo Wagner 12

Derrick Ken Krupinski 12

Motor Martin Doll 12

Floor Brad Jason 12

Floor Dave Shieff 12

Fireman

Extra

No Injuries Reported This Tour

Signed Driller Leo Wagner

Tour — 8 a.m. to 4 p.m.

Specify actual hours worked

Hrs.

Driller

Derrick

Motor

Floor

Fireman

Extra

No Injuries Reported This Tour

Signed Driller

Tour — 4 p.m. — Midnight

Specify actual hours worked

Hrs.

Driller

Derrick

Motor

Floor

Fireman

Extra

No Injuries Reported This Tour

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1 Location PACIFIC-H.B.-N-TATNLING-1-72-A

Job# 7331

Date FEBRUARY 19 1974

REMARKS

DATE FEB 19-1974

From	Footage	To	Mrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands				
No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
1558	76	1634	2	62000	7	63	27	404				1023
2	8 3/4	XIG	3-13	62865	30	85	424		DRIPPED	3-3-1		61.14
MUD 12 Mn. 2 a.m. 4 a.m. 6 a.m. Additives												
WEIGHT 8.6 1.6 6.6 8.6												
VISCOSITY WATER												
GEL												
PUMP No. 1 Pressure 950 750 120 950												
Model S.P.M. 62 62 62 62												
Liner Size 6 6 6 6												
No. 2 Pressure 6 6 6 6												
Model S.P.M. 6 6 6 6												
Liner Size 6 6 6 6												
W.L. F.C. pH. 9.5												
1634	366	1900	6 1/4	62M	7	63	27	404				1371
3	8 3/4	XIG	3-13	64008	20-25	85	640	64			DRILL	485.83
MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives												
WEIGHT 1.6 8.6 8.7												
VISCOSITY WATER												
GEL												
PUMP No. 1 Pressure 950 950												
Model S.P.M. 62 62												
Liner Size 6 6												
No. 2 Pressure 6 6												
Model S.P.M. 6 6												
Liner Size 6 6												
W.L. F.C. pH.												
1900	259	2159	7 1/2	63 M	7	63	27	404				1552
3	8 3/4	XIG	3-13	64008	20-25	85	719	132			DRILL	485.83
MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives												
WEIGHT 8.1 3.4 4.6 3.1												
VISCOSITY WATER												
GEL												
PUMP No. 1 Pressure 950 950												
Model S.P.M. 62 62												
Liner Size 6 6												
No. 2 Pressure 6 6												
Model S.P.M. 6 6												
Liner Size 6 6												
W.L. F.C. pH.												

REMARKS	Start	Time	Interval
RIG SERVICE ✓ B.O.P.	1700	1215	4
DRILL 8 3/4" HOLE	1215	130	1 3/4
CHANGE 4-3" SWEDGE ON SWIVEL	130	145	1/4
DRILL 8 3/4" HOLE	145	230	3/4
LOST 300 PSI PUMP PRES. ✓	230	315	3/4
LOST 40000 STRING WT. TRIP OUT			
BROKEN PIN ON SINGLE TOP OF D.C.			
PICK UP MAKE UP OVERSHOT W/ 3'S			
64" GRAPELS. (AMERICAN 8 3/4" O.D.)			
TRIP IN TO FISH & FISH	415	530	1 1/4
TRIP OUT RECOVERED FISH BACK OFF 530	630		1
TRIP IN W/ NEW BIT REMOVE RUBBER			
Company Time Cont'r Time FROM D.P.	630	800	1 1/2
FINISH TRIP IN	900	900	1
BREAK CIRC & CLEAN TO BOTTOM	900	915	1/4
RIG SERVICE CHECK B.O.P.	915	930	1/4
DRILL 8 3/4" HOLE	930	220	4 1/2
Survey	2,100	2,15	1/4
Drill 8 3/4" Hole	2,15	4,00	1 3/4
5			
Company Time Rig Service			
DRILL 8 3/4" Hole	4,100	4,15	6 1/4
Survey	4,15	10,15	6
Drill 8 3/4" Hole	10,15	10,30	1/4
10,30	12,00	1 1/2	
Company Time			
Cont'r Time			

JOMAX DRILLING LIMITED

Rig# 1 Location PACIFIC-H.B.-N-TATNLING-1-72-A

Job# 7331 Date FEB 19 1974

Tour - Midnight - 8 a.m.

Specify actual hours worked Hrs.

Driller LOMOND L. DEMAS 12

Derrick DOUG MCLEOD 12

Motor DOUGLAS DAVIDSON 12

Floor DARCY JONES 12

Floor CLARE FINGAS 12

Fireman

Extra

No Injuries Reported This Tour

Signed Driller E. Demas

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

Specify actual hours worked Hrs.

Driller

Derrick

Motor

Floor

Fireman

Extra

No Injuries Reported This Tour

Signed Driller Joe Galland 10

Tour - 4 p.m. - Midnight

Specify actual hours worked Hrs.

Driller Leo Wagner 12

Derrick Ken Kowalski 12

Motor Martin Dall 12

Floor Brad Jason 12

Floor Dave Shields 12

Fireman

Extra

No Injuries Reported This Tour

Signed Driller L. Wagner

Toolpusher Keith Thompson

Approved by

Totco Ring on B+ No. D.P. Caliper Date

B.O.P. Test-Operated Time

Results

Results

Boiler in Operation

CONSERVATION BOARD COPY

Approved by

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1 Location Pacific H-B. N Totling I-72 H Job# 1331

Date Feb 18 1974

REMARKS

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands
1130	100	1235	4 1/4	54 M	No. 9 7/8 2 1/4 40		FUEL 4 3/4	718.28
Drill 8 3/4 hole Rig up Serv. + Kellylock + ROPS. Drill 8 3/4 hole Rig up to Hoist P.N.C. Hoist 8 3/4 B.T. Make up new 8 3/4 Clean Junk Sub Prepait to Run in hole Run in Hole with 8 3/4 B.T. Brake C.V.C. Drill 8 3/4 Hole								
Company Time 8:00 Cont'r Time 8:15 Tour — 8 a.m. to 4 p.m.								
Specify actual hours worked Driller EDMOND DEANAS 8 Derrick DOUG McLEOD 8 Motor DOUGLAS DAVIDSON 8 Floor DARCY JONES 8 Fireman CLARE FINGAS 8 Extra DOT KANDALL 8 No Injuries Reported This Tour								
Signed Driller E. Demos.								
Tour — 4 p.m. - Midnight								
Specify actual hours worked Driller Leo Wagner 8 Derrick Ken Krupinski 8 Motor Martin Doll 8 Floor Brad Jason 8 Floor Dave Shields 8 Fireman Extra No Injuries Reported This Tour								
Signed Driller Leo Wagner								

JOMAX DRILLING LIMITED

Rig# 1 Location Totling I-72 H Job# 7331 Date Feb. 19 1974

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands
1235	125	1360	4 1/4	5700	No. 9 7/8 2 1/4 40		FUEL	485.83
RIG SERVICE V B.O.P.s. DRILL 8 3/4" HOLE RIG OUT TO RUN CASING COLLAR LOCATOR. RIE UP & RUN CASING COLLAR LOCATE. TRIP IN W/ RIFRAN BIT #2 DRILL 8 3/4" HOLE.								
Company Time 4:00 Cont'r Time 4:15 Tour — 4 p.m. - Midnight								
Specify actual hours worked Driller Leo Wagner 8 Derrick Ken Krupinski 8 Motor Martin Doll 8 Floor Brad Jason 8 Floor Dave Shields 8 Fireman Extra No Injuries Reported This Tour								
Signed Driller Leo Wagner								

Totco Ring on Bit No.

D.P. Caliper Date

Results

Boiler in Operation

Toolpusher

S.O.P. Test-Operated

BLIND RAMS

Time

Results

WORKING GOOD

Approved by

CONSERVATION BOARD COPY

DRILLING AUTHORITY NO: 747

REGION: NORTHWEST TERRITORIES

WELL BULLETIN
OIL & MINERAL DIVISION - OIL & GAS SECTION
DEPARTMENT OF INDIAN AND NORTHERN AFFAIRS

DATE APPROVED: 1974-02-19

COMPANY: Pacific Petroleum Limited

PERMIT/~~LEASE~~ NO: 4139

WELL NAME: FROM: Pacific HB N Tathlina I-72A
TO: Pex Amoco N Tathlina I-72A

LOCATION: UNIT I SECTION 72A GRID 60-30-118-00

Latitude $60^{\circ}21'30.5''$ N Longitude $118^{\circ}13'17''$ W

Unique Well Identifier 3021726030118000

Universal Well Location Reference

Latitude 60.35847° N Longitude 118.22139° W

CLASSIFICATION: Exploratory

ELEVATION: G.L. 1108 (est.) K.B. 1120 (est.)

APPROVED FINAL DEPTH: 4,190'

CONTRACTOR: Jomax Drilling Ltd.

RIG NO. 1

For Further information contact:



A/Regional Manager - Oil & Gas Section
Department of Indian & Northern Affairs

Northern Non-renewable Resources Branch - Direction des ressources non renouvelables du Nord

Drilling Authority No.
N° de l'autorisation de forage

747

Date issued:
Date de délivrance

1974-02-19

Application is made hereby to change the name of the well, recorded in the well Name Register as -

Nous demandons l'autorisation de modifier le nom d'un puits, inscrit au Répertoire des puits sous le nom de -

Old name - Ancien nom:

PACIFIC HB N TATHLINA I-72A

Proposed new name - Nouveau nom proposé:

TO:
A: PEX AMOCO N TATHLINA I-72A

WELL LOCATION - EMPLACEMENT DU Puits

LOCATION:
EMPLACEMENT:

Unit - Unité

I

Section

72

Grid - Étendue quadrillée

60-30-118-00

Latitude

60° 21' 30.5" N

Longitude

118° 13' 17" W

Unique Well Identifier - Code de l'ordinateur

302I726030118000

Universal Well Location Reference - Références universelles d'emplacement du puits

LAT 60.35847° N LONG 118.22139° W

Reason for Changing Well Name - Motif de modification du nom du puits

Well now owned and operated by Petro-Canada.

Date at: Calgary, Alta. this 2nd day of April 1981
Date à: ce jour de

Signed by - Signé par
Original Signed By
D. M. OSMUS
Title - Titre
Manager, Operations
Company - Société
Petro-Canada Exploration Inc.

BRANCH USE ONLY - À L'USAGE DE LA DIRECTION

APPROVED - APPROUVÉ - This application has been examined and approved:
Demande étudiée et approuvée:

Date
1981-05-22
District Conservation Engineer - Ingénieur en conservation du district
M. J. L. Smith

Form to be submitted in triplicate to the District Conservation Engineer, to:
Faire parvenir cette formule en trois exemplaires à L'Ingénieur en conservation à:
Indian and Northern Affairs - Affaires indiennes et du Nord.

 Indian and Northern Affairs Affaires indiennes et du Nord OIL AND MINERAL DIVISION WELL-SITE INSPECTION REPORT DIVISION DU PÉTROLE ET DES MINÉRAUX RAPPORT D'INSPECTION DE L'EMPLACEMENT DU Puits	File No. N° de dossier
	Drilling authority No. 747 Permis de forage N°

From: Field Office or Area — Bureau régional ou zone De: YELLOWKNIFE, N.W.T.	Date 1981-05-20
To: The Oil Conservation Engineer: À: L'ingénieur (Conservation des hydrocarbures):	

RE: Au sujet de: **Pacific HB N Tathlina I-72A - NOW: Pex Amoco N Tathlina I-72A**

Location — Emplacement 60°21'31" 118°13'17"	Statut — État D&A
---	---------------------------------

This location was inspected by the undersigned on 1981-04-20
 L'emplacement a été inspecté par le soussigné le 1981-04-20

The location is in ☒ satisfactory ☐ unsatisfactory condition
 L'état de l'emplacement est satisfaisant insatisfaisant

The following items require attention — Porter une attention spéciale aux articles suivants:

- 1-
- 2-
- 3-
- 4-
- 5-
- 6-

Other comments and recommendations : (include map, if necessary for clarity) — Autres commentaires et recommandations (ajouter des cartes géographiques au besoin)

A Fly-by Inspection was conducted on the above captioned well.
 We were unable to land due to the load on the helicopter. No pictures were taken, however, the site is exceptionally clean and some return growth including small deciduous and conifer trees were evident.
 No visible Well Identifier.

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1 Location Pacific H-B-N Tethyma I-72-A Job# 7331 Date Feb 16 1974

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands	REMARKS	Start	Stop	Interval
480	124	604	3	47000	No. 16 O.D. 2 1/2 I.D. 2 3/4 Wgt. 40			4	Rig up to Press, Test.	12:00	2:30	2 1/2
1	8 3/4	X15	2-13	64027	15 M 100 170	82			Press. Test Blind Runs 1500 PSI	2:30	3:00	1/2
									Ran 1 m hole with 4 3/4" BIT.	3:00	4:00	1
									12 COLLARS. 1 JTS Drill pipe.			
									Make up Kelly hose Rig up			
									to Press, test Hybrill and			
									Pipe Runs to 2000 PSI.			
									Hybrill and Rams Holding	4:00	7:00	3
									Run in to 443' top of Plug	7:00		
									Brake Cinc		7:30	1/2
									Drill on insert	7:30	8:00	1/2
									Company Time			
									Cont'r Time			
480	124	604	3	47000	No. 16 O.D. 2 1/2 I.D. 2 3/4 Wgt. 40			4	RIG SERVICE U BDPs	8:00	8:15	1/4
1	8 3/4	X15	2-13	64027	15 M 100 170	82			FINISH DRILLING INSERT & CEMENT	8:15	8:45	1/2
									DRILL 8 3/4" HOLE	8:45	12:30	3 3/4
									REPAIR SWIDEL 3" 4" SWEDGE	12:30	1:00	1/2
									KELLY RUBBING IN CASING BOWL	1:00		
									LAY DOWN 2 DR. COLLARS &			
									REPLACE W/ 2 SINGLES DRILL	2:15		1/4
									PIPE & ABOVE BDPs.			
									DRILL 8 3/4" HOLE	2:15	1:00	1 3/4
									Company Time			
									Cont'r Time			
604	46	650	3	45 M 16 6 1/2 2 3/4 40				105	Rig Service	4:00	4:15	1/4
1	8 3/4	X15	2-13	64027	15 M 100 170	82			Drill 8 3/4" Hole	4:15	7:15	3
									PULLED UP TO PUT RUBBER			
									PROTECTOR ON SINGLE BLOW (6650 PSI)			
									KELLY UNABLE TO CONTINUE DRILL			
									IRON ON BOTTOM PULL OUT			
									ONE TON BRINE OFF OTHER			
									CHIPPED PUT ON JARVIS BASKET & RAN			
									IN TO 5400 TRUBLE PASSING 5400			
									RAN IN TO BOTTOM & WORK JUNE			
									SUR ON IRON	7:15	12:00	4 3/4
									Company Time			
									Cont'r Time			

Toice Ring on Bit No. D.P. Calipered Date Results Boiler in Operation Toolpusher Keith Thompson Approved by K.M. Thompson

REMARKS

DATE

JOMAX DRILLING LIMITED

Rig# 1 Location Tethyma I-72-A Job# 7331 Date Feb 16 1974

Tour - Midnight - 8 a.m.

Specify actual hours worked Hrs.

Driller Cliff Kozle 8

Derrick Keith Morrison 12

Motor Jerry Koroff 8

Floor August Sobry 8

Floor Kevin McHale 8

Fireman

Extra

No Injuries Reported This Tour

Signed Driller Cliff Kozle

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

Specify actual hours worked Hrs.

Driller EDWARD DEMAS 8

Derrick DOUG MCLEOD 12

Motor LINDAS DAVIDSON 8

Floor DAREY JONES 8

Floor CLAKE FINGAS 8

Fireman DUT RANDAL 10

Extra VIGIAN BUE 10

ANPAT. JOE GALLUND 10

No Injuries Reported This Tour

Signed Driller E. Demas

Tour - 4 p.m. - Midnight

Specify actual hours worked Hrs.

Driller Leo Wagner 8

Derrick

Motor Martin Dell 8

Floor Brad Jason 8

Floor Dave Shields 8

Fireman

Extra

No Injuries Reported This Tour

Signed Driller Leo Wagner

Toolpusher Keith Thompson

Approved by

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1 Location Tofthina Lake I-72-A Job# 7331

Date Feb. 15 1974

REMARKS

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FORMATION		OIL	Stands
					No.	O.D.	I.D.	Wgt.			FUEL	
											WATER	
No.	Size	Type	Size Jct	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
MUD 12.5% 45% 32.3% 1K5 ST-4C 8RD 1K3												
MANY CASY TOTAL LENGTH 483.20 W/ HOWCO INSERT FLOAT. LANCED ON BOTTOM @ 480 KB W/ INSERT FLOAT @ 443.35 KB												
MUD 12.5% 45% 32.3% 1K5 ST-4C 8RD 1K3												
WEIGHT CEMENTED W/ 400 SAX CONST CEMENT 20% CAL CL												
VISCOSITY DIS 1000000 PLUG TO HOWCO INSERT FLOAT												
GEL @ 443.35 KB W/ 35 BBLs WATER @ 63 BBLs/min												
No. 1	Pressure											
Model	S.P.M.											
Liner	Size											
No. 2	Pressure											
Model	S.P.M.											
Liner	Size											
Plug down 230 AM FEB 15/74												
General FLOAT HELD OK												
APPR 2 BBLs RETURNS TO SURFACE												
W.L.	F.C.	pH.										

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FORMATION		OIL	Stands
					No.	O.D.	I.D.	Wgt.			FUEL	
											WATER	
No.	Size	Type	Size Jct	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
MUD 8 a.m. 10 a.m. 12 Noon 2 p.m. Additives												
WEIGHT												
VISCOSITY												
GEL												
No. 1	Pressure											
Model	S.P.M.											
Liner	Size											
No. 2	Pressure											
Model	S.P.M.											
Liner	Size											
General												
W.L.	F.C.	pH.										

From	Footage	To	Hrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS				FORMATION		OIL	Stands
					No.	O.D.	I.D.	Wgt.			FUEL	
											WATER	
No.	Size	Type	Size Jct	Serial No.	Weight	R.P.M.	Ft. Drilled	Hrs.	Feet Reamed	Hrs.	CONDITION	D. Collars
MUD 4 p.m. 6 p.m. 8 p.m. 10 p.m. Additives												
WEIGHT												
VISCOSITY												
GEL												
No. 1	Pressure											
Model	S.P.M.											
Liner	Size											
No. 2	Pressure											
Model	S.P.M.											
Liner	Size											
General												
W.L.	F.C.	pH.										

REMARKS	Start	Stop	Interval
Finish Running Casing	12:00	12:30	1/2
Circ. Hole, Work Pipe	12:30	1:00	1
Rig to cement cement	1:30	2:30	1
AND DISPLACE			
WOC	2:30	8:00	5 1/2
Company Time			
Cont'r Time			
W.O.C CUT OFF CASING-WELD	8:00		
ON 900 STRIPS CASING BOWLE			
NIPPLE UP BOPS	4:00	8	
Company Time			
Cont'r Time			
Finish nippleing up BOPS	4:00		
Lay Flare Line &			
Prime Pumps	2:00		
Company Time			
Cont'r Time			

Totco Ring on Bit No. D.P. Caliper Date Results Boiler in Operation Toolpusher Approved by

CONSERVATION BOARD COPY

JOMAX DRILLING LIMITED

Rig# 1 Location Tofthina Lake I-72-A Job# 7331 Date Feb. 15 1974

Tour — Midnight to 8 a.m.	
Specify actual hours worked	Hrs.
Driller	Keith Wagner 8
Derrick	Keith Wagner 12
Motor	Berry P. 6
Floor	August S. 8
Floor	Kevin M. Hale 8
Fireman	
Extra	

No Injuries Reported This Tour

Tour — 8 a.m. to 4 p.m.	
Specify actual hours worked	Hrs.
Driller	EDMOND DEANIS 8
Derrick	DOUG MCLEOD 8
Motor	DOUGLAS DAVIDSON 8 12
Floor	DARCY JONES 8
Floor	CLARE FINGUS 8
Fireman	DOT RANDAL 10
Extra	ADRIAN BUE 10
Extra	JOE GALLAND 10

No Injuries Reported This Tour

Tour — 4 p.m. to Midnight	
Specify actual hours worked	Hrs.
Driller	Leo Wagner 8
Derrick	
Motor	Martin Doll 8
Floor	Brad Tassan 8
Floor	Dave Shields 8
Fireman	
Extra	

No Injuries Reported This Tour

Tour — 8 a.m. to 4 p.m.	
Specify actual hours worked	Hrs.
Driller	Leo Wagner 8
Derrick	
Motor	Martin Doll 8
Floor	Brad Tassan 8
Floor	Dave Shields 8
Fireman	
Extra	

No Injuries Reported This Tour

JOMAX DRILLING LIMITED

DAILY DRILLING REPORT

Rig# 1 Location Tathlina Lake I-72 H. Job# 7331

Date Feb 13 1974

REMARKS

DATE

From	Footage	To	Mrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands
198	50	128	22	20	No. 1 O.D. I.D. Wgt.		FUEL	5
							WATER	
No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs. Foot Reamed
1	13	DT33	2-14	20391				
MUD					At Surveys Degree	MOTOR HOURS	Next Oil Change	
WEIGHT					16			
VISCOSITY					100	105	115	
GEL								
No. 1	Pressure							
Model	S.P.M.							
No. 2	Pressure							
Model	S.P.M.							
W.L.					F.C.	pH.		

From	Footage	To	Mrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands
128	84	212	34	9000	No. 2 O.D. I.D. Wgt.		FUEL	125 19
							WATER	
No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs. Foot Reamed
1A	15"	DT28	2-14	K711	6-11M	125	143	708
2A	8 3/4"	X16	2-15	62926	3-4M	155	69	2 1/2
MUD					At Surveys Degree	MOTOR HOURS	Next Oil Change	
WEIGHT					124	70		
VISCOSITY					105	150	13	
GEL								
No. 1	Pressure							
Model	S.P.M.							
No. 2	Pressure							
Model	S.P.M.							
W.L.					F.C.	pH.		

From	Footage	To	Mrs. on Bottom	Wt. Drill String (1000 lbs.)	DRILL COLLARS	FORMATION	OIL	Stands
212	213	425	6	22	No. 2 O.D. I.D. Wgt.		FUEL	342
							WATER	
No.	Size	Type	Size Jets	Serial No.	Weight	R.P.M.	Ft. Drilled	Mrs. Foot Reamed
2A	8 3/4"	X16	2-14	62926	4M	155	82	8 1/2
MUD					At Surveys Degree	MOTOR HOURS	Next Oil Change	
WEIGHT					224	34		
VISCOSITY					390	13		
GEL					414	14		
No. 1	Pressure							
Model	S.P.M.							
No. 2	Pressure							
Model	S.P.M.							
W.L.					F.C.	pH.		

REMARKS	Start	Time	Interval
Pump Mud from F. 1 to	128		
Fill Tanks		1 30	1 1/2
Cleaning and Condensing	1 30		
Hole Using 1 1/2" 2 Pumps		3 30	1 1/2
Drill 15" Hole	3 30	3 30	1/2
Clean Pump Re-fill tanks	3 30	5 30	1 3/4
Drill 15" Hole	5 30	6 15	1
Circ. Hole to Clear Hole	6 15	7 00	3/4
Con.			
Drill 15" Hole	7 00	8 30	1
Company Time			
Cont'r Time			
RIG SERVICE	8 00	8 15	1/4
DRILL 15" HOLE	8 15	9 00	3/4
TAKE HOLE SURVEY	9 00	9 15	1/4
DRILL 15" HOLE	9 15	10 00	3/4
TRIP OUT TO CHANGE HOLE SIZE	10 00	10 30	2
CHANGE TO NEW KELLY	10 30	12 30	2
PICK UP BIT SUB TO CHANGE HOLE	12 30		
SIZE TO 8 3/4" + TRIP IN		1 30	1
DRILL 8 3/4" PILOT HOLE	1 30	2 30	3/4
SURVEY	2 30	2 30	4
DRILL	2 30	4 00	1 1/2
Company Time			
Cont'r Time			
342. Build volume in mud tanks	4 30		1/2
Drill 8 3/4" Pilot Hole	4 30	5 00	1/2
CONNECTION + SURVEY	5 00	5 30	1/2
Drill 8 3/4" Pilot Hole	5 30	7 00	1 1/2
CONNECTION + SURVEY	7 00	7 30	1/2
Drill 8 3/4" Pilot Hole	7 30	8 45	1 1/4
SURVEY + CONN.	8 45	9 00	1/4
Drill 8 3/4" Pilot Hole	9 00	10 45	1 3/4
SURVEY + CONN.	10 45	11 00	1/4
Drill 8 3/4" Pilot Hole	11 00	12 00	1
Company Time			
Cont'r Time			

Totco Ring on Bit No. D.P. Caliper Date

B.O.P. Test-Operated Time

Results

Boiler in Operation

Toolpusher

Approved by

CONSERVATION BOARD COPY

JOMAX DRILLING LIMITED

Rig# 1 Location Tathlina Lake I-72 H. Job# 7331 Date Feb 13 1974

Tour - Midnight - 8 a.m.

Specify actual hours worked Hrs.

Driller	CLIFF KENZIE	8
Derrick	Keith Morrison	12
Motor	Jerry Porell	8
Floor	August Schry	8
Floor	Kevin McHale	8
Fireman		
Extra		

No Injuries Reported This Tour

Signed Driller

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

Specify actual hours worked Hrs.

Driller	EDMOND DEVIAS	8
Derrick	DOUG MCCLEOD	12
Motor	DOUGLAS DAVIDSON	8
Floor	DARCY JONES	8
Floor	CLARE FINGAS	8
Fireman	DOT. RANDAL	10
Extra	UNIAN BOE	10
Extra	CAMPBELL - JOE BALLUAD	10

No Injuries Reported This Tour

Signed Driller

Tour - 4 p.m. - Midnight

Specify actual hours worked Hrs.

Driller	Leo Wagner	8
Derrick		
Motor	Martin Doll	8
Floor	Brad Jason	8
Floor	Dave Shields	8
Fireman		
Extra		

No Injuries Reported This Tour

Signed Driller

Toolpusher

Approved by

BJ

BORG X WARNER

DRILL STEM TEST REPORT

PACIFIC H-B-N-TATHLINA

1-72-A

D.S.T. #1

BJ SERVICE DIVISION
BORG-WARNER (CANADA) LIMITED



DRILL STEM TEST DATA

TICKET NO. T 2658
DATE MARCH 1, 1974WELL NAME PACIFIC-H-B-N-TATHLINA
WELL NUMBER 1-72-A
COMPANY PACIFIC PETROLEUM LTD.
COMPANY REP BOB LINTON
TESTER DAVE THOMSONTest No. 1 Type SINGLE BOTTOM HOLE
Interval 4200 To 4275 TD
Formation Tested CHINCHAGA Net Pay Temp OF 120
Prelow 5 Min. ISI 60 Min. Flow 59 Min. FSI 56 Min.

Recorder Number	6889	3688		
Ins. or outs.	INS.	OUTS.		
Rec. Range (PSI)	3100	5700		
Clock Range (hrs)	12	12		
Recorder Depth	4189	4207		
Initial Hydro. Press.	2060	2044		
Initial Shut-in Press.	1774	1782		
Initial Flow Press.	356	330		
Final Flow Press.	881	915		
Final Shut-in Press.	1749	1775		
Final Hydro. Press.	1955	1933		

Fluid Recovery Total Feet 1995
180 Ft. of GAS CUT MUD
1815 Ft. of SALT WATER (107,700 PPM)
Ft. of
Ft. of
Ft. of

Gas Recovery

Mins	Temp OF	Press (PSI)	Orifice Size	MCF Day

Orifice Well Tester ☐ Pitot tube ☐
Critical Flow Prover ☐ Side Static ☐ Riser Size
Gas Cont. No. Chem & Geo Lab ☐ Core Lab ☐Main Hole Size 8.75 Packer Size 7.50
Rat hole Size
Dr. Pipe Size 4.5XH - 4.5 IF Ft. of Rat Hole
Dr. Collar I.D. 2.875 Wt. 16.6-(ALUMINUM)
Surface Choke Size ADJUSTABLE Ft. Run above tool 561.62
Cushion Amount Bottom Choke Size 0.50
Mud Drop Fluid Loss 8.0 Viscosity 75 Mud Wt. 9.8Remarks: FAIR AIR BLOW ON PREFLOW
REMAINED STEADY. WEAK AIR BLOW ON FLOW
PERIOD DECREASING TO NOTHING IN 20 MINUTES.

P.O. Sub	1.00	
Co Sub	1.00	
Shut-in Tool	5.50	
RFS No.		
RFS No.		
HMV	7.10	
Jars		
Rec. No. 6889	5.00	Depth 4189
Rec. No.		Depth
Temp Recorder		
Safety Joint	1.75	
By-Pass Sub		
Packer		
Packer	5.00	Depth 4200
Anchor	PERF 5.00	
By-Pass Sub		
Rec. No. 3688	5.00	Depth 4207
Rec. No.		Depth
Blank off Sub		
Co Sub		
Dr. Collars		
Co Sub		
Packer		Depth
Packer		
Anchor	PERF 32.00	
Rec. No.		Depth
Anchor		
Co Sub	1.00	
Dr. Pipe or		
Dr. Collars	27.60	
Co Sub	1.00	
Anchor		
Bullnose	2.50	T.D. 4275
Total Test Tool	101.45	
Total Interval	75.00	
Total Tailpipe	75.10	
Weight of Tool	5,000	
Wt. Indicator Reading		
Prior to setting Packers	50,000	



WELL NAME: PACIFIC -H-B-N-TATHLINA
WELL LOCATION: 1-72-A
FORMATION: CHINCHAGA

REC NO. 3688
DST NO. 1
DEPTH 4207

TIME - PRESSURE INCREMENTS

REMARKS -----	TIME MIN. -----	PRESSURE PSIG -----	T+DELTA(T)/ DELTA(T) -----
RUN IN HOLE	0.	0.	
	174.0	2044.0	
INITIAL HYDRO PRESSURE	205.0	2044.0	
INITIAL PREFLOW PRESSURE	0.	95.1	
FINAL PREFLOW PRESSURE	5.0	272.3	
START INITIAL SHUT-IN	0.	272.3	
	1.0	1748.5	6.00
	5.0	1767.2	2.00
	10.0	1772.3	1.50
	15.0	1773.7	1.33
	20.0	1775.2	1.25
	25.0	1776.6	1.20
	30.0	1777.3	1.17
	35.0	1778.0	1.14
	40.0	1778.8	1.12
	45.0	1779.5	1.11
	50.0	1780.2	1.10
	55.0	1780.9	1.09
INITIAL SHUT-IN PRESSURE	60.0	1781.6	1.08
START FLOW PERIOD	0.	1781.6	
INITIAL FLOW PRESSURE	1.0	330.0	
	10.0	426.5	
	20.0	540.3	
	30.0	642.7	
	40.0	742.1	
	50.0	838.6	
FINAL FLOW PRESSURE	59.0	915.0	



WELL NAME: PACIFIC -H-B-N-TATHLINA
WELL LOCATION: 1-72-A
FORMATION: CHINCHAGA

REC NO. 3688
DST NO. 1
DEPTH 4207

TIME - PRESSURE INCREMENTS

REMARKS	TIME MIN.	PRESSURE PSIG	T+DELTA(T)/ DELTA(T)
START FINAL SHUT-IN	0.	915.0	
	1.0	1741.3	65.00
	5.0	1757.2	13.80
	10.0	1761.5	7.40
	15.0	1764.4	5.27
	20.0	1767.2	4.20
	25.0	1768.7	3.56
	30.0	1770.1	3.13
	35.0	1771.6	2.83
	40.0	1773.0	2.60
	45.0	1773.7	2.42
	50.0	1774.4	2.28
FINAL SHUT-IN PRESSURE	56.0	1775.2	2.14
RUN OUT OF HOLE	0.	1775.2	
FINAL HYDRO PRESSURE	1.0	1932.8	
	20.0	1932.8	
OUT OF HOLE	173.0	0.	



WELL NAME: PACIFIC -H-B-N-TATHLINA
WELL LOCATION: 1-72-A
FORMATION: CHINCHAGA
RECOVERY TYPE USED IN CALCULATIONS: WATER

REC NO. 3688
DST NO. 1
DEPTH 4207
INTERVAL 4200-4275

SUMMARY OF CALCULATIONS

1 FIRST SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	1788.4 PSIG
SLOPE OF EXTRAPOLATED LINE -----	195.39 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.07 PSI
NUMBER OF POINTS IN SHUT-IN -----	14
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	4

2 SECOND SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	1783.7 PSIG
SLOPE OF EXTRAPOLATED LINE -----	25.84 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.03 PSI
NUMBER OF POINTS IN SHUT-IN -----	13
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	4
DIFFERENCE (2ND-1ST EXTRAPOLATION) -----	-4.7 PSI

3 RESERVOIR AND FLUID PROPERTIES

NET PAY -----	27.00 FT
RESERVOIR POROSITY -----	7.00 PERCENT
PRODUCTION RATE -----	560.1 BPD
FORMATION VOLUME FACTOR -----	1.000 RB/STB
FLUID VISCOSITY -----	0.680 C.P.
TOTAL COMPRESSIBILITY X 10 ⁻⁶ -----	8.500 /PSI
RESERVOIR TEMPERATURE -----	120.0 F
FINAL FLOWING PRESSURE -----	915.0 PSIG
TOTAL FLOW TIME -----	64.0 MIN

4 CALCULATION RESULTS

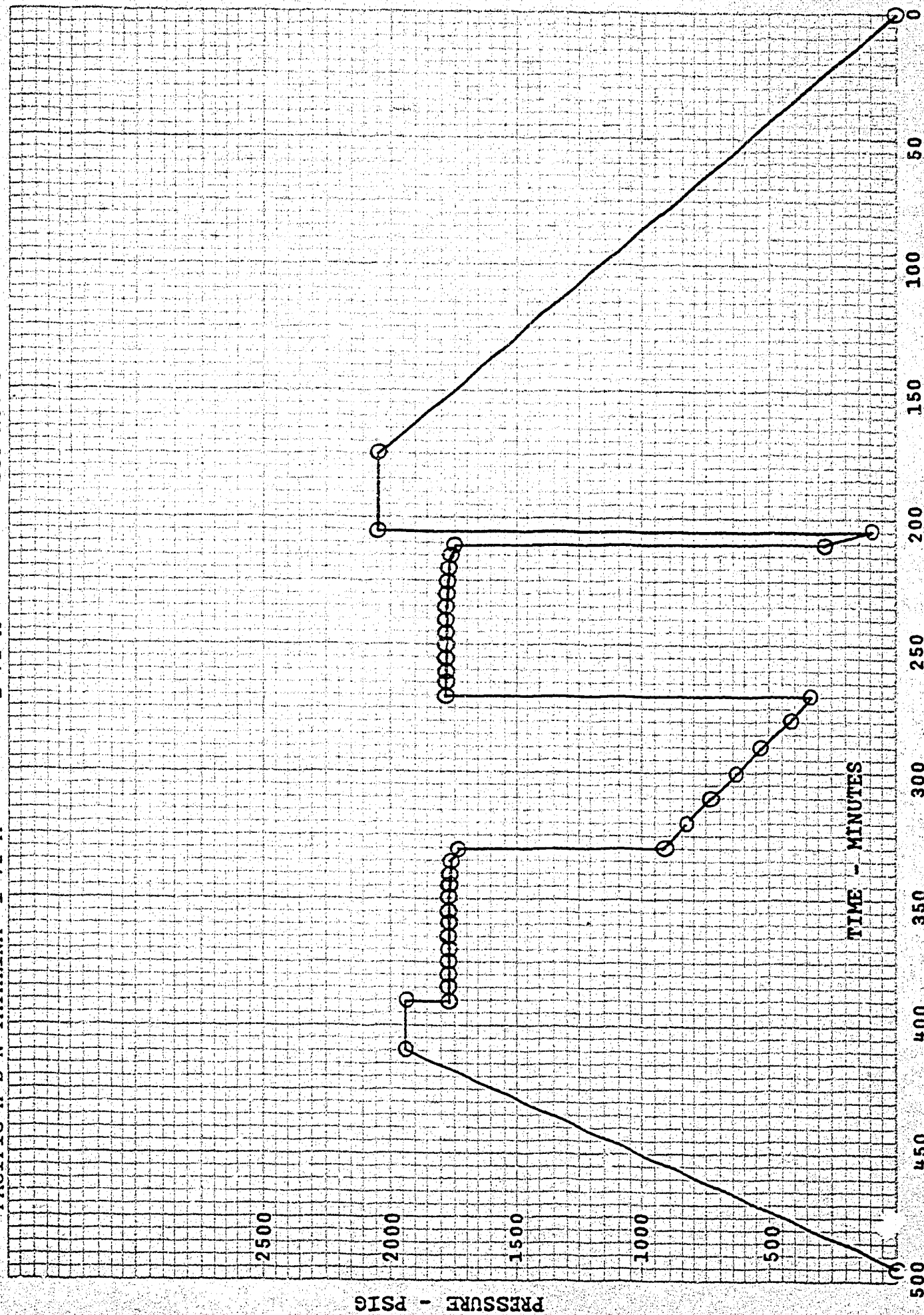
ESTIMATED DAMAGE RATIO -----	5.59
PERMEABILITY THICKNESS -----	2395.6 MD FT
PERMEABILITY -----	88.73 MD
SKIN FACTOR -----	31.77
APPROXIMATE DRAINAGE RADIUS -----	495.2 FT
PRODUCTIVITY INDEX -----	0.645 BPD/PSI
PRODUCTION WITH DAMAGE REMOVED -----	3131.0 BPD

REC. NO. 3688

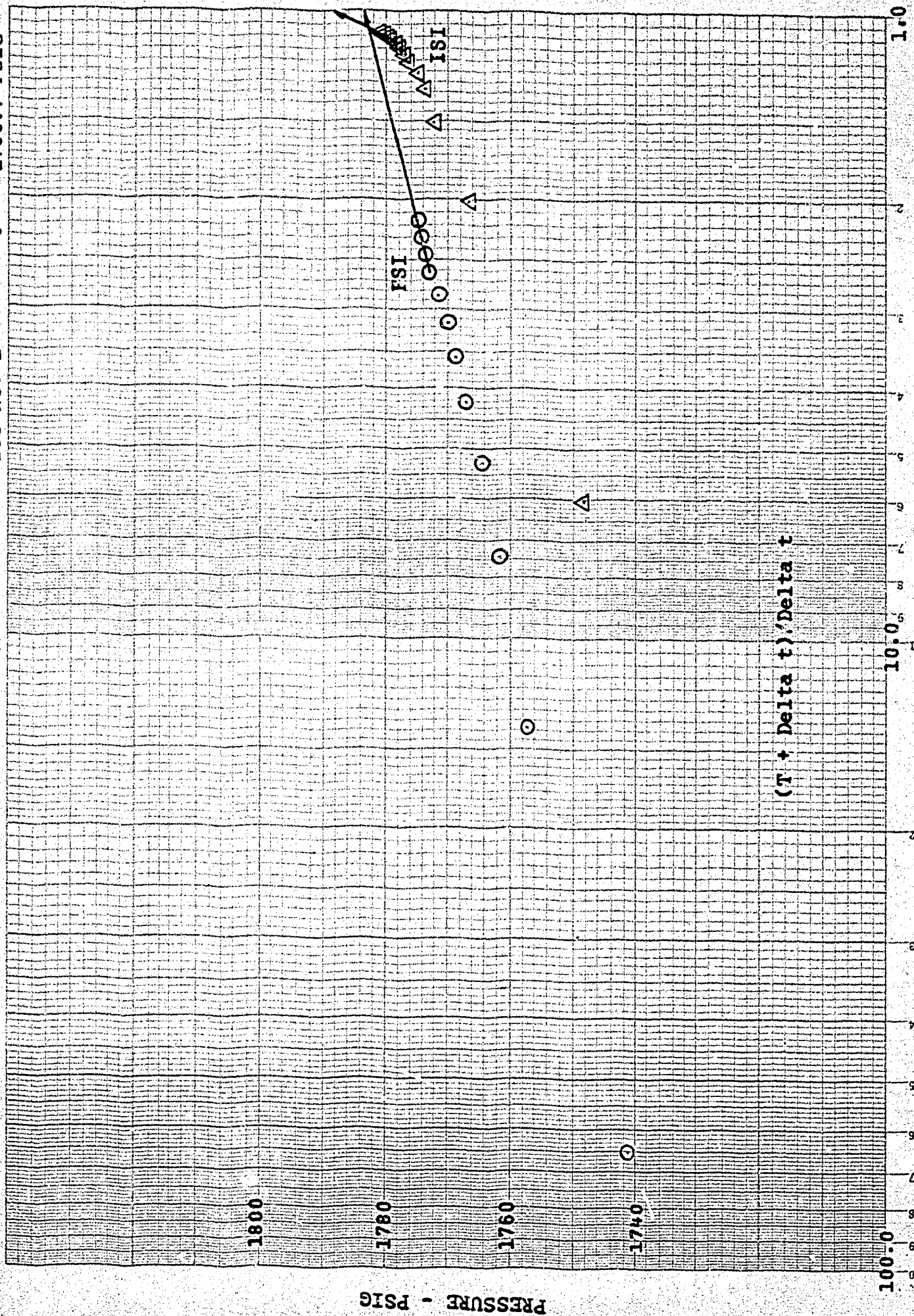
DST NO. 1

1-72-A

PACIFIC-H-B-N-TATHIINA 1-72-A



PACIFIC-H-B-N-TATHLINA 1-72-A 1-72-A DST NO. 1 P* = 1783.7 PSIG

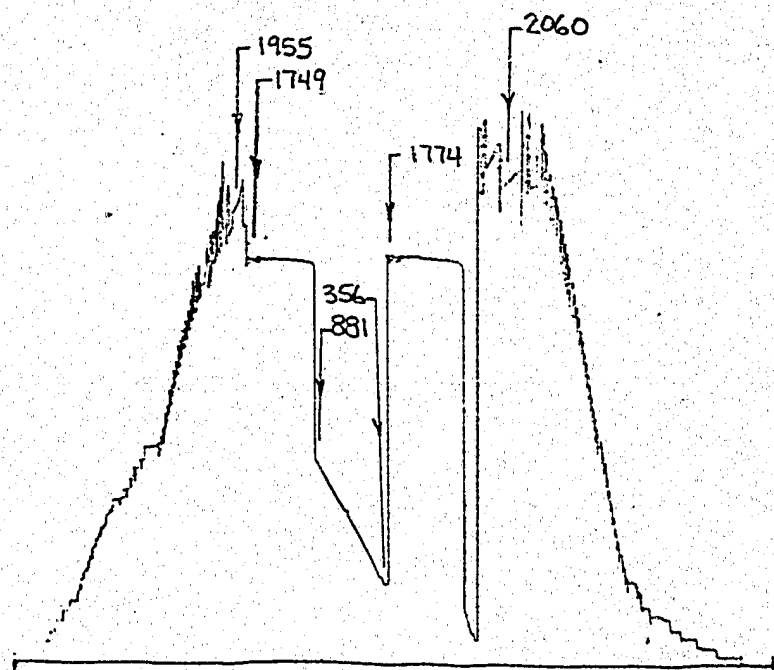


DST RECORDER CHARTS

PACIFIC-H-B-N-TATHLINA 1-72-A

DST NO. 1

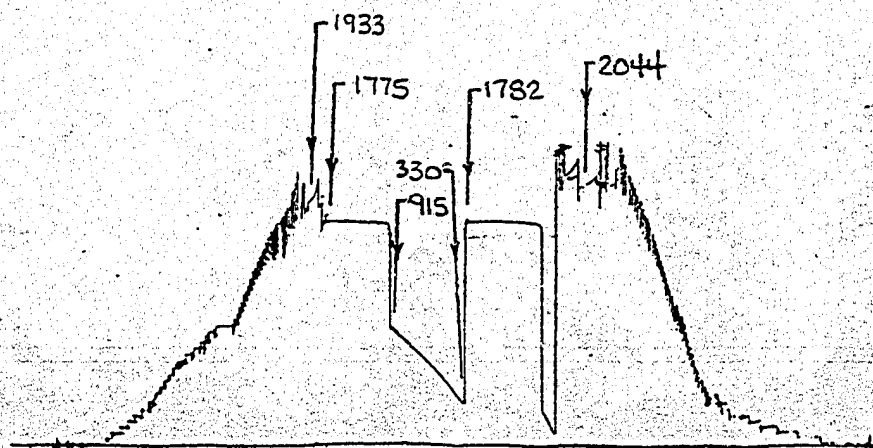
INSIDE REC. NO. 6889



PACIFIC-H-B-N-TATHLINA 1-72-A

DST NO. 1

OUTSIDE REC. NO. 3688



The analysis of this test is based upon calculations of the data contained in this report. Some assumptions with regard to reservoir properties may have been made if the information was not supplied. The most up to date methods were utilized to determine the results, ensuring a complete and accurate report.

Any questions regarding the procedure or results should be directed to:

PETCO SERVICES (1973) LTD.

#912 Charter Towers

614 - 5 Avenue S.W.

Calgary, Alberta

403 - 269 - 8291

BJ

BORG X WARNER

DRILL STEM TEST REPORT

PACIFIC H-B-N-TATHLINA

1-72-A

D.S.T #2

BJ SERVICE DIVISION
BORG-WARNER (CANADA) LIMITED



DRILL STEM TEST DATA

TICKET NO. T 2659

DATE MARCH 1, 1974

WELL NAME PACIFIC-H-B-N-TATHLINA
WELL NUMBER 1-72-A
COMPANY PACIFIC PETROLEUM LTD.
COMPANY REP. BOB LINTON
TESTER DAVE THOMSON

Test No. 2 Type SINGLE STRADDLE BY-PASS
Interval 3910 To 3990 TD 4275
Formation Tested Net Pay Temp OF 128
Preflow 1 Min. ISI 57 Min. Flow 61 Min. FSI 59 Min.

Recorder Number	6889	1875	3688
Ins. or outs.	INS.	OUTS.	BOT.
Rec. Range (PSI)	3100	5600	5700
Clock Range (hrs)	24	12	12
Recorder Depth	3898	3923	3994
Initial Hydro. Press.	1963	1966	1996
Initial Shut-in Press.	1602	1633	
Initial Flow Press.	540	568	
Final Flow Press.	1478	1552	
Final Shut-in Press.	1560	1661	1815
Final Hydro. Press.	1969	1977	2013

Fluid Recovery Total Feet 3305
3305 Ft. of SALT WATER (98,200 PPM)

Ft. of
Ft. of
Ft. of
Ft. of
Ft. of

Gas Recovery

Mins	Temp OF	Press (PSI)	Orifice Size	MCF Day

Orifice Well Tester ☐ Pitot tube ☐
Critical Flow Prover ☐ Side Static ☐ Riser Size
Gas Cont. No. Chem & Geo Lab ☐ Core Lab ☐

Main Hole Size 8.75 Packer Size 7.50
Rat hole Size Ft. of Rat Hole
Dr. Pipe Size 4.5XH - 4.5IF Wt. 16.6-(ALUMINUM)
Dr. Collar I.D. 2.875 Ft. Run above tool 531.92
Surface Choke Size ADJUSTABLE Bottom Choke Size 0.50
Cushion Amount Type
Mud Drop Fluid Loss 8.0 Viscosity 75 Mud Wt. 9.8

Remarks: FAIR AIR BLOW ON PREFLOW. WEAK AIR
BLOW ON FLOW, DECREASING TO NOTHING IN
45 MINUTES.

P.O. Sub 1.00
Co Sub 1.00
Shut-In Tool 5.50
RFS No.
RFS No.
HNV 7.10
Jars
Rec. No. 6889 5.00 Depth 3898
Rec. No. Depth
Temp Recorder 1.75
Safety Joint 1.00
By-Pass Sub
Packer
Packer 5.00 Depth 3910
Anchor 1.00
By-Pass Sub 12.00
By-Pass Sub 1.00
Rec. No. 1875 4.00 Depth 3923
Rec. No. Depth
Blank off Sub
Co Sub .75
Dr. Collars 57.31
Co Sub .75
Packer 3.00 Depth 3990
Packer 3.00
Anchor
Rec. No. 3688 5.00 Depth 3994
Anchor 22.00
Co Sub
Dr. Pipe or 251.57
Dr. Collars
Co Sub 1.00
Anchor
Bullnose 2.50 T.D. 4275
Total Test Tool 107.05
Total Interval 80.00
Total Tailpipe 285.07
Weight of Tool 6,000
Wt. Indicator Reading
Prior to setting Packers 50,000



WELL NAME: PACIFIC -H-B-N-TATHLINA
WELL LOCATION: 1-72-A
FORMATION:

REC NO. 1875
DST NO. 2
DEPTH 3923

TIME - PRESSURE INCREMENTS

REMARKS	TIME MIN.	PRESSURE PSIG	T+DELTA(T)/ DELTA(T)
RUN IN HOLE	0.	0.	
	116.0	1965.6	
INITIAL HYDRO PRESSURE	159.0	1965.6	
INITIAL PREFLOW PRESSURE	0.	379.5	
FINAL PREFLOW PRESSURE	1.0	537.0	
START INITIAL SHUT-IN	0.	537.0	
	1.0	1621.2	2.00
	5.0	1647.4	1.20
	10.0	1652.9	1.10
	15.0	1657.0	1.07
	20.0	1657.7	1.05
	25.0	1659.1	1.04
	30.0	1659.8	1.03
	35.0	1660.5	1.03
	40.0	1661.2	1.03
	45.0	1661.8	1.02
	50.0	1662.5	1.02
INITIAL SHUT-IN PRESSURE	57.0	1662.5	1.02
START FLOW PERIOD	0.	1662.5	
INITIAL FLOW PRESSURE	1.0	568.5	
	10.0	794.5	
	20.0	1017.9	
	30.0	1202.5	
	40.0	1348.5	
	50.0	1460.1	
FINAL FLOW PRESSURE	61.0	1552.3	



TESTING REPORT

PAGE 2

WELL NAME: PACIFIC -H-B-N-TATHLINA
WELL LOCATION: 1-72-A
FORMATION:

REC NO. 1875
DST NO. 2
DEPTH 3923

TIME - PRESSURE INCREMENTS

<u>REMARKS</u>	<u>TIME MIN.</u>	<u>PRESSURE PSIG</u>	<u>T+DELTA(T) / DELTA(T)</u>
START FINAL SHUT-IN	0.	1552.3	
	1.0	1630.9	63.00
	5.0	1640.5	13.40
	10.0	1646.0	7.20
	15.0	1648.8	5.13
	20.0	1651.5	4.10
	25.0	1652.9	3.48
	30.0	1654.3	3.07
	35.0	1655.6	2.77
	40.0	1657.0	2.55
	45.0	1658.4	2.38
	50.0	1659.8	2.24
	55.0	1660.5	2.13
FINAL SHUT-IN PRESSURE	59.0	1661.2	2.05
RUN OUT OF HOLE	0.	1661.2	
FINAL HYDRO PRESSURE	1.0	1976.6	
	7.0	1976.6	
OUT OF HOLE	215.0	0.	



WELL NAME: PACIFIC -H-B-N-TATHLINA
WELL LOCATION: 1-72-A
FORMATION:
RECOVERY TYPE USED IN CALCULATIONS: WATER

REC NO. 1875
DST NO. 2
DEPTH 3923
INTERVAL 3910-3990

SUMMARY OF CALCULATIONS

1 FIRST SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	1666.2 PSIG
SLOPE OF EXTRAPOLATED LINE -----	462.20 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.18 PSI
NUMBER OF POINTS IN SHUT-IN -----	13
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	4

2 SECOND SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	1674.6 PSIG
SLOPE OF EXTRAPOLATED LINE -----	42.91 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.11 PSI
NUMBER OF POINTS IN SHUT-IN -----	14
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	6

DIFFERENCE (2ND-1ST EXTRAPOLATION) -----	8.4 PSI
--	---------

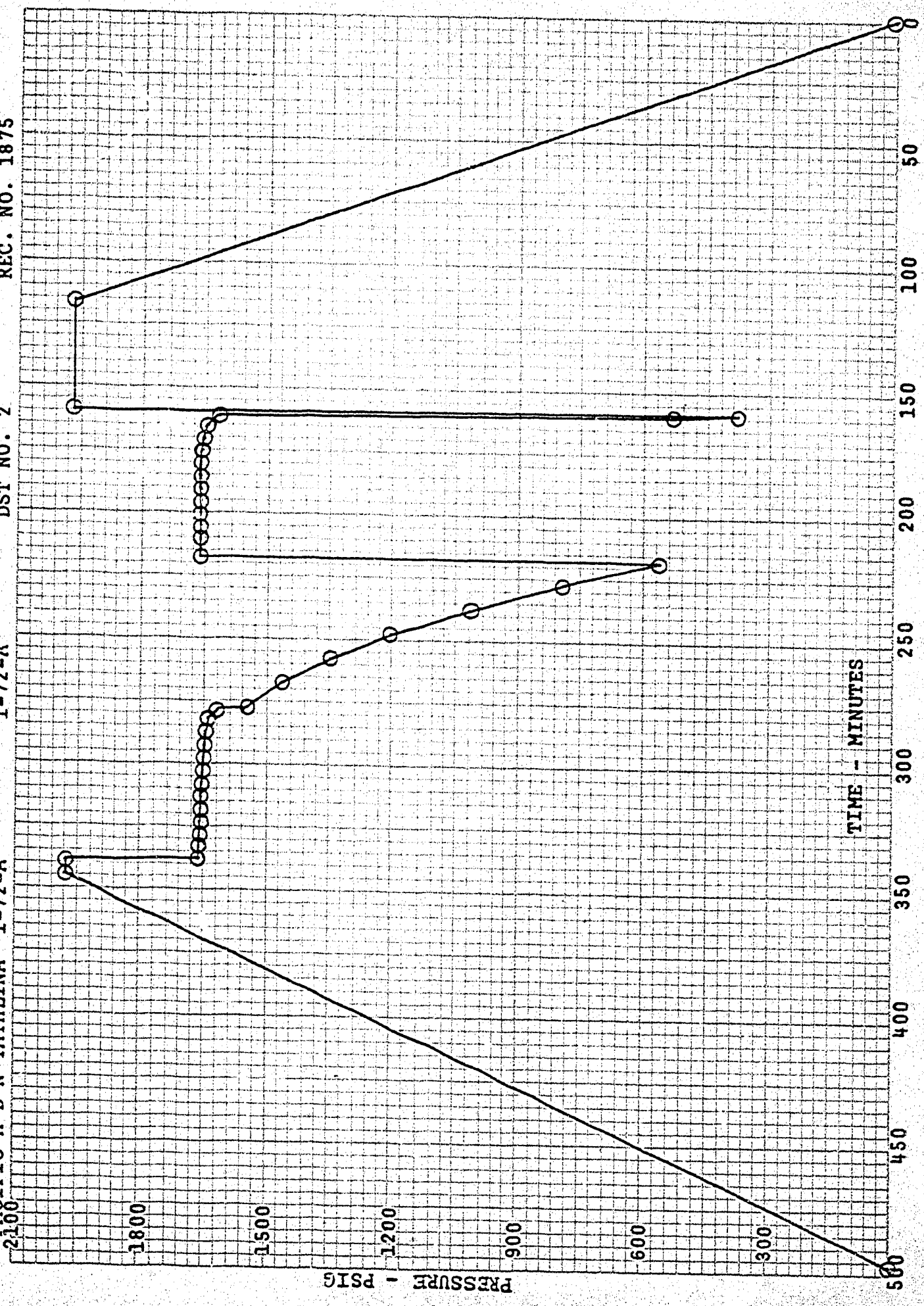
3 RESERVOIR AND FLUID PROPERTIES

NET PAY -----	85.00 FT
RESERVOIR POROSITY -----	8.00 PERCENT
PRODUCTION RATE -----	1015.2 BPD
FORMATION VOLUME FACTOR -----	1.000 RB/STB
FLUID VISCOSITY -----	0.620 C.P.
TOTAL COMPRESSIBILITY X 10 ⁻⁶ -----	8.300 /PSI
RESERVOIR TEMPERATURE -----	128.0 F
FINAL FLOWING PRESSURE -----	1552.3 PSIG
TOTAL FLOW TIME -----	62.0 MIN

4 CALCULATION RESULTS

ESTIMATED DAMAGE RATIO -----	0.52
PERMEABILITY THICKNESS -----	2383.5 MD FT
PERMEABILITY -----	28.04 MD
SKIN FACTOR -----	-3.05
APPROXIMATE DRAINAGE RADIUS -----	271.6 FT
PRODUCTIVITY INDEX -----	8.304 BPD/PSI

PACIFIC-H-B-N-TATHLINA 1-72-A 1-72-A DST NO. 2 REC. NO. 1875

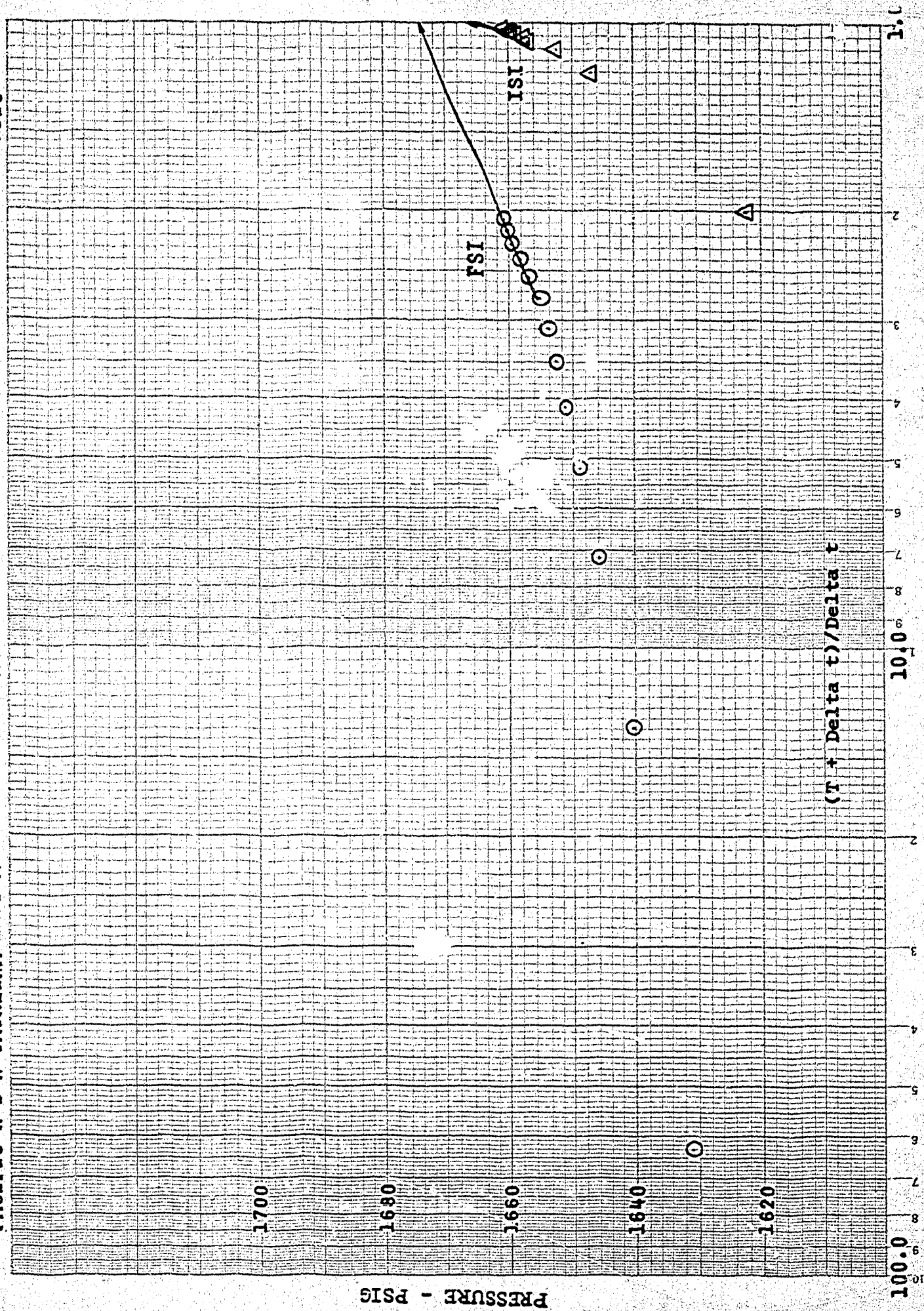


P# = 1674.6 PSIG

DST NO. 2

1-72-A

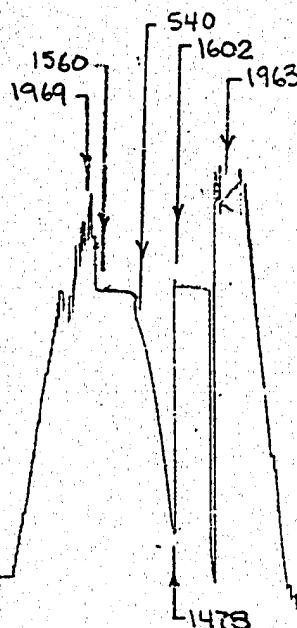
PACIFIC-H-B-N-TATHLINA 1-72-A



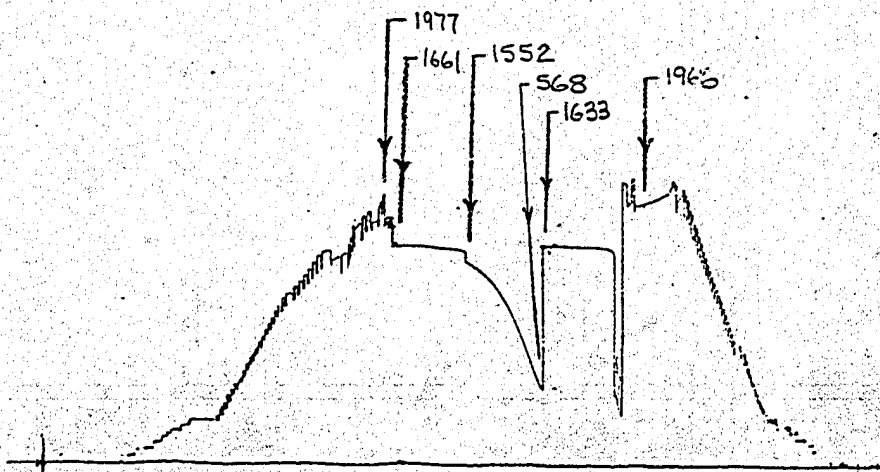


DST RECORDER CHARTS

PACIFIC-H-B-N-TATHLINA 1-72-A
DST NO. 2
INSIDE REC. NO. 6889



PACIFIC-H-B-N-TATHLINA 1-72-A
DST NO. 2
OUTSIDE REC. NO. 1875

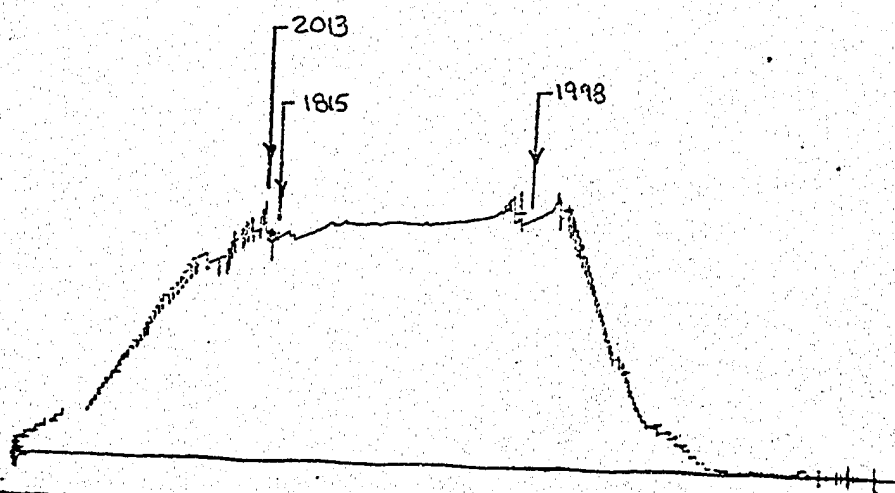




TESTING REPORT

DST RECORDER CHARTS

PACIFIC-H-B-N-TATHLINA 1-72-A
DST NO. 1
BOTTOM REC. NO. 3688



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#912 Charter Towers

614 - 5 Avenue S.W.

Calgary, Alberta

403 - 269 - 8291

BJ

BORG X WARNER

DRILL STEM TEST REPORT

PACIFIC H-B-N-TATHLINA

1-72-A

D.S.T. #3

BJ SERVICE DIVISION
BORG-WARNER (CANADA) LIMITED



DRILL STEM TEST DATA

TICKET NO. _____

DATE MARCH 3, 1974WELL NAME PACIFIC-H-B-N-TATHLINAWELL NUMBER 1-72-ACOMPANY PACIFIC PETROLEUM LTD.COMPANY REP. BOB LINTONTESTER DAVE THOMSON

Test No. 3 Type SINGLE STRADDLE
Interval 3636 To 3666 TD 4275
Formation Tested _____ Net Pay _____ Temp °F _____
Prelow _____ Min. ISL _____ Min. Flow _____ Min. FSI _____ Min. _____

Recorder Number	6889	1875	3688	
Ins. or out.	INS.	OUTS.	BOT.	
Rec. Range (PSI)	3100	5600	5700	
Clock Range (hrs)	12	12	24	
Recorder Depth	3624	3659	3670	
Initial Hydro. Press.	1858	1868	1870	
Initial Shut-In Press.				
Initial Flow Press.	1072	1099		
Final Flow Press.	1357	1435		
Final Shut-In Press.			1630	
Final Hydro. Press.	1781	1805	1815	

Fluid Recovery Total Feet _____
_____ Ft. of _____
_____ Ft. of _____
_____ Ft. of _____
_____ Ft. of _____
_____ Ft. of _____

Gas Recovery

Mins	Temp °F	Press (PSI)	Orifice Size	MCF Day

Orifice Well Tester ☐ Pitot tube ☐
Critical Flow Prover ☐ Side Static ☐ Riser Size _____
Gas Cont. No. _____ Chem & Geo Lab ☐ Core Lab ☐

Main Hole Size _____ Packer Size _____
Rat hole Size _____ Ft. of Rat Hole _____
Dr. Pipe Size _____ Wt. _____
Dr. Collar I.D. _____ Ft. Run above tool _____
Surface Choke Size _____ Bottom Choke Size _____
Cushion Amount _____ Type _____
Mud Drop _____ Fluid Loss _____ Viscosity _____ Mud Wt. _____

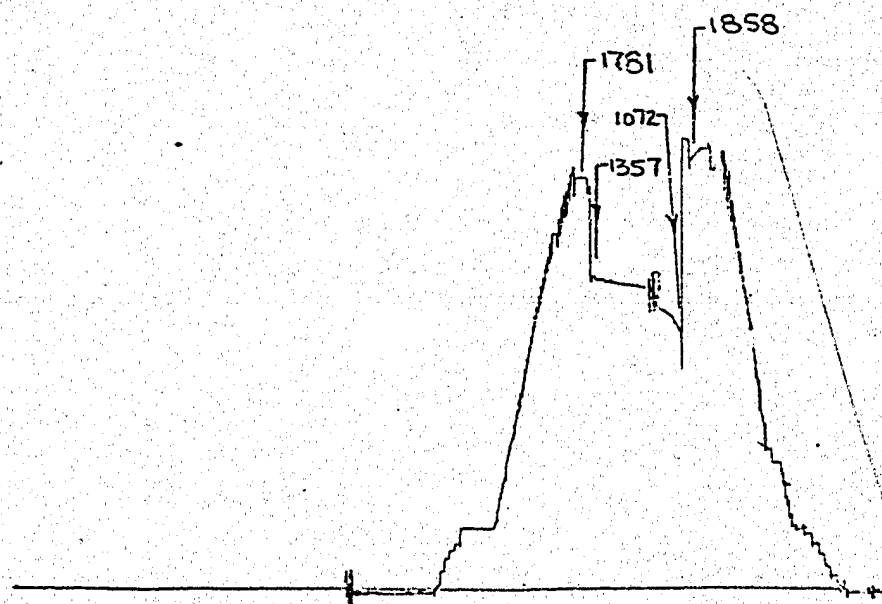
Remarks: MISRUN. UNABLE TO ROTATE TOOLS.

P.O. Sub 1.00
Co Sub 1.00
Shut-in Tool 5.50
RFS No. _____
RFS No. _____
HMV 7.10
Jars _____
Rec. No. 6889 5.00 Depth 3624
Rec. No. _____ Depth _____
Temp Recorder _____
Safety Joint 1.75
By-Pass Sub 1.00
Packer _____
Packer 5.00 Depth 3636
1.00
Anchor 21.00
By-Pass Sub 1.00
Rec. No. 1875 4.00 Depth 3659
Rec. No. _____ Depth _____
Blank off Sub _____
Co Sub _____
Dr. Collars _____
Co Sub _____
Packer 3.00 Depth 3666
3.00
Packer _____
Anchor _____
Rec. No. 3688 5.00 Depth 3670
7.00
Co Sub 1.00
Dr. Pipe or 591.31
Dr. Collars 1.00
Co Sub _____
Anchor _____
Bullnose 2.50 T.D. 4275
Total Test Tool _____
Total Interval _____
Total Tailpipe _____
Weight of Tool _____
Wt. Indicator Reading _____
Prior to setting Packers _____

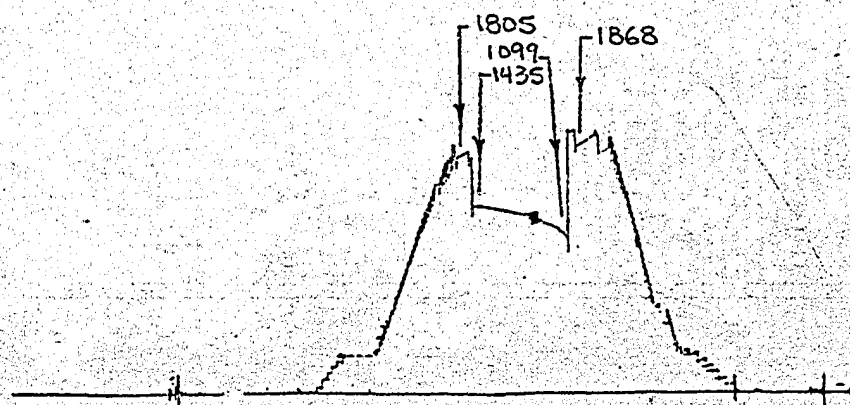


DST RECORDER CHARTS

PACIFIC-H-B-N-TATHLINA 1-72-A
DST NO. 3
INSIDE REC.NO. 6889



PACIFIC-H-B-N-TATHLINA 1-72-A
DST NO. 3
OUTSIDE REC. NO. 1875

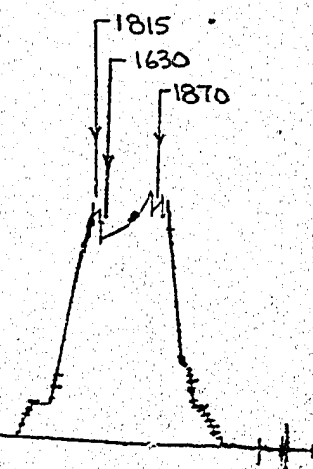




TESTING REPORT

DST RECORDER CHARTS

PACIFIC-H-B-N-TATHLINA 1-72-A
DST NO. 3
BOTTOM REC. NO. 3688



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BORG X WARNER

DRILL STEM TEST REPORT

PACIFIC H-B-N-TATHLINA

1-72-A

D.S.T. #4

**BJ SERVICE DIVISION
BORG-WARNER (CANADA) LIMITED**



DRILL STEM TEST DATA

TICKET NO. T 2560

DATE MARCH 3, 1974

WELL NAME PACIFIC-H-B-N-TATHLINA
WELL NUMBER 1-72-A
COMPANY PACIFIC PETROLEUM LTD.
COMPANY REP. BOB LINTON
TESTER DAVE THOMSON

Test No. 4 Type SINGLE STRADDLE BY-PASS
Interval 3636 To 3666 TD
Formation Tested SLAVE POINT Net Pay Temp OF 100
Prewell 8 Min. ISI 54 Min. Flow 60 Min. FSI 58 Min.

Recorder Number	6889	1875	3688
Ins. or outs.	INS.	OUTS.	BO'T.
Rec. Range (PSI)	3100	5600	5700
Clock Range (hrs)	12	12	24
Recorder Depth	3624	3659	3670
Initial Hydro. Press.	1916	1888	1894
Initial Shut-in Press.	134	156	
Initial Flow Press.	72	29	
Final Flow Press.	72	37	
Final Shut-in Press.	71	55	1594
Final Hydro. Press.	1760	1829	1842

Fluid Recovery Total Feet 2
2 Ft. of DRILLING MUD
Ft. of
Ft. of
Ft. of
Ft. of
Ft. of

Gas Recovery

Mins	Temp OF	Press (PSI)	Orifice Size	MCF Day

Orifice Well Tester ☐ Pitot tube ☐
Critical Flow Prover ☐ Side Static ☐ Riser Size
Gas Cont. No. Chem & Geo Lab ☐ Core Lab ☐

Main Hole Size 8.75 Packer Size 7.50
Rat hole Size Ft. of Rat Hole
Dr. Pipe Size 4.5XH-4.5IF Wt. 16.6-(ALUMINUM)
Dr. Collar I.D. 2.875 Ft. Run above tool 561.62
Surface Choke Size ADJUSTABLE Bottom Choke Size 0.50
Cushion Amount Type
Mud Drop Fluid Loss 8.0 Viscosity 75 Mud Wt. 9.8

Remarks: WEAK AIR BLOW ON PREFLOW.
NO AIR BLOW ON FLOW PERIOD.

P.O. Sub 1.00
Co Sub 1.00
Shut-in Tool 5.50
RFS No.
RFS No.
HNV 7.10
Jars
Rec. No. 6889 5.00 Depth 3624
Rec. No. Depth
Temp Recorder 1.75
Safety Joint 1.00
By-Pass Sub
Packer
Packer 5.00 Depth 3636
Anchor 21.00
By-Pass Sub 1.00
Rec. No. 1875 4.00 Depth 3659
Rec. No. Depth
Blank off Sub
Co Sub
Dr. Collars
Co Sub
Packer 3.00 Depth 3666
3.00
Packer
Anchor
Rec. No. 3688 5.00 Depth 3670
Anchor 7.00
Co Sub 1.00
Dr. Pipe or 591.31
Dr. Collars
Co Sub 1.00
Anchor
Bullnose 2.50 T.D. 4275
Total Test Tool 78.15
Total Interval 30.00
Total Tailpipe 610.81
Weight of Tool 6.000
Wt. Indicator Reading
Prior to setting Packers 50,000



WELL NAME: PACIFIC-H-B-N-TATHLINA
WELL LOCATION: 1-72-A
FORMATION: SLAVE POINT

REC NO. 1875
DST NO. 4
DEPTH 3659

TIME - PRESSURE INCREMENTS

REMARKS -----	TIME MIN. -----	PRESSURE PSIG -----	T+DELTA(T)/ DELTA(T) -----
RUN IN HOLE	0.	0.	
	98.0	1888.4	
INITIAL HYDRO PRESSURE	112.0	1888.4	
INITIAL PREFLOW PRESSURE	0.	39.7	
FINAL PREFLOW PRESSURE	8.0	32.9	
START INITIAL SHUT-IN	0.	32.9	
	5.0	43.8	2.60
	10.0	56.2	1.80
	15.0	69.9	1.53
	20.0	82.2	1.40
	25.0	93.2	1.32
	30.0	106.8	1.27
	35.0	117.8	1.23
	40.0	128.8	1.20
	45.0	138.4	1.18
	50.0	149.3	1.16
INITIAL SHUT-IN PRESSURE	54.0	156.2	1.15
START FLOW PERIOD	0.	156.2	
INITIAL FLOW PRESSURE	1.0	28.8	
	10.0	28.8	
	20.0	30.1	
	30.0	32.9	
	40.0	34.2	
	50.0	35.6	
FINAL FLOW PRESSURE	60.0	37.0	
START FINAL SHUT-IN	0.	37.0	



TESTING REPORT

PAGE 2

WELL NAME: PACIFIC-H-B-N-TATHLINA
WELL LOCATION: 1-72-A
FORMATION: SLAVE POINT

REC NO. 1875
DST NO. 4
DEPTH 3659

TIME - PRESSURE INCREMENTS

<u>REMARKS</u>	<u>TIME MIN.</u>	<u>PRESSURE PSIG</u>	<u>T+DELTA(T)/ DELTA(T)</u>
	5.0	38.4	14.60
	10.0	39.7	7.80
	15.0	41.1	5.53
	20.0	42.5	4.40
	25.0	45.2	3.72
	30.0	46.6	3.27
	35.0	47.9	2.94
	40.0	49.3	2.70
	45.0	50.7	2.51
	50.0	52.1	2.36
FINAL SHUT-IN PRESSURE	58.0	54.8	2.17
RUN OUT OF HOLE	0.	54.8	
FINAL HYDRO PRESSURE	1.0	1829.2	
	7.0	1829.2	
OUT OF HOLE	92.0	0.	



WELL NAME: PACIFIC-H-B-N-TATHLINA
WELL LOCATION: 1-72-A
FORMATION: SLAVE POINT
RECOVERY TYPE USED IN CALCULATIONS: MUD

REC NO. 1875
DST NO. 4
DEPTH 3659
INTERVAL 3636-3666

SUMMARY OF CALCULATIONS

1 FIRST SHUT-IN

EXTRAPOLATED FORMATION PRESSURE -----	242.1 PSIG
SLOPE OF EXTRAPOLATED LINE -----	1441.40 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.82 PSI
NUMBER OF POINTS IN SHUT-IN -----	12
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	4

2 SECOND SHUT-IN

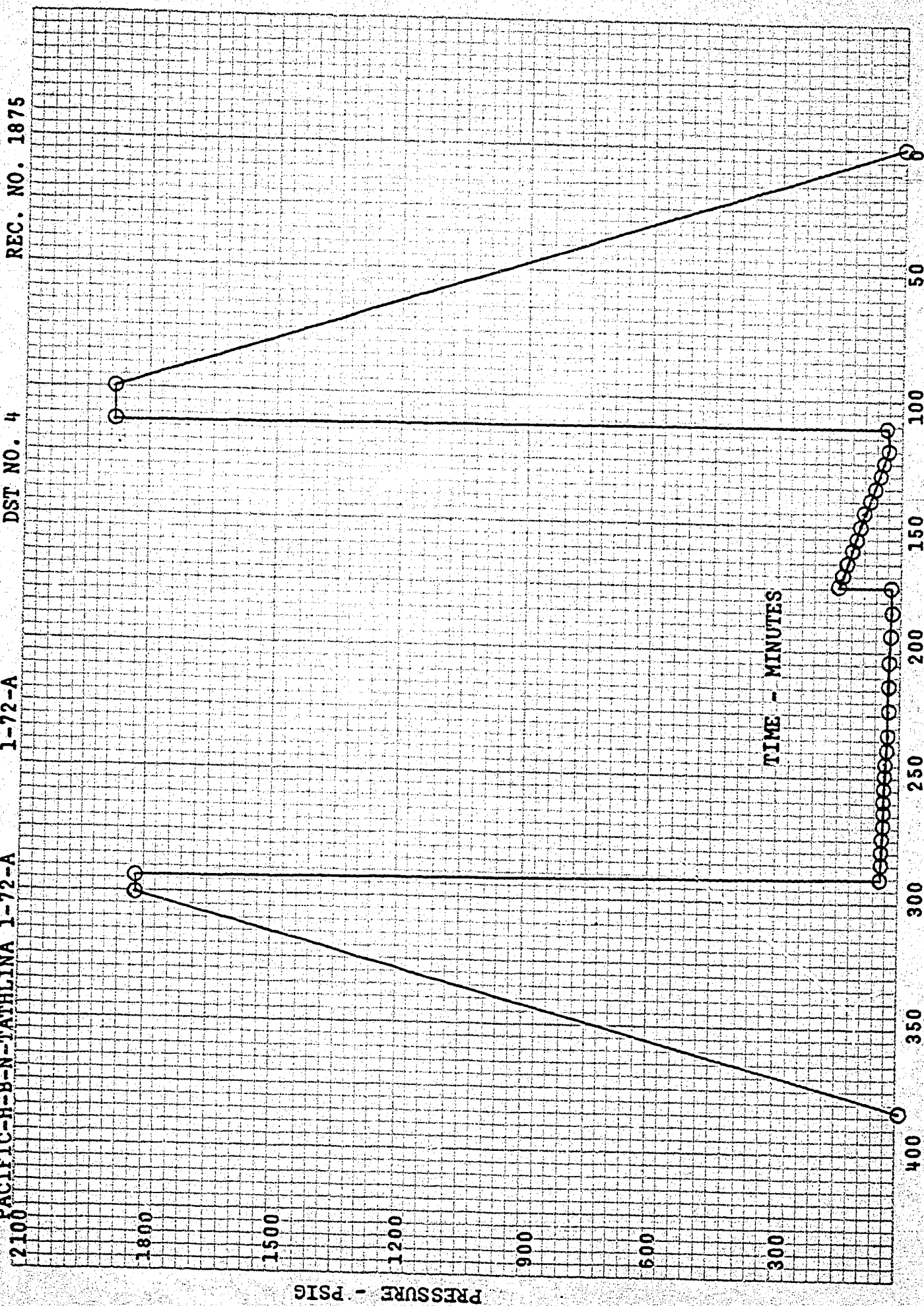
EXTRAPOLATED FORMATION PRESSURE -----	74.0 PSIG
SLOPE OF EXTRAPOLATED LINE -----	57.75 PSI/CYCLE
ROOT MEAN SQUARE DEVIATION OF FITTED LINE -----	0.29 PSI
NUMBER OF POINTS IN SHUT-IN -----	12
NUMBER OF POINTS USED FOR EXTRAPOLATION -----	4
DIFFERENCE (2ND-1ST EXTRAPOLATION) -----	-168.2 PSI

PACIFIC-H-B-N-TATHLINA 1-72-A

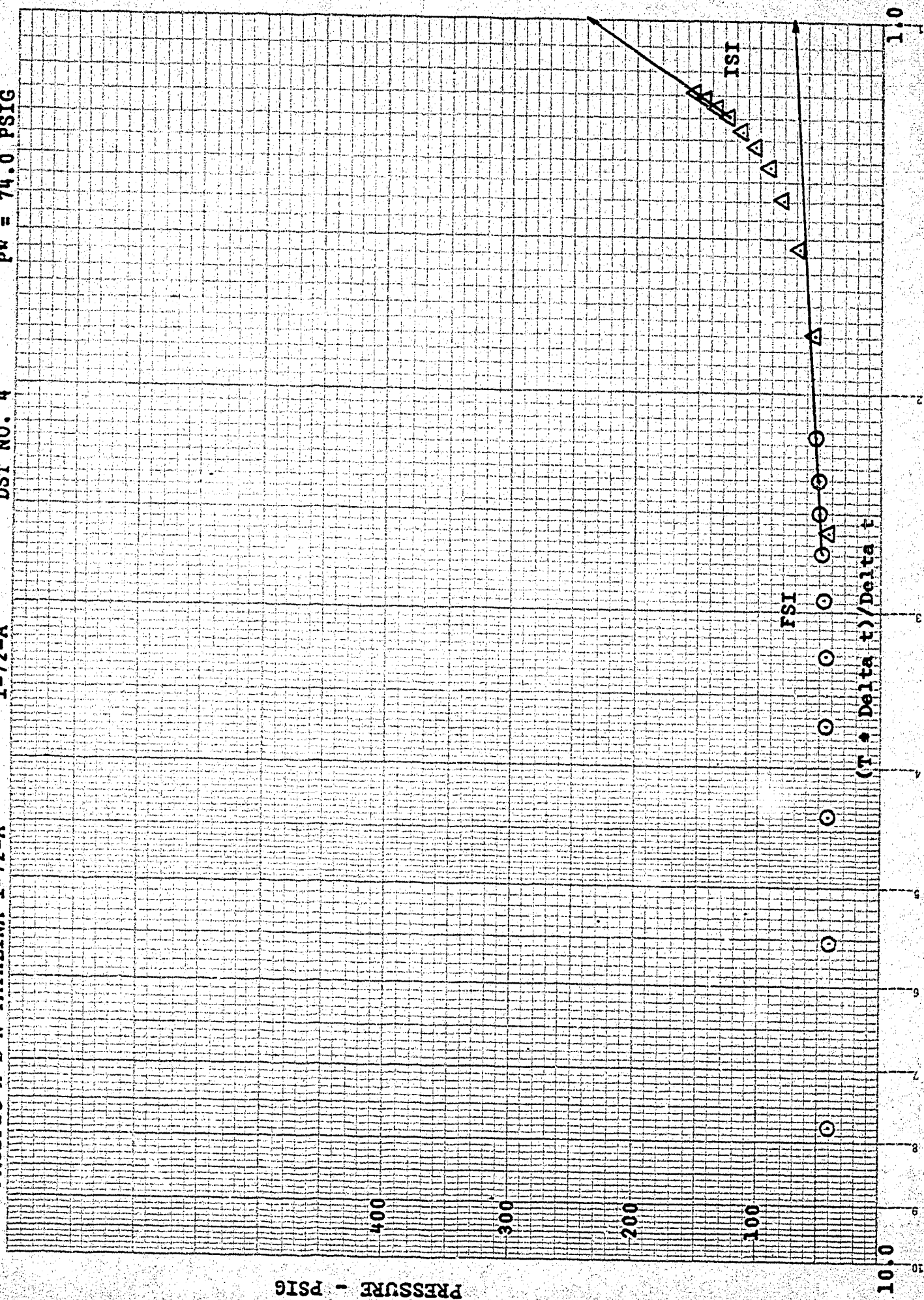
1-72-A

DST NO. 4

REC. NO. 1875

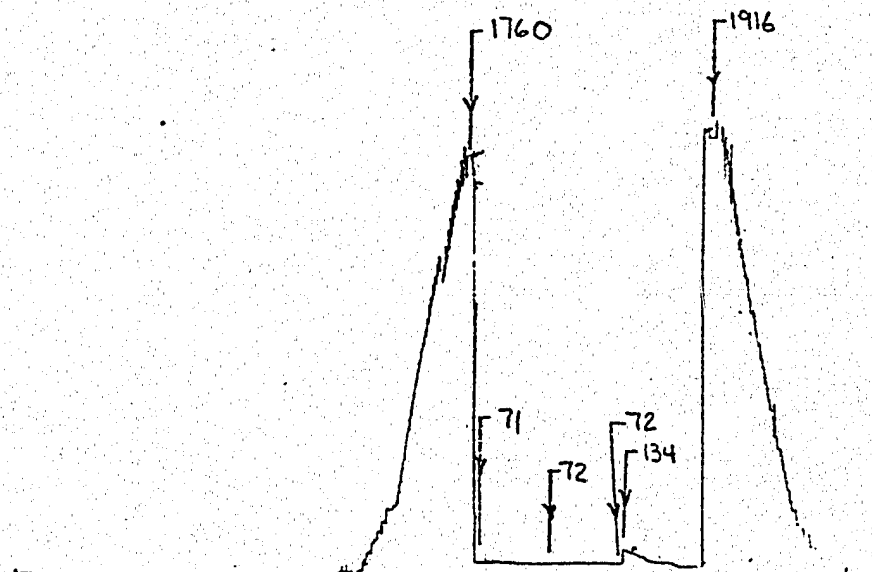


ps = 74.0 PSIG

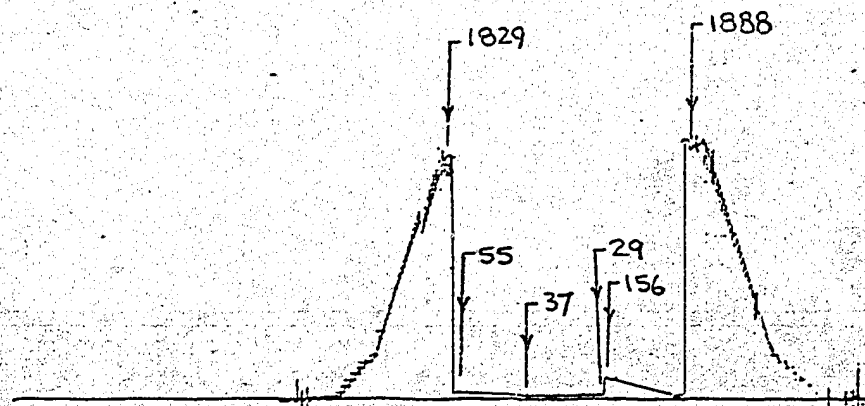


DST RECORDER CHARTS

PACIFIC-H-B-N-TATHLINA 1-72-A
DST NO. 4
INSIDE REC. NO. 6889



PACIFIC-H-B-N-TATHLINA 1-72-A
DST NO. 4
OUTSIDE REC. NO. 1875

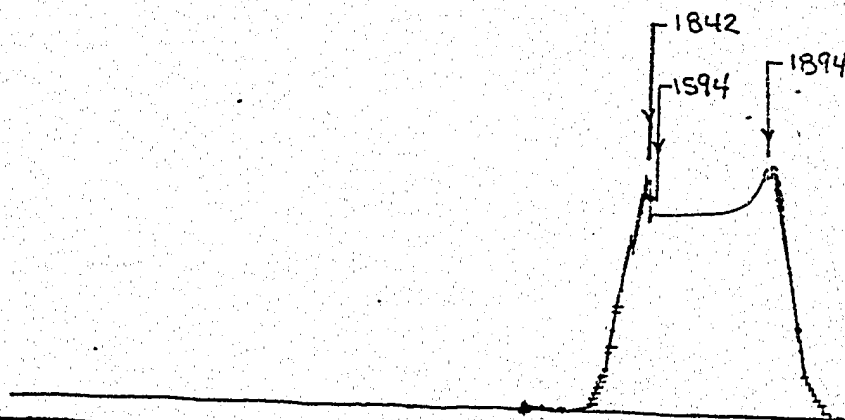




TESTING REPORT

DST RECORDER CHARTS

PACIFIC-H-B-N-TATHLINA 1-72-A
DST NO. 4
BOTTOM REC. NO. 3688



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