



Well Name Nom du puits Pacific Amoco Tathlina N-18		Drilling Authority No. Autorisation de forage n° 653
Field/Area Gisement/Région Tathlina Lake		Date Issued Date d'émission Jan. 11, 1973
Location Emplacement	Unit Unité M-18-60-20-118-00	Section Permit or Lease 4593
Latitude 60°17'46"		Longitude 118°03'00"
U.W.L.R. N.R.U.E.P. 60.29611 -- 118.05000		
U.W.L. No. N.R.U.P. No. 300N186020J.18000		
File Microfilmed		Rig Release Date Date de transfert de la tour de forage 19-02-73
Tour Sheets, Microfilmed		Status Statut Suspended Gas Well
		Information Release Date Date de publication autorisée des informations 19-02-75

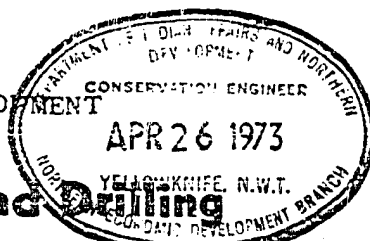
CHANGE OF NAME:
CHANGEMENT DE NOM:Change of Location
Changement de emplacement

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Data for Back Pressure Test on Natural Gas Wells		Données de calcul de la capacité de production d'un puits de gaz naturel - Méthode de Vitter
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New Oil Well Report		Rapport sur un nouveau puits de pétrole
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Strat Service Logs		Rapport mensuel des injections d'eau
Logs - Large scale		Diagrammes: Grande échelle
Logs - Small scale		Diagrammes: Petite échelle



Drilling Authority No. 653

DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT
OIL AND MINERAL DIVISION



Application to ~~Abandon Well~~ 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 Amoco Tathlina N-18
Location: Unit N Section 18 Grid 60-20-118-00
Latitude 50° 17' 46" N Longitude 118° 03' 00" W
From Established Reference Marker
Universal Well Location Reference Latitude 60.29611° N Longitude 118.05000° W
Permit No. 4593 Lease No.

Amoco Canada Petroleum Company Ltd.
(Permitter, Licencee, Lessee)

Date of commencement of proposed program February 19, 1973

OIL, GAS, AND WATER ENCOUNTERED
(Depths)

Oil at N/A
Gas at 3580 - 3610
Water at 3580 - 3610
Total Depth 4395 Date of last operations February 19, 1973
Present condition of well Suspended Slave Point Gas Well

CASING RECORD

Casing Size O.D. Inches	Weight	Amount	Set At—	Sacks of Cement and Additives	Amount Pulled
1. 8 5/8	24#	529'	541'	325 sacks cem. + 2% CaCl ₂	Nil
2. 4 1/2	11.6#	3692	3704'	30 sacks const. cem. + 2% gel 200 sacks 2-1 Pozmix + 8% gel + 0.5% CFR2	Nil
3.					
4.					
5.					

PROPOSED ~~ABANDONMENT~~ PROGRAM

Plug		SUSPENSION	Number of Sacks of Cement	Remarks
No.	Position	Geological Formation		
1	4395-4200	Keg R./Detrital/precambrian	80 sax	No feel
2	4000-3700	Slave pt/Walt Mtn/Sulphur Pt.	130 C + 2% CaCl ₂	Felt @ 3600' Polished off to 3700'

The following logs have been run DIL, GR/S-C
Other operations proposed Nil

Operations to be carried out by Kensing Petrolia Drilling Rig No. 9
Address Calgary, Alberta Contractor Licence No. 0230
Responsible Agent in field E. L. Molnar
Dated at Calgary, Alberta this 23rd Day of April 1973
Signed by [Signature] Company
Title Frontier Operations Manager Operator's Exploratory Licence No. 1448

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 30-APR-73

19

R. L. Price
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 Amoco Tathlina N-18
Location: Unit N Section 18 Grid 60-20-118-00
Latitude 60° 17' 46" N Longitude 118° 03' 00" W
Unique Well Identifier 300N186020118000
Universal Well Location Reference. Lat. 60.29611° N., Long. 118.05000° W.

Elevation: Ground 1290 (est) K.B. 1302 feet above sea-level.
Well is expected to produce from Elk Point formation at a depth
of about 3870 feet. Expected total final depth 4395
Area assigned to well .. Exploratory (for District Conservation Engineer's use only)

Permit No. 4593 Lease No. Acreage 63.534
Permittee, licensee, or lessee Amoco Canada Petroleum Company Ltd.
Exploratory Licence No. 1465
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. 20"	60#	J-55	New	40	To Surface
2. 8-5/8"	24#	J-55	New	450+	As Required
3. 4-1/2"	9.5#	J-55	New	4395	
4.					
5.					

Expected water, gas, and oil horizons and type of control equipment. Water Gel. - double gate Shaffer
Oil - Elk Point
Gas - Elk Point
Water - Elk Point
Well will be drilled with Rotary Rig No. 9 by Kenting Petrolia Drilling Ltd.
(Drilling Contractor or company)

Responsible agent of applicant:-
At well R. Ross Contractor's Business Licence No. 0230
Address Leiper At registered office H. W. Leiper
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 19th day of December 1972
Signed by Pacific Petroleum Ltd.
Title Frontier Operations Mgr. Operator's Licence No. 1448

(For Oil and Mineral Division use only)

APPROVED

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

See attached list of Conditions of Approval.

Dated 11-JAN-73 19

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

APPLICATION TO SUSPEND

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

DEMANDE D'ABANDON D'UN Puits OU DE SUSPENSION DU FORAGE

Conformément au Règlement sur les terres pétrolières et gazières du Canada, nous demandons l'autorisation d'abandonner le puits ci-après ou de suspendre les travaux de forage.

NAME & N° OF WELL PACIFIC AMOCO TATHLINA N-18				
LOCATION: UNIT EMPLACEMENT: UNITÉ N	SECTION 18	GRID - ÉTENDUE QUADRILLÉE 60-20-118-00	LATITUDE 60°17'46"N	LONGITUDE 118°03'00"W
UNIVERSAL WELL LOCATION REFERENCE - RÉFÉRENCE UNIVERSELLES D'EMPLACEMENT DU Puits Lat. 60.29611 Long. 118.05000		UNIQUE WELL IDENTIFIER N° - CODE D'ORDINATEUR 300N 186 020 118 00		
PERMIT N° - N° DE PERMIS 4593	LEASE N° - N° DE CONCESSION 63.534	EXPLORATION AGREEMENT N° - N° D'ACCORD D'EXPLORATION		DATE OF COMMENCEMENT OF PROPOSED PROGRAM DATE - DÉBUT D'EXÉCUTION DU PROGRAMME PROJETÉ 1980-02-15
HOLDER - TITULAIRE AMOCO CANADA PETROLEUM COMPANY LTD.				

OIL, GAS & WATER ENCOUNTERED (DEPTH) - PÉTROLE, GAZ ET EAU (PROFONDEUR)

OIL AT - PÉTROLE A	GAS AT - GAZ A 3580 - 3610	WATER AT - EAU A
TOTAL DEPTH - PROFONDEUR GLOBALE 4395'	DATE OF LAST OPERATIONS - DATE DES DERNIERS TRAVAUX 1973-04-19	PRESENT CONDITION OF WELL - ÉTAT ACTUEL DU Puits SUSPENDED

CASING RECORD - TUBAGE

CASING SIZE OD (mm) DIAMÈTRE EXTÉRIEUR (mm)	MASS - MASSE	AMOUNT - LONGUEUR	SET AT - FIXATION A	MASS OF CEMENT & ADDITIVES MASSE DE CIMENT ET D'ADDITIFS	AMOUNT PULLED LONGUEUR RECUPÉRÉE
1 8 5/8"	24#	529'	541' K.B.	325 sx	
2 4 1/2"	11.6#	3692'	3704' K.B.	200 sx	
3					
4					
5					

PROPOSED ABANDONMENT PROGRAM - PROGRAMME D'ABANDON PROJETÉ

PLUG - BOUCHON		GEOLOGICAL FORMATION FORMATION GÉOLOGIQUE	MASS OF CEMENT MASSE DE CIMENT	REMARKS - REMARQUES
N°	POSITION - PROFONDEUR			
	4200-4395'	CHINCHAGA Dtrtl	80 sx	
	3700-4000'	Watt Mt. - Elk Point	130 sx	

THE FOLLOWING LOGS HAVE BEEN RUN - LES DIAGRAMMES SUIVANTS ONT ÉTÉ TRACÉS
BHCS (539'-4369') DIL (539'-4369')

OTHER OPERATIONS PROPOSED - AUTRES TRAVAUX PROJETÉS

Single hanger completion tree installed on well.

OPERATIONS TO BE CARRIED OUT BY - LES TRAVAUX SERONT EXÉCUTÉS PAR

ADDRESS - ADRESSE

RESPONSIBLE AGENT J.P. Ciurysek	ADDRESS - ADRESSE Box 2844, Calgary, Alta.	DATED AT - FAIT À Calgary	DATE 80-02-19
SIGNATURE 	TITLE - TITRE Engineering Supervisor	COMPANY - SOCIÉTÉ PETRO CANADA LTD.	

NOTE: The District Conservation Engineer's office must be notified before work is commenced

NOTA: Aviser le bureau de l'ingénieur en conservation du district avant de commencer les travaux

APPROVAL (FOR BRANCH USE ONLY)

This application has been examined & proposed program approved, subject to the following conditions:

APPROBATION (À L'USAGE DE LA DIRECTION)

Demande étudiée et programme approuvé, sous réserve des conditions suivantes:

#1. The well shall be inspected and vented (if necessary) annually with a copy of

the inspection forwarded to the Regional Office.

#2 The Regional Office is to informed of proposal inspections in order to arrange

for joint observations.

DISTRICT CONSERVATION ENGINEER INGÉNIEUR EN CONSERVATION DU DISTRICT 	DATE 80-03-04
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SUBMIT IN TRIPPLICATE TO DISTRICT CONSERVATION ENGINEER, DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT.
PRÉSENTER EN TRIPLE EXEMPLAIRE À L'INGÉNIEUR EN CONSERVATION DU DISTRICT, MINISTÈRE DES AFFAIRES INDIENNES ET DU NORD CANADIEN.

D.I.A.N.D. - CONDITIONS OF APPROVAL FOR DRILLING AUTHORITY No. 653

WELL Pacific Anoco Tathlina N-18

1. Copies of this Drilling Authority Form and Daily Drilling Report Preparation Requirements Card, shall be posted in full view at the drilling rig, in both the doghouse and drilling foreman's office between spud and rig release dates.
2. The company will submit to this office, on Tuesday morning of each week, a day-by-day progress report summary, on the well, for the past week. (See daily drilling report preparation requirements card for pertinent details.) Phoned-in report format shall be in this order - well name, location, present depth, present activity in progress and past day's pertinent details.
3. All shows (small or large) of oil & gas are to be reported immediately.
4. When a fatal accident occurs the District Conservation Engineer is to be notified immediately and drilling ahead must cease. Permission to resume operations must be granted by the District Conservation Engineer after a fatality.
5. All waste materials on and around the wellsite area, shall be disposed of in a manner that will prevent pollution to adjacent areas. Burnables shall be burned and non-burnables shall be buried with adequate cover or hauled away.
6. Prior to moving to drilling site, a Land Use Permit, for access and a Water Use Permit must be obtained from the Water, Forests and Land Division, Yellowknife. We further draw your attention to Sections 95 and 96 of the Canada Oil & Gas Land Regulations.
7. Forward to this office two (2) field prints of all well logs (except Velocity logs) including copies of core analysis and fluid analysis as soon as they are available.
8. Any changes to, or additions to the approved Drilling Authority must have prior approval of the District Conservation Engineer. For example: total depth, casing depths/specs., location coordinates, well name, datum elevations, operator, contractor.
9. Surface casing to be set 50 feet (min.) into a consolidated formation at the approved depth.
10. 3000# W.P. (Ser. 900) B.O.P.'s are required to 12,000 ft. (max.)
5000# W.P. (Ser. 1500) B.O.P.'s are required below 12,000 ft.
11. You are required to notify the Yellowknife Office twenty-four (24) hours before spudding.

PRELIMINARY

GEOLOGICAL PROGNOSIS

WELL NAME:

Pacific Tathlina N-18

LOCATION:

60° 20' N., 118° 00' W.

ELEVATIONS:

Ground: 1290' (est.) Kelly Bushing: 1303' (est.)

<u>Geological Markers</u>	<u>Subsea</u>	<u>Depth</u>
Devonian	+ 770'	533'
Jean Marie	- 260'	1563'
Slave Point	-2310'	3613'
Elk Point Dolomite	-2580'	3883'
Chinchaga	-3000'	4303'
Pre-Cambrian	-3090'	4393'
Total Depth	-3105'	4408'

Permafrost is not expected to be encountered. According to G.S.C. Permafrost Map, this is in a "fringe" area.

PROGRAM:

1. Drill 20 to 25 feet into Elk Point porosity and run a drill-stem test. If production is obtained, core and test by 60 foot intervals until out of porosity or until formation water is encountered.
2. Repeat above program for Chinchaga porosity.
3. Drill 15 feet into the Pre-Cambrian and run logs.
4. Further drill-stem testing will depend on log evaluations.

SAMPLES:

Pacific - one set, 10' intervals from surface to total depth.

Amoco - to be determined.

Department of Indian Affairs and Northern Development - to be determined.

ANALYSES:

Core (porous sections only) - full diameter analysis. Oil, gas and water recovered from all DST's. Water recovered from DST's (three samples - top, middle and bottom of recoveries).

LOGS: (Schlumberger)

DIL

2" - 100', total depth to surface casing.
(linear - 0-50 ohm m/m scale)

5" - 100', total depth to 100' above the Slave Point
(logarithmic scale)

(BHC) GR/Sonic-Caliper (40-60-80 scale over carbonates)
1' spacing

2" - 100', total depth to surface.

5" - 100', total depth to 100' above the Slave Point.

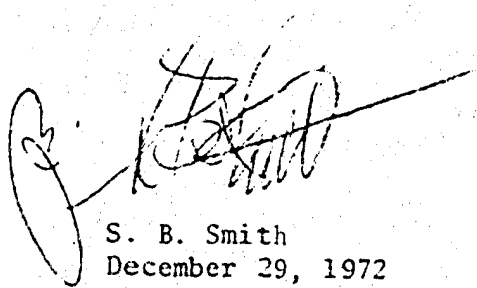
REQUIREMENTS:

	<u>Field</u>	<u>Logs</u>	<u>Final</u>	<u>Analyses</u>	<u>DST Reports</u>
Pacific (Ft. St. John)	3	-	-	1	1
Pacific (Calgary)	2	2	2	2	2
Amoco	2	2	2	2	2
Dept. of Affairs	-	3	3	3	3

PARTNERS WITH DERRICK FLOOR PRIVILEGES:

Amoco

WDK/clr


S. B. Smith
December 29, 1972

PACIFIC TATHLINA N-18

DRILLING PROGRAM

Location: 60° 20' N, 118° 00' W
Proposed T.D.: 4395'
Objective Horizon: Elk Point (Oil and Gas)
K.B. Elevation: 1290' (est.)

Proposed General Program:

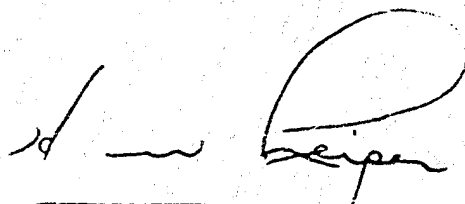
1. Drill 12½" hole to 700 feet.
2. Run 8 5/8" 24#/ft. J-55 casing to bottom. Cement full length using neat construction cement plus 2% CaCl₂.
3. Drill out the 8 5/8" casing shoe using a 7 7/8" bit. Then drill ahead 7 7/8" hole.
4. Drill 50' into the Precambrian zone, top estimated at 4380 K.B.
5. Test as required from log analysis.

Mud System:

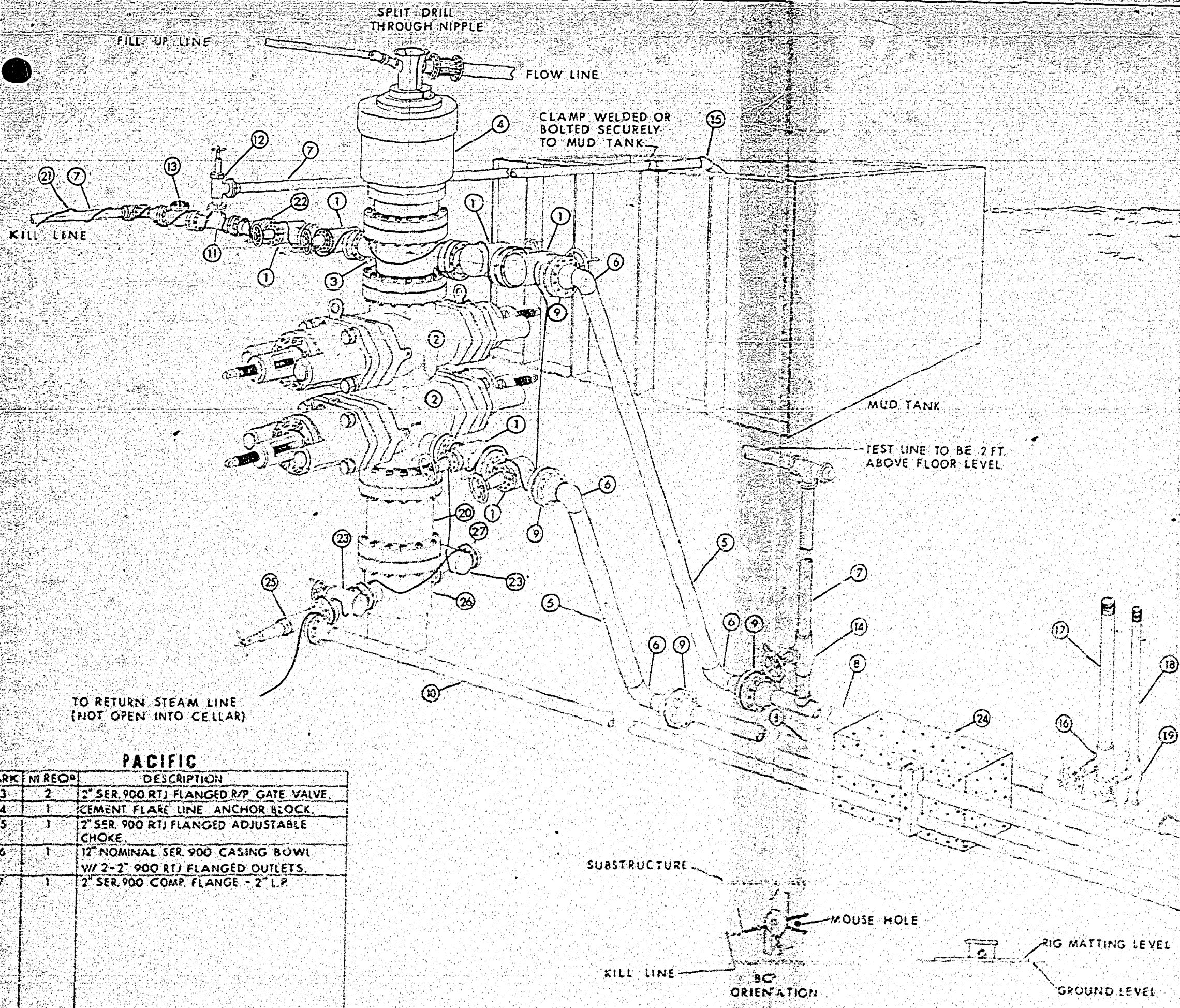
0 - 700' There is a possibility of encountering gravel in some sections of the surface hole. As such, maintain YP values in the order of 30, with viscosity in the order of 70 to 80 sec/ft. until gravel is encountered. Annular velocity in the range of 100 should be satisfactory until gravel is encountered. When gravel is encountered, increase YP to the 50 to 60 range increasing velocity to about 150 sec/ft. With these mud conditions, annular velocity should be reduced to about 70 ft/min. to reduce erosion.

700' - TD This section of hole should be drilled using a low solids gel CMC system. It should be noted that at Cameron M-05, water was employed for the top section of hole. This resulted in hole problems and a stuck pipe situation on the third day. To avoid this possibility, the low solids gel CMC system should be used immediately below the surface casing shoe. A mixing ratio of one bag of reg. CMC to 12 bags of gel, adjusting to viscosity as required, will maintain yield points that are suitable while providing good water loss control and a good velocity profile. This system should be maintained in the 9.0 lb/gal. range if possible.

WLF/lk
January 2, 1973



H. W. Leiper,
Frontier Operations Manager



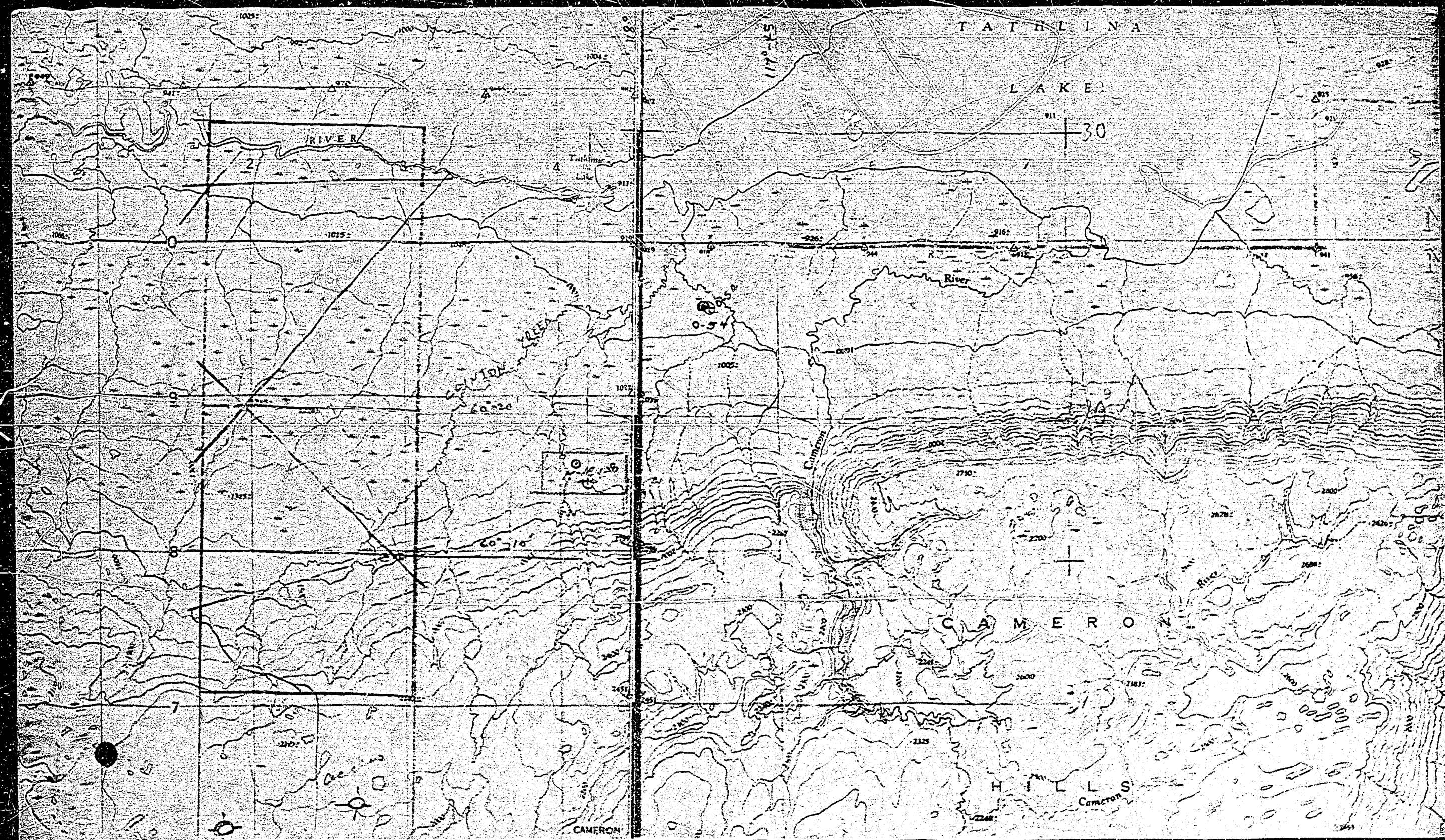
CONTRACTOR

MARK	NO REQ	DESCRIPTION
1	6	3" SER. 900 RTJ FLANGED FULL OPENING ALL STEEL GATE VALVE
2	1	12" SER. 900 DOUBLE GATE 'SHAFFER' (OR EQUAL) HYDRAULIC BLOW OUT PREVENTER. PIPE RAMS BOTTOM BLANK RAMS TOP
3	1	12" x 12" x 3" x 3" SPOOL RTJ
4	1	12" SER. 900 HYDRIL (OR EQUAL) BLOW OUT PREVENTER
5	2	3" SCH. 80 LINE PIPE - 5A - MINIMUM 15 FT.
6	4	3" SCH. 80 45° L.R. WELD ELLS
7	3	2" SCH. 80 LINE PIPE
8	2	150' DRILL PIPE (FLARE LINE)
9	6	3" SER. 900 RTJ W.N. FLANGE
10	1	150' - 2 7/8" 6.5" 8 RD THD. EYE TUBING (FLARE LINE)
11	1	2" x 2" x 2" RTJ FLANGED SER. 900 TEE
12	1	2" SER. 900 RTJ FLANGED ADJ. CHOKE
13	1	2" SER. 900 CHECK VALVE
14	1	2" SER. 900 ALL STEEL VALVE
15	1	2" SCH. 80 45° L.R. WELD ELL
16	2	3" SCREWED GATE VALVE - 1000"
17	1	3" LINE PIPE W/1/2" COLLAR MIN. 12" FROM END
18	1	2" LINE PIPE W/1/2" COLLAR MIN. 8" FROM END
19	1	2" SCREWED GATE VALVE - 1000"
20	1	12" x 12" SER. 900 RTJ SPACER SPOOL
21	as shown	3/4" BRAIDED STEAM HOSE FOR WINTER OPERATION
22	1	2" x 3" 900 ADAPTER FLANGE OR SPOOL

NOTE: ALL BOP CONTROLS MUST BE OPERATIVE FROM A REMOTE STATION 75 FT. FROM WELL BORE. ALL SPOOLS MUST HAVE I.D. TO API SPECIFICATIONS. VALVES MUST BE INSTALLED AS SHOWN. SHAFFER IS SHOWN WITHOUT MANUAL CONTROL ARMS FOR SIMPLICITY, BUT MUST BE INSTALLED AND OPERATIVE.

PACIFIC

MARK	NO REQ	DESCRIPTION
23	2	2" SER. 900 RTJ FLANGED R/P GATE VALVE
24	1	CEMENT FLARE LINE ANCHOR BLOCK
25	1	2" SER. 900 RTJ FLANGED ADJUSTABLE CHOKE
26	1	12" NOMINAL SER. 900 CASING BOWL W/ 2-2" 900 RTJ FLANGED OUTLETS
27	1	2" SER. 900 COMP. FLANGE - 2" L.P.



667-11-04-043

N^o NWT 653
Pacific Amoco Tathlina R-18

667-11-04-043

PACIFIC PETROLEUMS LTD.

WELL HISTORY SUMMARY REPORT

PACIFIC AMOCO TATHLINA N-18

N-7940-1-653

PACIFIC PETROLEUMS LTD.
WELL HISTORY SUMMARY REPORT
PACIFIC AMOCO TATHLINA N-18

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DRILLING AUTHORITY NO. 653

WELL HISTORY SUMMARY REPORT



PACIFIC AMOCO TATHLINA N-18

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

Compiled by:

M. M. Neeser
M. M. Neeser

Submitted by:

H. W. Leiper
H. W. Leiper
Frontier Operations
Manager

Date:

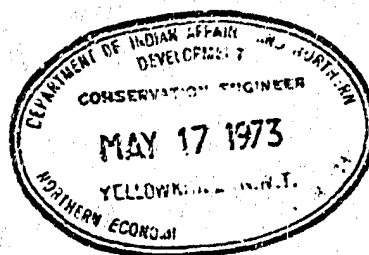
R. W. Nyffeler
Operations Engineer

April 26/73

PACIFIC PETROLEUMS LTD.
WELL HISTORY SUMMARY REPORT
PACIFIC AMOCO TATHLINA N-18

1. SUMMARY OF WELL DATA

<u>Well Name:</u>	Pacific Amoco Tathlina N-18
<u>Permittee:</u>	Amoco Canada Petroleum Company Ltd.
<u>Operator:</u>	Pacific Petroleum Ltd. P. O. Box 6666 Calgary, Alberta
<u>Location:</u>	Unit N, Section 18 Grid: North 60° 20', West 118° 00' Latitude: 60° 17' 46" N Longitude: 118° 03' 00" W Unique Well Identifier: 300N18602011800
<u>Co-ordinates:</u>	North 60° 20', West 118° 00'
<u>Permit Number:</u>	4593
<u>Drilling Contractor:</u>	Kenting-Petrolia Drilling Ltd. Rig No. 9, Licence No. 0230
<u>Drilling Authority Number:</u>	#653, issued January 11, 1973
<u>Classification:</u>	Exploratory Test Well
<u>Elevations:</u>	Ground: 1301.00' K. B.: 1313.10' K. B. to Ground: 12.10'
<u>Date Spudded:</u>	January 28, 1973
<u>Completed Drilling:</u>	February 10, 1973
<u>Total Depth:</u> <u>P.S.T.D.:</u>	4395' K.B. 3688' K.B. (Howco Insert Float)
<u>Status:</u>	Suspended Slave Point Gas Well
<u>Date Drilling Rig Released:</u>	February 19, 1973
<u>Hole Size to T.D.:</u>	12-1/4" - 0' - 541' 7-7/8" - 541' - 3700'



1. SUMMARY OF WELL DATA CONTINUED

Casing:

Ran and set 13 joints of 8-5/8" - 24#, ST & C, 8 rd, Jap. casing for a total of 545.54'. Landed at 541' K.B. with 325 sacks construction cement with 2% CaCl₂.

Ran and set 116 joints of 4-1/2" - 11.6#, Seal-Loc Armco thread Pathfinder casing for a total of 3705.32'. Landed at 3704' K.B. with 200 sacks of 2:1 Poz, 8% gel, 0.5% CFR2, 0.15% HR7 and 200 sacks of tail in cement (1:1 Poz, 2% Gel, 0.5% CFR2). Mixed 30 sacks construction cement, 2% Gel as wash ahead of above cement. Total volume used = 570 cu. ft. Plug down at 5:13 p.m., February 19, 1973.

2. GEOLOGICAL SUMMARY

Formation Tops:

	<u>Sample</u>		<u>Log</u>	
	<u>Depth</u>	<u>SubSea</u>	<u>Depth</u>	<u>SubSea</u>
Devonian-Wabamun	482'	+ 820'		
Utahn			1585'	- 283'
Jean Marie	1595'	- 293'	1595'	- 293'

2. GEOLOGICAL SUMMARY CONTINUEDFormation Tops Continued:

	<u>Sample</u>		<u>Log</u>	
	<u>Depth</u>	<u>SubSea</u>	<u>Depth</u>	<u>SubSea</u>
Muskwa	3465'	-2163'	3475'	-2173'
Slave Point	3578'	-2276'	3564'	-2262'
Watt Mountain	3735'	-2433'	3804'	-2502'
Sulphur Point	3825'	-2523'	3827'	-2525'
Elk Point	3909'	-2607'		
Keg River Limestone	4140'	-2838'	4113'	-2811'
Chinchaga Detrital	4275'	-2973'	4341'	-3039'
Pre-Cambrian			4357'	-3055'
Total Depth:	4395'			

Sample Descriptions:

290 - 482' Shale: medium to dark grey, slightly micromicaceous, very slightly silty in part, trace pyrite.

DEVONIAN-WABAMUN 482' (+820')

482 - 830' Limestone: cream to buff, crypto to microcrystalline, very slightly silty in part, fossiliferous, dense.

830 - 850' Limestone: as above, with abundant limestone: cream to buff, micro to fine crystalline, dense.

850 - 890' Limestone: cream to buff, crypto to microcrystalline, very slightly silty in part, fossiliferous, dense.

890 - 900' Limestone: 'as above, slightly coarser crystals.

2. GEOLOGICAL SUMMARY CONTINUEDSample Descriptions Continued:

- 900 - 1010' Limestone: cream to buff, crypto to micro to fine crystalline, fossiliferous, dense.
- 1010 - 1080' Limestone: cream to buff, micro to fine crystalline, very slightly silty and sandy in part, fossiliferous, oolitic in part, dense.
- 1080 - 1090' Limestone: very oolitic, as above.
- 1090 - 1110' Limestone: cream to buff, crypto to microcrystalline, occasionally sandy and grading to sandstone: light brownish grey, very fine grained, sub-angular to sub-rounded, well sorted, tight.
- 1110 - 1240' Limestone: cream to buff, crypto to mostly microcrystalline, very slightly sandy in part, fossiliferous, dense.
- 1240 - 1270' Limestone: cream to buff, crypto to microcrystalline, slightly silty in part, dense.
- 1270 - 1300' Limestone: as above, with abundant sandstone: light greenish grey, very fine, silty and grading to siltstone: calcareous, tight.
- 1300 - 1390' Limestone: as above, decrease silty and sandy contents.
- 1390 - 1450' Limestone: cream to buff, crypto to microcrystalline, very slightly silty, dense, abundant siltstone: light greenish grey, calcareous.
- 1450 - 1460' Limestone: as above, siltstone: as above, traces shale: light greyish green.
- 1460 - 1500' Limestone: as above, siltstone: as above, traces shale: as above.
- 1500 - 1540' Limestone: cream to buff, crypto to microcrystalline, slightly argillaceous, slightly silty, dense, abundant siltstone: light greenish grey, calcareous.
- 1540 - 1550' Limestone: as above, minor siltstone: as above, trace shale: light greyish green.
- 1550 - 1595' Limestone: as above, abundant siltstone: as above, trace shale: as above.

JEAN MARIE 1595' (-293')

2. GEOLOGICAL SUMMARY CONTINUEDSample Descriptions Continued:

1595 - 1600'	Sandstone: light grey, very fine grained, sub-angular, fairly well sorted, very calcareous, very silty and grading to siltstone, limestone: as above, trace shale: as above.
1600 - 1610'	Limestone: cream to buff, crypto to microcrystalline, slightly silty with some siltstone: as above.
1610 - 1730'	Sandstone: light grey, very fine grained, sub-angular to sub-rounded, fairly well sorted, very silty and grading to siltstone, and equal amounts of limestone: as above, trace shale: as above.
1730 - 1750'	Shale: light greyish green, with abundant limestone: as above, sandstone: as above with siltstone: as above.
1750 - 1760'	Shale: as above, abundant siltstone: as above, abundant limestone: as above.
1760 - 1810'	Shale: green, as above, abundant siltstone and limestone: as above, shale: medium reddish brown (Redknife?).
1810 - 1960'	Shale: green, as above, abundant siltstone, limestone and red brown shale: as above.
1960 - 1990'	Siltstone: light grey, very calcareous, sandy and grading to sandstone, limestone: as above, shale: green, as above, shale: red brown, as above.
1990 - 2040'	Shale: light to medium greyish green, siltstone: as above, shale: red brown, as above and traces of limestone: as above.
2040 - 2070'	Equal amounts of shale: as above, siltstone: as above and limestone: as above, minor amount of shale: red brown.
2070 - 2090'	Siltstone: as above, with abundant limestone: as above, minor shales: as above.
2090 - 2110'	Limestone: cream to buff, crypto to microcrystalline, silty, dense, siltstone: as above, minor shale: as above.
2110 - 2200'	Equal amounts of shale: green, as above, and siltstone: as above, abundant limestone: as above.
2200 - 2220'	As above, increase shale: red brown.

2. GEOLOGICAL SUMMARY CONTINUEDSample Descriptions Continued:

- 2220 - 2240' Shale: green, as above, abundant siltstone: light grey and shale: red brown, some limestone: cream to buff, crypto to microcrystalline, silty, dense.
- 2240 - 2290' Siltstone: as above, with abundant shales and some limestone: as above.
- 2290 - 2300' Shale: light greenish grey, slightly micromicaceous, shale: medium reddish brown, abundant siltstone: as above, limestone: as above.
- 2300 - 2330' Siltstone: light greenish grey, calcareous, abundant shale: as above, some limestone: as above.
- 2330 - 2350' Shale: light to medium greyish green, slightly silty in part, with abundant siltstone and limestone: as above, shale: reddish brown.
- 2350 - 2400' Limestone: cream to buff, cryptocrystalline, slightly silty in part, dense, with abundant shales and siltstone: as above.
- 2400 - 2410' Equal amounts of shale: green, as above, limestone: as above, abundant siltstone: as above and shale: reddish brown.
- 2410 - 2460' Shale: green, as above, shale: reddish brown, as above.
- 2460 - 2480' Siltstone: light to medium greenish grey, argillaceous and grading to shale in part, calcareous, minor limestone: as above.
- 2480 - 2490' Siltstone: as above, limestone: as above, minor shale: light to medium greyish green, traces pyrite.
- 2490 - 2540' All as above, increase green shale.
- 2540 - 2570' Shale: light to medium greyish green, shale: medium reddish brown, siltstone: as above, minor limestone: as above.
- 2570 - 2590' Siltstone: as above, shales: as above, minor limestone: as above.
- 2590 - 2680' Shale: light to medium greenish grey, very silty and grading to siltstone, siltstone: light to medium grey, very calcareous, minor shale: light green, minor shale: reddish brown, minor limestone: as above.

2. GEOLOGICAL SUMMARY CONTINUEDSample Descriptions Continued:

- 2680 - 2760' Siltstone: as above, abundant shales: as above, minor limestone: as above.
- 2760 - 2790' Shale: light to medium greenish grey, very silty and grading to siltstone, abundant siltstone: light to medium grey, very argillaceous, very calcareous, minor shale: light green, minor shale: reddish brown.
- 2790 - 2810' As above, slight increase siltyness.
- 2810 - 2840' Shale: light green, shale: medium reddish brown, rest sample as above.
- 2840 - 2890' Shale: light to medium greenish grey, very silty and grading to siltstone, siltstone: light to medium grey, very calcareous, shale: green, as above, shale: red brown, as above.
- 2890 - 2920' Shale: medium reddish brown, shale: light green, shale: light to medium greenish grey, very calcareous, very silty, and grading to siltstone, siltstone: light to medium grey, very calcareous, traces limestone: cream to buff, microcrystalline, dense.
- 2920 - 2930' Shale: light to medium greenish grey, slightly silty and grading to siltstone in part, siltstone: light to medium grey, very calcareous, shale: medium reddish brown, traces limestone: as above.
- 2930 - 3020' As above, slight increase brown shale.
- 3020 - 3040' Shale: light green to light greyish green, slightly calcareous, very silty and grading to siltstone in part, abundant siltstone: light grey to light greenish grey, calcareous, minor shale: medium reddish brown, minor limestone: as above.
- 3040 - 3080' As above, increase shale: medium reddish brown.
- 3080 - 3100' As above, decrease red brown shale.
- 3100 - 3310' As above, increase red brown shale.
- 3310 - 3350' All as above, some shale: medium grey, slightly micaceous.
- 3350 - 3380' Shale: light to medium greenish grey, slightly micaceous, slightly calcareous, slightly silty in part, siltstone: light grey to light to medium greenish grey, calcareous, shale: medium grey to medium brownish grey.

2. GEOLOGICAL SUMMARY CONTINUEDSample Descriptions Continued:

3380 - 3400' Shale: light to medium greenish grey, as above,
siltstone: as above, abundant shale: medium grey.

3400 - 3410' All as above, with shale: medium reddish brown.

3410 - 3465' All as above, decrease reddish shale.

MUSKWA BEAVERHILL LAKE 3465' (-2163')

3465 - 3480' Shale: medium to dark grey to black, slightly micro-
micaceous, slightly bituminous, abundant shale: light
to medium greenish grey, slightly calcareous, silty
in part and grading to siltstone, siltstone: light
grey to light greenish grey, calcareous.

3480 - 3500' Shale: light to medium greenish grey, slightly cal-
careous, slightly silty in part and grading to
siltstone, siltstone: as above, shale: medium to
dark grey, slightly micromicaceous.

3500 - 3510' Shale: light to medium greenish grey, slightly cal-
careous, slightly silty, siltstone: light grey to
light greenish grey, slightly calcareous, shale: dark
grey, shale: medium to dark brown.

3510 - 3530' Shale: dark grey to dark brownish grey to black,
slightly micromicaceous, slightly bituminous, abundant
shale: light to medium greenish grey, as above,
minor siltstone: as above.

3530 - 3540' Shale: green, as above, siltstone: as above, decrease
dark shale: as above.

3540 - 3578' Shale: light to medium greenish grey, slightly cal-
careous, slightly silty in part, siltstone: light
grey to light greenish grey, calcareous, shale: dark
grey to black, minor limestone: light to medium brown,
micro to fine crystalline, dense.

SLAVE POINT 3578' (-2275')

3578 - 3590' Limestone: cream to medium brown to tan, micro to
fine crystalline, traces poor leached pinpoint and
microvuggy porosity.

3590 - 3630' Limestone: cream to medium brown to tan, microcry-
stalline, dense.

2. GEOLOGICAL SUMMARY CONTINUEDSample Descriptions Continued:

- 3630 - 3640' Limestone: cream to medium brown to tan, crypto to microcrystalline, dense.
- 3640 - 3700' Limestone: cream to medium brown, crypto to occasionally microcrystalline, dense.
- 3700 - 3735' Limestone: as above, shale: medium grey to light to medium greenish grey, slightly silty in part, slightly calcareous.
- WATT MOUNTAIN 3735' (-2433')
- 3735 - 3750' Shale: as above, limestone: as above, minor siltstone: light greenish grey, calcareous.
- 3750 - 3825' All as above, slight increase siltstone.
- SULPHUR POINT 3825' (-2523')
- 3825 - 3830' Limestone: cream to medium brown, crypto to microcrystalline, dense, shale: medium grey to light medium greenish grey, slightly calcareous.
- 3830 - 3890' Limestone: as above, shale decreasing.
- 3890 - 3909' Limestone: cream, cryptocrystalline, dense, minor shale: as above.
- ELK POINT 3909' (-2607')
- 3909 - 3910' Dolomite: light to medium brown, micro to fine crystalline, dense, rest sample all as above.
- 3910 - 3940' Limestone: cream to buff, cryptocrystalline, dense, shale: medium grey, clear quartz grains, very fine grained, loose and friable, traces dolomite: as above.
- 3940 - 3970' Dolomite: cream to light to medium brown, very fine to fine crystalline, traces of freely grown crystals, generally dense with traces of poor pinpoint and microvuggy porosity, the occasional grain has good porosity.
- 3970 - 3990' Dolomite: as above, porosity slightly increased.
- 3990 - 4000' Dolomite: as above, generally dense with traces of poor pinpoint and microvuggy porosity.
- 4000 - 4010' Dolomite: as above, trace poor porosity.

2. GEOLOGICAL SUMMARY CONTINUEDSample Descriptions Continued:

- 4010 - 4040' Dolomite: as above with poor to fair microvuggy porosity.
- 4040 - 4060' Dolomite: as above, poor to fair microvuggy porosity.
- 4060 - 4090' Dolomite: light cream to medium brown, cryptocrystalline to fine crystalline, very slightly porous to dense, slightly anhydritic in part.
- 4090 - 4100' Anhydrite: light brown to medium brown, slightly dolomitic to dolomitic with interbedded dolomite: as above.
- 4100 - 4110' Dolomite: cream-tan-medium brown, micro to fine crystalline, some intercrystalline poor porosity, slightly anhydritic.
- 4110 - 4140' Dolomite: medium brown, some dark brown, fine crystalline with some cream-white dolomite: medium to coarse crystalline, trace poor porosity.
- KEG RIVER LIMESTONE 4140' (-2838')
- 4140 - 4200' Limestone: brown-medium brown, micro to fine crystalline, slightly dolomitic, some cream, dense, oily residue remains after acid dissolve.
- 4200 - 4260' Limestone: as above, cream to light brown to medium brown, micro to fine crystalline, slightly dolomitic in part with few interbeds dolomite.
- 4260 - 4275' Limestone: as above, increasing dolomitic downward.
- 4275 - 4290' Dolomite: cream to medium dark brown, crypto to very fine crystalline, limy, no visible porosity.
- CHINCHAGA 4275' (-2973')
- 4290 - 4320' Dolomite: tan to buff, to medium brown, crypto to microcrystalline, with anhydrite: buff to tan, sucrosic, trace bituminous stain, some dark brown dolomite: no visible porosity.
- 4320 - 4330' Dolomite: tan to buff, light brown, micro to very fine crystalline, trace pinpoint porosity, interbedded anhydrite: white to buff.
- 4330 - 4340' As above.

2. GEOLOGICAL SUMMARY CONTINUED

Sample Descriptions Continued:

4340 - 4350' Anhydrite: tan, microcrystalline, interbedded with
 trace shale: pale to bright green.

4350 - 4360' As above.

4360 - 4394' Granite, orange pink, quartz and feldspar with biotite.

TOTAL DEPTH 4395'

Paleontological Determinations:

Nil.

3. ENGINEERING SUMMARY

Drill Stem Tests:

DST #1: 3880' - 3991' (Elk Point) - February 7, 1973.
60-60-90. Weak air blow on preflow, weak air blow
on valve open, constant throughout test. No gas to
surface. Recovered 150' gassified mud and 500' gassified
water. HP 2087-2036, SI 1583-1583, FP 206-400. BHT 109°.

DST #2: 4245' - 4395' (Chinchaga) - February 13, 1973.
60-30-90. Fair initial air blow on preflow, dying out.
Weak air blow on valve open. Recovered 140' mud, 100'
slightly watery mud. HP 2140-2137, SI 1729-1661,
FP 140-152. BHT 111°.

DST #3: 3580' - 3610' (Slave Point) - February 15, 1973.
Misrun - could not get to bottom.

DST #4: 3580' - 3610' (Slave Point) - February 17, 1973.
PF 5, ISI 60, 2nd F 60, 2nd SI 60, FF 90, FSI 90.
Good air blow on PF. Gas to surface in 4 mins.
Recovered 204' muddy salt water and 120' oil flecked
muddy salt water. HP 1826-1784, PF 294, ISIP 1539,
2nd FP 249-1277, 2nd SIP 1530, FFP 315-346, FSIP 1524.
BHT 91°.

3. ENGINEERING SUMMARY CONTINUEDCasing Records:Surface:

Ran and set 13 joints, 8-5/8", 24#, ST & C Jap. casing for a total of 545.54'. Landed at 541' K.B. with 325 sacks construction cement c/w 2% CaCl₂. Plug on bottom at 4:00 pm, January 29, 1973.

Production:

Ran and set 116 joints, 4-1/2", 11.6#, Seal-Loc Pathfinder casing for a total of 3705.32'. Landed at 3704' K.B. with 200 sacks of 2:1 Poz, 8% gel, 0.5% CFR2, 0.15% HR7 and 1:1 Poz, 2% gel, 0.5% CFR2 tail in cement. Washed ahead of above cement with 30 sacks construction cement + 2% Gel. Plug on bottom at 5:13 pm, February 19, 1973.

Bit Record:

Bit No.	Make	Type	Size	Serial No.	Hours On Bottom	Depth		Footage	Remarks
						In	Out		
1A	HW	OSC 3	12-1/4	R. T.	5-1/2	0	477	477	4-2-1
1B	HW	X3A	7-7/8	49707	3	477	614	137	111
2A	HW	XIG	12-1/4	R. T.	3	477	541	64	3-2-1
(8-5/8" surface casing set at 541' K.B.)									
1	HW	X3A	7-7/8	49707	19-3/4	541	1305	764	4-2-1
2	HW	XIG	7-7/8	49836	19-1/2	1305	2217	912	7-8-1
3	HW	XIG	7-7/8	49837	27-1/2	2217	2999	782	5-4-1
4	Smith	SVH	7-7/8	MC601	24-1/2	2999	3693	694	
5	HW	XDV	7-7/8	49340	24-1/2	3693	3821	128	
6	Sec	DMV	7-7/8	913561	23	3821	3991	170	
7	HW	WD7	7-7/8	49729	16	3991	4136	145	
8	HW	WD7	7-7/8	49727	12-1/2	4136	4284	148	
9	HW	J7	7-7/8	48784	13-1/2	4284	4395	108	
(Total Depth: 4395')									

Mud Record:

Date	Depth	Weight lbs/US gal	Viscosity Secs	Water Loss CC in 30"	Filter Cake 32nd in	pH	Remarks
Jan 31	1205'	9.0	43			9.5	
Feb 1	2124'	8.9	36	16	1/32	9.5	
Feb 2	2698'	8.9	34	17	2/32	9.0	
Feb 3	3200'	9.0	35	17	2/32	9.0	
Feb 4	3696'	9.0	36	17	2/32	9.0	
Feb 5	3791'	9.0	36	16	2/32	9.0	
Feb 6	3900'	9.0	41	17	2/32	9.0	
Feb 7	3991'	9.0	67	12.0	2/32	8.8	Caustic unical mil- ember

3. ENGINEERING SUMMARY CONTINUEDMud Record Continued:

Date 8:00 AM	Depth	Weight lbs/US gal	Viscosity Secs	Water Loss CC in 30"	Filter Cake 32nd in	pH	Remarks
Feb 8	4034'	9.0	50	12.0	2/32	10.5	Soda ash
Feb 9	4184'	9.0	46	12.0	2/32	11.0	caustic
Feb 10	4335'	9.0	54	12.0	2/32	10.5	Caustic soda
Feb 11	4395'	9.1	67	12.0	2/32	10.0	ash
Feb 12	4395'	9.0	68	8.0	2/32	10.0	Gel soda
Feb 13	4395'	9.0	72	6.0	2/32	10.0	ash
Feb 14	4395'	9.0	72	10.0	2/32	10.0	Unical
Feb 15	4395'	9.1	65	7.2	2/32	10.0	CMC
Feb 16	4395'	9.2	150	6.0	2/32	9.5	CMC

(Total Depth: 4395')

Deviation Record:

<u>Survey At</u>	<u>Deviation</u>
82'	1/2°
105'	1/4°
168'	3/4°
249'	1/2°
333'	1/2°
419'	1/2°
541'	1/2°
614'	1/2°
822'	3/4°
1193'	3/4°
1335'	1/4°
1577'	3/4°
1850'	1/2°
2220'	2-1/4°
2310'	1-7/8°
2518'	1-1/4°
2818'	1-1/4°
2999'	1°
3390'	7/8°
3693'	6°
3725'	7°
3759'	7°
3791'	Mis
3820'	7°
3854'	7°
3875'	7°

3. ENGINEERING SUMMARY CONTINUEDDeviation Record Continued:

<u>Survey At</u>	<u>Deviation</u>
3905'	6-7/8°
3936'	7 °
3991'	14 °
4034'	12 °
4063'	12 °
4136'	12 °
4184'	11 °
4213'	10-1/2°
4243'	10-1/8°
4273'	10 °
4365'	8 °
Total Depth: 4395'	8 °

Abandonment Plugs:

February 18, 1973 - Plug No. 1
4200' - 4395' (195'), 80 sacks construction cement.
Plug down at 4:15 am.

February 18, 1973 - Plug No. 2
3700' - 4000' (300'), 130 sacks construction c/w 2%
CaCl₂ cement. Plug down at 5:00 am. Felt plug in
8 hours at 3600' - polished to 3700' K.B. PBD
3700' K.B.

Lost Circulation Zones:

Nil.

Report of Blowouts:

Nil.

4. LOGGING SUMMARYLogs:

Borehole Compensated Sonic Log - Run No. 1 -
4369' - 539' - run February 11, 1973.

Dual Induction-Laterolog - Run No. 1 -
4369' - 539' - run February 11, 1973.

Surveys:

Nil.

5. ANALYSES SUMMARY

Core Analysis: Nil

Gas Analysis: Lab No. E73-2991 - February 22, 1973
3580' - 3610' - DST #4

Oil Analysis: Nil

Water Analysis: Lab No. F73-192-3 - February 14, 1973
4245' - 4390' - DST #2
Lab No. F73-193-3 - February 17, 1973
3580' - 3610' - DST #4

Mud Filtrate Analysis: File No. 933-3243 - February 7, 1973
3881' - 3991' - DST #1

6. COMPLETION SUMMARYTubing Record:

Nil.

Perforation Record:

Nil.

Cementation Record:

See Section 3 - Abandonment Plugs.

Acidization and Fracturing Record:

Nil.

Back Pressure and Production Tests:

Nil.

7. DAILY DRILLING SUMMARY

<u>Date - 1973</u>	<u>Depth</u>	<u>Footage</u>	<u>Remarks</u>
January 29	614'	614	Reaming 7-7/8" hole to 12-1/4". Spudded 2:30 pm, January 28, 1973.

7. DAILY DRILLING SUMMARY CONTINUED

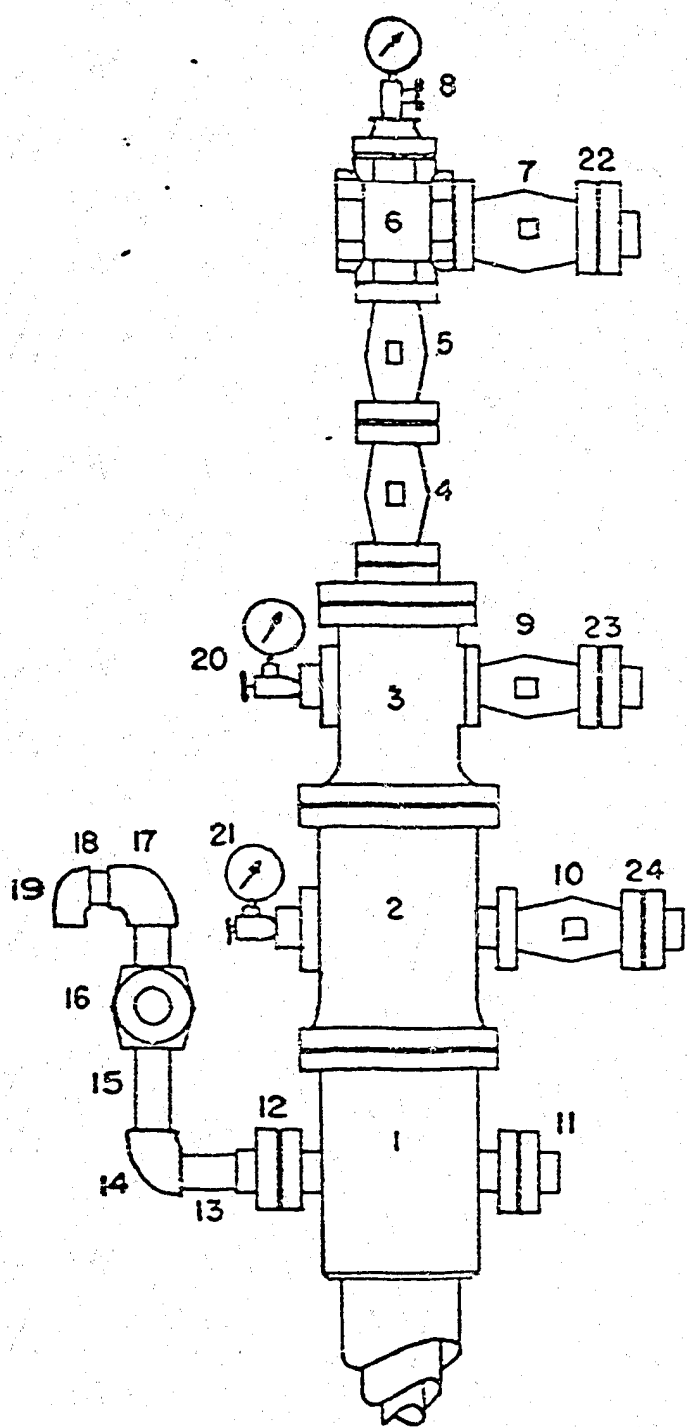
<u>Date - 1973</u>	<u>Depth</u>	<u>Footage</u>	<u>Remarks</u>
January 30	614'	64'	Waiting on cement. Ran 13 joints, 8-5/8" set at 541' K.B. C-325.
January 31	1205'	591'	Drilling.
February 1	2124'	919'	Drilling.
February 2	2698'	674'	Drilling. Devonian 482' (+820), Ireton 1595' (-295').
February 3	3200'	502'	Drilling. Muskwa 3465' (-2163').
February 4	3696'	496'	Drilling. Slave Point 3578' (-2276').
February 5	3791'	98'	Drilling.
February 6	3900'	109'	Drilling.
February 7	3991'	91'	Tripping in for DST #1 3880-3991' (Elk Point).
February 8	4034'	43'	Drilling. DST #1 3880-3991' (Elk Point). 5/60/60/90. Fair air blow to weak air blow on preflow, on valve open, fair air blow steady to end of test. Recovered 150' gassified drilling mud, 500' gassified dark watery sulphurous mud. Salinity of bottom sample 33,500 ppm NaCl. HP 2040-2040, FP 164-185, SIP 1595-1595. BHT 109°F.
February 9	4184'	150'	Drilling.
February 10	4335'	151'	Drilling.
February 11	4395' T.D.	60'	Work stuck pipe.
February 12			Work stuck pipe.
February 13			Logging.
February 14			Waiting on orders. DST #2 4245-4395' (Chinchaga). 3/60/60/90. Fair air blow on preflow dying out, on valve open, weak air blow decreasing. Recovered 140' drilling mud, 100' watery mud (sal. of top, middle and bottom 0). HP 2146-2146, FP 119-119, SIP 1714-1654. BHT 111°F.

7. DAILY DRILLING SUMMARY CONTINUED

<u>Date - 1973</u>	<u>Depth</u>	<u>Footage</u>	<u>Remarks</u>
February 15	4395' T.D.		Condition mud and hole to run DST #3.
February 16			Circulate and condition hole. Ran in for DST #3, 3580-3618'. Could not get to bottom.
February 17			Heading up for DST #4.
February 18			Waiting on cement Plug #2. DST #4 3580-3610' (Slave Point). 5/60/60/60, 2nd valve open 90, 2nd FSI 90". Good air blow, gas to surface in 4 mins. on preflow, on valve open reading 552 Mcf/d. decreasing to nil in 60 mins. Checksan froze off - re-opened tool for another 90" and FSI 90". On 2nd valve open mud spray to surface in 5 mins. Flow rate stabilized at 1.7 MMcf/d. This occurred after valve open for 50". Flow had medium spray water. Recovered 324' muddy salt water - Top 28,600 ppm NaCl, Middle 37,500 ppm NaCl, Bottom 46,400 ppm NaCl. HP 1836-1836, IPFP 312-312, FP 312-325, SIP 1538-1538. Shut ins levelled immediately.
February 19	3700' PBTD		Unload 4-1/2" casing. Plug #1 4200-4395', C-80. Plug #2 3700-4000', C-130, felt #2 at 3600' drilled cement to 3700'.
February 20			Tearing out rig. Slave Point Gaswell. Ran 116 joints 4-1/2" set at 3700', C-430. Rig released 12:00 midnight, February 19, 1973.

WELL PACIFIC TATHALINA N-18

Well Head Details



- 1 CAMERON 10" 900 SER x 8 5/8"
w/ 2 - 2" LP SCREENED OUTLETS
- 2 10" x 6" 900 CAMERON TUBG HANGER
- 3 6" x 2" 900 SER ADAPTER FLANGE
- 4 2" SER 900 CAMERON TYPE F
FO. VALVE
- 5 2" SER 900 CAMERON TYPE F
FO GATE VALVE
- 6 CAMERON FLOW T. 2" SER 900
- 7 2" SER 900 CAMERON TYPE
F. GATE VALVE
- 8 MARSH NEEDLE VALVE & GAUGE.
- 9 2" 900 SER CAMERON TYPE F
GATE VALVE.
- 10 -
- 11 2" x H Bull Plug.
- 12
- 13 2" x 8" x H NIPPLE
- 14 2" NH 2000" GATE VALVE
- 15
- 16
- 17
- 18
- 19
- 20 MARSH NEEDLE VALVE & GAUGE
- 21
- 22 2" 900 SER x 2" LP COMP
IFLANGE.
- 23 2" 900 SER x 2" LP COMP. FLOW
- 24

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

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Fort St. John

Calgary

GAS ANALYSIS REPORT Lab. No E73-2991 Received: Feb. 22, 1973 Reported: Mar. 2, 1973

Well: PACIFIC Amoco Tathlina N-18 Operator: PACIFIC PETROLEUMS LTD.

Field or Area: Location: Elev.: K.B. Grd.

Zone and Formation: Slave Point Sample Interval: 3580' - 3610'

Well production at sampling time: Oil bpd; Gas MCFD; Water bpd.

Sampled from: Sampled by: Date: Feb. 19 1973

Pressure: (a) at point of sampling 21 psig (b) Gas Bomb pressure psig

Temperature: (a) at point of sampling °F (b) Separator °F

Pressures: Reservoir Tubing Casing Separator

OTHER PERTINENT DATA Sampled at 11:00 A.M. Method of Production: D.S.T. #4. Container number: LC-39.

				(Signed)				
COMPOSITION	% by Volume	G.P.M. in Imp. Gal. @ 60°F. & 14.65 PSIA	G.P.M. (Calculated)		SPECIFIC GRAVITY			
Helium	0.10		Pentanes +	0.094	Calculated	0.616		
Hydrogen sulfide	0.		at 12 lbs.	0.	by Weight	.615		
Carbon dioxide	2.32		at 15 lbs.	0.098	CRITICALS (Calculated)			
Nitrogen	2.01		at 22 lbs.	0.114	Pc	677.1		
Methane	91.59		at 26 lbs.	0.126	Tc	355.2		
Ethane	2.43		VAPOR PRESSURE (Calc.) @ 100°F. Pentanes +			12.90		
Propane	0.87	0.198	H ₂ S Grains per 100 cu. ft. @ 60°F. & 14.65 p.s.i.a.			0.		
Isobutane	0.12	0.033	GROSS B.T.U. (Calc.) @ 60°F. & 14.65 p.s.i.a. (dry)			1012.2		
N-butane	0.27	0.071				(sat.)	994.5	
Isopentane	0.09	0.027				Acid Gas Free (dry)	1035.2	
N-pentane	0.09	0.027	DEW POINT (Calc.) p.s.i.		950	1050	1200	
Hexanes	0.07	0.025	FAH.		1	1	7	
Heptanes	0.03	0.011	Mol. Wt.: Total Gas		17.852	Heptanes +		100.577
Octanes	0.01	0.004	Received at a pressure of 35 psig. Prior to analysis sample was heated to 160°F.					
Nonanes	0.	0.						
Decanes +	0.	0.						
TOTAL	100.00	0.395						

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. F73-192-3

Received Feb. 21, 1973 Reported Feb. 26, 1973

Well: Location:

Pacific Amoco Tathlina N-18

60° 17' 46"N

Operator: PACIFIC PETROLEUMS LTD.

Field or Area:

118° 03' 00"W

Elev.: K.B. 1313' Grd. Zone/Formation:

Sample Interval: 4245' - 4390'

Method of Production:

D.S.T. #2

Sampled from:

Top of tool

Sampled by: Lynes United

Date: Feb. 14,

Services Ltd.

1973

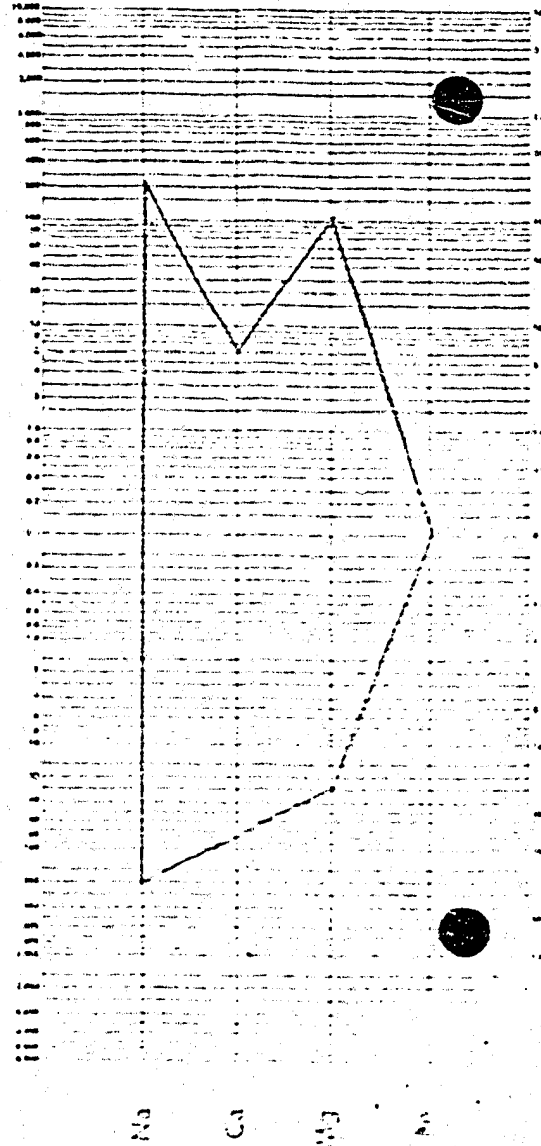
OTHER PERTINENT DATA Recovered 240'.

(Signed)

	Na	K	Ca	Mg	SO ₄	Cl	CO ₃	HCO ₃	Oil
Mg/L	5,169		1,662	401	4,836	8,309	0	370	0
Meq/L	224.93		82.93	32.96	100.59	234.06	---	6.07	---
Eq. %	32.99		12.17	4.84	14.76	34.35	---	0.89	---

Total Solids Mg/L: By Evaporation 22,420 Fe PRESENT Specific Gravity 1.017 @60°F Observed pH 7.7 @72 °F
 Calculated 20,738 After Ignition 13,670 H₂S NIL Refractive Index 1.3359 @25°C Resistivity 0.379 ohm meters @68 °F

Pattern Unit Meq/L



Remarks and Conclusions Analysis determined on Yellow coloured water extracted from mud. Organic matter detected in total solids.

F73-192-1: D.S.T. #2 Sampled from Top

CHLORIDE CONTENT: 4,200 mg/L

RESISTIVITY: 0.529 Ohm-Meters @ 68°F

Analysis determined on yellow coloured water extracted from mud.

F73-192-2: D.S.T. #2 Sampled from Middle

CHLORIDE CONTENT: 2,250 mg/L

RESISTIVITY: 0.726 Ohm-Meters @ 68°F

Analysis determined on Yellow coloured water extracted from mud.

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. F73-193-3

Received Feb. 21, 1973 Reported: Feb. 26, 1973

Well: Location: Pacific Amoco Tathlina N-18

60° 17' 46"N
118° 03' 00"W

Operator: PACIFIC PETROLEUMS LTD.

Field or Area:

Loc.: K.B. 1313' Grd.

Zone/formation: Slave Point

Sample Interval: 3580' - 3610'

Method of Production: D.S.T. #4

Sampled from:

Top of tool

Sampled by: Lynes United
Services Ltd.

Date: Feb. 17,
1973

OTHER PERTINENT DATA

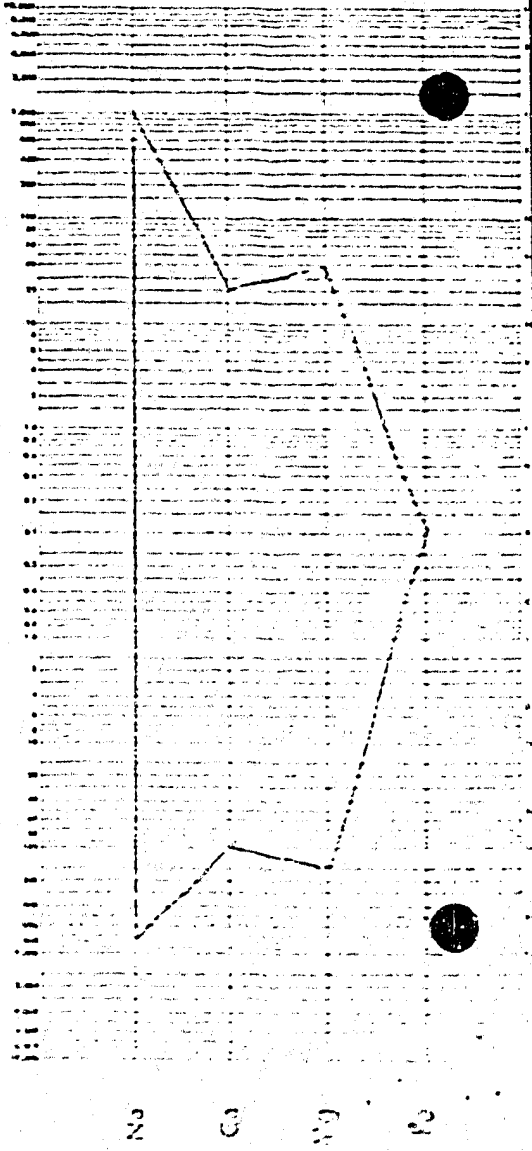
Recovered 324'.

(Signed)

Na & K	K	Ca	Mg	SO ₄	Cl	CO ₃	HCO ₃	OH
17365		1,962	1,823	1,768	33,500	0	1,320	0
755.16		97.91	149.85	36.77	944.70	---	21.65	---
37.65		4.83	7.47	1.83	47.09	---	1.08	---

Total Solids Mg/L By Evaporation 62,480 Fe PRESENT Specific Gravity 1.041 @60°F Observed pH 7.1 @ 72 °F
Calculated 57,738 After Ignition 51,460 H₂S PRESENT Refractive Index 1.3425 @25°C Resistivity 0.141 ohm meters @ 63 °F

Pattern Unit Meq/L



Remarks and Conclusions Sample as received consisted of yellow-green coloured water with a layer of sediment. A hydrocarbon scum was present on top. Organic matter detected in total solids.
F73-193-1: D.S.T. #4 Sampled 324' above Tool
CHLORIDE CONTENT: 26,000 mg/L
RESISTIVITY: 0.173 Ohm-Meters @ 68°F
Sample as received consisted of yellow-green coloured water with a layer of sediment. A hydrocarbon scum was present on Top.
F73-193-2: D.S.T. #4 Sampled from Middle
CHLORIDE CONTENT: 26,000 mg/L
RESISTIVITY: 0.173 Ohm-Meters @ 68°F
Sample as received consisted of yellow-green coloured water with a layer of sediment. A hydrocarbon scum was present on top.



CORE LABORATORIES — CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING



Company Pacific Petroleum Ltd. Page 1 of 1
Well Pacific Amoco Tathlina N-18 File 933-3243
Field Tathlina Lake Analyst G. Anderson
Location 60 17'46.00 N.L.
118 03'00.00 W.L. Elevation: K.B. _____ Grd. 1290'
Formation Elkpoint Depth 3881' - 3991'
Sampled from See below by _____
Sampling pressure _____ psig Sampling temp. _____ °F Ambient temp. _____ °F
Date sampled Feb. 7/73 Date received Feb. 9/73 Date analysed Feb. 14/73
Container pressure _____ Mud _____ Water cushion _____
Recovery or flowrate: _____

Mud Filtrate Analyses

Sampled From	Resistivity (Ohm-meters)	Chloride (mg/liter)
Mud Tank	1.69 @ 62°F	527
*DST #1 (Top of Tool)	0.176 @ 64°F	25,963

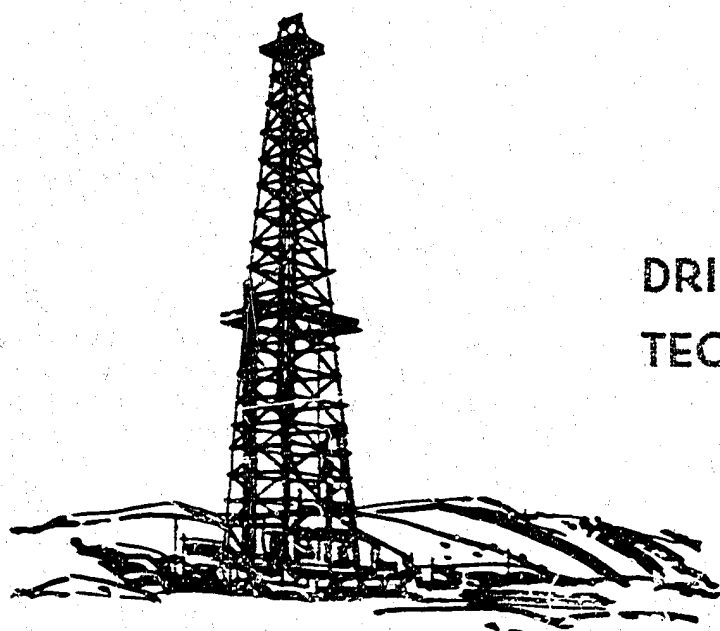
Recovered 650 gasified, salty, watery, sulphurous mud (37,500ppm salt.)



LYNES

BRIGHT NAME IN THE OIL PATCH

Inflatable and Conventional Packer Tools



DRILL STEM TEST
TECHNICAL SERVICE REPORT

- Q = average production rate during test, bbls./day
- Q_g = measured gas production rate during test, MCF/day
- k = permeability, md
- h = net pay thickness, ft. (when unknown, test interval is chosen)
- μ = fluid viscosity, centipoise
- Z = compressibility factor
- T_i = reservoir temperature, ° Rankine
- m = slope of final SIF buildup plot, psig/cycle (psig²/cycle for gas)
- b = approximate radius of investigation, feet
- r_w = wellbore radius, feet
- t_o = total flowing time, minutes
- P_o = Extrapolated maximum reservoir pressure, psig
- P_r = final flowing pressure, psig
- P.I. = productivity index, bbls./day/psi
- P.I._u = theoretical productivity index with damage removed, bbl./day/psi
- D.R. = damage ratio
- E.D.R. = estimated damage ratio
- AOF = absolute open flow potential, MCF/D
- AOF_u = theoretical absolute open flow if damage were removed
- Z = subsea depth
- W = water gradient based on salinity
- H_u = potentiometric surface

INTERPRETATION CALCULATIONS (OIL/WATER)			
AVERAGE PRODUCTION RATE DURING TEST			
Q	$= \frac{\text{HAG (DRL) CAPACITY} \times \text{THICKNESS} \times \text{DRL (DRL) CORRECTION}}{\text{DRL (DRL) CORRECTION} \times \text{DRL (DRL) CORRECTION}}$ $= \frac{1440 \left[\frac{1}{1} \right] \left[\frac{1}{1} \right] \left[\frac{1}{1} \right] \left[\frac{1}{1} \right] \left[\frac{1}{1} \right]}{1}$		
=	1440 (0.145) (0.073)	1	M.S. Expansion = — (DRL (DRL) CORRECTION) is Considered
=	bbl./day		
FLUID PROPERTIES		Estimated Bottom Hole Temperature	
API Gravity @ 60° F.	Specific Gravity @ 60° F.	Est. Viscosity	cp
TRANSMISSIBILITY			
$\frac{k_h}{\mu}$	$= \frac{142.80}{1} = \frac{142.80}{1}$	md./cp	
IN SITU CAPACITY			
Q_h	$= \frac{1}{1} \left[\frac{1}{1} \right] \left[\frac{1}{1} \right] =$	md./cp	
AVERAGE EFFECTIVE PERMEABILITY		Estimated Pay Thickness	
k	$= \frac{1}{1} \left[\frac{1}{1} \right] \left[\frac{1}{1} \right] =$	Actual Pay Thickness	ft.
PRODUCTIVITY INDEX			
PI	$= \frac{Q}{P_1 - P_2} = \frac{1}{1 - 1} =$	bbl./day/psi	
DAMAGE RATIO			
D.R.	$= \frac{0.18 \left(\frac{P_1 - P_2}{P_1 - P_2} \right)}{1} = \frac{0.18 \left(\frac{1}{1} \right)}{1} =$		
PRODUCTIVITY INDEX WITH DAMAGE REMOVED			
PI ₁	$= PI \times D.R. = \left[\frac{1}{1} \right] \left[\frac{1}{1} \right] =$	bbl./day/psi	
APPROXIMATE RADIUS OF INVESTIGATION			
b = V.R.	$= \sqrt{\frac{1}{1} \left[\frac{1}{1} \right] \left[\frac{1}{1} \right]} =$	ft.	
Drawdown Factor = $\frac{1.36 P_1 - F.S.I.P.}{1.36} = 100 = \left[\frac{1}{1} \right] \left[\frac{1}{1} \right] \times 100 =$			
$\left(\frac{4\% \text{ to } 5\%}{1} \right)$ considered serious or substantial			
Piezometric Surface = $H_0 = Z + \frac{P_0}{\gamma} =$ $= \left[\frac{1}{1} \right] \left[\frac{1}{1} \right] + \left[\frac{1}{1} \right] =$			

INTERPRETATION CALCULATIONS (GAS)			
ESTIMATED GAS PROPERTIES		Estimated Bottom Hole Temperature	
Gravity @ 60° F	Viscosity (cP)	cp	Compressibility Factor (Z)
TRANSMISSIBILITY		Measured D.S.T. Gas Rate = mcf/d.	
$\frac{kh}{\mu} = \frac{1627 Q_g Z_i}{m}$	$\frac{1627 \cdot 1}{\mu} \cdot \frac{1}{m} =$		$\frac{\text{md-ft}}{\text{cp}}$
IN SITU CAPACITY			
$kh =$		md-ft.	
AVERAGE EFFECTIVE PERMEABILITY		Estimated Pay Thickness Actual Pay Thickness	
$k =$		md. ft.	
APPROXIMATE RADIUS OF INVESTIGATION			
$r = 0.02 \sqrt{\frac{k h}{\mu q_p}} = 0.02 \sqrt{\frac{1627 \cdot 1}{\mu \cdot 1000}} =$		ft.	
ACTUAL CAPACITY			
$q = \frac{3270 Q_{gr} Z_i T_i \ln(2.472 \frac{b}{r \cdot r_w})}{P_i (P_i - P_w)}$		$\frac{3270 \cdot 1 \cdot 1 \cdot 1 \cdot \ln(2.472 \frac{b}{r \cdot 1})}{1 \cdot (1 - 0)} =$	
DAMAGE RATIO		E.D.R. = $\frac{(P_i - P_w)}{(\mu q_p \cdot 2.86)}$	
D.R. = $\frac{\ln \text{Skin Capacity}}{\text{Actual Capacity}} =$		E.D.R. =	
ESTIMATED RANGE OF AOF POTENTIAL			
Max. AOF = $\frac{Q_{gr} P_i}{P_i - P_w} \cdot \frac{1}{V} =$		MCF/D	
Min. AOF = $\frac{Q_{gr} P_i}{V(P_i - P_w)} =$		MCF/D	
ESTIMATED RANGE OF AOF POTENTIAL DAMAGE REMOVED			
Max. AOF ₁ = (Max. AOF) (D.R.) =		MCF/D	
Min. AOF ₁ = (Min. AOF) (D.R.) =		MCF/D	
Destruction Factor = $\frac{FSP - FSP_1}{FSP} \cdot 100 =$		% 4% to 5% is considered serious or waterflood	
Potential Surface = $H_w + Z \cdot \frac{P_i}{W} \cdot H_w =$			

LYNES UNITED SERVICES LTD.

WELL NAME - PACIFIC AMOCO TATHLINA

LOCATION - N-16

DST NUMBER - 3

INTERVAL TESTED - 3580 TO 3610

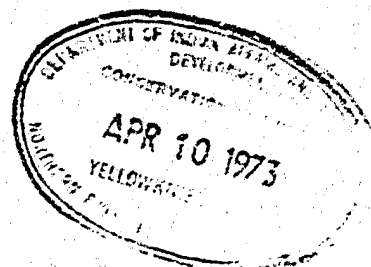
RECORDER NO. - 8887

DEPTH - 3586

INITIAL SHUT IN PRESSURE

TIME(MIN) ϕ	$\frac{T + \phi}{\phi}$	PSIG	PSIG ² /10 ⁶
0	0.0000	294	0.0004
5	2.0000	1539	2.3509
10	1.5000	1539	2.3685
15	1.3333	1539	2.3685
20	1.2500	1539	2.3685
25	1.2000	1539	2.3685
30	1.1667	1539	2.3685
35	1.1429	1539	2.3685
40	1.1250	1539	2.3685
45	1.1111	1539	2.3685
50	1.1000	1539	2.3685
55	1.0909	1539	2.3685
60	1.0833	1539	2.3685

EXTRAPOLATION OF INITIAL SHUT-IN = 1539.15



LYNES UNITED SERVICES LTD.

WELL NAME - PACIFIC AMOCO TATHLINA

LOCATION - N-18

DST NUMBER - 3

INTERVAL TESTED - 3580 TO 3610

RECORDER NO. - 6667

DEPTH - 3586

SECOND SHUT IN PRESSURE

TIME(MIN) Ø	$\frac{T + \phi}{\phi}$	PSIG	PSIG ² /10 ⁶
0	0.0000	1277	1.6307
5	14.0000	1521	2.3134
10	7.5000	1525	2.3256
15	5.3333	1527	2.3317
20	4.2500	1528	2.3348
25	3.6000	1529	2.3378
30	3.1667	1530	2.3409
35	2.8571	1530	2.3409
40	2.6250	1530	2.3409
45	2.4444	1530	2.3409
50	2.3000	1530	2.3409
55	2.1818	1530	2.3409
60	2.0833	1530	2.3409

EXTRAPOLATION OF SECOND SHUT-IN = 1530.00

LYNES UNITED SERVICES LTD.

WELL NAME - PACIFIC AMOCO TATHLINA

LOCATION - N-18

DST NUMBER - 3

INTERVAL TESTED - 3580 TO 3610

RECORDER NO. - 8887

DEPTH - 3586

CALCULATIONS SECOND SHUT-IN

EXTRAPOLATED RESERVOIR PRESSURE (PSIG)	1530.4
NO. OF POINTS CONSIDERED IN EXTRAPOLATION	12
NO. OF POINTS USED IN EXTRAPOLATION	8
ROOT MEAN SQUARE DEVIATION OF BEST FIT LINE (PSI) .	0.00
TOTAL FLOW TIME (MIN)	65
TRANSMISSIBILITY (MD-FT/CP)	361999.
IN SITU CAPACITY (MD-FT)	5791.98
AVERAGE EFFECTIVE PERMEABILITY (MD)	193.066
RADIUS OF INVESTIGATION (FT)	87.648
ACTUAL CAPACITY (MD-FT)	132.417
DAMAGE RATIO	43.7404
ESTIMATED DAMAGE RATIO	41.1291
MAXIMUM AOF (MCF/D)	5893.10
MINIMUM AOF (MCF/D)	3247.89
MAXIMUM AOF DAMAGE REMOVED (MCF/D)	25770.
MINIMUM AOF DAMAGE REMOVED (MCF/D)	142064.
DRAWDOWN FACTOR (%)	.568242
POTENTIOMETRIC SURFACE (FT)	1086.75

LYNES UNITED SERVICES LTD.

WELL NAME - PACIFIC AMOCO TATHLINA

LOCATION - N-18

DST NUMBER - 3

INTERVAL TESTED - 3580 TO 3610

RECORDER NO. - 8887

DEPTH - 3586

THIRD SHUT IN PRESSURE

TIME(MIN) 0	$\frac{T + \phi}{\phi}$	PSIG	PSIG ² /10 ⁶
0	0.0000	346	0.1197
10	16.5000	1512	2.2861
20	8.7500	1527	2.3317
30	6.1667	1520	2.3104
40	4.8750	1520	2.3104
50	4.1000	1522	2.3165
60	3.5833	1522	2.3165
70	3.2143	1522	2.3165
80	2.9375	1524	2.3226
90	2.7222	1524	2.3226

EQU. FITTED LINE IS $\log((T0+\phi)/\phi) = -45.33572 \text{ PSIG}^2/10^6 + 105.73060$

EXTRAPOLATION OF THIRD SHUT-IN = 1527.14 M= 22057.66

RESERVOIR PARAMETERS:

RESERVOIR TE=	570.000	BTTM HOLE TE=	110.000	SPEC GRAVITY=	0.660
VISCOSITY =	0.016	Z FACTOR =	0.840	DST GAS RATE=	1790.000
WELL RADIUS =	0.328	PAY THICKNES=	30.000	SURSEA DEPTH=	-2273.000
WATER GRADIE=	0.461				

LYNES UNITED SERVICES LTD.

WELL NAME - PACIFIC AMOCO TATHLINA

LOCATION - N-18

DST NUMBER - 3

INTERVAL TESTED - 3580 TO 3610

RECORDER NO. - 8827

DEPTH - 3586

CALCULATIONS THIRD SHUT-IN

EXTRAPOLATED RESERVOIR PRESSURE (PSIG)	1527.14
NO. OF POINTS CONSIDERED IN EXTRAPOLATION	9
NO. OF POINTS USED IN EXTRAPOLATION	8
ROOT MEAN SQUARE DEVIATION OF BEST FIT LINE (PSI) .	0.00
TOTAL FLOW TIME (MIN)	155
TRANSMISSIBILITY (MD-FT/CP)	62605.7
IN SITU CAPACITY (MD-FT)	1017.69
AVERAGE EFFECTIVE PERMEABILITY (MD)	33.923
RADIUS OF INVESTIGATION (FT)	56.6739
ACTUAL CAPACITY (MD-FT)	38.7404
DAMAGE RATIO	26.2695
ESTIMATED DAMAGE RATIO	20.7223
MAXIMUM AOF (MCF/D)	1886.86
MINIMUM AOF (MCF/D)	1837.79
MAXIMUM AOF DAMAGE REMOVED (MCF/D)	49566.9
MINIMUM AOF DAMAGE REMOVED (MCF/D)	48277.9
DRAWDOWN FACTOR (%)	.760032
POTENTIOMETRIC SURFACE (FT)	1039.66

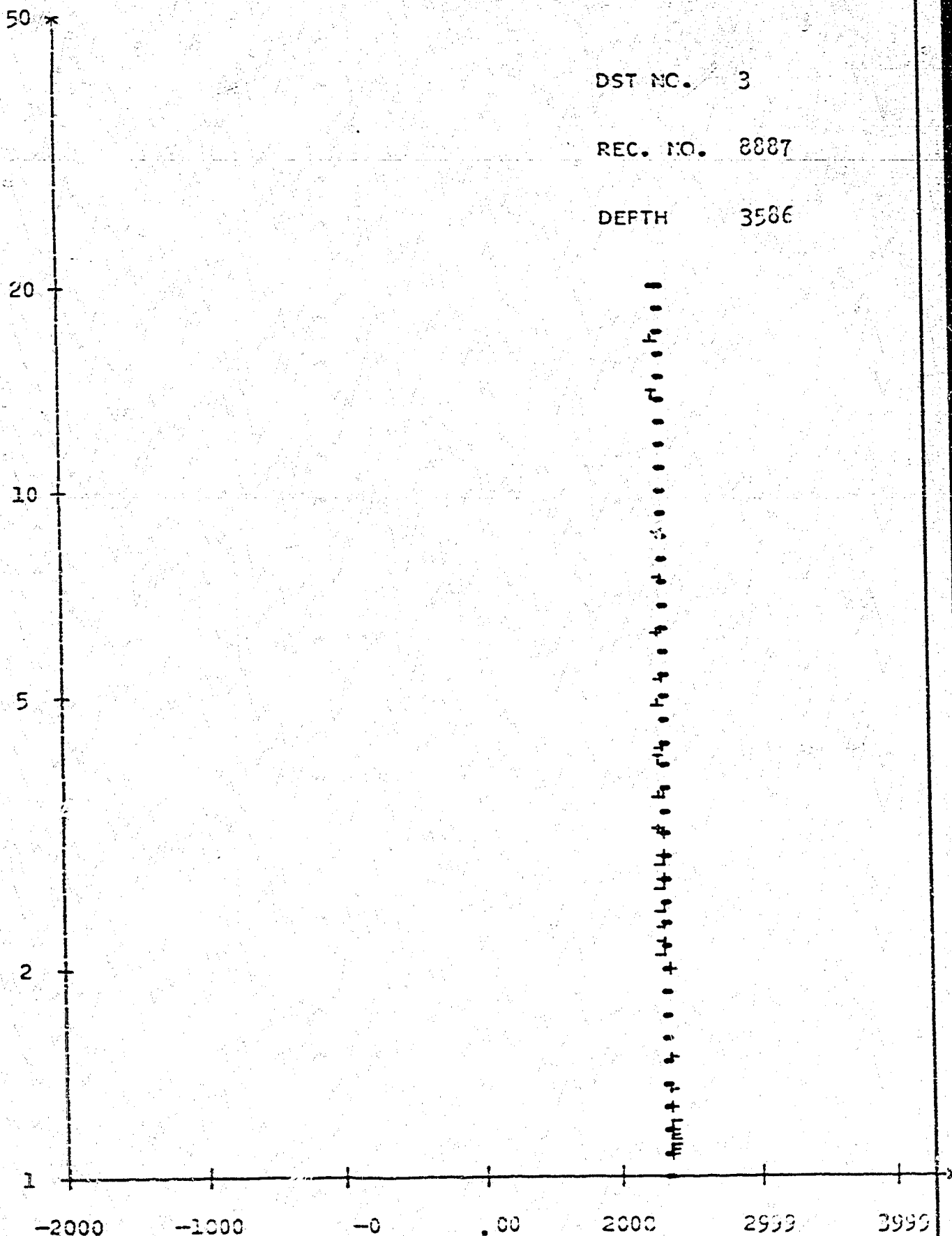
LYNES UNITED SERVICES LTD.

DST NO. 3

REC. NO. 8887

DEPTH 3586

$\frac{TO+\phi}{\phi}$



$PSIG^{**2}/10^{**}((GAS))$

PRESSURE EXTRAPOLATION PLOT

LYNES UNITED SERVICES LTD.

TEST DATA		Test No. 3		Lynes Test 1		GENERAL INFORMATION	
Formation	Slave Point		T.D.	4395 Ft.		Company	Pacific Petroleum Ltd.
Interval Tested	3580		Ft. to	3610		Address	Box 610,
Interval Tested	30		Ft. Net Pay Tested	30			Fort St. John, B.C.
Type of Test	Inflatable Straddle						
Cushion	-		Amount	Ft.		Well Name	Pacific Amoco Tathlina
Started in Hole at	0500		Hrs.	Tool Open at 09:20		Hrs.	Well Number N-18
Pre-Flow	5 Mins.		Initial Shut-in	60 Mins.		K.B. Elevation	1313 Sub-Sen Elevation
2nd Flow	60 Mins.		Second Shut-in	60 Mins.		Area	Tathlina Province N.W.T.
Final Flow	90 Mins.		Final Shut-in	90 Mins.		Company Rep.	R. Linton
Remarks:						Tester	W. Fischer
						Contractor	Kenting Petrolia Ria No. 9
Blows:	Good air blow on pre-flow. Gas to surface in 4 minutes.					Ticket No.	6496 Date Feb. 17th/73
						Service Reports To:	
						8 - above address	
GAS BLOW MEASUREMENTS							
Measured with orifice meter				MUD AND HOLE DATA			
				Mud Type Gel Chem			
				Weight 9.2 Viscosity 150 Water Loss 6			
				Filter Cake 2/32 Bottom Hole Temperature 91°			
				Drill Pipe Size 4 1/2" F.H. Weight 16.6			
				Drill Collars 4 1/2" H-90 I.D. 2 7/8" Feet Run 114			
				Main Hole or Casing Size 7 7/8"			
				Rathole or Liner Size No. of Feet			
				Bottom Hole Choke Size 1"			
				Surface Choke Size			
				Packer Rubber Size 6"x7"x72"			
				REMARKS			
				The tool was shut in after the second flow and the chiksans thawed out. Valve was opened at 12:30 P.M. Mud spray in 5 minutes; too wet to measure for 40 minutes.			
				Shut-in pressures suggest relatively high permeability within the interval tested.			
RECOVERY							
TOTAL FLUID RECOVERED 324 Ft. Consisting of:							
204 Ft. of muddy salt water							
120 Ft. of oil flecked muddy salt water							
Ft. of							
Ft. of							
Test was/was not Reverse Circulated							
Oil Recovery A.P.I. Water Specific Gravity							
Salinity							
PRESSURE READINGS							
Inside Outside X		Inside Outside X		Inside Outside X		Inside Outside	
Recorder No. 8884		Recorder No. 8887		Recorder No. 6643		Recorder No.	
Capacity 2900		Capacity 2900		Capacity 84 - 411		Capacity	
Depth 3586		Depth 3586		Depth 3586		Depth	
NUMBER KEY:							
1 - INITIAL HYDROSTATIC	1820		1826		91		
2 - PRE-FLOW	324		294				
3 - INITIAL SHUT-IN	1536		1539				
4a - 2nd INITIAL FLOW	278		249				
4b - 2nd FINAL FLOW	1284		1277				
4c - 2nd SHUT-IN	1530		1530				
5 - 3rd INITIAL FLOW	351		315				
6 - FINAL FLOW	392		346				
7 - FINAL SHUT-IN	1526		1524				
8 - FINAL HYDROSTATIC	1783		1784				

Pacific Petroleum Ltd.

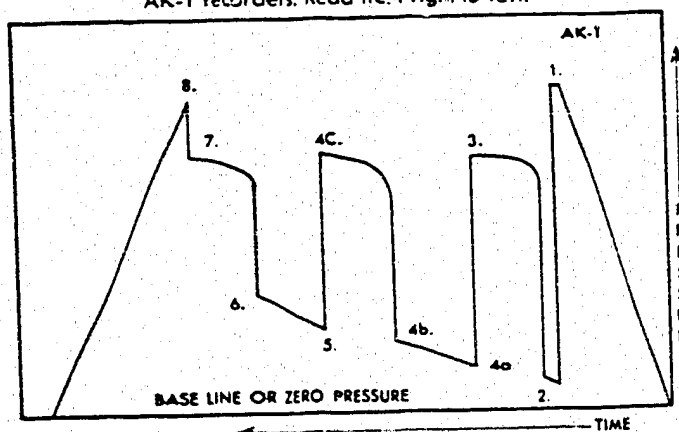
Pacific Amoco Tathlina N-18

Feb. 17th/73

GUIDE TO INTERPRETATION AND IDENTIFICATION OF LYNES DRILL STEM TEST PRESSURE CHARTS

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

AK-1 recorders. Read from right to left.

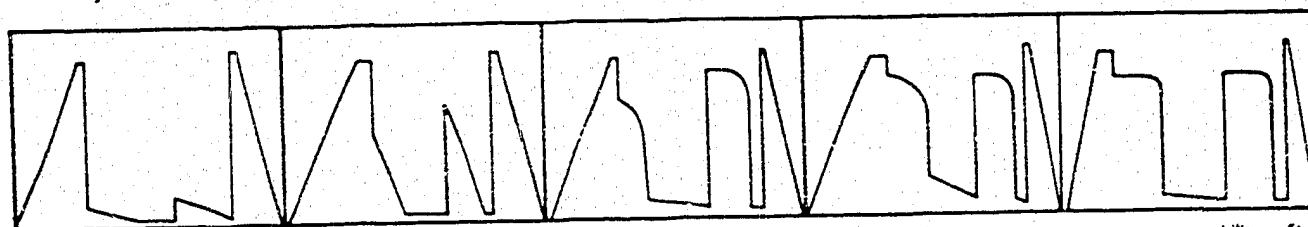


1. INITIAL HYDROSTATIC MUD PRESSURE
2. PRE-FLOW
3. INITIAL SHUT-IN
- 4a. 2nd INITIAL FLOW
- 4b. 2nd FINAL FLOW
- 4c. 2nd SHUT-IN
5. 3rd INITIAL FLOW
6. FINAL FLOW
7. FINAL SHUT-IN
8. FINAL HYDROSTATIC MUD PRESSURE

N.B. When only two shut-in and flow periods are run, 4a, 4b and 4c are omitted.

K-K-3 recorders. Read from left to right.

Typical charts for visual field analysis ranging from very low to high permeability.



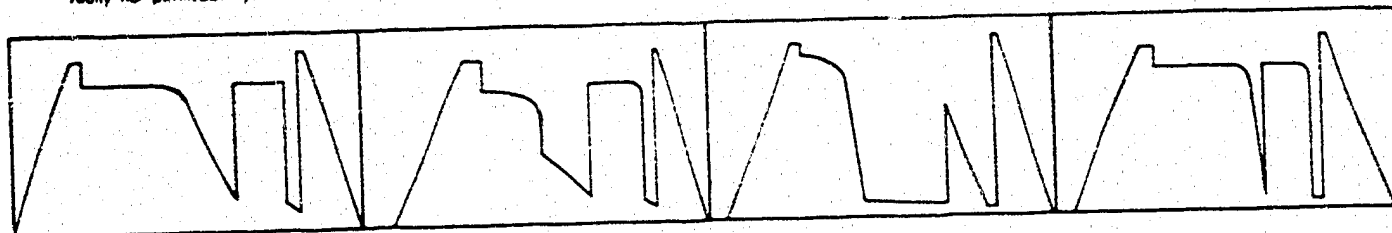
Very low permeability. Usually only mud recovered from interval tested. Virtually no permeability.

Slightly higher permeability. Again usually mud recovered.

Slightly higher permeability. Small recovery, less than 200 psi.

Average permeability. Final and initial shut-ins differ by 50 psi.

Average permeability. Strong damage effect. High shut-in pressure, low flow pressure.



Excellent permeability. where final flow final shut-in pressure.

High permeability where FSIP and ISIP are within 10 psi.

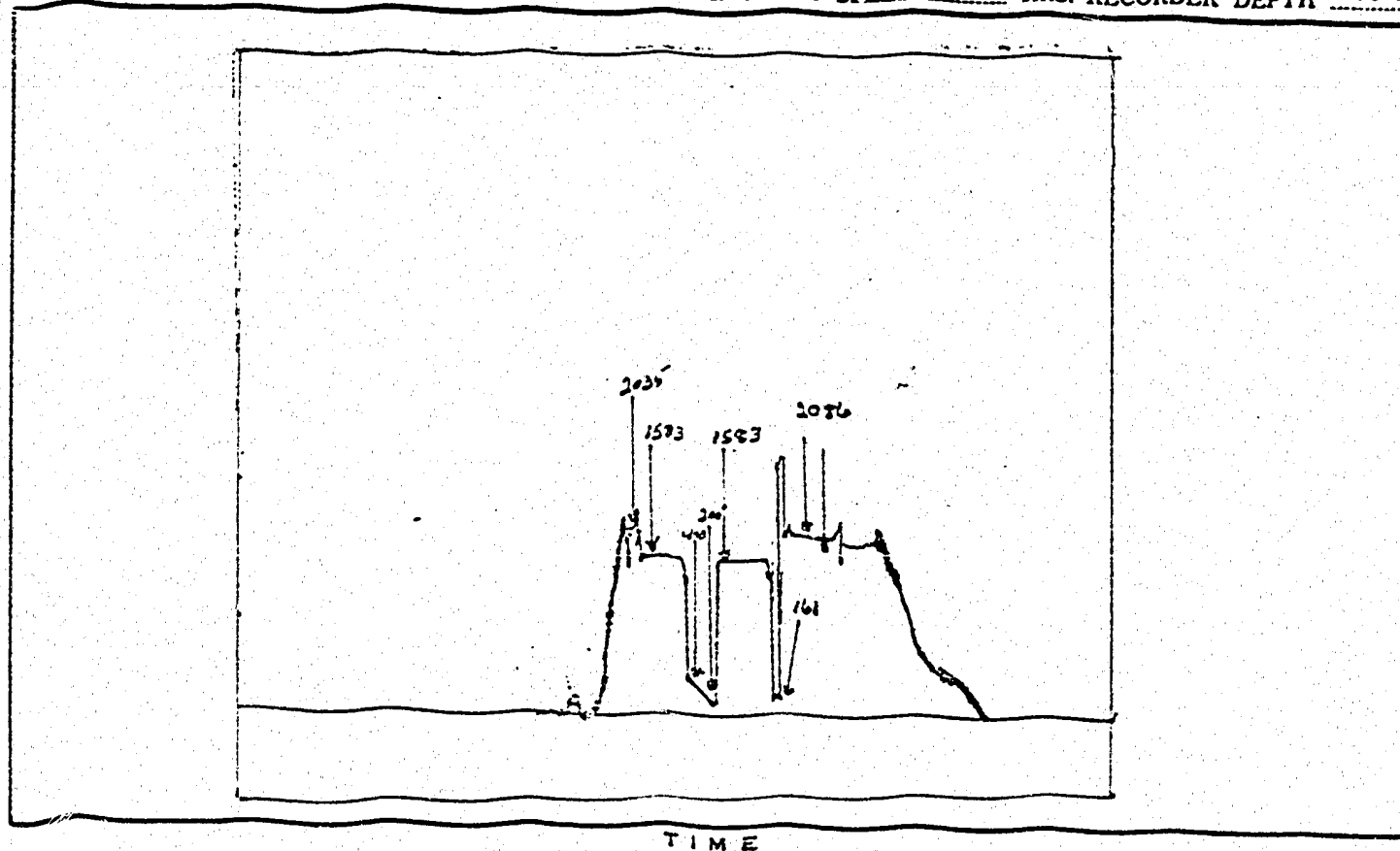
Deep well bore invasion or damage. Final shut-in higher than the initial shut-in.

Tight hole chamber tester. Permeability very difficult to interpret unless the recovery is less than chamber length. Flow pressure builds up rapidly if recovery is large, similar to a shut-in.

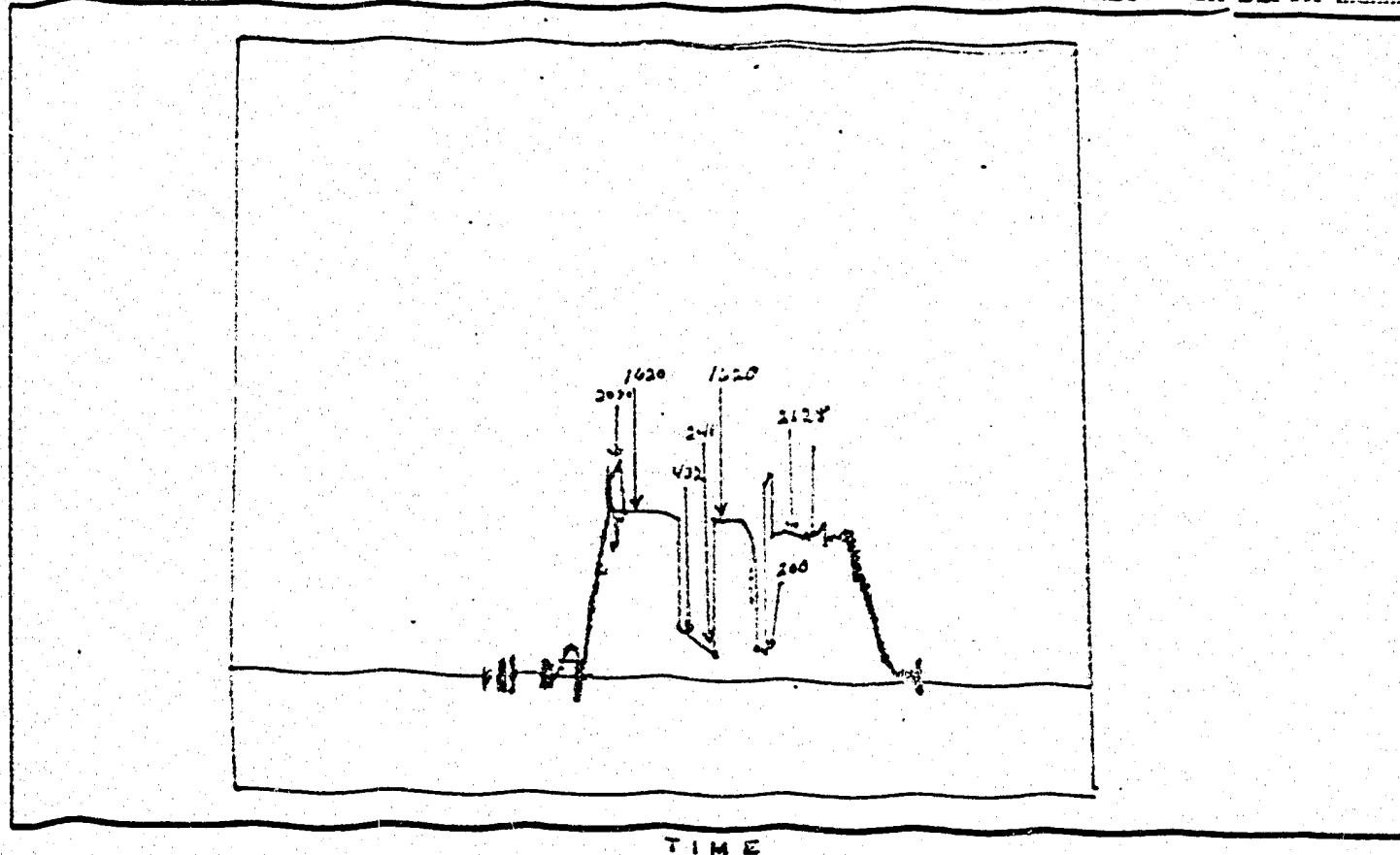
T.G. EASTLAND - testers Ltd.

TEST No. One
 Date Feb. 7/73
 Ticket No. 2310

WELL NAME Pac. Amoco Tathlina N-18
 RECORDER No. 3803 ELEMENT RANGE 5950# P.S.I. CHART SPEED 24 HRS. RECORDER DEPTH 3894'



RECORDER No. 3804 ELEMENT RANGE 5950# P.S.I. CHART SPEED 24 HRS. RECORDER DEPTH 3899'



Test No. Two

Date Feb. 13/73

Ticket No. _____

WELL NAME Pacific Amoco Tathlina X-18 ADDRESS Calgary, Alberta
AREA Bay River N.W.T. GRID 60-20-118-00 INVOICE TO Pacific Petroleum Ltd.
CONTR. & RIG No. Kenting #9 T/PUSH N. Tompkins CUSTOMER'S REPRESENTATIVE E. Packnoski

Date & Time Requested		DESCRIPTION OF BLOW DURING TEST	TOOL SEQUENCE & EQUIP. USED				
Call	Arr.		Tools	Length	O.D.		
Start in	18:45hrs	On Bott	22:30 hrs	Fair initial air blow on preflow, dying out	Critical Flow Prover		
Pull Loose	03:10 hr	Out Hole	06:25 hr	Weak air blow on main flow	Floor Manifold		

Zone Tested _____
Interval 4245 to 4395 T.D. 4395
Int. Casing: Size _____ wgt. _____ grade _____
Feet of Main Hole 4395 Diam. 7 7/8"
Feet of Rat Hole _____ Diam. _____
Type of Test Bottom Hole
Packers: No. 2 O.D. 7"
Type of Packers Conven.
Drill Pipe: Size - Thread 4 1/2 F.H.
Drill Collars: I.D. 2 7/8" O.D. 6 1/4"
No. Ft. Collars 117' D.P. _____

No. Feet Drill Pipe Above Table _____
 Ft. & Type Cushion _____
 Was Tool Chased YES No. Ft. 10'
 Weight Set on Packers 20M
 Did Fluid Drop NO No. Ft. _____
 Describe _____

Preset 37 min. Time Tool Opened 23:07
 Preflow 3 min. Init Shut-in 60 min.
 Flowed 30 min. Final Shut-in 90 min.
 Pull Loose 30M lbs. Swabbing? NO
 Drilling Fluid Type Gel-Chem
 Visc. 72 WRL 9 OWL 10 OFC2/32

DESCRIPTION OF BLOW DURING TEST
Fair initial air blow on
preflow, dying out
Weak air blow on main flow

Blow Measured with: Pitot Tube ☐ _____
Fluid Used: Water ☐ Mercury ☐ Side Static ☐
Flow Prover ☐ Gauge ☐ Size Gauge _____ lbs.

Time	Choke	Reading	MCF/Day
------	-------	---------	---------

[illegible]

FLUID RECOVERY
(In Feet)

Pipe 123 Collars 117 Total 240
Mud X Oil Water
Describe Fluids: 140' mud 100'
slightly watery mud.

Sampler Drained: On Location ☐ Laboratory ☐
 Sampler Press. _____ lbs
 Bottom Hole Temp. 111 °F
 Salinity of Recovery 0 P.P.M.
 Salinity of Mud Filtrate _____ P.P.M.

TOOL SEQUENCE & EQUIP. USED

Tools	Length	O.D.
Critical Flow Prover		
Floor Manifold		
Meter Run		
Remote Control Head		
Pump Out Sub	1.00	4 3/4"
Cross Over Subs	1.70	6 1/4"
Tight Hole Tool		
Dry Collar Valve		
Cross Over Sub	.55	5 1/2"
Test Assembly	8.10	4 3/4"
Sampler E.V.	2.42	4 3/4"
Jars	6.55	5 3/8"
Straddle By-pass		
Safety Joint	1.76	4 3/4"
Packer	5.74	7"
Packer	3.00	
TOTAL	30.82	30.82
T.C.	2.40	5 3/4"
Perfs	12.00	4 3/4"
Recorders	9.00	4 3/4"
Perfs	2.00	4 3/4"
Sub.	.85	5 3/4"
D.P.	120.89	4 1/2"
Sub.	.85	5 3/4"
Perfs & B.N.	1.50	4 3/4"
TOTAL	149.49	149.49
TOTAL PICKED UP	180.31	

TOTAL	149.29	149.49
VED UP	180.31	

Pressure Element: No.	3803	3804
Element Capacity (psig)	5950	5950
Clock Speed (Hrs)	24	24
Depth of Bellows	4260	4267
Position (Inside - Outside)	IN	OUT
Initial Hydrostatic	2140.30	2179.64
Preload Pressure	134.33	173.13
Initial Shut-In	1729.17	1770.15
First Flow Choke Size $1/2"$	140.30	176.12
Second Shut-In		
Second Flow Choke Size $1/2"$	152.24	185.07
Final Shut-In	1660.71	1698.51
Final Hydrostatic	2137.31	2173.65

TOTAL PICKED UP

1. Cross-over sub to bottom of top rubbers 30.82
2. Bottom of top rubbers to top of lower
3. Top of lower to bottom of lower rubbers
4. Bottom of lower rubbers to Total Depth
5. Bottom of top rubbers to Total Depth 149.49
(Delete measurement No. 5 if Straddle)
(Delete No. 2 - 3 - 4 if Std. bottom hole)
Total amount of customer's anchor 120.89
No. of Damaged Rubbers and Sizes 1 x 7"
No. Samplers Retained No. of Reports Required 5
Mileage: Highway Bush Total
Waiting Time Feb. 8, 9, 10, 11, 12 =
5 days.

REMARKS: ~~Chased packer 3' on preflow, packer slid 2' on initial shut-in period~~

APPROVED BY E. Packnoski TEST WAS: Successful / ~~XXXXXX~~ OUR OPERATOR K.G. Larson

T.C. EASTLAND - testers ltd.

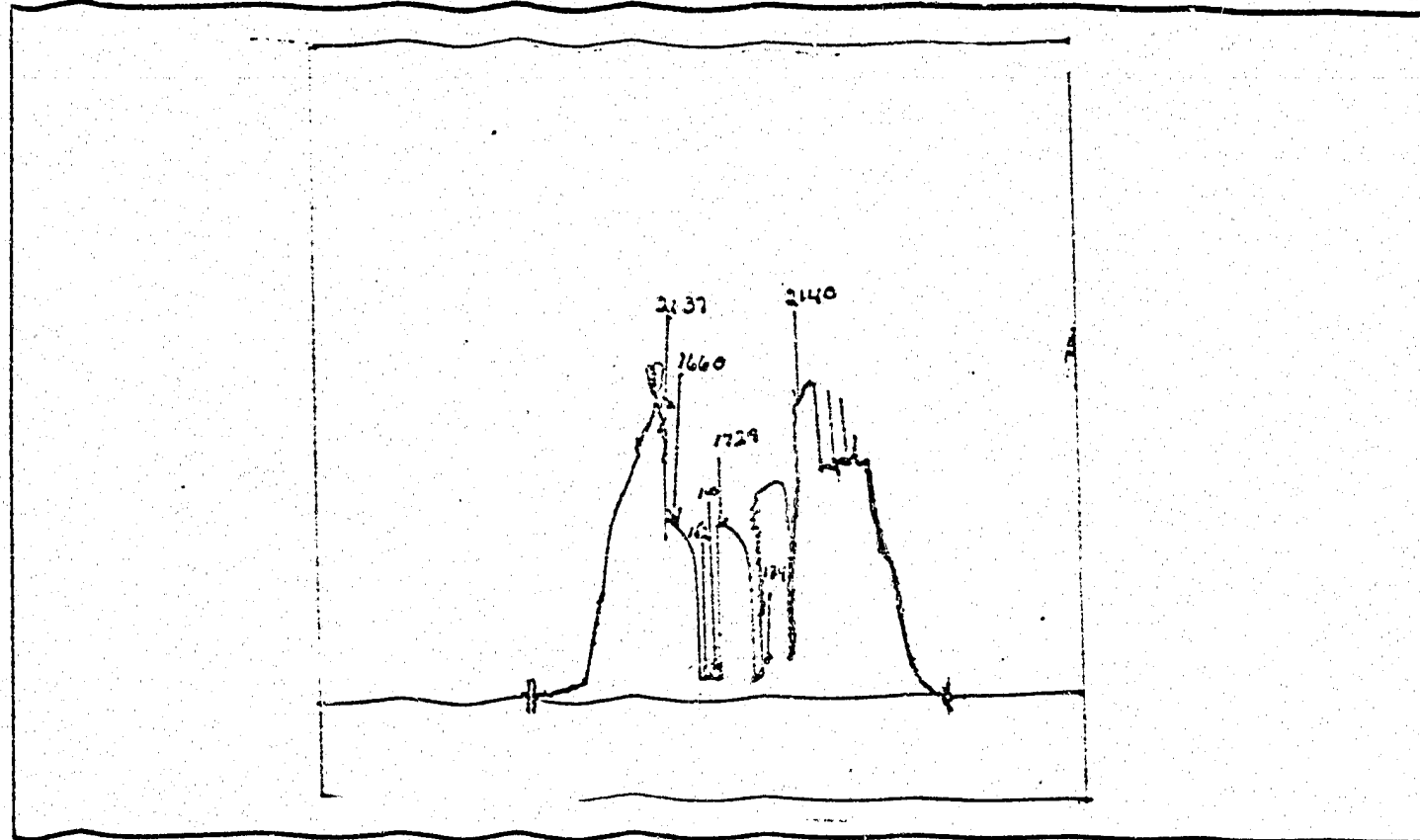
TEST No. TWO

Date Feb. 13/73

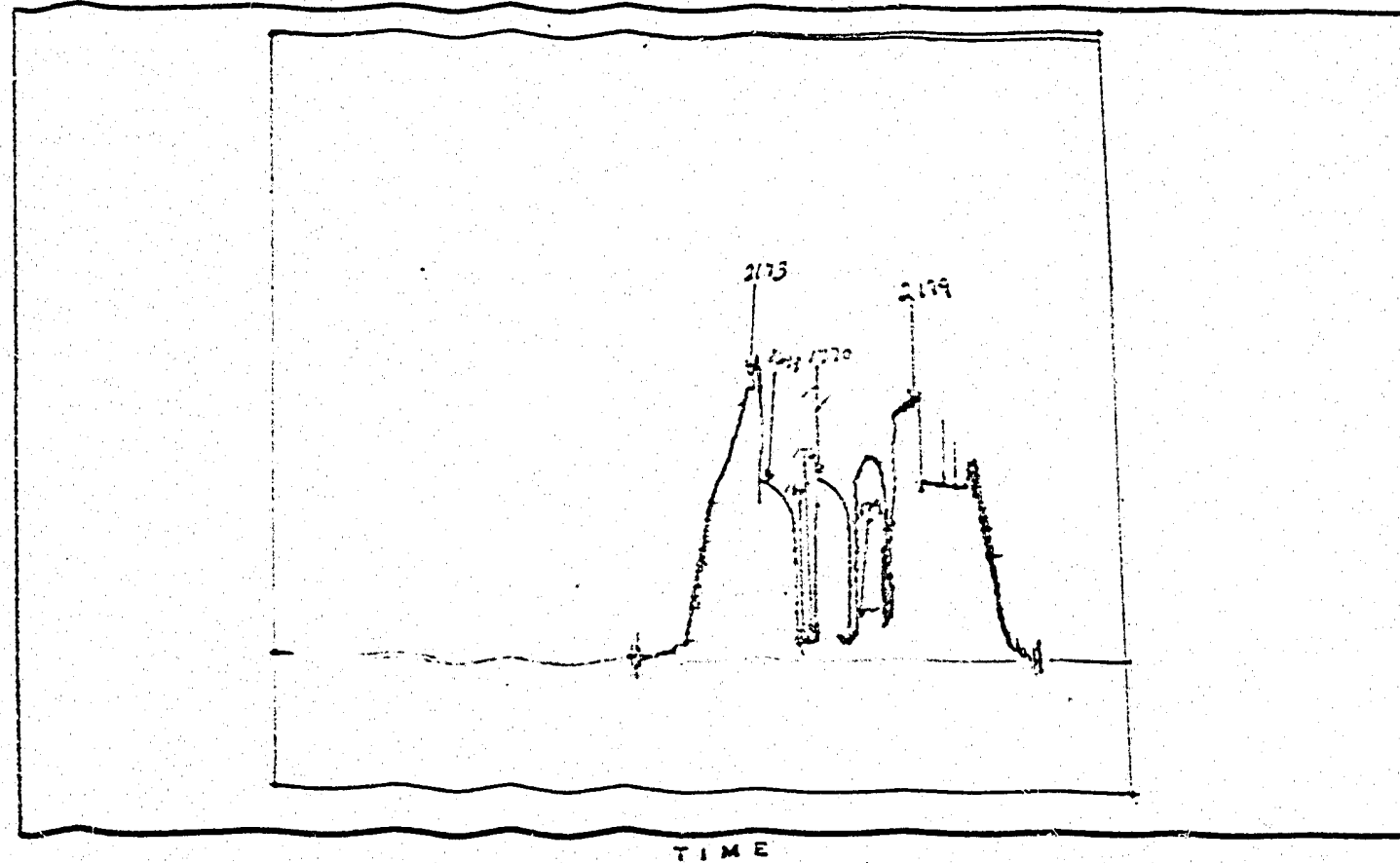
Ticket No. 2311

WELL NAME Pac. Amoco Tathlina N-18

RECORDER No. 3803 ELEMENT RANGE 5950# P.S.I. CHART SPEED 24 HRS. RECORDER DEPTH 4260'



RECORDER No. 3804 ELEMENT RANGE 5950# P.S.I. CHART SPEED 24 HRS. RECORDER DEPTH 4267'



TEST WAS: ~~XXXXXX~~ ^{Success} Mi-Run OUR OPERATOR K.G. Larson

T.G. EASTLAND - testers Ltd.

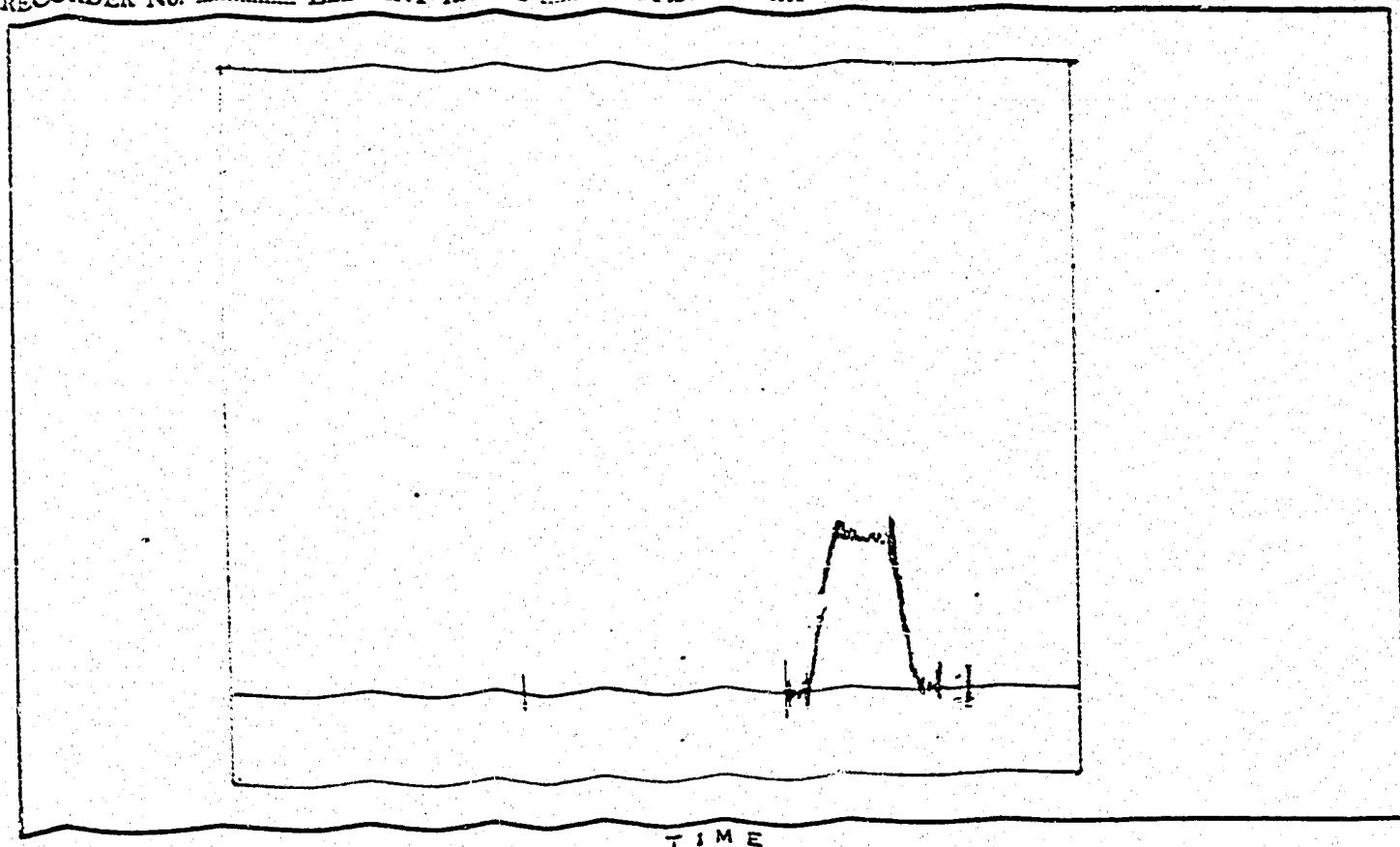
TEST No. Three

Date Feb. 15/73

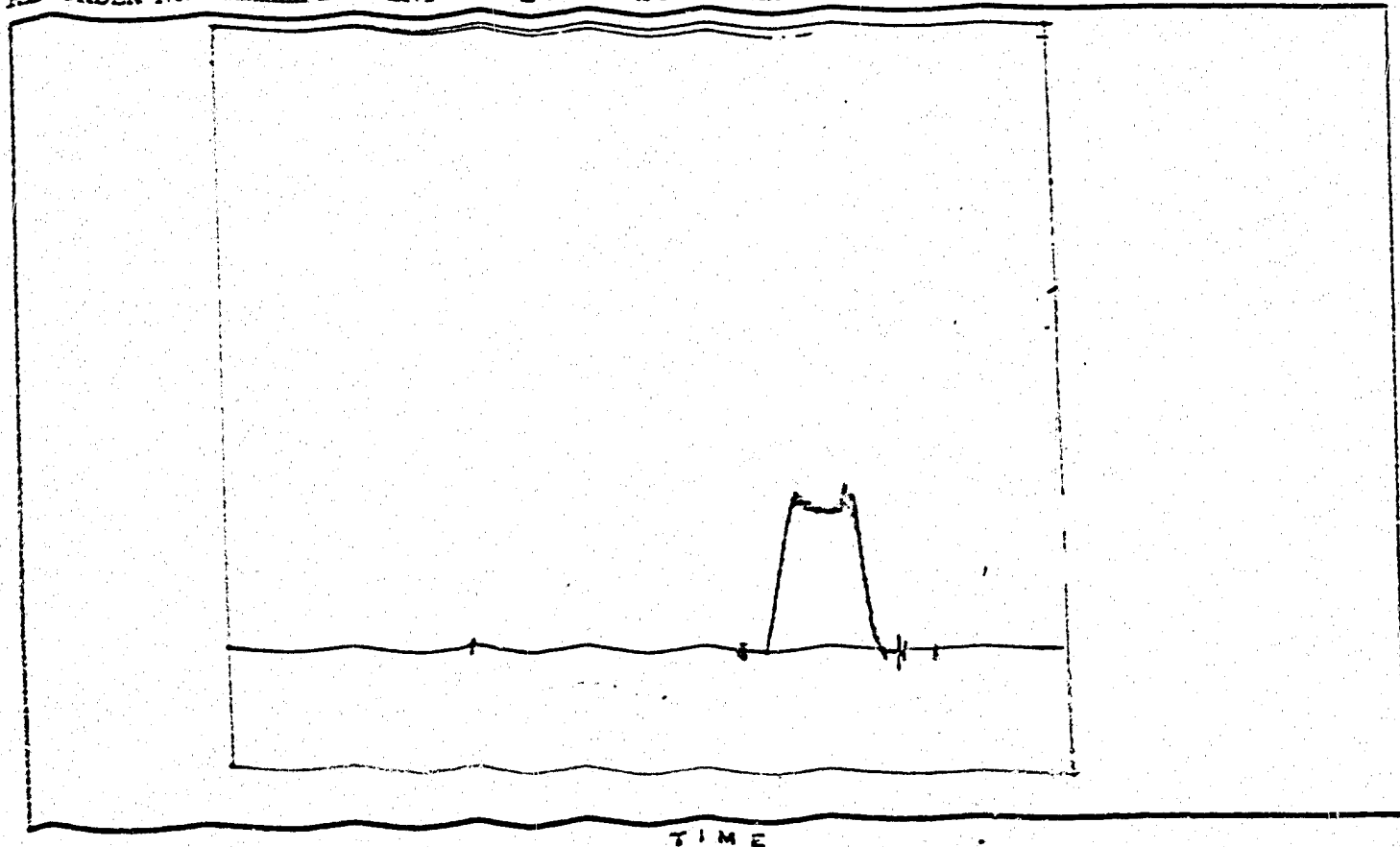
Ticket No. 2312

WELL NAME Pacific Amoco Tathlina N-18

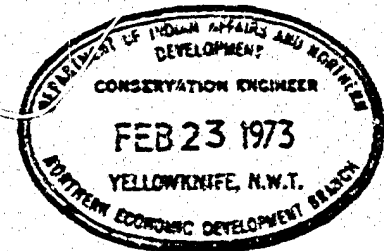
RECORDER No. 3803 ELEMENT RANGE 5950# P.S.I. CHART SPEED 24 HRS. RECORDER DEPTH 3599'



RECORDER No. 3804 ELEMENT RANGE 5950# P.S.I. CHART SPEED 24 HRS. RECORDER DEPTH 3604'



MUD FILTRATE ANALYSIS
FOR
PACIFIC PETROLEUMS LTD.,
PACIFIC AMOCO TATHLINA N-18
TATHLINA LAKE



CORE LABORATORIES - CANADA LTD.
Petroleum Reservoir Engineering
CALGARY - EDMONTON - REGINA



CORE LABORATORIES — CANADA LTD.
PETROLEUM RESERVOIR ENGINEERING

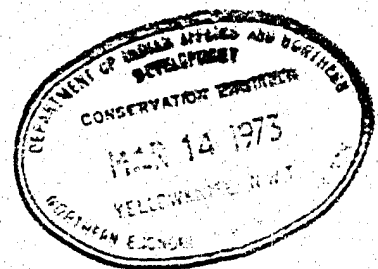


Company Pacific Petroleum Ltd. Page 1 of 1
Well Pacific Amoco Tathlina N-18 File 933-3243
Field Tathlina Lake Analyst G. Anderson
Location 69 17° 46.00 N.L.
118 03° 00.00 W.L. Elevation: K.B. Grd 1290'
Formation Elkpoint Depth 3881' - 3991'
Sampled from See below by _____
Sampling pressure _____ psig Sampling temp. _____ °F Ambient temp. _____ °F
Date sampled Feb. 7/73 Date received Feb. 9/73 Date analysed Feb. 14/73
Container pressure _____ Mud _____ Water cushion _____
Recovery or flowrate: _____

Mud Filtrate Analyses

Sampled From	Resistivity (Ohm-meters)	Chloride (mg/liter)
Mud Tank	1.69 @ 62°F	527
*DST #1 (Top of Tool)	0.176 @ 64°F	25,963

*Recovered 650" gasified, salty, watery, sulphurous mud (37,500ppm salt.)



CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. F73-192-3

Received: Feb. 21, 1973 Reported: Feb. 26, 1973

Well: Location: Pacific Amoco Tathlina N-18

60° 17' 46"N
118° 03' 00"W

Operator: PACIFIC PETROLEUMS LTD.

Field or Area:

Elev.: K.B. 1313' Grd. Zone/Formation:

Sample Interval: 4245' - 4390'

Method of Production:

D.S.T. #2

Sampled from:

Top of tool

Sampled by: Lynes United
Services Ltd.

Date: Feb. 14,
1973

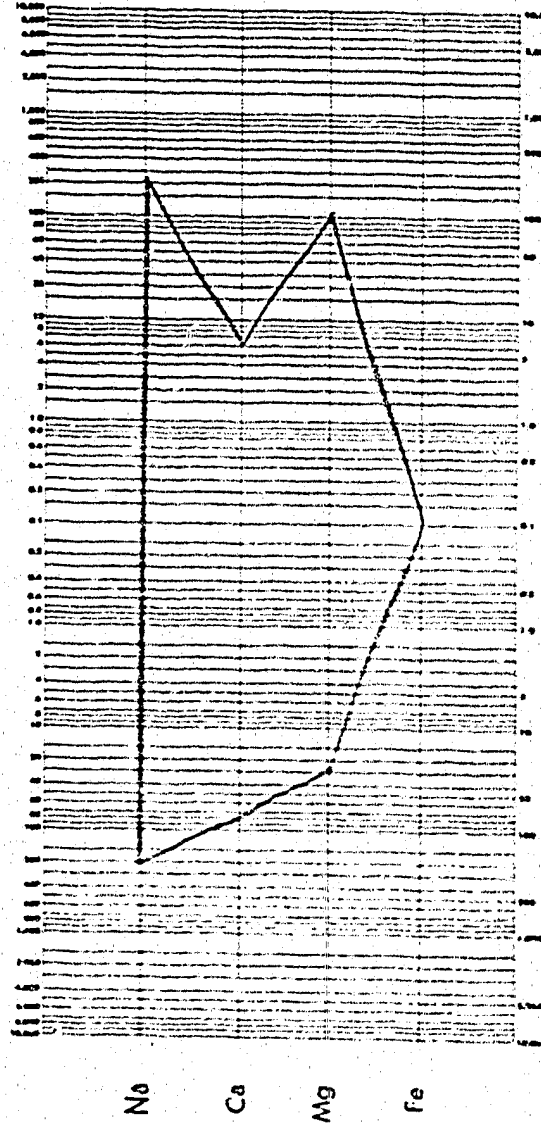
OTHER PERTINENT DATA Recovered 240'.

(Signed)

Mg./L	Na & K	K	Ca	Mg	SO ₄	Cl	CO ₂	HCO ₃	OH
5,169			1,662	401	4,836	8,300	0	370	0
Meq./l.	224.93		82.93	32.96	100.59	234.06	---	6.07	---
Meq. %	32.99		12.17	4.84	14.76	34.35	---	0.89	---

Total Solids Mg/L: By Evaporation 22,420 Fe PRESENT Specific Gravity 1.017 @60°F Observed pH 7.7 @72 °F
Calculated 20,738 After Ignition 18,670 H₂S NIL Refractive Index 1.3359 @25°C Resistivity 0.379 ohm meters @68 °F

Pattern Unit Meq./L



Remarks and Conclusions Analysis determined on Yellow coloured water extracted from mud. Organic matter detected in total solids.

F73-192-1: D.S.T. #2 Sampled from Top

CHLORIDE CONTENT: 4,200 mg/L

RESISTIVITY: 0.529 Ohm-Meters @ 68°F

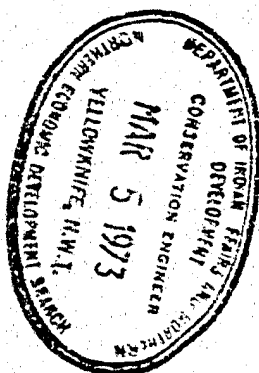
Analysis determined on yellow coloured water extracted from mud.

F73-192-2: D.S.T. #2 Sampled from Middle

CHLORIDE CONTENT: 2,250 mg/L

RESISTIVITY: 0.726 Ohm-Meters @ 68°F

Analysis determined on Yellow coloured water extracted from mud.



DA 653

CHEMICAL & GEOLOGICAL LABORATORIES LTD.

WATER ANALYSIS

Lab No. F73-193-3

Received: Feb. 21, 1973 Reported: Feb. 26, 1973

Well: Location: Pacific Amoco Tathlina N-18

60° 17' 46"N
118° 03' 00"W

Operator: PACIFIC PETROLEUMS LTD.

Field or Area:

Elev.: K.B. 1313' Grd.

Zone/Formation:

Slave Point

Sampled from: Top of tool

Sampled by: Lynes United
Services Ltd.Sample Interval: 3580' - 3610'
Date: Feb. 17, 1973

OTHER PERTINENT DATA

Recovered 324'.

(Signed)

	Na & K	K	Ca	Mg	SO ₄	Cl	CO ₂	HCO ₃	OH
Mg./L	173.65		1,962	1,823	1,768	33,500	0	1,320	0
Meq./L	755.36		97.91	149.85	36.77	944.70	---	21.65	---
Meq. %	37.65		4.88	7.47	1.83	47.09	---	1.08	---

Total Solids Mg./L.

By Evaporation 62,480

Fe PRESENT Specific Gravity 1.041

Observed pH 7.1 @ 72 °F

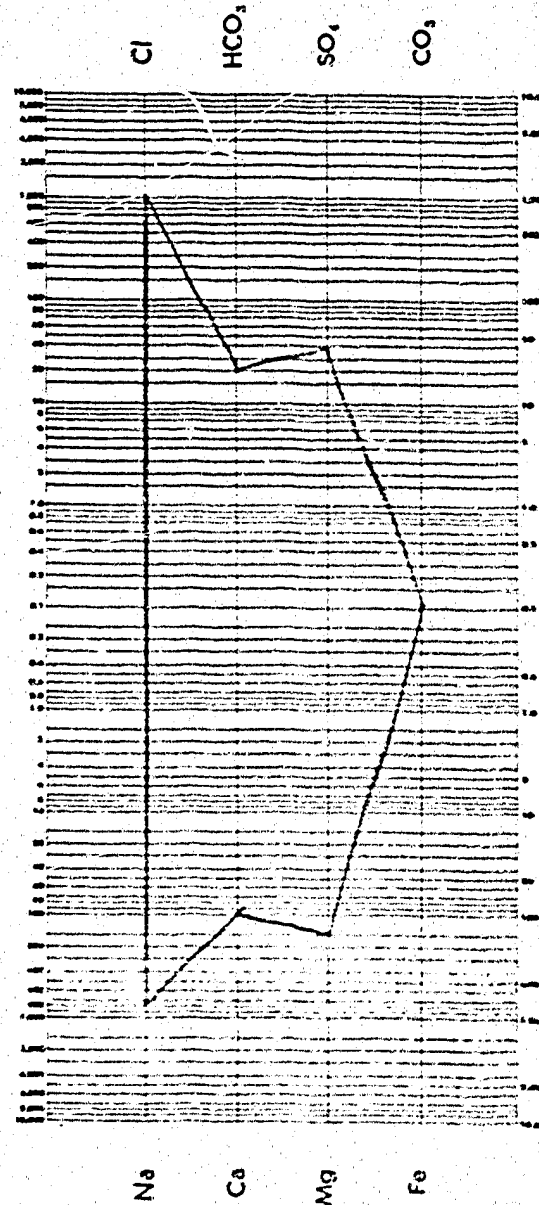
Calculated 57,738

After Ignition

H₂S PRESENT Refractive Index 1.3425

Resistivity 0.141 ohm meters @ 68 °F

Pattern Unit Meq./L



Remarks and Conclusions Sample as received consisted of yellow-green coloured water with a layer of sediment. A hydrocarbon scum was present on top. Organic matter detected in total solids.

F73-193-1: D.S.T. #4 Sampled 324' above Tool

CHLORIDE CONTENT: 26,000 mg/L

RESISTIVITY: 0.173 Ohm-Meters @ 68°F

Sample as received consisted of yellow-green coloured water with a layer of sediment. A hydrocarbon scum was present on top.

F73-193-2: D.S.T. #4 Sampled from Middle

CHLORIDE CONTENT: 26,000 mg/L

RESISTIVITY: 0.173 Ohm-Meters @ 68°F

Sample as received consisted of yellow-green coloured water with a layer of sediment. A hydrocarbon scum was present on top.

Product Code: 118-100
(60, 20, 118-100)
DVA-653
100% SHEETS

MADE IN CANADA



MADE IN CANADA

R613T1/2 Right/Left Reversible Tab
Onglets réversibles gauche/droite

If Slimtrim Fasteners are to be included, please specify.
Spécifiez si vous voulez des agrafes Slimtrim.

LEASE <i>Pacific Amoco Terminal N-18</i>	WELL NO. <i>N-18-60-20-118-00 W</i>	API WELL NUMBER <i>N-18-60-20-118-00 W</i>	DATE <i>FEB 20/73</i>
OPERATOR <i>Pacific Petroleum LTD</i>	CONTRACTOR KENTING - PETROLIA		RIG NO. <i>9</i>
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>	
D.P. SIZE <i>4 1/2 16-6</i>	WT./FT. <i>3</i>	GRADE <i>58</i>	TOOL JT. Q.D. <i>58</i>
TYPE THREAD <i>FN</i>	STRING NO. <i>1</i>	PUMP NO. <i>1</i>	PUMP MANUFACTURER <i>EMSCO</i>
TYPE <i>0300</i>	STROKE LENGTH <i>14</i>		

LEGAL LAND DESCRIPTION

SIZE <i>9 5/8</i>	MAKE <i>STC</i>	WT. & GR. <i>24</i>	NO. JOINTS <i>13</i>	FEET <i>545</i>	RKB. TO CSG. 100. <i>541</i>	SET AT <i>541</i>
LAST CASING TUBING OR LINER						

WIRE LINE RECORD

SIZE <i>1"</i>	NO. LINES <i>8</i>	FT. SLIPPED <i></i>
FT. CUT OFF <i></i>		
PRESENT LENGTH <i></i>		
TON MI. OR TRIPS SINCE LAST CUT <i></i>		
CUMULATIVE TON MI. OR TRIPS <i></i>		

DRILLING CREW PAYROLL DATA

DATE <i>FEB 20/73</i>	WELL NAME & NO. <i>Pacific Amoco Terminal N-18</i>
COMPANY <i>KENTING PETROLIA</i>	
TOOL PUSHER <i>NORM THOMPSON</i>	
RIG NO. <i>9</i>	

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	WEIGHT
1	RIG UP AND TEAR DOWN				STB RMR	OD	FT. MFG.		PRESSURE GRADIENT
2	DRILL ACTUAL				D.C. ID	OD	FT. TYPE		VISC.-SEC.
3	REAMING				STB RMR	OD	FT. JETS 1/32"		PV/YP
4	CORING				D.C. ID	OD	FT. SER. NO.		GELS.
5	CONDITION MUD & CIRCULATE				STB RMR	OD	FT. DEPTH OUT		ML -CC'S
6	TRIPS						DEPTH IN		pH
7	LUBRICATE RIG						TOTAL FTG.		SOLIDS %
8	REPAIR RIG						TOTAL HRS. RUN		
9	CUT OFF DRILLING LINE				STANDS DP	FT.	COND. 1/8" T/B GAGE		MUD & CHEMICALS ADDED
10	DEVIATION SURVEY				SINGLES DP	FT.	GPM/ PD-PSI		TYPE AMT. TYPE AMT.
11	WIRE LINE LOGS				KELLY DOWN	FT.			
12	RUN CASING & CEMENT				TOTAL	FT.			
13	WAIT ON CEMENT				WT. OF STRING	LBS.			
14	NIPPLE UP B.O.P.								
15	TEST B.O.P.								
16	DRILL STEM TEST								
17	PLUS BACK								
18	SQUEEZE CEMENT								
19	PISHING								
20	DIR. WORK								
21	<i>Remounting 8 8</i>								
22									
23									
COMPLETION									
A	PERF'RTN								
B	TBC TRIPS								
C	TREATING								
D	SWABBING								
E	TESTING								
F	ADDT'NL								
G									
TOTALS									
DAY WORK TIME SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. W/D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
NO. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									
WT. OF STRING									

MORNING TOUR

DAY TOUR

EVENING TOUR

FOOTAGE		DR. D. RMR. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	PUMP NO. LINER SIZE	PUMP NO. S.P.M.	METHOD RUN
FROM	TO											
DEVIATION RECORD												
DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION												
TIME LOG FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS												
12 8 18 TEAR OUT RIG + Pumps MILL CAMP + RIG UP												
FOOTAGE DR. D. RMR. CORE. C CORE NO. FORMATION (SHOW CORE RECOVERY) ROTARY RPM WT. ON BIT 1000+ PUMP PRESS PUMP NO. LINER SIZE PUMP NO. S.P.M. PUMP NO. LINER SIZE PUMP NO. S.P.M. METHOD RUN												
DEVIATION RECORD DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION												
TIME LOG FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS												
8 12 16 FINISH TEAR OUT RIG AND MOVE MARSHLAND TRUCKING ARRIVED 10 AM 1 TANDUM BED TRUCK 2 TANDUM TRACTORS 1 SINGLE 4 TRUCKS												
FOOTAGE DR. D. RMR. CORE. C CORE NO. FORMATION (SHOW CORE RECOVERY) ROTARY RPM WT. ON BIT 1000+ PUMP PRESS PUMP NO. LINER SIZE PUMP NO. S.P.M. PUMP NO. LINER SIZE PUMP NO. S.P.M. METHOD RUN												
DEVIATION RECORD DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION												
TIME LOG FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS												
8 9 12 TEAR OUT + MOVE RIG												

MORNING TOUR 12 8 A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		CARRY WOODRIDGE	18
DRKMAN		LEO T. CARR	18
MTRMAN		RANDY CHISHOLM	18
FIREMAN			
FLRMAN		221-821-4818 PETS IN FADDED 3	
FLRMAN			
FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			
DAY TOUR 8 4 P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		K SANDER	16
DRKMAN		T. FILLARD	16
MTRMAN		D. WITTER	16
FIREMAN			
FLRMAN		C. SARTRE	11
FLRMAN		T. COCHRAN	11
FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			
EVENING TOUR 4 12 P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		C. SANDER	12
DRKMAN		D. LAUCK	12
MTRMAN		R. THIEL	12
FIREMAN			
FLRMAN		B. DUNN	11
FLRMAN			
FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			



LEASE PACIFIC AMOCO TATULIMA	WELL NO. N-18	API WELL NUMBER N-18-60-20-118-00-W	DATE FEB 19
OPERATOR PACIFIC PETROLEUMS LTD	CONTRACTOR KENTING PETROLIA		RIG NO. 9
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>R.M. Linton</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>N.L. Tompkins</i>	
D.P. SIZE 4 1/2	WT./FT. 16.6	GRADE 3	TOOL JT. Q.D. 5 1/2
TYPE THREAD F.H	STRING NO. 1	PUMP NO. 1	PUMP MANUFACTURER EMSCO
TYPE D-300		STROKE LENGTH 14	

LEFT LAND DESCRIPTION N-18-60-20-118-00-W										WIRE LINE RECORD REEL NO. 4			
SIZE 8 5/8	MAKE S.T.C.	WT. & GR. 24 KS	NO. JOINTS 13	FEET 545	RKB. TO CSG. NO. 541	SET AT	SIZE 1"	NO. LINES 9	FT. SLIPPED	PRESENT LENGTH			
LAST CASING TUBING OR LINER										TON MI. OR TRIPS SINCE LAST CUT			
CUMULATIVE TON MI. OR TRIPS													

DRILLING CREW PAYROLL DATA

DATE **FEB. 19/73**WELL NAME & NO. **PACIFIC AMOCO TATULIMA N-18**

COMPANY

TOOL PUSHER **NORM TOMPKINS** RIG NO. **9**

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	BIT	FT.	BIT NO.	TIME	WEIGHT	PRESSURE GRADIENT
1. RIG UP AND 1. TEAR DOWN				STB RMR	OD	FT.	WFC.		
2. DRILL ACTUAL				D.C. ID	OD	FT.	TYPE	VISC.-SEC.	
3. REAMING				STB RMR	OD	FT.	JETS 1/32"	PV/YP	
4. CORING				D.C. ID	OD	FT.	SER. NO.	GELS	
5. CONDITION MUD & CIRCULATE				STB RMR	OD	FT.	DEPTH OUT	ML -CC'S	
6. TRIPS							DEPTH IN	pH	
7. LUBRICATE RIG							TOTAL FTG.	SOLIDS %	
8. REPAIR RIG							TOTAL HRS. RUN		
9. CUT OFF MILLING LINE				STANDS DP	FT.	COND. 1/8" T.B. GAGE		MUD & CHEMICALS ADDED	
10. DEVIATION SURVEY				SINGLES DP	FT.	GPM/ PD-PSI		TYPE	AMT.
11. WIRE LINE LOGS				KELLY DOWN	FT.				
12. RUN CASING & CEMENT				TOTAL	FT.				
13. WAIT ON CEMENT				WT. OF STRING	LBS.				
14. NIPPLE UP B.O.P.									

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	BIT	FT.	BIT NO.	TIME	WEIGHT	PRESSURE GRADIENT
15. TEST B.O.P.				STB RMR	OD	FT.	WFC.		
16. DRILL STEM TEST				D.C. ID	OD	FT.	TYPE	VISC.-SEC.	
17. PLUG BACK				STB RMR	OD	FT.	JETS 1/32"	PV/YP	
18. SQUEEZE CEMENT				D.C. ID	OD	FT.	SER. NO.	GELS	
19. FISHING				STB RMR	OD	FT.	DEPTH OUT	ML -CC'S	
20. DIR. WORK							DEPTH IN	pH	
21.							TOTAL FTG.	SOLIDS %	
22.							TOTAL HRS. RUN		
23.				STANDS DP	FT.	COND. 1/8" T.B. GAGE		MUD & CHEMICALS ADDED	
A. PERF'Y'N				SINGLES DP	FT.	GPM/ PD-PSI		TYPE	AMT.
B. TBC TRIPS				KELLY DOWN	FT.				
C. TREATING				TOTAL	FT.				
D. SWABING				WT. OF STRING	LBS.				
E. TESTING									
F. ADDIT'L									
G.									

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	BIT	FT.	BIT NO.	TIME	WEIGHT	PRESSURE GRADIENT
24.				STB RMR	OD	FT.	WFC.		
25.				D.C. ID	OD	FT.	TYPE	VISC.-SEC.	
26.				STB RMR	OD	FT.	JETS 1/32"	PV/YP	
27.				D.C. ID	OD	FT.	SER. NO.	GELS	
28.				STB RMR	OD	FT.	DEPTH OUT	ML -CC'S	
29.							DEPTH IN	pH	
30.							TOTAL FTG.	SOLIDS %	
31.							TOTAL HRS. RUN		
32.				STANDS DP	FT.	COND. 1/8" T.B. GAGE		MUD & CHEMICALS ADDED	
33.				SINGLES DP	FT.	GPM/ PD-PSI		TYPE	AMT.
34.				KELLY DOWN	FT.				
35.				TOTAL	FT.				
36.				WT. OF STRING	LBS.				

FOOTAGE		DR-D RMR-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
12:00	2:00	2		LAY DOWN PIPE							
2:00	7:00	5		WAIT ON CSG.							
7:00	8:00	1		UNLOAD CSG, RIG UP RUN CSG.							

FOOTAGE		DR-D RMR-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
8:00	9:00	1		RAN 115 JTS + 1 CUT OFF 4 1/2" 11.6" ARMED SEAL-LOC CASEY R2 (USED + INSPECTED) TOTAL LENGTH OF STRING 3705.32 LANDED @ 3704 KB							
9:00	10:00	1		B SCRATCHERS + 3 CENT FROM 3570 - 3670 KB							
10:00	11:00	1		CIRC + WORKED CASEY FOR 1 1/2 HR. PRIOR TO CEMENTING							
11:00	12:00	1		CEMENTING HOP 30 SAK CONTS							
12:00	1:00	1		CONST CEMENT 2 1/2 GEL FOLLOWED BY 200 SAK 2 1/2 POS 1 1/2 GEL 0.5 1/2 POS 2 1/2 GEL 0.5 1/2 POS 3 1/2 GEL 0.5 1/2 POS 4 1/2 GEL 0.5 1/2 POS 5 1/2 GEL 0.5 1/2 POS 6 1/2 GEL 0.5 1/2 POS 7 1/2 GEL 0.5 1/2 POS 8 1/2 GEL 0.5 1/2 POS 9 1/2 GEL 0.5 1/2 POS 10 1/2 GEL 0.5 1/2 POS 11 1/2 GEL 0.5 1/2 POS 12 1/2 GEL 0.5 1/2 POS 13 1/2 GEL 0.5 1/2 POS 14 1/2 GEL 0.5 1/2 POS 15 1/2 GEL 0.5 1/2 POS 16 1/2 GEL 0.5 1/2 POS 17 1/2 GEL 0.5 1/2 POS 18 1/2 GEL 0.5 1/2 POS 19 1/2 GEL 0.5 1/2 POS 20 1/2 GEL 0.5 1/2 POS 21 1/2 GEL 0.5 1/2 POS 22 1/2 GEL 0.5 1/2 POS 23 1/2 GEL 0.5 1/2 POS 24 1/2 GEL 0.5 1/2 POS 25 1/2 GEL 0.5 1/2 POS 26 1/2 GEL 0.5 1/2 POS 27 1/2 GEL 0.5 1/2 POS 28 1/2 GEL 0.5 1/2 POS 29 1/2 GEL 0.5 1/2 POS 30 1/2 GEL 0.5 1/2 POS 31 1/2 GEL 0.5 1/2 POS 32 1/2 GEL 0.5 1/2 POS 33 1/2 GEL 0.5 1/2 POS 34 1/2 GEL 0.5 1/2 POS 35 1/2 GEL 0.5 1/2 POS 36 1/2 GEL 0.5 1/2 POS 37 1/2 GEL 0.5 1/2 POS 38 1/2 GEL 0.5 1/2 POS 39 1/2 GEL 0.5 1/2 POS 40 1/2 GEL 0.5 1/2 POS 41 1/2 GEL 0.5 1/2 POS 42 1/2 GEL 0.5 1/2 POS 43 1/2 GEL 0.5 1/2 POS 44 1/2 GEL 0.5 1/2 POS 45 1/2 GEL 0.5 1/2 POS 46 1/2 GEL 0.5 1/2 POS 47 1/2 GEL 0.5 1/2 POS 48 1/2 GEL 0.5 1/2 POS 49 1/2 GEL 0.5 1/2 POS 50 1/2 GEL 0.5 1/2 POS 51 1/2 GEL 0.5 1/2 POS 52 1/2 GEL 0.5 1/2 POS 53 1/2 GEL 0.5 1/2 POS 54 1/2 GEL 0.5 1/2 POS 55 1/2 GEL 0.5 1/2 POS 56 1/2 GEL 0.5 1/2 POS 57 1/2 GEL 0.5 1/2 POS 58 1/2 GEL 0.5 1/2 POS 59 1/2 GEL 0.5 1/2 POS 60 1/2 GEL 0.5 1/2 POS 61 1/2 GEL 0.5 1/2 POS 62 1/2 GEL 0.5 1/2 POS 63 1/2 GEL 0.5 1/2 POS 64 1/2 GEL 0.5 1/2 POS 65 1/2 GEL 0.5 1/2 POS 66 1/2 GEL 0.5 1/2 POS 67 1/2 GEL 0.5 1/2 POS 68 1/2 GEL 0.5 1/2 POS 69 1/2 GEL 0.5 1/2 POS 70 1/2 GEL 0.5 1/2 POS 71 1/2 GEL 0.5 1/2 POS 72 1/2 GEL 0.5 1/2 POS 73 1/2 GEL 0.5 1/2 POS 74 1/2 GEL 0.5 1/2 POS 75 1/2 GEL 0.5 1/2 POS 76 1/2 GEL 0.5 1/2 POS 77 1/2 GEL 0.5 1/2 POS 78 1/2 GEL 0.5 1/2 POS 79 1/2 GEL 0.5 1/2 POS 80 1/2 GEL 0.5 1/2 POS 81 1/2 GEL 0.5 1/2 POS 82 1/2 GEL 0.5 1/2 POS 83 1/2 GEL 0.5 1/2 POS 84 1/2 GEL 0.5 1/2 POS 85 1/2 GEL 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1/2 POS 128 1/2 GEL 0.5 1/2 POS 129 1/2 GEL 0.5 1/2 POS 130 1/2 GEL 0.5 1/2 POS 131 1/2 GEL 0.5 1/2 POS 132 1/2 GEL 0.5 1/2 POS 133 1/2 GEL 0.5 1/2 POS 134 1/2 GEL 0.5 1/2 POS 135 1/2 GEL 0.5 1/2 POS 136 1/2 GEL 0.5 1/2 POS 137 1/2 GEL 0.5 1/2 POS 138 1/2 GEL 0.5 1/2 POS 139 1/2 GEL 0.5 1/2 POS 140 1/2 GEL 0.5 1/2 POS 141 1/2 GEL 0.5 1/2 POS 142 1/2 GEL 0.5 1/2 POS 143 1/2 GEL 0.5 1/2 POS 144 1/2 GEL 0.5 1/2 POS 145 1/2 GEL 0.5 1/2 POS 146 1/2 GEL 0.5 1/2 POS 147 1/2 GEL 0.5 1/2 POS 148 1/2 GEL 0.5 1/2 POS 149 1/2 GEL 0.5 1/2 POS 150 1/2 GEL 0.5 1/2 POS 151 1/2 GEL 0.5 1/2 POS 152 1/2 GEL 0.5 1/2 POS 153 1/2 GEL 0.5 1/2 POS 154 1/2 GEL 0.5 1/2 POS 155 1/2 GEL 0.5 1/2 POS 156 1/2 GEL 0.5 1/2 POS 157 1/2 GEL 0.5 1/2 POS 158 1/2 GEL 0.5 1/2 POS 159 1/2 GEL 0.5 1/2 POS 160 1/2 GEL 0.5 1/2 POS 161 1/2 GEL 0.5 1/2 POS 162 1/2 GEL 0.5 1/2 POS 163 1/2 GEL 0.5 1/2 POS 164 1/2 GEL 0.5 1/2 POS 165 1/2 GEL 0.5 1/2 POS 166 1/2 GEL 0.5 1/2 POS 167 1/2 GEL 0.5 1/2 POS 168 1/2 GEL 0.5 1/2 POS 169 1/2 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1/2 POS 253 1/2 GEL 0.5 1/2 POS 254 1/2 GEL 0.5 1/2 POS 255 1/2 GEL 0.5 1/2 POS 256 1/2 GEL 0.5 1/2 POS 257 1/2 GEL 0.5 1/2 POS 258 1/2 GEL 0.5 1/2 POS 259 1/2 GEL 0.5 1/2 POS 260 1/2 GEL 0.5 1/2 POS 261 1/2 GEL 0.5 1/2 POS 262 1/2 GEL 0.5 1/2 POS 263 1/2 GEL 0.5 1/2 POS 264 1/2 GEL 0.5 1/2 POS 265 1/2 GEL 0.5 1/2 POS 266 1/2 GEL 0.5 1/2 POS 267 1/2 GEL 0.5 1/2 POS 268 1/2 GEL 0.5 1/2 POS 269 1/2 GEL 0.5 1/2 POS 270 1/2 GEL 0.5 1/2 POS 271 1/2 GEL 0.5 1/2 POS 272 1/2 GEL 0.5 1/2 POS 273 1/2 GEL 0.5 1/2 POS 274 1/2 GEL 0.5 1/2 POS 275 1/2 GEL 0.5 1/2 POS 276 1/2 GEL 0.5 1/2 POS 277 1/2 GEL 0.5 1/2 POS 278 1/2 GEL 0.5 1/2 POS 279 1/2 GEL 0.5 1/2 POS 280 1/2 GEL 0.5 1/2 POS 281 1/2 GEL 0.5 1/2 POS 282 1/2 GEL 0.5 1/2 POS 283 1/2 GEL 0.5 1/2 POS 284 1/2 GEL 0.5 1/2 POS 285 1/2 GEL 0.5 1/2 POS 286 1/2 GEL 0.5 1/2 POS 287 1/2 GEL 0.5 1/2 POS 288 1/2 GEL 0.5 1/2 POS 289 1/2 GEL 0.5 1/2 POS 290 1/2 GEL 0.5 1/2 POS 291 1/2 GEL 0.5 1/2 POS 292 1/2 GEL 0.5 1/2 POS 293 1/2 GEL 0.5 1/2 POS 294 1/2 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1/2 POS 378 1/2 GEL 0.5 1/2 POS 379 1/2 GEL 0.5 1/2 POS 380 1/2 GEL 0.5 1/2 POS 381 1/2 GEL 0.							

LEASE <i>Pacific America TATIANA #18</i>	WELL NO. <i>18</i>	API WELL NUMBER <i>18-60-20-118-00-W</i>	DATE <i>FEB 18</i>						
OPERATOR <i>Pacific Petroleum Ltd</i>	CONTRACTOR KENTING PETROLIA		RIG NO. <i>9</i>						
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>							
D.P. SIZE <i>4 1/2</i>	WT./FT. <i>16.6</i>	GRADE <i>3</i>	TOOL JT. Q.D. <i>5 1/2</i>	TYPE THREAD <i>FA</i>	STRING NO. <i>1</i>	PUMP NO. <i>1</i>	PUMP MANUFACTURER <i>EMSCO</i>	TYPE <i>D-300</i>	STROKE LENGTH <i>14</i>

LEGAL LAND DESCRIPTION

SIZE <i>8 3/4</i>	MAKE <i>ST.C 3</i>	WT. & GR. <i>24.45</i>	NO. JOINTS <i>13</i>	FEET <i>545</i>	RKB. TO CSG. NO. <i>541</i>	SET AT <i>541</i>
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WIRE LINE RECORD

REEL NO. <i>9</i>	NO. LINES <i>9</i>	FT. SLIPPED
FT. CUT OFF		PRESENT LENGTH
TON ML. OR TRIPS SINCE LAST CUT		
CUMULATIVE TON ML. OR TRIPS		

DRILLING CREW PAYROLL DATA

DATE <i>FEB 18/73</i>
WELL NAME & NO. <i>Pacific America TATIANA #18</i>
COMPANY <i>[Blank]</i>
TOOL PUSHER <i>NORM TOMPKINS</i>
RIG NO. <i>9</i>

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	SIZE	WEIGHT	TIME	
1	RIG UP AND 1. TEAR DOWN				STB RMR	OD	FT.	MFG.	PRESSURE GRADIENT		
2	DRILL ACTUAL				D.C. ID	OD	FT.	TYPE	VISC.-SEC.		
3	REAMING				STB RMR	OD	FT.	JETS 1.32"	PV. VP		
4	CORING				D.C. ID	OD	FT.	SER. NO.	GELS		
5	CONDITION MUD & CIRCULATE				STB RMR	OD	FT.	DEPTH OUT	WL. -CC'S		
6	TRIPS							DEPTH IN	PH		
7	LUBRICATE RIG							TOTAL F.T.G.	SOLIDS %		
8	REPAIR RIG							TOTAL MRS. RUN			
9	CUT OFF DRILLING LINE				STANDS DP	FT.		COND. 1/8" T.B. GAGE			
10	DEVIATION SURVEY				SINGLES DP	FT.		GPM/ PD-PSI			
11	WIRE LINE LOGS				KELLY DOWN	FT.					
12	RUN CASING & CEMENT				TOTAL	FT.					
13	WAIT ON CEMENT				WT. OF STRING	LBS.					
14	HAIR UP B.O.P.										

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	SIZE	WEIGHT	TIME	
15	TEST B.O.P.				STB RMR	OD	FT.	MFG.	PRESSURE GRADIENT		
16	DRILL STEM TEST				D.C. ID	OD	FT.	TYPE	VISC.-SEC.		
17	PLUG BACK				STB RMR	OD	FT.	JETS 1.32"	PV. VP		
18	SQUEEZE CEMENT				D.C. ID	OD	FT.	SER. NO.	GELS		
19	FISHING				STB RMR	OD	FT.	DEPTH OUT	WL. -CC'S		
20	DIR. WORK							DEPTH IN	PH		
21								TOTAL F.T.G.	SOLIDS %		
22								TOTAL MRS. RUN			
23					STANDS DP	FT.		COND. 1/8" T.B. GAGE			
					SINGLES DP	FT.		GPM/ PD-PSI			
					KELLY DOWN	FT.					
					TOTAL	FT.					
					WT. OF STRING	LBS.					

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	SIZE	WEIGHT	TIME	
24	PERF. RTN				STB RMR	OD	FT.	MFG.	PRESSURE GRADIENT		
25	T.B.G. TRIPS				D.C. ID	OD	FT.	TYPE	VISC.-SEC.		
26	TREATING				STB RMR	OD	FT.	JETS 1.32"	PV. VP		
27	SWABING				D.C. ID	OD	FT.	SER. NO.	GELS		
28	TESTING				STB RMR	OD	FT.	DEPTH OUT	WL. -CC'S		
29	ADDITIONAL							DEPTH IN	PH		
30								TOTAL F.T.G.	SOLIDS %		
31								TOTAL MRS. RUN			
32					STANDS DP	FT.		COND. 1/8" T.B. GAGE			
33					SINGLES DP	FT.		GPM/ PD-PSI			
34					KELLY DOWN	FT.					
35					TOTAL	FT.					
36					WT. OF STRING	LBS.					

FOOTAGE		DR. D. RM-R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FROM	TO																		
DEVIATION RECORD																			
TIME LOG																			
FROM 12:00 TO 2:30 ELAPSED TIME 2 1/2																			
CODE NO. 1																			
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS																			
TRIP IN OPEN END PICK UP 5 Samples																			
Run Plug #1 #2																			
TRIP OUT of Hole																			
Plug #1 4200-4205 195' 80 S.A.X CONST. CEMENT																			
DISP. 59 S.A.X Plug Down 415' PM FEB 18/73																			

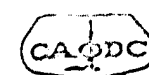
FOOTAGE		DR. D. RM-R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FROM	TO																		
DEVIATION RECORD																			
TIME LOG																			
FROM 12:00 TO 2:00 ELAPSED TIME 2																			
CODE NO. 2																			
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS																			
Plug #2 3700-4000 300' 130 S.A.X CONST.																			
Run Plug #3																			
Plug Down 500' PM FEB 18/73																			

FOOTAGE		DR. D. RM-R CORE-C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FROM	TO																		
DEVIATION RECORD																			
TIME LOG																			
FROM 11:00 TO 11:10 ELAPSED TIME 7																			
CODE NO. 3																			
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS																			
Bore A.D. UNIT of Csg.																			
LAY DOWN PIPE																			

MORNING TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		GARRY BLVDIDGE	12								
DRKMAN		Lee Tawczak	12								
MTRMAN		Andy CHILDRON	12								
FIREMAN											
FLRMAN		Jim COCHRAN	12								
FLRMAN											
FLRMAN											

DAY TOUR				A.M.				P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		J. SANDER	12								
DRKMAN		I. FELDID	12								
MTRMAN		D. WITTER	12								
FIREMAN											
FLRMAN		G. SANDER	12								
FLRMAN											
FLRMAN											

EVENING TOUR				P.M.				P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER											
DRKMAN											
MTRMAN											
FIREMAN											
FLRMAN											
FLRMAN											
FLRMAN											



LEASE	WELL NO.	API WELL NUMBER	DATE						
PACIFIC AMCO-TATHLINA	N-18	N-18-60-20-118-00-W	11-17-73						
OPERATOR	CONTRACTOR	RIG NO.							
PACIFIC PETROLEUMS LTD	KENTING PETROLIA	9							
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER							
<i>R. L. Lutz</i>		<i>M. L. Lough</i>							
D.P. SIZE	WT./FT.	GRADE	TOOL JT. Q.D.	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4 1/2	16.6	3	5 1/2	FH	1	1	FMSCO	D-700	14

LEGAL LAND DESCRIPTION										WIRE LINE RECORD		
N-18-60-20-118-00-W										REEL NO. 4		
SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKS. TO CSG. NO.	SET AT	SIZE	NO. LINES	FT. SLIPPED	FT. CUT OFF	PRESENT LENGTH	
8 1/2	ST3C	24 MS	13	543		541						
LAST CASING TUBING OR LINER												
TON. ML. OR TRIPS SINCE LAST CUT												
CUMULATIVE TON. ML. OR TRIPS												

DRILLING CREW PAYROLL DATA

DATE FEB 17/73

WELL NAME & NO. PACIFIC-AMCO-TATHLINA N-18

COMPANY KENTING PETROLIA

TOOL PUSHER NORM TOMEKINS RIG NO. 9

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	WEIGHT
1	RIG UP AND TEAR DOWN								
2	DRILL ACTUAL				STB	OD	FT. MFG.		PRESSURE GRADIENT
3	REAMING				D.C.	ID	FT. TYPE		VISC.-SEC.
4	CORING				STB	RMR	OD	FT. JETS 1/32"	P.V. TP
5	CONDITION MUD & CIRCULATE				D.C.	ID	OD	FT. SER. NO.	GELS
6	TRIPS				STB	RMR	OD	FT. DEPTH OUT	WL -CC'S
7	LUBRICATE RIG							DEPTH IN	pH
8	REPAIR RIG							TOTAL FTG.	SOLIDS %
9	CUT OFF DRILLING LINE				STANDS DP	FT.		TOTAL MRS. RUN	
10	DEVIATION SURVEY				SINGLES DP	FT.		COND. 1/8" T.B. GAGE	MUD & CHEMICALS ADDED
11	WIRE LINE LOGS				KELLY DOWN	FT.		CPW. PD-PSI	TYPE AMT. TYPE AMT.
12	RUN CASING & CEMENT				TOTAL	FT.			
13	WAIT ON CEMENT				WT. OF STRING	LBS.			
14	NIPPLE UP B.O.P.								
15	TEST B.Q.P.								
16	DRILL STEM TEST								
17	PLUG JACK								
18	SQUEEZE CEMENT								
19	FISHING								
20	DIRL WORK								
21									
22									
23									
COMPLETION									
A	PERF'R'TH								
B	TBC TRIPS								
C	TREATING								
D	SWABING								
E	TESTING								
F	ADDT'L								
G									
TOTALS									
DAY WORK TIME SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. WO/D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
NO. OF DAYS FROM 5:00 P.M. PREVIOUS ROTATING HRS.									
TOTAL MUD COST									

FOOTAGE		DR. D. RMR. CORE. C		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000'		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FROM	TO																		
4395 T.O.																			
DEVIATION RECORD																			
DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION																			
TIME LOG																			
FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS																			
12:00 2:00 2 1/2 WAIT ON TESTER																			
2:30 5:30 3 MAKE UP TEST TOOL																			
5:30 7:30 2 TRIP IN TEST TO 3600 FT STAMP IN																			
7:30 8:00 1/2 RIG UP TESTER																			
FOOTAGE																			
FROM TO DR. D. RMR. CORE. C CORE NO. FORMATION (SHOW CORE RECOVERY) ROTARY RPM WT. ON BIT 1000' PUMP PRESS PUMP NO. PUMP NO. METHOD RUN																			
4395 T.O. PREFLOW 5 mins 151 60 mins U.O. 150 mins 150 mins F.S. 150 mins																			
DEVIATION RECORD																			
DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION																			
TIME LOG																			
FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS																			
8:00 9:30 1 1/2 RIG TO TEST																			
9:30 10:30 1 TEST DRY H4																			
10:30 11:00 1/2 Pull Tools Loose - B.R. Down TEST HEAD																			
RAN TEST #4 WT 3580 - 3610 WT LINES UNITED INSULATED																			
15-60-60-60 (90-90) GAB ON PREFLOW GETS 4 min. 1st																			
VO PERIOD 552 MCF/DAY DECREASING TO 0 IN 60 MIN 2ND VO PERIOD																			
(90 min) MUD SPRAY TO SURFACE IN 5 MIN FLOW STABILIZED @																			
1.760 MMCF/CAL IN 50 MIN W/ MED SPRAYING DRILLER Jimmy Linder																			
FOOTAGE																			
FROM TO DR. D. RMR. CORE. C CORE NO. FORMATION (SHOW CORE RECOVERY) ROTARY RPM WT. ON BIT 1000' PUMP PRESS PUMP NO. PUMP NO. METHOD RUN																			
REC'D 324' MUDY SALT WATER SIL. 164/100 PH. 11.0																			
14P 1836 IF 312 151 1538 BHT. 88°F																			
FHP 1836 FE 325 FSI 1526																			
DEVIATION RECORD																			
DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION DEPTH DEV. DIRECTION																			
TIME LOG																			
FROM TO ELAPSED TIME CODE NO. DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS																			
4:00 7:00 3 Pull out w/ DSI #4																			
7:00 9:00 2 Lay down TEST TOOLS																			
9:00 11:00 2 WAIT ON TEST EVALUATION																			
11:00 12:00 1 Lay down 4 6 1/4" drill collars.																			
FOOTAGE																			
FROM TO DR. D. RMR. CORE. C CORE NO. FORMATION (SHOW CORE RECOVERY) ROTARY RPM WT. ON BIT 1000' PUMP PRESS PUMP NO. PUMP NO. METHOD RUN																			
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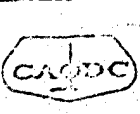
MORNING TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		Garry Worldridge	8 12	DRILLER		J. SANDER	12	DRILLER			
DRKMAN		15-TRACZAK	8 12	DRKMAN		J. FELAND	12	DRKMAN			
MTRMAN		RANDY GUSHOLD	8 12	MTRMAN		D. WITTER	12	MTRMAN			
FIREMAN				FIREMAN				FIREMAN			
FLRMAN		Jim CASHMAN	8 12	FLRMAN		G. SPANAGA	12	FLRMAN			
FLRMAN				FLRMAN				FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											
DAY TOUR 8 A.M. 4 P.M.											
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											
EVENING TOUR P.M. P.M.											
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											



APPROVED



APPROVED

APPROVED
(Rev. Jan. 1/71)

LEGAL LAND DESCRIPTION							WIRE LINE RECORD			REEL NO.
N-18-60-20-118-00-W										4
LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. MD.	SET AT	SIZE	NO. LINES	FT. SLIPPED
	8 5/8"	ST3C	24KS	13	545		541	1"	8	
								FT. CUT OFF		PRESENT LENGTH
								TON MI. OR TRIPS SINCE LAST CUT		
							CUMULATIVE TON MI. OR TRIPS			

DRILLING CREW PAYROLL DATA
DATE 16-2-73
WELL NAME & NO. PACIFIC 3 TACATATHLINA
COMPANY KENTING PETROLIA
TOOL PUSHER N. TOMPINS RIG NO. 9

[illegible][illegible][illegible][illegible][illegible][illegible]

[illegible]

DRILLING CREW PAYROLL DATA

DATE	14-2-73	
WELL NAME & NO.	PACIFIC AMOCO TATLINA	
COMPANY	KENTING PETROLIA	
TOOL PUSHER	N. TOMPKINS	RIG NO. 9

FOOTAGE		DR. D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.		PUMP NO.		MEAS.																																																																						
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FROM	TO																																																																																		
400	615	2 1/4		Circ OPEN END AND W.O.O.																																																																															
615	730	1 1/4		TRIP OUT OF HOLE																																																																															
730	1100	3 1/2		PICK UP 2 D.C.S TRIP IN TO BTM (S)																																																																															
1100	1145	3 1/4		BRR Circ AND CLEAN 30' TO BTM																																																																															
1130	1200	1 1/2		Circ AND Equip mud																																																																															
DRILLER																																																																																			

MORNING TOUR		P.M.		A.M.	
CREW	SOC. SEC. NO.	NAME	HRS.		
DRILLER		C. SANDQUIST	8		
DRKMAN		A. WELLS	8		
MTRMAN		R. THIEL	8		
FIREMAN					
FLRMAN		B. DOMEY	8		
FLRMAN					
FLRMAN					
NO. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT _____					
DAY TOUR		A.M.		P.M.	
CREW	SOC. SEC. NO.	NAME	HRS.		
DRILLER		BARRY WOODBRIDGE	8		
DRKMAN		LEO TOMCZAK	8		
MTRMAN		STAN TOMCZAK	8		
FIREMAN					
FLRMAN		RANDY CRISWOLD	8		
FLRMAN		JIM COCHRAN	8		
FLRMAN					
NO. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT _____					
EVENING TOUR		P.M.		A.M.	
CREW	SOC. SEC. NO.	NAME	HRS.		
DRILLER		J. SANDER	8		
DRKMAN		T. FELAND	8		
MTRMAN		D. WITTER	8		
FIREMAN					
FLRMAN		B. SPRINGER	8		
FLRMAN					
FLRMAN					
NO. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT _____					

LEASE PACIFIC AMOCO TATHINA N-18	WELL NO. N-18-60-20-118-00-W	API WELL NUMBER N-18-60-20-118-00-W	DATE 13-2-73
OPERATOR PACIFIC PETROLEUMS LTD.	CONTRACTOR KENTING PETROLIA		RIG NO. 9
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER	
D.P. SIZE 4 1/2	W.F. FT. 1660	GRADE 3	TOOL JOINT TYPE 5 7/8 FH
STRING NO. 1	PUMP NO. 1	PUMP MANUFACTURER CON' EMSCO	TYPE D-300
STROKE LENGTH 14"			

LEGAL LAND DESCRIPTION N-18-60-20-118-00-W	WIRE LINE RECORD REEL NO. 4
SIZE 8 3/8 ST 3-24KS	NO. LINES 8
WT. & GR. 13 545	FT. CUT OFF 541
NO. JOINTS 13	PRESENT LENGTH
FEET 541	TON AL. OR TRIPS SINCE LAST CUT
REB. TO CSG. NO.	CUMULATIVE TON AL. OR TRIPS
SET AT	

DRILLING CREW PAYROLL DATA

DATE FEB 13, 73

WELL NAME & NO. Pacific Amoco Tathina

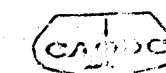
COMPANY Kenting Petrolia

TOOL PUSHER N. TOMPKINS RIG NO. 9

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	WEIGHT
1. RIG UP AND TEAR DOWN					STB RMR	OD	FT. MFG.		9.0
2. DRILL ACTUAL					D.C. ID	OD	FT. TYPE		72
3. REAMING					STB RMR	OD	FT. JETS 1 3/2"		
4. CORING					D.C. ID	OD	FT. SER. NO.		
5. CONDITION MUD & CIRCULATE					STB RMR	OD	FT. DEPTH OUT		10
6. TRIPS							DEPTH IN		
7. LUBRICATE RIG							TOTAL FTG.		
8. REPAIR RIG							TOTAL HRS. RUN		
9. CUT OFF DRILLING LINE					STANDS DP	FT.	COND. 1 1/8" T.B. GAGE		
10. DEVIATION SURVEY					SINGLES DP	FT.	CPM/ PD-PSI		
11. WIRE LINE LOGS					KELLY DOWN	FT.			
12. RUN CASING & CEMENT					TOTAL	FT.			
13. WAIT ON CEMENT					WT. OF STRING	LBS.			
14. MUD PILE UP & C.P.									
15. TEST B.O.P.									
16. DRILL STEM TEST									
17. PLUG BACK									
18. SQUEEZE CEMENT					STB RMR	OD	FT. MFG.		
19. FISHING					D.C. ID	OD	FT. TYPE		
20. DIR. WORK					STB RMR	OD	FT. JET 1 3/2"		
21.					D.C. ID	OD	FT. SER. NO.		
22.					STB RMR	OD	FT. DEPTH OUT		
23.							DEPTH IN		
							TOTAL FTG.		
							TOTAL HRS. RUN		
					STANDS DP	FT.	COND. 1 1/8" T.B. GAGE		
					SINGLES DP	FT.	CPM/ PD-PSI		
					KELLY DOWN	FT.			
					TOTAL	FT.			
					WT. OF STRING	LBS.			
COMPLETION									
A. PERFORATION									
B. TAG TRIPS									
C. TREATING									
D. SWABBING									
E. TESTING									
F. ADDITION									
G.									
TOTALS									
DAY WORK TIME SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.					STB RMR	OD	FT. MFG.		
HRS. W/OPR. D.P.					D.C. ID	OD	FT. TYPE		
HRS. W/D.P.					STB RMR	OD	FT. JETS 1 3/2"		
HRS. STANDBY					D.C. ID	OD	FT. SER. NO.		
					STB RMR	OD	FT. DEPTH OUT		
							DEPTH IN		
							TOTAL FTG.		
							TOTAL HRS. RUN		
					STANDS DP	FT.	COND. 1 1/8" T.B. GAGE		
					SINGLES DP	FT.	CPM/ PD-PSI		
					KELLY DOWN	FT.			
					TOTAL	FT.			
					WT. OF STRING	LBS.			

FOOTAGE		DR. D. RMR. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO							LINE SIZE	S.P.M.	LINE SIZE	S.P.M.
MORNING TOUR											
T.D. @ 4392											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
1200	300	3		Clean out Bridge @ 3600 Ream To 3900 + pick up 18 singles. Circulate + Condition Hole Trip out To log.							
300	600	3 1/2									
600	800	1 1/2									
DAY TOUR											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
8:00	9:30	1 1/2		TRIP TO LOG. LOGGING, RIG OUT LOGGERS W.O.O.							
9:30	3:00	5 1/2		Logged by RAN BHC-6R 2" 539 - 4369							
3:00	4:00	1		5" 3700 - 4369							
EVENING TOUR											
DEVIATION RECORD											
TIME LOG											
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
4:00	5:30	1 1/2		W.O.O. Pick up TEST Tool. AND MAKE UP SPARE							
5:30	7:30	2		TRIP IN DST # 2 (SHOW)							
7:30	10:00	2 1/2		RIG TO TEST							
10:00	11:00	1		TEST							
11:00	12:00	1		DST # 2 11:00 - 4395							

MORNING TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		C. SANDQUIST	8	DRILLER		GARRY WOODRIDGE	8	DRILLER		L. SANDER	18
DRKMAN		A. WELLS	8	DRKMAN		LEO TOMCZAK	8	DRKMAN		J. FELAND	8
MTRMAN		R. THIEL	8	MTRMAN		RANDY CHISHOLM	8	MTRMAN		D. WITTER	8
FIREMAN				FIREMAN				FIREMAN			
FLRMAN		B. DOMEY	8	FLRMAN				FLRMAN		B. SPANAGRA	8
FLRMAN				FLRMAN				FLRMAN			
FLRMAN				FLRMAN				FLRMAN			
NO. OF DAYS											
SINCE LAST LOST TIME ACCIDENT											
DAY TOUR											
8 A.M.											
4 P.M.											
NO. OF DAYS											
SINCE LAST LOST TIME ACCIDENT											
EVENING TOUR											
4 P.M.											
12 P.M.											
NO. OF DAYS											
SINCE LAST LOST TIME ACCIDENT											



DAILY DRILLING REPORT

REPORT NO.

LEASE PACIFIC AMSCA TATHLINA N-18	WELL NO. N-18-60-20-118-00W	API WELL NUMBER N-18-60-20-118-00W	DATE 12-2-73
OPERATOR PACIFIC PETROLEUMS LTD	CONTRACTOR KENTING PETROLIA		RIG NO. 9
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>	
D.P. SIZE 4 3/4	WT. FT. 1660	GRADE 3	TOOL JT. OD 5 7/8
TYPE THREAD F.H.	STRING NO. 1	PUMP NO. 1	PUMP MANUFACTURER CONO EMSCO
TYPE D-300		STROKE LENGTH 14	

LEGAL LAND DESCRIPTION

SIZE 8 3/4	MAKE ST3C	WT. & GR. 24K513	NO. JOINTS 545	FEET 541	SET AT 541
WIRE LINE RECORD REEL NO. 4			NO. LINES 8		
FT. CUT OFF			PRESENT LENGTH		
TOMAL OR TRIPS SINCE LAST CUT			CUMULATIVE TOMAL OR TRIPS		

DRILLING CREW PAYROLL DATA

DATE 12-2-73	WELL NAME & NO. PACIFIC AMSCA TATHLINA
COMPANY Kenting Petrolia	TOOL PUSHER N. Tompkins
RIG NO. 9	

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	BIT	FT.	BIT NO.	SIZE	TIME	WEIGHT
1. RIG UP AND TEAR DOWN				STB RMR	OD	FT.	HFG		9.0
2. DRILL ACTUAL				D.C. ID	OD	FT.	TYPE	VISC-SEC	68
3. REAMING				STB RMR	OD	FT.	JETS 1 3/2"	PV/YP	1
4. CORING				D.C. ID	OD	FT.	SER. NO.	GELS	1
5. CONDITION MUD & CIRCULATE				STB RMR	OD	FT.	DEPTH OUT	WL-CC'S	8
6. TRIPS							DEPTH IN	pH	10
7. LUBRICATE RIG							TOTAL FTG.	SOLIDS %	
8. REPAIR RIG							TOTAL HRS. RUN		
9. CUT OFF DRILLING LINE				STANDS DP	FT.	COND. 1 1/8" T.B. GAGE		MUD & CHEMICALS ADDED	
10. DEVIATION SURVEY				SINGLES DP	FT.	CPM/ PD-PSI		TYPE	AMT.
11. WIRE LINE LOGS				KELLY DOWN	FT.				
12. RUN CASING & CEMENT				TOTAL	FT.				
13. WAIT ON CEMENT				WT. OF STRING	LBS.				
14. NIPPLE UP B.O.P.									
15. TEST B.O.P.									
16. DRILL STEM TEST									
17. PLUG BACK									
18. SQUEEZE CEMENT									
19. FISHING									
20. DIR. WORK									
21.									
22.									
23.									
COMPLETION									
A. PERFR'TH									
B. TBG TRIPS									
C. TREATING									
D. SHABBING									
E. TESTING									
F. ADDIT'NL									
G.									
TOTALS									
DAY WORK TIME SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. W/O D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
NO. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

FOOTAGE		DR. D. RMR-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO								LINER SIZE	S.P.M.	LINER SIZE	S.P.M.
DEVIATION RECORD												
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
1200	1230	1/2		Rig To log								
1230	400	3 1/2		Logging - @ 3583								
400	430	1/2		Tear out loggers								
430	800	3 1/2		Make clean out trip								
DRILLER												
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT												
DAY TOUR												
FOOTAGE		DR. D. RMR-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO								LINER SIZE	S.P.M.	LINER SIZE	S.P.M.
DEVIATION RECORD												
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
800	830			RIG SERVICE AND BOP. V OK								
830	1100			TRIP IN TO BRIDGE. 3600'								
1100	100			REPAIR OUT 700' TIGHT HOLE								
100	230			CIRCOHOLE CLEAN.								
230	400			TRIP OUT TO LOG								
DRILLER												
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT												
EVENING TOUR												
FOOTAGE		DR. D. RMR-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO								LINER SIZE	S.P.M.	LINER SIZE	S.P.M.
DEVIATION RECORD												
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
400	530	1 1/2		TRIP OUT TO LOG								
530	930	4		RIG TO P.D. LOG ATTEMPT HEAD UP								
930	945	1 1/2		RIG OUT LOGGERS								
945	1200	2 1/4		TRIP IN TO 3600 CLEAN OUT BRIDGES								
DRILLER												
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT												

MORNING TOUR				P.M.				A.M.				
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	
DRILLER		C. SANDQUIST	8	DRILLER		GARY WOODBRIDGE	8	DRILLER		L. SPANBER	8	
DRKMAN		A. WELLS	8	DRKMAN		LEO TOMCZAK	8	DRKMAN		T. F. LAND	8	
MTRMAN		R. THIEL	8	MTRMAN		STAN TOMCZAK	8	MTRMAN		D. WITTE	8	
FIREMAN				FIREMAN				FIREMAN				
FLRMAN		B. DOMEY	8	FLRMAN		RANDY CHISHOLM	8	FLRMAN		G. SPANBER	8	
FLRMAN				FLRMAN				FLRMAN				
FLRMAN				FLRMAN				FLRMAN				
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT												
EVENING TOUR												
FOOTAGE		DR. D. RMR-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO								LINER SIZE	S.P.M.	LINER SIZE	S.P.M.
DEVIATION RECORD												
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
400	530	1 1/2		TRIP OUT TO LOG								
530	930	4		RIG TO P.D. LOG ATTEMPT HEAD UP								
930	945	1 1/2		RIG OUT LOGGERS								
945	1200	2 1/4		TRIP IN TO 3600 CLEAN OUT BRIDGES								
DRILLER												
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT												

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM



APPROVED



APPROVED

APPROVED
(Rev. Jan. 1/73)

LEASE PACIFIC AMOCO TATHLINA	WELL NO. N-18	API WELL NUMBER N-18-60-20-118-00-W	DATE 2-11-73
OPERATOR PACIFIC PETROLEUMS LTD	CONTRACTOR KENTING PETROLIA		RIG NO. 9
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER	
D.P. SIZE 4 1/2	WT./FT. 16.60	GRADE 3	TOOL JO. Q.D. 578 FH
TYPE THREAD 1	STRING NO. 1	PUMP NO. 1	PUMP MANUFACTURER CONT EMSCO
TYPE D-300	STROKE LENGTH 14"		

LEGAL LAND DESCRIPTION N-18-60-20-118-00-W	WIRE LINE RECORD REEL NO. 4
SIZE 8 3/8"	MAKE ST3C24KS
WT. & GR. 13	NO. JOINTS 545
FEET 541	RKS. TO C.G. NO.
SET AT	NO. LINES 8
FT. CUT OFF	PRESENT LENGTH
TON IN. OR TRIPS SINCE LAST CUT	
CUMULATIVE TON IN. OR TRIPS	

DRILLING CREW PAYROLL DATA

DATE 2-11-73

WELL NAME & NO. PACIFIC AMOCO TATHLINA

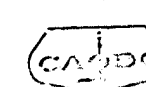
COMPANY Kenting Petrolia

TOOL PUSHER N. TOMPKINS RIG NO. 9

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	WEIGHT
1.	RIG UP AND TEAR DOWN				STB RMR	OD	FT. MFG.	4. W	
2.	DRILL ACTUAL				D.C. ID	OD	FT. TYPE	5-7	
3.	REAMING				STB RMR	OD	FT. JETS 1/32"	161616	
4.	CORING				D.C. ID	OD	FT. SER. NO.	48784	
5.	CONDITION MUD & CIRCULATE				STB RMR	OD	FT. DEPTH OUT	4393	
6.	TRIPS				19% Sub	1.20	DEPTH IN	4284	
7.	LUBRICATE RIG						TOTAL FTG.	108	
8.	REPAIR RIG						TOTAL HRS. RUN	13 1/2	
9.	CUT OFF DRILLING LINE				STANDS DP	3754.41	COND. 1/8" T.B. GAGE		
10.	DEVIATION SURVEY				SINGLES DP		GPM/ PD-PSI		
11.	WIRE LINE LOGS				KELLY DOWN	38.39			
12.	RUN CASING & CEMENT				TOTAL	4392			
13.	WAIT ON CEMENT				WT. OF STRING	100.000			
14.	WIPPLE UP B.O.P.								
15.	TEST B.O.P.								
16.	DRILL STEM TEST								
17.	PLUG BACK								
18.	SQUEEZE CEMENT								
19.	FISHING								
20.	DIR. WORK								
21.									
22.									
23.									
COMPLETION				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
A.	PERF'TN				BIT	FT.	BIT NO.	TIME	WEIGHT
B.	TBC TRIPS				STB RMR	OD	FT. MFG.	4. W	
C.	TREATING				D.C. ID	OD	FT. TYPE	5-7	
D.	SWABBING				STB RMR	OD	FT. JETS 1/32"	161616	
E.	TESTING				D.C. ID	OD	FT. SER. NO.	48784	
F.	ADDITIONAL				STB RMR	OD	FT. DEPTH OUT	4393	
G.					19% Sub	1.20	DEPTH IN	4284	
TOTALS									
DAY WORK TIME SUMMARY (OFFICE USE ONLY)									
HRS. W/ CONTR. D.P.								700	
HRS. W/ OPER. D.P.								90	
HRS. W/ O.P.								68	
HRS. STANDBY								08	
TOTAL DAY WORK								10	
NO. OF DAYS FROM LOG									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST								C.M.C. - 100	

FOOTAGE		DR. D. R.M.R. CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO			DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
DEVIATION RECORD												
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
1200	800	8		Work Stock pipe + wait on oil.								
FOOTAGE												
FROM	TO	DR. D. R.M.R. CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
800	330	7 1/2		WAIT ON OIL + WORK PIPE								
330	1100	2		DISPLACE OIL								
DEVIATION RECORD												
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
400	415			DISPLACE OIL								
400	500	3 1/4		WORK PIPE 1 R.L.								
500	800	3 1/4		CIRC AND CONDITION MUD.								
800	815	1/4		Survey @ 4392								
815	1130	3 1/4		STrap out to log.								
1130	1200	2 1/2		R10 To log.								
FOOTAGE												
FROM	TO	DR. D. R.M.R. CORE C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000 #	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
400	415			DISPLACE OIL								
400	500	3 1/4		WORK PIPE 1 R.L.								
500	800	3 1/4		CIRC AND CONDITION MUD.								
800	815	1/4		Survey @ 4392								
815	1130	3 1/4		STrap out to log.								
1130	1200	2 1/2		R10 To log.								
DEVIATION RECORD												
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
400	415			DISPLACE OIL								
400	500	3 1/4		WORK PIPE 1 R.L.								
500	800	3 1/4		CIRC AND CONDITION MUD.								
800	815	1/4		Survey @ 4392								
815	1130	3 1/4		STrap out to log.								
1130	1200	2 1/2		R10 To log.								

MORNING TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		C. SANDQUIST	12	DRILLER		GARRY WOOLDRIDGE	12	DRILLER			
DRKMAN		A. WELLS	12	DRKMAN		LEO TOMCZAK	13	DRKMAN			
MTRMAN		R. THIEL	12	MTRMAN		STAN TOMCZAK	12	MTRMAN			
FIREMAN				FIREMAN				FIREMAN			
FLRMAN		B. DOMEY	12	FLRMAN		RANDY CRISWELL	12	FLRMAN			
FLRMAN				FLRMAN				FLRMAN			
FLRMAN				FLRMAN				FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											
DAY TOUR				P.M.				P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		GARRY WOOLDRIDGE	12	DRILLER				DRILLER			
DRKMAN		LEO TOMCZAK	13	DRKMAN				DRKMAN			
MTRMAN		STAN TOMCZAK	12	MTRMAN				MTRMAN			
FIREMAN				FIREMAN				FIREMAN			
FLRMAN				FLRMAN				FLRMAN			
FLRMAN				FLRMAN				FLRMAN			
FLRMAN				FLRMAN				FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											
EVENING TOUR				P.M.				P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER				DRILLER				DRILLER			
DRKMAN				DRKMAN				DRKMAN			
MTRMAN				MTRMAN				MTRMAN			
FIREMAN				FIREMAN				FIREMAN			
FLRMAN				FLRMAN				FLRMAN			
FLRMAN				FLRMAN				FLRMAN			
FLRMAN				FLRMAN				FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											



LEGAL LAND DESCRIPTION								WIRE LINE RECORD			REEL NO.
LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. NO.	SET AT	SIZE	NO. LINES	FT. SLIPPED	
	8 5/8	ST3C	24 K5	13	545		541	7"	8		
								FT. CUT OFF	PRESENT LENGTH		
								TON ML. OR TRIPS SINCE LAST CUT			
								CUMULATIVE TON ML. OR TRIPS			

TOOL PUSHER N. T. R. Kins RIG NO. 9

[illegible]

MORNING TOUR	P.M.	A.M.	
Crew	Soc. Sec. No.	Name	Hrs.
DRILLER	.	C. SANDQUIST	8 12
DRKMAN	.	A. WELLS	8 12
MTRMAN	.	R. PHIEL	8 12
FIREMAN	.		6
FLRMAN	.	B. DOMEY	8 12
FLRMAN	.		
FLRMAN	.		
	.		
	.		
	.		
	.		
	.		
	.		
	.		
No. of Days	SINCE LAST LOST TIME ACCIDENT		

[illegible][illegible][illegible][illegible]

DAILY DRILLING REPORT REPORT NO.

LEASE	WELL NO.	API WELL NUMBER	DATE						
PACIFIC AMOCO TATHLINA	N18	N18-60-20-118-00-W	2-9-73						
OPERATOR	CONTRACTOR	RIG NO.							
Pacific Petroleum Co. LTD.	KENTING PETROLIA	9							
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER							
<i>[Signature]</i>		<i>[Signature]</i>							
D.P. SIZE	WT. FT.	GRADE	TOOL JT. CLD.	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4 1/2	16.0	3	5 3/8	F.H.	1	1	CONT 6msco	D-300	14

LEGAL LAND DESCRIPTION		WIRE LINE RECORD							
N18-60-20-118-00-W		REEL NO. 4							
SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. NO.	SET AT	SIZE	NO. LINES	FT. SLIPPED
8 3/8 ST 2 1/2	15	13	545	541					
LAST CASING TUBING OR LINER					TON MI. OR TRIPS SINCE LAST CUT				
					CUMULATIVE TON MI. OR TRIPS				

DRILLING CREW PAYROLL DATA

DATE 2-9-73

WELL NAME & NO. PACIFIC AMOCO TATHLINA

COMPANY KENTING PETROLIA

TOOL PUSHER N. Tompkins

RIG NO. 9

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	NO.	DRILLING ASSEMBLY	BIT NO.	FT.	TIME	WEIGHT	PRESSURE GRADIENT
1	RIG UP AND TEAR DOWN										
2	DRILL ACTUAL	6 1/4	1 1/4								
3	REAMING	3 1/4									
4	CORING										
5	CONDITION MUD & CIRCULATE										
6	TRIPS	3 1/4	1 1/4								
7	LUBRICATE RIG										
8	REPAIR RIG										
9	CUT OFF DRILLING LINE										
10	DEVIATION SURVEY	1 1/4	1 1/4								
11	WIRE LINE LOGS										
12	RUN CASING & CEMENT										
13	WAIT ON CEMENT										
14	MIDDLE UP B.O.P.										
15	TEST B.O.P.										
16	DRILL STEM TEST										
17	PLUG BACK										
18	SQUEEZE CEMENT										
19	FISHING										
20	DIR. WORK										
21											
22											
23											
COMPLETION											
A	PERF'RM										
B	TBG TRIPS										
C	TREATING										
D	SWABBING										
E	TESTING										
F	ADDITIONAL										
G											
TOTALS				8 8							
DAY WORK TIME SUMMARY (OFFICE USE ONLY)											
HRS. W/CONTR. D.P.											
HRS. W/OPR. D.P.											
HRS. W/D.P.											
HRS. STANDBY											
TOTAL DAY WORK											
NO. OF DAYS FROM SPUD											
CUMULATIVE ROTATING HRS.											
TOTAL MUD COST											

FOOTAGE		DR. D. RM. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN	
FROM	TO										
4136	4184		D		80	2050	700	5 1/2	60	5	
DEVIATION RECORD											
DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
4184		11°									
TIME LOG											
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
1200	1215	15	3/4	FINISH TRIP IN BIT # 8							
1245	130	15	3/4	BRR EIRE AND CLEAN 15' TO BTM							
130	730	6		DRLG.							
730	745	15	1/4	Survey @ 4184							
745	800	15	1/4	DRLG.							
FOOTAGE											
FROM	TO	DR. D. RM. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN	
4184	4260		4260		70	30	700	5 1/2	60		
DEVIATION RECORD											
DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
4213		10°									
TIME LOG											
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
800	1000	2		DRLG.							
1000	1030	30	1/2	Survey @ 4213 Rig Service + BOP ✓							
1030	130	3		DRLG.							
130	145	15	1/4	Survey @ 4243							
145	420	25	1/4	DRLG.							
FOOTAGE											
FROM	TO	DR. D. RM. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN	
4260	4284										
DEVIATION RECORD											
DEPTH		DEV.		DIRECTION		DEPTH		DEV.		DIRECTION	
4273		10°									
TIME LOG											
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
400	500	1		DRILL							
500	515	15	1/4	SURVEY							
515	815	3		DRILL							
815	1045	23		PULL BIT # 8							
1045	1200	15	1/4	TRIP IN BIT # 9							

MORNING TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		J. SANDER	8								
DRKMAN		I. FELAND	8								
MTRMAN		D. WITTER	8								
FIREMAN											
FLRMAN		B. SARMACA	8								
FLRMAN											
FLRMAN											
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											
DAY TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		C. SANDOQUIST	8								
DRKMAN		A. WELLS	8								
MTRMAN		R. THIEL	8								
FIREMAN											
FLRMAN		B. DOMEY	8								
FLRMAN											
FLRMAN											
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											
EVENING TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		GABAY VOOLEDRIKES	8								
DRKMAN		LEO TOMCZAK	8								
MTRMAN		STAN TOMCZAK	8								
FIREMAN											
FLRMAN		RANDY CHISHOLM	8								
FLRMAN											
FLRMAN											
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

DAILY DRILLING REPORT

REPORT NO.

LEASE	WELL NO.	API WELL NUMBER	DATE						
PACIFIC AMOCO TATHLINA	N18	N18-60-20-118-00-W	2-8-73						
OPERATOR	CONTRACTOR	RIG NO.							
PACIFIC PETROLEUMS LTD.	KENTING PETROLIA	9							
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER							
<i>[Signature]</i>		<i>[Signature]</i>							
O.P. SIZE	WT. OF	GRADE	TOOL JOINT	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4 1/2	16.60	3	5 7/8	F.H.	1	1	Cent Emco	D-300	14

LEGAL LAND DESCRIPTION N18-60-20-118-00-W

WIRE LINE RECORD REEL NO. 4

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RHS. TO CSG. HD.	SET AT	SIZE	NO. LINES	FT. SLIPPED
8 5/8	ST3024K5	13	545	541			1	8	
FT. CUT OFF							PRESENT LENGTH		
TOM. M. OR TRIPS SINCE LAST CUT							CUMULATIVE TOM. M. OR TRIPS		

DRILLING CREW PAYROLL DATA

DATE 2-8-73

WELL NAME & NO. PACIFIC PETRO TATHLINA N18

COMPANY KENTING PETROLIA

TOOL PUSHER N. Tompkins

RIS NO. 9

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	NO.	DRILLING ASSEMBLY	BIT	FT.	BIT NO.	TIME	WEIGHT
1. KIG UP AND TEAR DOWN											
2. DRILL ACTUAL		7									
3. REAMING											
4. CORING											
5. CONDITION MUD & CIRCULATE											
6. TRIPS											
7. LUBRICATE RIG		1/4									
8. REPAIR RIG											
9. CUT OFF DRILLING LINE											
10. DEVIATION SURVEY		1/2									
11. WIRE LINE LOGS											
12. RUN CASING & CEMENT											
13. WAIT ON CEMENT											
14. NIPPLE UP B.O.P.											
15. TEST B.O.P.											
16. DRILL SYM TEST											
17. PLUG BACK											
18. SQUEEZE CEMENT											
19. FISHING											
20. DIR. WORK											
21. Back pump		1/4									
22.											
COMPLETION											
A. PERF'RTM											
B. TBG TRIPS											
C. TREATING											
D. SWABBING											
E. TESTING											
F. ADDIT'NL											
G.											
TOTALS											
DAY WORK TIME SUMMARY (OFFICE USE ONLY)											
HRS. W/CONTR. D.P.											
HRS. W/OPR. D.P.											
HRS. W/O.D.P.											
HRS. STANDBY											
TOTAL DAY WORK											
NO. OF DAYS FROM LUPD											
CUMULATIVE ROTATING HRS.											
TOTAL MUD COST											

FOOTAGE		DR. D. RM. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN
FROM	TO									
3991	403-1	D			80	20	700	5 1/2	60	5
DEVIATION RECORD										
DEPTH										
DEVIATION										
DIRECTION										
DEPTH										
DEVIATION										
DIRECTION										
TIME LOG										
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
1200	1230	1/2		RIG SERVICE AND B.O.P. CHECK O.K.						
1230	100	1/2		CHECK PUMP Suction						
100	230	1 1/2		BRIEVE AND CLEAN 75' TO BIT						
230	800	5 1/2		DRIC						
FOOTAGE										
FROM	TO	DR. D. RM. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN
4034	4116				80	25	700	5 1/2	60	
DEVIATION RECORD										
DEPTH										
DEVIATION										
DIRECTION										
DEPTH										
DEVIATION										
DIRECTION										
TIME LOG										
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
800	830	1/2		Survey @ 4034, Rig Service + BOP, Check						
830	1045	2 1/4		DRIC						
1045	1100	1/4		Survey @ 4063						
1100	130	3 1/2		DRIC						
130	245	1 1/4		Check pump						
245	460	1 1/4		DRIC						
FOOTAGE										
FROM	TO	DR. D. RM. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN
4116	4136									
DEVIATION RECORD										
DEPTH										
DEVIATION										
DIRECTION										
DEPTH										
DEVIATION										
DIRECTION										
TIME LOG										
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
400	420	2		DRILL						
420	445	4		SURVEY						
445	745	3		DRILL						
745	1000	2 1/4		TRIP OUT BIT #7						
1000	1200	2		TRIP IN BIT #8						
1200	1200	0								

MORNING TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		L. SANDER	8								
DRKMAN		I. FELAND	8								
MTRMAN		D. WITTER	8								
FIREMAN											
FLRMAN		E. SPARMAGA	8								
FLRMAN											
FLRMAN											
NO. OF DAYS											
SINCE LAST LOST TIME ACCIDENT											
DAY TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		C. SANDQUIST	8								
DRKMAN		A. WELLS	8								
MTRMAN		R. THIEL	8								
FIREMAN											
FLRMAN		B. DOMEX	8								
FLRMAN		F. MONETTE	8								
FLRMAN											
NO. OF DAYS											
SINCE LAST LOST TIME ACCIDENT											
EVENING TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		GARRY WOODBRIDGE	8								
DRKMAN		LEO TOMCZAK	8								
MTRMAN		STAN TOMCZAK	8								
FIREMAN											
FLRMAN											
FLRMAN											
FLRMAN											
NO. OF DAYS											
SINCE LAST LOST TIME ACCIDENT											

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM



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(Rev. Jan. 1973)

LEASE			WELL NO.			API WELL NUMBER			DATE		
PACIFIC AMOCO TATHLINE			N18			N18-60-20-118-00-W			2-7-73		
OPERATOR						CONTRACTOR					
PACIFIC AMOCO PETROLEUM LTD						KENTING PETROLIA					
SIGNATURE OF OPERATOR'S REPRESENTATIVE						SIGNATURE OF CONTRACTOR'S TOOL PUSHER					
D.P. SIZE		WT./FT.	GRADE	TOOL JT Q.D.	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER		TYPE	STROKE LENGTH
4 1/2		16.6	3	5 7/8	F.H	1	1	CONT EMSCO		D-300	14

LEGAL LAND DESCRIPTION							WIRE LINE RECORD			REEL NO.
LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. H.T.	SET AT	SIZE	NO. LINES	FT. SLIPPED
	8 5/8	STC	24 KS	13	345		341	1	8	
								FT. CUT OFF	PRESENT LENGTH	
								TON ML. OR TRIPS SINCE LAST CUT	5	
								CUMULATIVE TON ML. OR TRIPS		

DRILLING CREW PAYROLL DATA

DATE 2-7-73

WELL NAME & NO. PACIFIC AMCO T-1 HILINA

COMPANY KENTING PETROLEUM

TOOL PUSHER N. Thompson RIG NO. 9

TIME DISTRIBUTION - HOURS					NO.		DRILLING ASSEMBLY (At end of hour)		BIT RECORD				MUD RECORD			
CODE NO.	- OPERATION	MORN.	DAY	EVE.			BIT	FT.	BIT NO.	6			TIME	12 ³⁰		
1.	RIG UP AND TEAR DOWN								SIZE	7 7/8			WEIGHT	9.0		
2.	DRILL ACTUAL						STB RMR	OD	MFG.	SEC			PRESSURE GRADIENT			
3.	REAMING				21		D.C. ID	OD	TYPE	Dm J			VISC.-SEC.	67		
4.	CORING						STB RMR	OD	FT.	JETS 1 32"			PV-Y.P	1		
5.	CONDITION MUD & CIRCULATE						D.C. ID	OD	FT.	SER. NO.	913561		GELS	2 3/2		
6.	TRIPS						STB RMR	OD	FT.	DEPTH OUT	3971		WL -CC'S	12		
7.	LUBRICATE RIG								DEPTH IN	3821			pH	8.8		
8.	REPAIR RIG								TOTAL F.T.C.	170			SOLIDS %			
9.	CUT OFF DRILLING LINE								TOTAL HRS. RUN	23						
10.	DEVIATION SURVEY						STANDS DP	FT.	COND. 1/8" & 1/8" GAGE	68 1			MUD & CHEMICALS ADDED			
11.	WIRE LINE LOGS						SINGLES DP	FT.	CPW PD-PSI	1			TYPE	AMT.	TYPE	AMT.
12.	RUN CASING & CEMENT						KELLY DOWN	FT.					GEL # 1000.			
13.	WAIT ON CEMENT						TOTAL	FT.								
							WT. OF STRING	LBS.								

[illegible][illegible][illegible][illegible][illegible]

G.		NO.		DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD			
TOTALS		8		BIT		FT. BIT NO.		TIME			
DAY WORK TIME SUMMARY (OFFICE USE ONLY)				SYB RMR OD		SIZE		WEIGHT			
MRS. W/CONTR. D.P.				D.C. ID		H. W		PRESSURE GRADIENT			
MRS. W/OPR. D.P.				SYB RMR OD		FT. TYPE		VISC-SEC			
MRS. WO D.P.				D.C. ID		FT. JETS 1/2"		PV/YP			
MRS. STANDBY				SYB RMR OD		FT. SER. NO.		GELS			
						FT. DEPTH OUT		M. CCS			
						DEPTH IN		pH			
						TOTAL FTG.		SOLIDS %			
						TOTAL MRS. RUN					
TOTAL DAY WORK				STANDS DP		FT. CONO. 1 8" S. B. GAGE		MUD & CHEMICALS ADDED			
				SINGLES DP		FT. GPM. PD. PSI		TYPE		AMT.	
				KELLY DOWN		FT.		TYPE		AMT.	
				TOTAL		FT.					
NO. OF DAYS FROM SPUD				WT. OF STRING		LBS.					
CUMULATIVE ROTATING MRS.											
TOTAL MUD COST											

[illegible]

EVENING TOUR			P.M.	P.M.
CREW	SOC. SEC. NO.	NAME	HRS.	
DRILLER		CARRY WOOLDRIDGE	8	
DRKMAN		LEO TOMCZAK	8	
WTRMAN		STAN TOMCZAK	8	
FIREMAN				
FLRMAN		RANDY CHISHOLM	8	
FLRMAN				
FLRMAN				

NO. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT

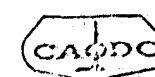


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A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM



APPROVED
(Rev. Jan. 1/71)

DAILY DRILLING REPORT

REPORT NO.

LEASE	WELL NO.	API WELL NUMBER	DATE
PACIFIC AMOCO TATHLINA	U18	U18-60-20-118-00-W	2-6-73
OPERATOR	CONTRACTOR	RIG NO.	
PACIFIC PETROLEUMS LTD.	KENTING PETROLIA	9	
SIGNATURE OF OPERATOR'S REPRESENTATIVE			
SIGNATURE OF CONTRACTOR'S TOOL PUSHER			
D.P. SIZE	WT./FT.	GRADE	TOOL JT. Q.D.
4 1/2	16.60	3	5 7/8 F.H.
TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER
1	1	1	CONT Emsco
TYPE	STROKE LENGTH		
D-300	14		

LEGAL LAND DESCRIPTION	WIRE LINE RECORD	REEL NO.
U18-60-20-118-00-W	NO. LINES	4
SIZE	MAKE	WT. & GR.
8 3/8	STC	24KS
NO. JOINTS	FEET	RKB. TO CSG. NO.
13	545	541
SET AT	FT. CUT OFF	PRESENT LENGTH
LAST CASING TUBING OR LINER	TON. HL. OR TRIPS SINCE LAST CUT	CUMULATIVE TONAL OR TRIPS

DRILLING CREW PAYROLL DATA

DATE 2-6-73
WELL NAME & NO. PACIFIC PETROLEUMS LTD. U18
COMPANY KENTING PETROLIA
TOOL PUSHER N. Tompkins RIG NO. 9

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	BIT	FT.	BIT NO.	TIME	WEIGHT	PRESSURE GRADIENT
1	RIG UP AND TEAR DOWN								
2	DRILL ACTUAL	7 1/2	7 1/2						
3	REAMING								
4	CORING								
5	CONDITION MUD & CIRCULATE								
6	TRIPS								
7	LUBRICATE RIG	1/4							
8	REPAIR RIG								
9	CUT OFF DRILLING LINE								
10	DEVIATION SURVEY	1/2	1/2						
11	WIRE LINE LOGS								
12	RUN CASING & CEMENT								
13	WAIT ON CEMENT								
14	HI-PPLE UP B.G.P.								
15	TEST B.C.P.								
16	DRILL STEM TEST								
17	PLUG BACK								
18	SQUEEZE CEMENT								
19	FISHING								
20	DIR. WORK								
21									
22									
23									
A. PERF'TM				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
B. TBC TRIPS									
C. TREATING									
D. SWABBING									
E. TESTING									
F. ADDIT'L									
G.									
TOTALS				8					
DAY WORK TIME SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. W/O D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
NO. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

FOOTAGE		DR. D. R.M.R. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN
FROM	TO									
3841	3900	0			90	35	600	5 1/2	60	
DEVIATION RECORD										
DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
3854		7		3885	7					
TIME LOG										
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
12:00	12:45	3/4		DRLG						
12:45	1:00	1/4		SURVEY @ 3854						
1:00	4:00	3		DRLG						
4:00	4:15	1/4		SURVEY @ 3885						
4:15	8:00	3 3/4		DRLG						
FOOTAGE										
FROM	TO	DR. D. R.M.R. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN
3900	3950				90	35	600	5 1/2	60	
DEVIATION RECORD										
DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
3905		6 1/2		3936	MISSING					
TIME LOG										
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
8:00	8:30	1/2		DRLG						
8:30	9:00	1/2		SURVEY @ 3905 + Rig Service						
9:00	1:00	4		DRLG						
1:00	1:15	1/4		SURVEY @ 3936						
1:15	4:00	2 3/4		DRLG						
FOOTAGE										
FROM	TO	DR. D. R.M.R. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN
3950	3991				90	35	600	5 1/2	60	
DEVIATION RECORD										
DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
41:25		5:00		5:00						
TIME LOG										
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
11:25	5:00	1		DRILL						
5:00	5:15	1/4		CLEAN SUCTION IN PUMP						
5:15	9:30	4 1/4		DRILL TO TEST POINT 3991						
9:30	1:00	2 3/4		CIRC - CONDITION MUD						
1:00	1:30	1/2		DUMMY TRIP						
FOOTAGE										
FROM	TO	DR. D. R.M.R. CORE. C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN
3991	4000				90	35	600	5 1/2	60	
DEVIATION RECORD										
DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
4000				4000						
TIME LOG										
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
11:25	5:00	1		DRILL						
5:00	5:15	1/4		CLEAN SUCTION IN PUMP						
5:15	9:30	4 1/4		DRILL TO TEST POINT 3991						
9:30	1:00	2 3/4		CIRC - CONDITION MUD						
1:00	1:30	1/2		DUMMY TRIP						

MORNING TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		J. SANDER	8	DRILLER		J. SANDER	8	DRILLER		J. SANDER	8
DRKMAN		J. SANDER	8	DRKMAN		J. SANDER	8	DRKMAN		J. SANDER	8
MTRMAN		J. SANDER	8	MTRMAN		J. SANDER	8	MTRMAN		J. SANDER	8
FIREMAN		J. SANDER	8	FIREMAN		J. SANDER	8	FIREMAN		J. SANDER	8
FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8
FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8
FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8
NO. OF DAYS											
SINCE LAST ACCIDENT											
DAY TOUR											
A.M.											
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		J. SANDER	8	DRILLER		J. SANDER	8	DRILLER		J. SANDER	8
DRKMAN		J. SANDER	8	DRKMAN		J. SANDER	8	DRKMAN		J. SANDER	8
MTRMAN		J. SANDER	8	MTRMAN		J. SANDER	8	MTRMAN		J. SANDER	8
FIREMAN		J. SANDER	8	FIREMAN		J. SANDER	8	FIREMAN		J. SANDER	8
FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8
FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8
FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8
NO. OF DAYS											
SINCE LAST ACCIDENT											
EVENING TOUR											
P.M.											
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		J. SANDER	8	DRILLER		J. SANDER	8	DRILLER		J. SANDER	8
DRKMAN		J. SANDER	8	DRKMAN		J. SANDER	8	DRKMAN		J. SANDER	8
MTRMAN		J. SANDER	8	MTRMAN		J. SANDER	8	MTRMAN		J. SANDER	8
FIREMAN		J. SANDER	8	FIREMAN		J. SANDER	8	FIREMAN		J. SANDER	8
FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8
FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8
FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8	FLRMAN		J. SANDER	8
NO. OF DAYS											
SINCE LAST ACCIDENT											

A.A.O.D.C.-A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

LEASE	WELL NO.	API WELL NUMBER	DATE
PACIFIC AMOCO TATHANA N 18	N 18-60-20-118-00-W	2-5-72	
OPERATOR	CONTRACTOR	RIG NO.	
PACIFIC AMOCO LTD	KENTING PETROLIA	9	
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER	
<i>[Signature]</i>		<i>[Signature]</i>	
D.P. SIZE	WT. OF PUMP	GRADE	TOOL JOINT
4 1/2	16.00	3	5 7/8
TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER
EH	1	1	CONT Emsco
TYPE	STROKE LENGTH		
D-300	14		

LEGAL LAND DESCRIPTION	WIRE LINE RECORD	REEL NO.
N 18-60-20-118-00-W	SIZE 1	NO. LINES 8
LAST CASING TUBING OR LINER	FT. CUT OFF	PRESENT LENGTH
8 5/8 STRECHAKS 13 5/45	541	
TON MI. OR TRIPS SINCE LAST CUT	4	
CUMULATIVE TON MI. OR TRIPS		

DRILLING CREW PAYROLL

DATE 2-5-73

WELL NAME & NO. PACIFIC AMOCO TATHANA

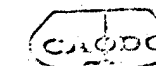
COMPANY KENTING PETROLIA

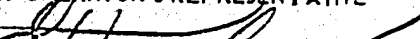
TOOL PUSHER N. T. RIG NO. 9

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	12.00
1	RIG UP AND TEAR DOWN								4.00
2	DRILL ACTUAL	6 1/2							9.0
3	REAMING								9.0
4	CORING								9.0
5	CONDITION MUD & CIRCULATE								
6	TRIPS								
7	LUBRICATE RIG	1/4							
8	REPAIR RIG								
9	CUT OFF DRILLING LINE								
10	DEVIATION SURVEY	1/4							
11	WIRE LINE LOGS								
12	RUN CASING & CEMENT								
13	WAIT ON CEMENT								
14	NIPPLE UP B.C.P.								
15	TEST B.O.P.								
16	DRILL STEM TEST								
17	PLUG BACK								
18	SQUEEZE CEMENT								
19	FISHING								
20	DIR. WORK								
21									
22									
23									
COMPLETION				NO. DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
A	PERF'RT'N								
B	TBC TRIPS								
C	TREATING								
D	SWABING								
E	TESTING								
F	ADDITIONAL								
G									
TOTALS				NO. DRILLING ASSEMBLY		BIT RECORD		MUD RECORD	
DAY WORK TIME SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. W/O D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
NO. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

FOOTAGE		DR. D. R. M. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN
FROM	TO									
3760	3791	D			150	5	1000	5 1/2	60	5
DEVIATION RECORD										
DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
3791		7°								
TIME LOG										
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
1200	145	6 3/4		DRIG.						
645	700	1/1		Survey @ 3790						
700	800	1		DRIG.						
FOOTAGE										
FROM	TO	DR. D. R. M. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN
3791	3821				150	5	1000	5 1/2	60	
DEVIATION RECORD										
DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
3821		7								
TIME LOG										
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
800	230	6 1/2		DRIG						
230	300	1/2		Survey @ 3821 + Rig Service logs						
300	400	1		Strap out Bit # 5						
FOOTAGE										
FROM	TO	DR. D. R. M. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN
3821	3841	D			90	35	600	5 1/2	70	
DEVIATION RECORD										
DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
3841										
TIME LOG										
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
400	600	2		STRAP OUT BIT #5 NO CORRECTION						
600	800	2 1/2		Run in Bit #6 Check Blind Rams						
800	900	1 1/2		BREAK CIRC + CLEAN TO BOTTOM 25 FT.						
900	1200	3		DRILL						
FOOTAGE										
FROM	TO	DR. D. R. M. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO.	METHOD RUN
3841	3841									
DEVIATION RECORD										
DEPTH		DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
3841										
TIME LOG										
FROM	TO	ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
400	600	2		STRAP OUT BIT #5 NO CORRECTION						
600	800	2 1/2		Run in Bit #6 Check Blind Rams						
800	900	1 1/2		BREAK CIRC + CLEAN TO BOTTOM 25 FT.						
900	1200	3		DRILL						

MORNING TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		L. SANDER	8	DRILLER		L. SANDQUIST	8	DRILLER		GARY WALDRIDGE	8
DRKMAN		F. FERRAND	8	DRKMAN		F. WELLS	8	DRKMAN		LEO TOMERAN	8
MTRMAN		J. WITTER	8	MTRMAN		K. THIEL	8	MTRMAN		STAN TOMERAN	8
FIREMAN				FIREMAN				FIREMAN			
FLRMAN		E. SPANAGER	8	FLRMAN		S. DOMEY	8	FLRMAN		RANDY CHISHOLM	8
FLRMAN				FLRMAN		F. MONNETE	8	FLRMAN			
FLRMAN				FLRMAN				FLRMAN			
NO. OF DAYS											
SINCE LAST LOST TIME ACCIDENT											
DAY TOUR											
A.M.											
P.M.											
NO. OF DAYS											
SINCE LAST LOST TIME ACCIDENT											
EVENING TOUR											
A.M.											
P.M.											
NO. OF DAYS											
SINCE LAST LOST TIME ACCIDENT											



LEASE				WELL NO.		API WELL NUMBER				DATE	
PACIFIC AMOCO TATHUNA N18				N18		N18-60-20-118-00				2-4-73	
OPERATOR						CONTRACTOR				RIG NO.	
PACIFIC PETROLEUM LTD.						KENTING PETROLIA				9	
SIGNATURE OF OPERATOR'S REPRESENTATIVE						SIGNATURE OF CONTRACTOR'S TOOL PUSHER					
											
O.P. SIZE	WT./FT.	GRADE	TOOL JT Q.D.	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER			TYPE	STROKE LENGTH
4 1/2	16.60	3	5 7/8	F.H.	1	1	CONT Emisco			D-300	14

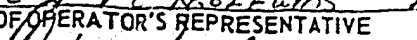
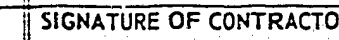
LEGAL LAND DESCRIPTION								WIRE LINE RECO'D		REEL NO. 4		
LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RHS. TO CSG. NO.	SET AT	SIZE 1"	NO. LINES 8	FT. SLIPPED		
	8 5/8	ST90	2 1/2	KS	13	545		54 1/2	FT. CUT OFF		PRESENT LENGTH	
									TOM MI. OR TRIPS SINCE LAST CUT		3	
									CUMULATIVE TOM MI. OR TRIPS			

DRILLING CREW PAYROLL DATA
DATE 2-4-73
WELL NAME & NO. PACIFIC AMERICA TITANIUM N-18
COMPANY KENT TIE & PETROLIA
TOOL PUSHER N. Thompson RIG NO. 9

[illegible]

FOOTAGE		DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. 1		PUMP NO.		MET R P C M
FROM	TO			LINER SIZE	S.P.M.				LINER SIZE	S.P.M.			
3683	3693	D				90	35	1000	5 1/2	60			
3693	3696					110	15						
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION			
		3693	5										
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
FROM	TO												
12:00	12:45	3/4		DRLG									
12:45	1:00	1/4		SURVEY @ 3693									
1:00	3:00	2		HOIST BIT # 11									
3:00	5:45	2 3/4		INSTALL NEW TORQUE ON RIG.									
5:45	7:15	1 1/2		TRIP IN BIT # 5									
7:15	7:45	1/2		BRK CIRC AND CLEAN 15' TO BTM									
7:45	8:00	1/4		DRLG									
											DRILLER	T. J. S.	
FOOTAGE		DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO.		PUMP NO.		MET R P C M
FROM	TO			LINER SIZE	S.P.M.				LINER SIZE	S.P.M.			
3696	3742					100	20	900	5 1/2	58			
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION			
		3725	7°										
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
FROM	TO												
8:00	10:30	2 1/2		DRLG									
10:30	11:00	1/2		SURVEY @ 3725 + Rig Service + BOPV									
11:00	12:30	1 1/2		DRLG									
12:30	2:30	2		HOIST									
2:30	4:00	1 1/2		Run in + pick up pipe.									
											DRILLER	C. Santiago	
FOOTAGE		DR.D RM.R CORE.C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO.		PUMP NO.		MET R P C M
FROM	TO			LINER SIZE	S.P.M.				LINER SIZE	S.P.M.			
3742	3760												
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION			
		3759	7°										
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
FROM	TO												
1:00	5:00	1		Pick up 30 SAMPLES + RIG IN									
5:00	6:00	1		REAR LINE + CLEAN 20' TO BOTTOM									
6:00	11:45	4 1/4		DRILL									
11:45	12:00	1/4		SURVEY									

[illegible]

LEASE			WELL NO.		API WELL NUMBER			DATE	
PACIFIC AMOCO TATHAN			N 18		N 18 - 60 - 20 - 118 - 00 - W			2-3-73	
OPERATOR					CONTRACTOR			RIG NO.	
PACIFIC PETROLEUMS LTD.					KENTING PETROLIA			9	
SIGNATURE OF OPERATOR'S REPRESENTATIVE					SIGNATURE OF CONTRACTOR'S TOOL PUSHER				
									
D.P. SIZE	WT./FT.	GRADE	TOOL JT. Q.D.	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH
4 1/2	16.60	3	5 7/8	F.H.	1	1	CONT EMISEO	D-300	14

LEGAL LAND DESCRIPTION								WIRE LINE RECORD			REEL NO.
LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CCG. HD.	SET AT	SIZE	NO. LINES	FT. SLIPPED	
	N 18 - 60 - 20 - 118 - 00 - W										
	8 5/8	STC	24 KS	13	545		541	FT. CUT OFF		PRESENT LENGTH	
								TOM. ML. OR TRIPS SINCE LAST CUT			
								CUMULATIVE TOM. ML. OR TRIPS			

DRILLING CREW PAYROLL DATA

DATE 2-3-73

WELL NAME & NO. PACIFIC AMOCO TATHLINA N18

COMPANY KENTING PETROLIA

TOOL PUSHER N. Tompkins

RIG NO. 9

[illegible]

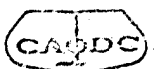
FOOTAGE		DR. D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. 1		PUMP NO.		METHOD RUN
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
3006	3200	D			190	38	1000	5 1/2	60			5
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
1200	3000	8		DRLG								
DRILLER <i>Larry Sander</i>												
FOOTAGE		DR. D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. 1		PUMP NO.		METHOD RUN
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
3200	3483				80	40	1000	5 1/2	60			
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
800	100	5		DRLG								
100	130	1/2		Survey @ 3392, Rig Service + Clean Sub								
130	400	3 1/2		Tank + BOP Check. OK.								
DRILLER <i>C. Lantieri</i>												
FOOTAGE		DR. D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000 +	PUMP PRESS	PUMP NO. 1		PUMP NO.		METHOD RUN
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
3483	3683				80	45	1000	5 1/2	60			
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
400	1300	1 1/2		DRILL								
DRILLER <i>Paul D. Smith</i>												

[illegible]

APPROVED



APPROVED



DAILY DRILLING REPORT REPORT NO.

LEASE Pacific-Mason-Tomlin	WELL NO. N-18	API WELL NUMBER N-18-60-20-118-00-W	DATE 2-2-73
OPERATOR Pacific-Mason-Tomlin	CONTRACTOR KENTING PETROLIA		RIG NO. 9
SIGNATURE OF OPERATOR'S REPRESENTATIVE		SIGNATURE OF CONTRACTOR'S TOOL PUSHER	
D.P. SIZE 1 1/2	FT. FT. 16-6	GRADE 7	TOOL JT. Q.D. 5 1/2
TYPE THREAD FH	STRING NO. 1	PUMP NO. 1	PUMP MANUFACTURER FMSCO
TYPE D-300		STROKE LENGTH 14	

LEGAL LAND DESCRIPTION	WIRE LINE RECORD
SIZE 1 1/2	NO. LINES 8
MAKE ST+C	FT. SLIPPED
WT. & GR. 24	PRESENT LENGTH
NO. JOINTS 13	FT. CUT OFF
FEET 545.51	10M ML OR 1/2 IPS SINCE LAST SET
RKB. TO CSG. HD.	CUMULATIVE TON ML OR TRIPS
SET AT 541	

DRILLING CREW RAYROLL DATA

DATE FEB 21-73

WELL NAME & NO. Pacific-Mason-Tomlin-N-18

COMPANY KENTING PETROLIA

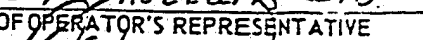
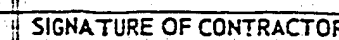
TOOL PUSHER MERRY TOMPKINS RIG NO. 9

TIME DISTRIBUTION - HOURS				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	NO.	FT.	BIT NO.	TIME	WEIGHT	PRESSURE GRADIENT
1	RIG UP AND TEAR DOWN								
2	DRILL ACTUAL								
3	REAMING								
4	CORING								
5	CONDITION MUD & CIRCULATE								
6	TRIPS								
7	LUBRICATE RIG								
8	REPAIR RIG								
9	CUT OFF DRILLING LINE								
10	DEVIATION SURVEY								
11	WIRE LINE LOGS								
12	RUN CASING & CEMENT								
13	WAIT ON CEMENT								
14	NIPPLE UP B.O.P.								
15	TEST B.O.P.								
16	DRILL STEM TEST								
17	PLUG BACK								
18	SQUEEZE CEMENT								
19	FISHING								
20	DIR. WORK								
21									
22									
23									
COMPLETION				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
A	PERF'IN								
B	TBG TRIPS								
C	TREATING								
D	SWABBING								
E	TESTING								
F	ADDITIONAL								
G									
TOTALS				DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
DAY WORK TIME SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. W/D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
NO. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

FOOTAGE		DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
2499	2698				100	35	1000	5 1/2	60	5
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG		ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO									
12:00	1:30	1 1/2	DRILL							
1:30	1:45	1/4	SURVEY							
1:45	8:00	6 1/4	DRILL							
FOOTAGE		DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
2698	2920	D			100	35	1000	5 1/2	60	5
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG		ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO									
8:00	12:30	4 1/2	DRILL							
12:30	1:00	1/2	RIG SERVICE AND B.O.P. CHECK OK. SURVEY							
1:00	4:00	3	DRILL							
FOOTAGE		DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
2920	3005	D			100	35	1000	5 1/2	60	5
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG		ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO									
4:00	7:00	3	DRILL							
7:00	7:15	1/4	SURVEY @ 2997							
7:15	11:15	1/4	TRIP F.N.B							
11:15	11:45	1/2	B.H. Line AND CLEAN TO 630' TO B.T.M							
11:45	12:00	1/4	DRILL							
FOOTAGE		DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM	TO									
3005	3217	D			100	35	1000	5 1/2	60	5
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME LOG		ELAPSED TIME	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO									
7:00	7:15	1/4	SURVEY @ 2997							
7:15	11:15	1/4	TRIP F.N.B							
11:15	11:45	1/2	B.H. Line AND CLEAN TO 630' TO B.T.M							
11:45	12:00	1/4	DRILL							

MORNING TOUR 12:00 P.M. 8:00 A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		BARRY WOULDRADE	8
DRKMAN		LEO TOMCZAK	8
MTRMAN		STAN TOMCZAK	8
FIREMAN			
FLRMAN		RANDY CHISOLM	8
FLRMAN			
FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			
DAY TOUR 8 A.M. 4 P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		J. SANDER	8
DRKMAN		J. PELAND	8
MTRMAN		D. WITTER	8
FIREMAN			
FLRMAN		G. SARMA BA	8
FLRMAN		F. MONETTE	8
FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			
EVENING TOUR 4 P.M. 12 P.M.			
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		C. SANDQUIST	8
DRKMAN		A. WELLS	8
MTRMAN		R. THIEL	8
FIREMAN			
FLRMAN		B. BOMEY	8
FLRMAN			
FLRMAN			
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT			

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM

LEASE		WELL NO.		API WELL NUMBER		DATE	
PACIFIC AMOCO-TATHLINA		N-18		N-18-60-20-118-00-W		FEB 15/73	
OPERATOR		CONTRACTOR		KENTING PETROLIA		RIG NO.	
PACIFIC PETROLEUMS LTD.						9	
SIGNATURE OF OPERATOR'S REPRESENTATIVE				SIGNATURE OF CONTRACTOR'S TOOL PUSHER			
							
D.P. SIZE	WT./FT.	GRADE	TOOL JT. Q.D.	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER
4 1/2	16.6	J	5 1/2	FH	1	1	ENSCO
							TYPE
							D-300
							STROKE LENGTH
							14

[illegible]

DRILLING CREW PAYROLL DATA

DATE FEB 1ST / 73

WELL NAME & NO Pacific - Proaco-TMMLIA - N-18

COMPANY KENTING PETROLIA

TOOL PUSHER Worm Trenching RIG NO. 9

TIME DISTRIBUTION - HOURS					NO.		DRILLING ASSEMBLY (At end of tour)		BIT RECORD				MUD RECORD			
CODE NO.	OPERATION	MORN.	DAY	EVE.		BIT	FT.	BIT NO.				TIME				
1.	RIG UP AND TEAR DOWN							SIZE	7 1/2			WEIGHT	9.3	9.1	9.0	
2.	DRILL ACTUAL					STB RMR	OD	WFG.	HN			PRESSURE GRADIENT				
3.	REAMING					D.C. ID	OD	FT.	TYPE	XIG		VISC. - SEC	35	38	36	
4.	CORING					STB RMR	OD	FT.	JETS 2 32"	12 12 12		PV/VP	1	1	1	
5.	CONDITION MUD & CIRCULATE					D.C. ID	OD	FT.	SER. NO.	49834		GELS.	1	1	1	
6.	TRIPS					STB RMR	OD	FT.	DEPTH OUT			WL - CCS			12.00	
7.	LUBRICATE RIG					1 1/2 Sub	120	DEPTH IN	1305			pH	8.5	9.5	9.5	
8.	REPAIR RIG							TOTAL H2C	819			SOLIDS %				
9.	CUT OFF DRILLING LINE						1454.30	TOTAL HRS RUN	169							
10.	DEVIATION SURVEY					24 STANDS DP	14030 FT.	CONO. 1/8" T.S. GAGE	1 1/2			MUD & CHEMICALS ADDED				
11.	WIRE LINE LOGS					1 SINGLES DP	2990 FT.	CONO. 1/8" T.S. GAGE	1 1/2			TYPE	AMT.	TYPE	AMT.	
12.	RUN CASING & CEMENT					KELLY DOWN	4100 FT.	CONO. 1/8" T.S. GAGE	1 1/2			GEL	3500			
13.	WAIT ON CEMENT					TOTAL	2124.4 FT.	CONO. 1/8" T.S. GAGE	1 1/2			5000 PSI	100			
	WIRELINE TDR					WT. OF STRING	68.000 LBS.	CONO. 1/8" T.S. GAGE	1 1/2							

[illegible][illegible]

14. B.O.P.		NO.		DRILLING ASSEMBLY (At end of run):		BIT RECORD		MUD RECORD		
15. TEST B.O.P.				BIT	FT.	BIT NO.	2	3	TIME	8 ⁰⁰ 12 ⁰⁰ 33 ⁰⁰
16. DRILL STEM TEST						SIZE	7 7/8	7 7/8	WEIGHT	9.1 9.1 9.2
17. PLUG BACK				STD RMR	OD	FT. MFG.	H.W.	H.W.	PRESSURE GRADIENT	
18. SQUEEZE CEMENT				21 D.C. ID	6 1/4 OD	598.00	FT. TYPE	X 1/6 X 1/6	VISC. SEC.	36 35 35
19. FISHING				STB RMR	OD	FT. JKT. 1" 3/4	12/12/12	12/12/12	PSI/YP	1 1 1
20. DIR. WORK				D.C. ID	OD	FT. SER. NO.	45836	449837	GELS	1 1 1
21.				STB RMR	OD	FT. DEPTH OUT	2217		WL. CCS'S	
22				1 C10 Sub	1.20	DEPTH IN	1305	2217	pH	
23.						TOTAL FTG.	912	17	SOLIDS %	
						TOTAL HRS RUN	19 1/2	1 1/4		
				26 STANDS DP	1577.12 FT.	COND. 18" T.B. GAGE	7 5/4	Ru 1/1	MUD & CHEMICALS ADDED	
				1 SINGLES DP	296.8 FT.	CPM. PD-PSI	1	1	TYPE AMT. TYPE AMT.	GEL # 750
				KELLY DOWN	28.00 FT.					
				TOTAL	2247.00 FT.					
				WT. OF STRING	75.000 LBS.					

FOOTAGE		DR. D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO. 1		PUMP NO. 2		METH RUN
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
2124	2234	D			120	38	1000	5 1/2	58			
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
		2217	2 1/4									
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
1100	900	11	11	DRLG.								
900	915	1 1/4		HIG SERVICE AND B.O.P. CHECK OK.								
915	1200	2 3/4		DRLG.								
1200	1215	1/4		SURVEY @ 3217								
1215	230	2 1/4		TRIP F.W.B.								
230	245	1/4		BKK Core Clean 10' to B.T.M.								
245	400	1 1/4		DRLG.								

[illegible]

TOTALS		DRILLING ASSEMBLY (at end of hour)		BIT RECORD		MUD RECORD		
DAY WORK TIME SUMMARY (OFFICE USE ONLY)		BIT	FT.	BIT NO.		TIME		
HRS. W/CONTR. D.P.		SYB RMR OD		SIZE		WEIGHT		
HRS. W/OPZ. D.P.		DC ID 6'4" OD	598	FT. HFG	H W	PRESSURE GRADIENT		
HRS. WCV/D.P.		SYB RMR OD		FT. TYPE	XIG	VISC-SEC	34	39
HRS. STANDBY		DC ID OD		FT. JETS 1-12"	12/12/12	PN/VP	/	/
		SYB RMR OD		FT. SER. HQ	498337	GELS	/	/
		DC ID OD		FT. DEPTH OUT		WL-CC's		
		SYB RMR OD		DEPTH IN	2217	PM		
				TOTAL FTG	272	SOLIDS %		
				TOTAL HRS RUN	9			
TOTAL DAY WORK		30 STANDS DP	1819.38	COND. 18" 18 GAGE	10 N	MUD & CHEMICALS ADDED		
		SINGLES DP	275	GPM PD-PSI	/	TYPE	AMT.	TYPE
NO. OF DAYS FROM SPUD CUMULATIVE ROTATING HRS.		KELLY DOWN	4700			GEL	2500#	AMT.
		TOTAL	24789					
TOTAL MUD COST		WT. OF STRING	78.000	LBS.				

FOOTAGE		DR-D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO. 1		PUMP NO.		METH RUN
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.	
2217	2487				120	25	100	5 1/2	60			
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION		
		2310	1 7/8°									
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS								
FROM	TO											
4:00	6:00	2		DRLG. Survey to 2310 D DRLG								
6:00	6:15	1/4										
6:15	12:00	5 1/4										

NO. OF DAYS		SINCE LAST LOST TIME ACCIDENT	
EVENING TOUR		4	P.M. 12 P.M.
CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		SANDQUIST	8
DRKMAN		A. WELLS	8
MTRMAN		P. PHIEL	8
FIREMAN			
FLRMAN		E. DOMEY	8
FLRMAN			
FLRMAN			

LEGAL LAND DESCRIPTION								WIRE LINE RECORD			REEL NO.
LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	SIZE	NO. LINES	FT. SLIPPED	
	8 5/8	S7+C	24	13	545.54		541	1"	8		
								FT. CUT OFF		PRESENT LENGTH	
								TON ML. OR TRIPS SINCE LAST CUT			
								CUMULATIVE TON ML. OR TRIPS			

TOOL PUSHER Norm Tompkins RIG NO. 9

[illegible][illegible][illegible][illegible][illegible][illegible]

LEASE <i>Pacific Arco Tahiti</i>	WELL NO. <i>N-18</i>	API WELL NUMBER <i>N-18-60-20-114-00-W</i>	DATE <i>JAN 30/73</i>
OPERATOR <i>Pacific Petroleum Ltd</i>	CONTRACTOR KENTING PETROLIA		RIG NO. <i>9</i>
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>[Signature]</i>	
DR. SIZE <i>9 5/8</i>	WT. FT. <i>24</i>	GRADE <i>13</i>	STROKE LENGTH <i>54.54</i>
TOOL JOINT <i>24</i>	TYPE <i>2300</i>	TYPE <i>14</i>	

LEGAL LAND DESCRIPTION <i>N-18-60-20-114-00-W</i>		WIRE LINE RECORD REEL NO.	
SIZE <i>9 5/8</i>	MAKE <i>STC</i>	WT. & GR. <i>24</i>	NO. LINES <i>8</i>
NO. JOINTS <i>13</i>	FEET <i>54.54</i>	FT. CUT OFF <i>5.41</i>	PRESENT LENGTH
LAST CASING TUBING OR LINER		TON MI. OR TRIPS SINCE LAST CUT	
		CUMULATIVE TON MI. OR TRIPS	

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	ACQ.	DAY	EVE.	BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT
1	DRILL UP AND TEAR DOWN								
2	DRILL ACTUAL								
3	REAMING								
4	CORING								
5	CONDUIT MUD & CEMENT								
6	TRIPS								
7	LUBRICATE RIG								
8	REPAIR RIG								
9	STAND OFF								
10	DEVIATION SURVEY								
11	WIRE LINE LOGS								
12	PUMP CEMENT & CEMENT								
13	WATER ON CEMENT								
14	WIRE LINE LOGS								
15	TEST B.P.								
16	DRILL STEAM TEST								
17	PLUG BACK								
18	SO. SEIZE CEMENT								
19	FINISH								
20	DR. WORK								
21	DR. WORK								
22	DR. WORK								
23	DR. WORK								
24	DR. WORK								
25	DR. WORK								
26	DR. WORK								
27	DR. WORK								
28	DR. WORK								
29	DR. WORK								
30	DR. WORK								
31	DR. WORK								
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98	DR. WORK								
99	DR. WORK								
100	DR. WORK								

FOOTAGE		DR. D. R. M. R. CORE. C.		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO
541																			
DEVIATION RECORD																			
TIME LOG		ELAPSED TIME		CODE NO.		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS													
FROM	TO	FROM	TO	FROM	TO														
12:00	4:00	4				W.O.C.													
4:00	9:00	4				Cut off Csg. weld on BOWL PRESSURE Test weld NIPPLE UP B.O.P.S.													
DRILLER <i>G. Doolbridge</i>																			

NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT	VISC. SEC.
21	598				
22	120				
23	120				
24	120				
25	120				
26	120				
27	120				
28	120				
29	120				
30	120				
31	120				
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98	120				
99	120				
100	120				

FOOTAGE		DR. D. R. M. R. CORE. C.		CORE NO.		FORMATION (SHOW CORE RECOVERY)		ROTARY RPM		WT. ON BIT 1000		PUMP PRESS		PUMP NO.		PUMP NO.		METHOD RUN	
FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO	FROM	TO
800	1200	4				HEAD UP B.O.P.S.													
1200	1230	1/2				PRESSURE UP BLIND RAMS TO 1000 PSI HEAD OK FOR 15 MINS													
1230	1245	1/4				CHECK MOTOR SHUT OFFS WORKING O.K.													
1245	130	3/4				TRIP IN BIT #1													
130	300	1/2				PRESSURE UP PIPE RAMS HYDRIL, KELLY COCK AD													
300	400	1				UPHIE MAINFELD TO 1000 PSI HEAD OK FOR 15 MINS													
DRILLER																			

NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT	VISC. SEC.
21	598				
22	120				
23	120				
24	120				
25	120				
26	120				
27	120				
28	120				
29	120				
30	120				
31	120				
32	120				
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68	120				
69	120				
70	120				
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72	120				
73	120				
74	120				
75	120				
76	120				
77	120				

LEASE <i>Pacific Amoco Tatumia N-18</i>	WELL NO. <i>W-18</i>	API WELL NUMBER <i>W-18-60-20-118-00-W</i>	DATE <i>JAN 29/73</i>
OPERATOR <i>Pacific Petroleum 170</i>	CONTRACTOR KENTING PETROLIA		RIG NO. <i>9</i>
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>[Signature]</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>M. L. Tompkins</i>	
D.P. SIZE <i>1 1/2"</i>	WT. FT. <i>14</i>	GRADE <i>0-200</i>	TOOL JOINT TYPE <i>14</i>
TOOL JOINT TYPE <i>14</i>	TYPE THREAD <i>14</i>	STRING NO. <i>1</i>	PUMP NO. <i>1</i>
PUMP MANUFACTURER <i>Emeco</i>		TYPE <i>0-200</i>	STROKE LENGTH <i>14</i>

LEGAL LAND DESCRIPTION

SIZE <i>477</i>	MAKE <i>614</i>	WT. & GR. <i>100 20</i>	NO. JOINTS <i>80</i>	FEET <i>5 1/2</i>	RKB. TO CSG. NO. <i>70</i>	SET AT <i>70</i>
WIRE LINE RECORD						REEL NO.
FT. CUT OFF						PRESENT LENGTH
TON MI. OR TRIPS SINCE LAST CUT						
CUMULATIVE TON MI. OR TRIPS						

DRILLING CREW PAYROLL DATA

DATE *JAN 29/73*
WELL NAME & NO. *Pacific Amoco Tatumia N-18*
COMPANY *Kenting Petrolia*
TOOL PUSHER *Horn Tompkins* RIG NO. *9*

TIME DISTRIBUTION - HOURS	NO.	DRILLING ASSEMBLY (At end of tour)	BIT RECORD	MUD RECORD
CODE NO. - OPERATION - DAY - EVE.	BIT	FT.	BIT NO.	TIME
1. RIG UP AND TEAR DOWN	SIZE		<i>2 3/4</i>	WEIGHT
2. DRILL ACTUAL	FT. MFG.		<i>HW</i>	PRESSURE GRADIENT
3. REAMING	TYPE		<i>X 3/4</i>	VISC. SEC.
4. CORING	JETS 1/32"		<i>3 1/2 17</i>	PV/YP
5. CONDITION MUD & CIRCULATE	FT. SER. NO.		<i>49707</i>	GELS
6. TRIPS	FT. DEPTH OUT		<i>614</i>	ML - CCS
7. LUBRICATE RIG	DEPTH IN		<i>477</i>	pH
8. REPAIR RIG	TOTAL FTG.		<i>137</i>	SOLIDS %
9. CUT OFF DRILLING LINE	TOTAL MRS. RUN		<i>3</i>	
10. DEVIATION SURVEY	STANDS DP	FT.	COND. 1/8" T.B. GAGE	MUD & CHEMICALS ADDED
11. WIRE LINE LOGS	SINGLES DP	FT.	CPW/ PD-PSI	TYPE AMT. TYPE AMT.
12. RUN CASING & CEMENT	KELLY DOWN	FT.		
13. WAIT ON CEMENT	TOTAL	FT.		
14. NIPPLE UP B.O.P.	WT. OF STRING	LBS.		

NO.	DRILLING ASSEMBLY (At end of tour)	BIT RECORD	MUD RECORD
BIT	FT.	BIT NO.	TIME
SIZE		<i>2A</i>	<i>6:00 10:00</i>
FT. MFG.		<i>HW</i>	WEIGHT
TYPE		<i>X 1/2</i>	PRESSURE GRADIENT
JETS 1/32"		<i>18 1/8 18</i>	VISC. SEC.
FT. SER. NO.		<i>LR 098</i>	PV/YP
FT. DEPTH OUT		<i>541</i>	GELS
DEPTH IN		<i>477</i>	ML - CCS
TOTAL FTG.		<i>67</i>	pH
TOTAL MRS. RUN		<i>3</i>	SOLIDS %
COND. 1/8" T.B. GAGE	STANDS DP	FT.	COND. 1/8" T.B. GAGE
CPW/ PD-PSI	SINGLES DP	FT.	CPW/ PD-PSI
	KELLY DOWN	FT.	
	TOTAL	FT.	
	WT. OF STRING	LBS.	

NO.	DRILLING ASSEMBLY (At end of tour)	BIT RECORD	MUD RECORD
BIT	FT.	BIT NO.	TIME
SIZE			WEIGHT
FT. MFG.			PRESSURE GRADIENT
TYPE			VISC. SEC.
JETS 1/32"			PV/YP
FT. SER. NO.			GELS
FT. DEPTH OUT			ML - CCS
DEPTH IN			pH
TOTAL FTG.			SOLIDS %
TOTAL MRS. RUN			
COND. 1/8" T.B. GAGE	STANDS DP	FT.	COND. 1/8" T.B. GAGE
CPW/ PD-PSI	SINGLES DP	FT.	CPW/ PD-PSI
	KELLY DOWN	FT.	
	TOTAL	FT.	
	WT. OF STRING	LBS.	

FOOTAGE	DR. D. RM. - R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM TO									
<i>477 614</i>				<i>100 20</i>	<i>80</i>	<i>5 1/2</i>	<i>70</i>		
DEVIATION RECORD									
DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
<i>1900</i>	<i>1</i>								
<i>1200</i>	<i>1</i>								
<i>1200</i>	<i>450</i>								
<i>470</i>	<i>5</i>								
<i>5</i>	<i>630</i>								
<i>630</i>	<i>730</i>								
<i>730</i>	<i>820</i>								
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
<i>TAIP IN COLLARS TO 477 FT.</i>									
<i>BREAK CIRC</i>									
<i>DRILL TO 614 7 1/2" PILOT HOLE</i>									
<i>Circ + PREPARE TO TAIP</i>									
<i>PULL 8 STANDS IN BEARING LAY DOWN 4 STANDS + P.H. COLLAR</i>									
<i>RUN IN WITH 12 1/2" BIT</i>									
<i>BREAK CIRC + PREPARE TO DRILL</i>									

FOOTAGE	DR. D. RM. - R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM TO									
<i>477 541</i>	<i>R</i>			<i>60</i>	<i>670</i>	<i>400</i>	<i>5 1/2</i>	<i>65</i>	
DEVIATION RECORD									
DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
<i>541</i>	<i>1/2</i>								
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
<i>REAM FROM 477-541 7 1/8" HOLE</i>									
<i>Circ To Run Csg.</i>									
<i>SURVEY @ 541</i>									
<i>HOIST TO RUN 8 5/8 Csg.</i>									
<i>R.B. TO AND RUN 8 5/8 Csg.</i>									
<i>RIC TO AND CIRC Csg.</i>									
<i>CEMENT Csg. PUMP PLUG.</i>									

FOOTAGE	DR. D. RM. - R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO. 1	PUMP NO. 2	METHOD RUN
FROM TO									
<i>400 1200</i>	<i>3</i>								
DEVIATION RECORD									
DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	
<i>400 1200</i>	<i>3</i>								
DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS									
<i>W.O.C. DIE COLLAR + PREPARE FOR CASING DETAILS</i>									
<i>B.O.P. Hook UP</i>									
<i>RAN 13 JTS 8200 24" 820 K-S 314C NEW TAKAHASHI CASING</i>									
<i>(545.54) LAND AT 541 KB CMT. BY HALYBUTON W/ 225 SXS. CONST.</i>									
<i>CMT. W/ 2 1/2" PACL2. DISPLACE W/ 32 BBLs. WATER AT 6 BPM. BUMP PLUG</i>									
<i>W/ 830 PSI PLUG DOWN AT 4:00 PM. 1/29/73 FIELD OK. GOOD</i>									
<i>CMT. RETURN. APP. 5 BBLs. AIR. SURF. 13.4 2 1/2"</i>									

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		<i>C. W. H. D. R. I. D. G. E.</i>	<i>8</i>
DRKMAN		<i>L. T. O. M. C. R. A. K.</i>	<i>8</i>
MTKMAN		<i>S. T. O. M. C. R. A. K.</i>	<i>8</i>
FIREMAN			
FLRMAN		<i>A. L. H. I. S. H. O. L. M.</i>	<i>8</i>
FLRMAN			
FLRMAN			

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		<i>J. S. A. U. D. E. R.</i>	<i>8</i>
DRKMAN		<i>I. F. E. L. A. N. D.</i>	<i>8</i>
MTKMAN		<i>D. W. I. T. T. E. R.</i>	<i>8</i>
FIREMAN			
FLRMAN		<i>B. S. P. A. N. A. E. R.</i>	<i>8</i>
FLRMAN			
FLRMAN			

CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		<i>C. S. A. I. D. D. U. S. T.</i>	<i>9</i>
DRKMAN		<i>H. W. E. L. L. S.</i>	<i>9</i>
MTKMAN		<i>R. S. H. I. E. L.</i>	<i>9</i>
FIREMAN			
FLRMAN		<i>B. D. O. M. A. Y.</i>	<i>9</i>
FLRMAN			
FLRMAN			



LEASE <i>Pacific Amoco TOTHING</i>	WELL NO. <i>N-18</i>	API WELL NUMBER <i>N-18-60-20-118-00-W</i>	DATE <i>JAN 28-73</i>
OPERATOR <i>Pacific Petroleum LTO</i>	CONTRACTOR KENTING PETROLIA		RIG NO. <i>9</i>
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>R. W. ...</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>M. L. ...</i>	
O.P. SIZE	WT./FT.	GRADE	TOOL JT. O.D. TYPE THREAD
			STRING NO.
			PUMP NO.
			PUMP MANUFACTURER
			TYPE
			STROKE LENGTH

LEGAL LAND DESCRIPTION <i>N-18-60-20-118-00-W</i>		WIRE LINE RECORD		REEL NO.
SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET
				RKB. TO CSG. NO.
				SET AT
LAST CASING TUBING OR LINER		FT. CUT OFF		
		PRESENT LENGTH		
		TON MI. OR TRIPS SINCE LAST CUT		
		CUMULATIVE TON MI. OR TRIPS		

TIME DISTRIBUTION - HOURS					NO.		DRILLING ASSEMBLY (At end of run)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT	VISC.-SEC.
1	RIG UP AND TEAR DOWN				STB RMR	OD		FT. MFG.				
2	DRILL ACTUAL				D.C. ID	OD		FT. TYPE				
3	REAMING				STB RMR	OD		FT. JETS 1 3/4"				
4	CORING				D.C. ID	OD		FT. SER. NO.				
5	CONDITION MUD & CIRCULATE				STB RMR	OD		FT. DEPTH OUT				
6	TRIPS							DEPTH IN				
7	LUBRICATE RIG							TOTAL FTG.				
8	REPAIR RIG							TOTAL HRS. RUN				
9	CUT OFF DRILLING LINE				STANDS DP	FT.		COND. 1 1/8" T.B. GAGE				
10	DEVIATION SURVEY				SINGLES DP	FT.		GPM/ PD-PSI				
11	WIRE LINE LOGS				KELLY DOWN	FT.						
12	RUN CASING & CEMENT				TOTAL	FT.						
13	WAIT ON CEMENT				WT. OF STRING	LBS.						
14	TRIPPLE UP B.G.P.											
15	TEST B.G.P.											
16	DRILL STEM TEST											
17	PLUG BACK											
18	SQUEEZE CEMENT											
19	FISHING											
20	DIR. WORK											
21												
22												

TIME DISTRIBUTION - HOURS					NO.		DRILLING ASSEMBLY (At end of run)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT	VISC.-SEC.
1	RIG UP AND TEAR DOWN				STB RMR	OD		FT. MFG.				
2	DRILL ACTUAL				D.C. ID	OD		FT. TYPE				
3	REAMING				STB RMR	OD		FT. JETS 1 3/4"				
4	CORING				D.C. ID	OD		FT. SER. NO.				
5	CONDITION MUD & CIRCULATE				STB RMR	OD		FT. DEPTH OUT				
6	TRIPS							DEPTH IN				
7	LUBRICATE RIG							TOTAL FTG.				
8	REPAIR RIG							TOTAL HRS. RUN				
9	CUT OFF DRILLING LINE				STANDS DP	FT.		COND. 1 1/8" T.B. GAGE				
10	DEVIATION SURVEY				SINGLES DP	FT.		GPM/ PD-PSI				
11	WIRE LINE LOGS				KELLY DOWN	FT.						
12	RUN CASING & CEMENT				TOTAL	FT.						
13	WAIT ON CEMENT				WT. OF STRING	LBS.						
14	TRIPPLE UP B.G.P.											
15	TEST B.G.P.											
16	DRILL STEM TEST											
17	PLUG BACK											
18	SQUEEZE CEMENT											
19	FISHING											
20	DIR. WORK											
21												
22												

TIME DISTRIBUTION - HOURS					NO.		DRILLING ASSEMBLY (At end of run)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT	VISC.-SEC.
1	RIG UP AND TEAR DOWN				STB RMR	OD		FT. MFG.				
2	DRILL ACTUAL				D.C. ID	OD		FT. TYPE				
3	REAMING				STB RMR	OD		FT. JETS 1 3/4"				
4	CORING				D.C. ID	OD		FT. SER. NO.				
5	CONDITION MUD & CIRCULATE				STB RMR	OD		FT. DEPTH OUT				
6	TRIPS							DEPTH IN				
7	LUBRICATE RIG							TOTAL FTG.				
8	REPAIR RIG							TOTAL HRS. RUN				
9	CUT OFF DRILLING LINE				STANDS DP	FT.		COND. 1 1/8" T.B. GAGE				
10	DEVIATION SURVEY				SINGLES DP	FT.		GPM/ PD-PSI				
11	WIRE LINE LOGS				KELLY DOWN	FT.						
12	RUN CASING & CEMENT				TOTAL	FT.						
13	WAIT ON CEMENT				WT. OF STRING	LBS.						
14	TRIPPLE UP B.G.P.											
15	TEST B.G.P.											
16	DRILL STEM TEST											
17	PLUG BACK											
18	SQUEEZE CEMENT											
19	FISHING											
20	DIR. WORK											
21												
22												

TIME DISTRIBUTION - HOURS					NO.		DRILLING ASSEMBLY (At end of run)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT	VISC.-SEC.
1	RIG UP AND TEAR DOWN				STB RMR	OD		FT. MFG.				
2	DRILL ACTUAL				D.C. ID	OD		FT. TYPE				
3	REAMING				STB RMR	OD		FT. JETS 1 3/4"				
4	CORING				D.C. ID	OD		FT. SER. NO.				
5	CONDITION MUD & CIRCULATE				STB RMR	OD		FT. DEPTH OUT				
6	TRIPS							DEPTH IN				
7	LUBRICATE RIG							TOTAL FTG.				
8	REPAIR RIG							TOTAL HRS. RUN				
9	CUT OFF DRILLING LINE				STANDS DP	FT.		COND. 1 1/8" T.B. GAGE				
10	DEVIATION SURVEY				SINGLES DP	FT.		GPM/ PD-PSI				
11	WIRE LINE LOGS				KELLY DOWN	FT.						
12	RUN CASING & CEMENT				TOTAL	FT.						
13	WAIT ON CEMENT				WT. OF STRING	LBS.						
14	TRIPPLE UP B.G.P.											
15	TEST B.G.P.											
16	DRILL STEM TEST											
17	PLUG BACK											
18	SQUEEZE CEMENT											
19	FISHING											
20	DIR. WORK											
21												
22												

TIME DISTRIBUTION - HOURS					NO.		DRILLING ASSEMBLY (At end of run)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT	VISC.-SEC.
1	RIG UP AND TEAR DOWN				STB RMR	OD		FT. MFG.				
2	DRILL ACTUAL				D.C. ID	OD		FT. TYPE				
3	REAMING				STB RMR	OD		FT. JETS 1 3/4"				
4	CORING				D.C. ID	OD		FT. SER. NO.				
5	CONDITION MUD & CIRCULATE				STB RMR	OD		FT. DEPTH OUT				
6	TRIPS							DEPTH IN				
7	LUBRICATE RIG							TOTAL FTG.				
8	REPAIR RIG							TOTAL HRS. RUN				
9	CUT OFF DRILLING LINE				STANDS DP	FT.		COND. 1 1/8" T.B. GAGE				
10	DEVIATION SURVEY				SINGLES DP	FT.		GPM/ PD-PSI				
11	WIRE LINE LOGS				KELLY DOWN	FT.						
12	RUN CASING & CEMENT				TOTAL	FT.						
13	WAIT ON CEMENT				WT. OF STRING	LBS.						
14	TRIPPLE UP B.G.P.											
15	TEST B.G.P.											
16	DRILL STEM TEST											
17	PLUG BACK											
18	SQUEEZE CEMENT											
19	FISHING											
20	DIR. WORK											
21												
22												

TIME DISTRIBUTION - HOURS					NO.		DRILLING ASSEMBLY (At end of run)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT	VISC.-SEC.
1	RIG UP AND TEAR DOWN				STB RMR	OD		FT. MFG.				
2	DRILL ACTUAL				D.C. ID	OD		FT. TYPE				
3	REAMING				STB RMR	OD		FT. JETS 1 3/4"				
4	CORING				D.C. ID	OD		FT. SER. NO.				
5	CONDITION MUD & CIRCULATE				STB RMR	OD		FT. DEPTH OUT				
6	TRIPS							DEPTH IN				
7	LUBRICATE RIG							TOTAL FTG.				
8	REPAIR RIG							TOTAL HRS. RUN				
9	CUT OFF DRILLING LINE				STANDS DP	FT.		COND. 1 1/8" T.B. GAGE				
10	DEVIATION SURVEY				SINGLES DP	FT.		GPM/ PD-PSI				
11	WIRE LINE LOGS				KELLY DOWN	FT.						
12	RUN CASING & CEMENT				TOTAL	FT.						
13	WAIT ON CEMENT				WT. OF STRING	LBS.						
14	TRIPPLE UP B.G.P.											
15	TEST B.G.P.											
16	DRILL STEM TEST											
17	PLUG BACK											
18	SQUEEZE CEMENT											
19	FISHING											
20	DIR. WORK											
21												
22												

DRILLING CREW PAYROLL DATA

DATE *JAN 28/73*WELL NAME & NO. *Pacific Amoco TOTHING N-18*COMPANY *Kenting Petrolia*TOOL PUSHER *Norm Tompkins* RIG NO. *9*

MORNING TOUR				12	P.M.	8	A.M.
CREW	SOC.	SEC.	NO.	NAME		HRS.	
DRILLER	.	.	.	E	Wooldrider	8	
DRKMAN	.	.	.	L	Tomczak	8	
MTRMAN	.	.	.	S	Tomczak	8	
FIREMAN	.	.	.				
FLRMAN	.	.	.	R	CHISNOLM	8	
FLRMAN	.	.	.				
FLRMAN	.	.	.				
	.	.	.				
	.	.	.				
	.	.	.				
	.	.	.				

REPORT NO.

DAILY DRILLING REPORT							REPORT NO.		DATE	
LEASE				WELL NO.		API WELL NUMBER				
<i>Pacific Amoco TATHIANA</i>				<i>N-18</i>		<i>N-18-LA-20-NR-00-W</i>			<i>JAN 29/6</i>	
OPERATOR						CONTRACTOR			RIG NO.	
<i>Pacific Petroleum Co. LTD</i>						KENTING PETROLIA			<i>9</i>	
SIGNATURE OF OPERATOR'S REPRESENTATIVE						SIGNATURE OF CONTRACTOR'S TOOL PUSHER				
<i>R. J. [Signature]</i>						<i>[Signature]</i>				
D.P. SIZE	WT./FT.	GRADE	TOOL JOG	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER		TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION							WIRE LINE RECORD			REEL NO.	
R-19-40-20-118-00-41							SIZE	1	MO. LINES	8	FT. SLIPPED
LAST CASING TUBING OR LINER	SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RVL. TO CSG. MD.	SET AT	FT. CUT OFF		PRESENT LENGTH	
								TON ML. OR TRIPS SINCE LAST CUT			
								CUMULATIVE TON ML. OR TRIPS			

DRILLING CREW PAYROLL DATA

DATE JAN 27/73

WELL NAME & NO. Public Amoco TATIANA N-18

COMPANY Kenting Petroleum

TOOL PUSHER NORM Tompkins RIG NO. 9

TIME DISTRIBUTION - HOURS				NO.		DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD			
CODE NO.	OPERATION	HRN.	DAY	EVE.	BIT	FT.	BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT	VISC. SEC.	PV/YP
1.	RIC UP AND TEAR DOWN				STB RMR OD	FT.	MFG.						
2.	DRILL ACTUAL				D.C ID OD	FT.	TYPE						
3.	REAMING				STB RMR OD	FT.	JETS 1 1/2"						
4.	CORING				D.C ID OD	FT.	SER. NO.						
5.	CONDITION MUD & CIRCULATE				STB RMR OD	FT.	DEPTH OUT						
6.	TRIPS						DEPTH IN						
7.	LUBRICATE RIC						TOTAL FTG.						
8.	REPAIR RIC						TOTAL HRS. RUN						
9.	CUT OFF DRILLING LINE				STANDS DP	FT.	COND. 1/8" T.B. GAGE						
10.	DEVIATION SURVEY				SINGLES DP	FT.	GPM/ PD-PSI						
11.	WIRE LINE LOGS				KELLY DOWN	FT.							
12.	RUN CASING & CEMENT				TOTAL	FT.							
13.	WAIT ON				WT. OF STRING	LBS.							

[illegible][illegible]

CEMENT		NIPPLE UP		B.O.P.		DRILLING ASSEMBLY (At and at tour)		BIT RECORD		MUD RECORD	
14.	NIPPLE UP					NO.	BIT	FT.	BIT NO.		TIME
15.	TEST B.O.P.								SIZE		WEIGHT
16.	DRILL STEM TEST										PRESSURE GRADIENT
17.	PLUG BACK					STB RMR	OD		FT. MFG.		VISC-SEC
18.	SQUEEZE CEMENT					D.C ID	OD		FT. TYPE		PV/VP
19.	FISHING					STB RMR	OD		FT. JET 1/32"		GELS
20.	DIR. WORK					D.C ID	OD		FT. SER. NO.		WL -CC'S
21.						STB RMR	OD		FT. DEPTH OUT		pH
22.									DEPTH IN		SOLIDS %
23.									TOTAL FTL		
COMPLETION	A. PERF'R'T'N								TOTAL HRS RUN		
	B. TBG TRIPS								COND. T.B.G. T.B. GAGE		MUD & CHEMICALS ADDED
	C. TREATING					STANDS DP	DP		FT. GPM' PD-PSI		TYPE AMT. TYPE AMT.
	D. SWABBING					SINGLES	DP		FT.		
	E. TESTING					KELLY DOWN			FT.		
	F. ADDIT'N'L					TOTAL			FT.		

DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION
TIME		ELAPSED TIME		DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS						
FROM	TO			CODE NO.						
2	4	8			UNLOAD TRUCKS SPOT RIG + RIG UP					

[illegible]

G.		WT. OF STRING		LBS.		MUD RECORD	
TOTALS		DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
DAY WORK TIME SUMMARY (OFFICE USE ONLY)		BIT	FT.	BIT NO.		TIME	
MRS. W/CONTR. D.P.		SYB		SIZE		WEIGHT	
MRS. W/OPR. D.P.		RYM	OD	FT. MFC		PRESSURE	
MRS. WD/D.P.		D/C	OD	FT. TYPE		GRADIENT	
MRS. STANDBY		SYB	OD	FT. JETS 1/32"		MISC.-SEC.	
		RYM	OD	FT. SER. NO.		PV/TP	
		D/C	OD	FT. DEPTH OUT		CELLS	
		SYB	OD	DEPTH IN		WL -CC'S	
		RYM	OD	TOTAL FTG.		SOLIDS %	
				TOTAL MRS. RUN		MUD & CHEMICALS ADDED	
TOTAL DAY WORK		STANDS DP	FT.	COND. 1 8" T B. GAGE		TYPE	AMT.
		SINGLES DP	FT.	GRA' PD-PSI		TYPE	AMT.
		KELLY DOWN	FT.				
		TOTAL	FT.				
NO. OF DAYS FROM SPUD		WT. OF STRING		LBS.			
CUMULATIVE ROTATING MRS.							
TOTAL MUD COST							

5 loads of Rig
Boiler started 6.⁰⁰ PM JAN 27/23

[illegible][illegible][illegible][illegible][illegible][illegible]

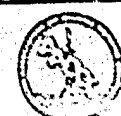
DEVIATION RECORD		DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION	DEPTH	DEV.	DIRECTION

TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS
FROM	TO			
8:30				Rig up

[illegible][illegible]

NO. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT _____

A.A.O.D.C.--A.P.I. OFFICIAL DAILY DRILLING REPORT FORM



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(Reg. Jan. 1/1)

LEASE <i>Pacific Amoco TATUMINA N-18</i>	WELL NO. <i>N-18</i>	API WELL NUMBER <i>N-18-60-20-118-00-W</i>	DATE <i>JAN 26</i>						
OPERATOR <i>Pacific Petroleum LTD</i>	CONTRACTOR KENTING PETROLIA		RIG NO. <i>9</i>						
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>R. Varney</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>M. L. Tompkins</i>							
D.P. SIZE	WT./FT.	GRADE	TOOL JT. Q.D.	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION

N-18-60-20-118-00-W

WIRE LINE RECORD REEL NO.

LAST CASING TUBING OR LINER

SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. NO.	SET AT

SIZE	NO. LINES	FT. SLIPPED

TON MI. OR TRIPS SINCE LAST CUT

CUMULATIVE TON MI. OR TRIPS

DRILLING CREW PAYROLL DATA

DATE *JAN 26/73*WELL NAME & NO. *Pacific Amoco TATUMINA N-18*COMPANY *Kenting Petrolia*TOOL PUSHER *Norm Tompkins* RIG NO. *9*

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	WEIGHT
1.	RIG UP AND TEAR DOWN								
2.	DRILL ACTUAL				STB RMR	OD	FT. MFG.		PRESSURE GRADIENT
3.	REAMING				D.C. ID	OD	FT. TYPE		VISC.-SEC.
4.	CORING				STB RMR	OD	FT. JETS 1/32"		PV/YP
5.	CONDITION MUD & CIRCULATE				D.C. ID	OD	FT. SER. NO.		GELS.
6.	TRIPS				STB RMR	OD	FT. DEPTH OUT		WL.-CC'S
7.	LUBRICATE RIG						DEPTH IN		pH
8.	REPAIR RIG						TOTAL FTG.		SOLIDS %
9.	CUT OFF DRILLING LINE				STANDS DP	FT.	COND. 1/8" T.B. GAGE		MUD & CHEMICALS ADDED
10.	DEVIATION SURVEY				SINGLES DP	FT.	GPM/ PD-PSI		TYPE AMT. TYPE AMT.
11.	WIRE LINE LOGS				KELLY DOWN	FT.			
12.	RUN CASING & CEMENT				TOTAL	FT.			
13.	WAIT ON CEMENT				WT. OF STRING	LBS.			
14.	NIPPLE UP B.O.P.								
15.	TEST B.O.P.								
16.	DRILL STEM TEST								
17.	PLUG BACK								
18.	SQUEEZE CEMENT				STB RMR	OD	FT. MFG.		PRESSURE GRADIENT
19.	FISHING				D.C. ID	OD	FT. TYPE		VISC.-SEC.
20.	DIR. WORK				STB RMR	OD	FT. JET 1/32"		PV/YP
21.					D.C. ID	OD	FT. SER. NO.		GELS.
22.					STB RMR	OD	FT. DEPTH OUT		WL.-CC'S
23.							DEPTH IN		pH
							TOTAL FTG.		SOLIDS %
							TOTAL HRS. RUN		
					STANDS DP	FT.	COND. 1/8" T.B. GAGE		MUD & CHEMICALS ADDED
					SINGLES DP	FT.	GPM/ PD-PSI		TYPE AMT. TYPE AMT.
					KELLY DOWN	FT.			
					TOTAL	FT.			
					WT. OF STRING	LBS.			
COMPLETION									
A. PERF'R'Y									
B. TBG TRIPS									
C. TREATING									
D. SWABBING									
E. TESTING									
F. ADDIT'L									
G.									
TOTALS									
DAY WORK TIME SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. W/O D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
NO. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

MORNING TOUR

DAY TOUR

EVENING TOUR

FOOTAGE		DR. D. RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000+	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.
DEVIATION RECORD											
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO										
SPOT RIG + CAMP - RIG UP CAMP											
8 loads of Rig											
CAMP FIRST MEAL SUPPER JAN 26/73											
DRILLER											
FOOTAGE											
DR. D. RM-R CORE-C											
CORE NO.											
FORMATION (SHOW CORE RECOVERY)											
ROTARY RPM											
WT. ON BIT 1000+											
PUMP PRESS											
PUMP NO.											
PUMP NO.											
METHOD RUN											
LINER SIZE											
S.P.M.											
LINER SIZE											
S.P.M.											
DEVIATION RECORD											
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO										
DRILLER											
FOOTAGE											
DR. D. RM-R CORE-C											
CORE NO.											
FORMATION (SHOW CORE RECOVERY)											
ROTARY RPM											
WT. ON BIT 1000+											
PUMP PRESS											
PUMP NO.											
PUMP NO.											
METHOD RUN											
LINER SIZE											
S.P.M.											
LINER SIZE											
S.P.M.											
DEVIATION RECORD											
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO										
DRILLER											
FOOTAGE											
DR. D. RM-R CORE-C											
CORE NO.											
FORMATION (SHOW CORE RECOVERY)											
ROTARY RPM											
WT. ON BIT 1000+											
PUMP PRESS											
PUMP NO.											
PUMP NO.											
METHOD RUN											
LINER SIZE											
S.P.M.											
LINER SIZE											
S.P.M.											
DEVIATION RECORD											
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO										
DRILLER											

MORNING TOUR				P.M.		A.M.	
CREW	SOC. SEC. NO.	NAME	HRS.				
DRILLER		C Woodridge	6				
DRKMAN		L TOMCZAK	6				
MTRMAN		S TOMCZAK	4				
FIREMAN							
FLRMAN							
FLRMAN							
FLRMAN							
NO. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT							
DAY TOUR				A.M.		P.M.	
CREW	SOC. SEC. NO.	NAME	HRS.				
DRILLER		L SANDER	8				
DRKMAN							
MTRMAN		D WITTER	8				
FIREMAN							
FLRMAN							
FLRMAN							
FLRMAN							
NO. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT							
EVENING TOUR				P.M.		P.M.	
CREW	SOC. SEC. NO.	NAME	HRS.				
DRILLER		C SANDQUIST	6				
DRKMAN		A WELLS	4				
MTRMAN							
FIREMAN							
FLRMAN							
FLRMAN							
FLRMAN							
NO. OF DAYS _____ SINCE LAST LOST TIME ACCIDENT							

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(Rev. Jan. 1/71)

LEASE <i>Pacific Amoco TATULLIA</i>	WELL NO. <i>N-18</i>	API WELL NUMBER <i>N-18-60-20-118-00-W</i>	DATE <i>JAN 25 1977</i>						
OPERATOR <i>Pacific Petroleum LTD</i>	CONTRACTOR KENTING PETROLIA		RIG NO. <i>9</i>						
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>R. L. R. R.</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>M. J. Tompkins</i>							
D.P. SIZE	WT./FT.	GRADE	TOOL JT. Q.D.	TYPE THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION <i>N-18-60-20-118-00-W</i>									
SIZE	MAKE	VT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. NO.	SET AT	SIZE	NO. LINES	FT. SLIPPED
FT. CUT OFF							PRESENT LENGTH		
TON ML. OR TRIPS SINCE LAST CUT									
CUMULATIVE TON ML. OR TRIPS									

DRILLING CREW PAYROLL DATA

DATE *JAN 25 1977*WELL NAME & NO. *Pacific Amoco TATULLIA N-18*COMPANY *Kenting Petrolia*TOOL PUSHER *M. J. Tompkins* RIG NO. *9*

TIME DISTRIBUTION - HOURS				NO. DRILLING ASSEMBLY (At end of hour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	TIME	WEIGHT
1	RIG UP AND TEAR DOWN				STB RMR	OD	FT. MFG.		PRESSURE GRADIENT
2	DRILL ACTUAL				D.C. ID	OD	FT. TYPE		VISC.-SEC.
3	RE-AMING				STB RMR	OD	FT. JETS 1 3/2"		PV/YP
4	CORING				D.C. ID	OD	FT. SER. NO.		GELS.
5	CONDITION MUD & CIRCULATE				STB RMR	OD	FT. DEPTH OUT		WL -CC'S
6	TRIPS						DEPTH IN		pH
7	LUBRICATE RIG						TOTAL FTG.		SOLIDS %
8	REPAIR RIG						TOTAL HRS. RUN		
9	CUT OFF DRILLING LINE				STANDS DP	FT.	COND. 1/8" T/B. GAGE		MUD & CHEMICALS ADDED
10	DEVIATION SURVEY				SINGLES DP	FT.	GPM/ PD-PSI		TYPE AMT. TYPE AMT.
11	WIRE LINE LOGS				KELLY DOWN	FT.			
12	RUN CASING & CEMENT				TOTAL	FT.			
13	WAIT ON CEMENT				WT. OF STRING	LBS.			
14	NIPPLE UP B.O.P.								
15	TEST B.O.P.								
16	DRILL STEM TEST								
17	PLUG BACK								
18	SQUEEZE CEMENT								
19	FISHING								
20	DIR. WORK								
21									
22									
23									
COMPLETION									
A. PERP'R'TN									
B. TAG TRIPS									
C. TREATING									
D. SWABBI'G									
E. TESTING									
F. ADDIT'L									
G.									
TOTALS									
DAY WORK TIME SUMMARY (OFFICE USE ONLY)									
HRS. W/CONTR. D.P.									
HRS. W/OPR. D.P.									
HRS. NO'D.P.									
HRS. STANDBY									
TOTAL DAY WORK									
NO. OF DAYS FROM SPUD									
CUMULATIVE ROTATING HRS.									
TOTAL MUD COST									

FOOTAGE		DR. D RM-R CORE-C	CORE NO.	FORMATION (SHOW CORE RECOVERY)		ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN
FROM	TO										
DEVIATION RECORD											
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO										
Mole Rig From LACIESHAM UNLOAD PIPE & D.C. ON NEW LOCATION											
3 loads only											
DRILLER											
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											
DAY TOUR											
CREW SOC. SEC. NO. NAME HRS.											
DRILLER											
DRKMAN											
MTRMAN											
FIREMAN											
FLRMAN											
FLRMAN											
FLRMAN											
FLRMAN											
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											
EVENING TOUR											
CREW SOC. SEC. NO. NAME HRS.											
DRILLER											
DRKMAN											
MTRMAN											
FIREMAN											
FLRMAN											
FLRMAN											
FLRMAN											
FLRMAN											
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											

MORNING TOUR				P.M.				A.M.			
CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.	CREW	SOC. SEC. NO.	NAME	HRS.
DRILLER		<i>L SANDER</i>	<i>8</i>								
DRKMAN											
MTRMAN		<i>D WITTER</i>	<i>8</i>								
FIREMAN											
FLRMAN											
FLRMAN											
FLRMAN											
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											
DAY TOUR											
CREW SOC. SEC. NO. NAME HRS.											
DRILLER											
DRKMAN											
MTRMAN											
FIREMAN											
FLRMAN											
FLRMAN											
FLRMAN											
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											
EVENING TOUR											
CREW SOC. SEC. NO. NAME HRS.											
DRILLER											
DRKMAN											
MTRMAN											
FIREMAN											
FLRMAN											
FLRMAN											
FLRMAN											
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT											

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LEASE Pacific Amoco TATHUMA	WELL NO. N-18	API WELL NUMBER N-18-60-20-118-00-W	DATE JAN 24 73							
OPERATOR Pacific Petroleum LTD	CONTRACTOR KENTING PETROLIA		RIG NO. 9							
SIGNATURE OF OPERATOR'S REPRESENTATIVE <i>R. L. ...</i>		SIGNATURE OF CONTRACTOR'S TOOL PUSHER <i>M. L. ...</i>								
O.P. SIZE	WT./FT.	GRADE	TOOL JOINT	TYPE	THREAD	STRING NO.	PUMP NO.	PUMP MANUFACTURER	TYPE	STROKE LENGTH

LEGAL LAND DESCRIPTION N-18-60-20-118-00-W	WIRE LINE RECORD REEL NO.									
SIZE	MAKE	WT. & GR.	NO. JOINTS	FEET	RKB. TO CSG. HD.	SET AT	SIZE	NO. LINES	FT. SLIPPED	
LAST CASING TUBING OR LINER							FT. CUT OFF			PRESENT LENGTH
							TON MI. OR TRIPS SINCE LAST CUT			
							CUMULATIVE TON MI. OR TRIPS			

DRILLING CREW PAYROLL DATA

DATE JAN 24 1973

WELL NAME & NO. Pacific Amoco TATHUMA N-18

COMPANY Kenting Petrolia Inc

TOOL PUSHER M. L. ... RIG NO. 9

TIME DISTRIBUTION - HOURS					NO.		DRILLING ASSEMBLY (At end of tour)		BIT RECORD		MUD RECORD	
CODE NO.	OPERATION	MORN.	DAY	EVE.	BIT	FT.	BIT NO.	SIZE	TIME	WEIGHT	PRESSURE GRADIENT	
1	RIG UP AND TEAR DOWN				STB RMR	OD	FT.	MFG.				
2	DRILL ACTUAL				D.C. ID	OD	FT.	TYPE				
3	REAMING				STB RMR	OD	FT.	JETS 1 1/2"				
4	CORING				D.C. ID	OD	FT.	SER. NO.				
5	CONDITION MUD & CIRCULATE				STB RMR	OD	FT.	DEPTH OUT				
6	TRIPS							DEPTH IN				
7	LUBRICATE RIG							TOTAL FTG.				
8	REPAIR RIG							TOTAL HRS. RUN				
9	CUT OFF DRILLING LINE				STANDS DP	FT.		COND. 1 1/2" T.B. GAGE				
10	DEVIATION SURVEY				SINGLES DP	FT.		GPM/ PD-PSI				
11	WIPE LINE LOGS				KELLY DOWN	FT.						
12	RUN CASING & CEMENT				TOTAL	FT.						
13	WAIT ON CEMENT				WT. OF STRING	LBS.						
14	NIPPLE UP B.O.P.											
15	TEST B.O.P.											
16	DRILL STEM TEST											
17	PLUG BACK											
18	SQUEEZE CEMENT											
19	FISHING											
20	DIR. WORK											
21												
22												
23												
COMPLETION												
A. PERF'RTN												
B. TBG TRIPS												
C. TREATING												
D. SWABBING												
E. TESTING												
F. ADDITION												
G.												
TOTALS												
DAY WORK TIME SUMMARY (OFFICE USE ONLY)												
HRS. W/CONTR. D.P.												
HRS. W/OPR. D.P.												
HRS. W/D.P.												
HRS. STANDBY												
TOTAL DAY WORK												
NO. OF DAYS FROM SPUD												
CUMULATIVE ROTATING HRS.												
TOTAL MUD COST												

FOOTAGE		DR. D. RM. R. CORE. C.	CORE NO.	FORMATION (SHOW CORE RECOVERY)	ROTARY RPM	WT. ON BIT 1000'	PUMP PRESS	PUMP NO.	PUMP NO.	METHOD RUN	
FROM	TO							LINER SIZE	S.P.M.	LINER SIZE	S.P.M.
DEVIATION RECORD											
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO										
MOVING RIG FROM EARLE SHAM											
DEVIATION RECORD											
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO										
DEVIATION RECORD											
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO										
DEVIATION RECORD											
TIME LOG		ELAPSED TIME	CODE NO.	DETAILS OF OPERATIONS IN SEQUENCE AND REMARKS							
FROM	TO										

MORNING TOUR				P.M.	A.M.
CREW	SOC. SEC. NO.	NAME	HRS.		
DRILLER		L SANDER	8		
DRKMAN					
MTRMAN		DAVE WATTEP	8		
FIREMAN					
FLRMAN					
FLRMAN					
FLRMAN					
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT					
DAY TOUR				P.M.	A.M.
CREW	SOC. SEC. NO.	NAME	HRS.		
DRILLER		C SANDQUIST	8		
DRKMAN					
MTRMAN					
FIREMAN					
FLRMAN					
FLRMAN					
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT					
EVENING TOUR				P.M.	P.M.
CREW	SOC. SEC. NO.	NAME	HRS.		
DRILLER		G WOODRIDGE	8		
DRKMAN					
MTRMAN					
FIREMAN					
FLRMAN					
FLRMAN					
NO. OF DAYS SINCE LAST LOST TIME ACCIDENT					

