

Confidentiality Requested:

Yes No

**KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	PEMBERTON 1
Doc ID	1456497

All Electric Logs Run

Dual Spaced Neutron Spectral Density
Array Compensated True Resistivity
Annular Hole Volume
Micro

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	PEMBERTON 1
Doc ID	1456497

Tops

Name	Top	Datum
Anhy.	2175	(+ 822)
Base Anhy.	2190	(+ 807)
Heebner	3870	(- 873)
Lansing	3916	(- 919)
Stark	4228	(-1231)
Hush.	4282	(-1285)
Marmaton	4384	(-1387)
Cherokee	4486	(-1489)
Morrow SS	4709	(-1712)
Miss.	4758	(-1761)
LTD	4840	(-1843)



REMIT TO
 QES Pressure Pumping LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346

MAIN OFFICE
 P.O.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice

Invoice#

900041

Invoice Date: 01/25/19

Terms: Net 30

Page 1

PALOMINO PETROLEUM, INC.
 4924 SE 84TH STREET
 NEWTON KS 67114-8827
 USA

RECEIVED
 JAN 30 2019

PEMBERTON #1

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	25.000	1,125.00
CE0002	Equipment Mileage Charge - Heavy Equipment	50.000	7.1500	25.000	268.13
CE0710	Cement Delivery Charge	1.000	1,016.0000	25.000	762.00
CC5829	Lite-Weight Blend V (60:40:4)	270.000	16.0000	25.000	3,240.00
CP8228	8 5/8" Wooden Plug	1.000	165.0000	25.000	123.75
CC5326	Sodium Chloride, Salt	100.000	0.0000	0.000	0.00
CC6028	CFL-4, Dispersing Fluid Loss Additive	68.000	3.0000	25.000	153.00

Subtotal 7,562.50
 Discounted Amount 1,890.63
 SubTotal After Discount 5,671.87

Amount Due 7,961.07 If paid after 02/24/19

Tax: 298.93
 Total: 5,970.81



Jan. 11. 2019 11:51AM

UV111751
FT40055

No. 0/54 P. 8

PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT CEMENT

TICKET NUMBER 55970
LOCATION Oakley, KS
FOREMAN Walt Dunkel

Invoice # 900041

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
F-5-19	628.5	Pamberton #1	13	205	34 ^W	Scott
CUSTOMER Palomino Petroleum Inc.			Scott City, Scott			
MAILING ADDRESS 4924 SE 8th Street			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY Newton			731	Coly Davis		
STATE KS			70	Parker Tate		
ZIP CODE 67119-8807						

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 4840' CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2 x 4 TUBING _____ OTHER _____
 SLURRY WEIGHT 13.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE 4 BPM

REMARKS: Safety Meeting, Rig up on WW #2, Plug as ordered

- 50 SKS @ 2200'
- 80 SKS @ 1170'
- 40 SKS @ 600'
- 50 SKS @ 240'
- 20 SKS @ 60' 1/2 Plug
- 30 SKS in R.H.

Thank You
Walt & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
C00450	1	PUMP CHARGE	1,500.00	1,500.00
C00002	50	MILEAGE	7.15	357.50
C00710	11.61	Ten Mileage Delivery	1.75	1,016.00
C05829	50097	270 - SKS	16.00	4,320.00
C06078	68 #	Callo Flake	3.00	204.00
C08078	1	8 5/8 in. Plug	165.00	165.00
C05326	100 #	Salt	.75	75.00
				7,562.50
				1,890.63
				5,671.87
				298.93
				5,970.81

Revin 3737

AUTHORIZATION [Signature]

TITLE Walt Dunkel

SALES TAX _____
ESTIMATED TOTAL 5,970.81

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's acknowledgment, are in effect for services identified on this form.

Received Time Jan. 11. 2019 11:52AM No. 3442
m 01.25.19

GLOBAL OIL FIELD SERVICES, LLC

24 S. Lincoln
RUSSELL, KS 67665

RECEIVED

DEC 21 2018

Invoice

Date	Invoice #
12/18/2018	0013296

Bill To
PALOMINO PETROLEUM INC 4924 SE 84TH ST NEWTON,KS 67114

P.O. No.	Terms	Project
PEMBERTON#1	Due on receipt	

Quantity	Description	Rate	Amount
150	COMMON CEMENT	16.50	2,475.00
5	CALCIUM-CHLORIDE	80.00	400.00
3	BENTONITE GEL	30.00	90.00
158	HANDLING	1.90	300.20
	BULK MILEAGE	711.00	711.00
	TRI-PLEX PUMP CHARGE FOR PLUG	850.00	850.00
45	HEAVY EQUIPMENT. ONE WAY	6.50	292.50
45	LMV- ONE WAY	2.75	123.75
	15% DISCOUNT IF PAID WITHIN 15 DAYS OF INVOICE		
	NESS CO SALES TAX	7.50%	0.00

Thank you for your business.		Total	\$5,242.45
Phone #	Fax #		
785-445-3525	785-445-3526		

Sean Deenihan

Petroleum Geologist

GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY Palomino Petroleum, Inc.
 LEASE Pemberton #1
 FIELD Wildcat
 LOCATION 1339' FSL & 2269' FWL
 SEC 13 TWSP 20 S RGE 34 W
 COUNTY Scott STATE Kansas
 CONTRACTOR WW Drilling Rig #2
 SPUD 12/15/18 COMP 1/4/18
 RTD 4840' LTD 4840'
 MUD UP _____ TYPE MUD Chemical

SAMPLES SAVED FROM 3500' TO RTD
 DRILLING TIME KEPT FROM 3500' TO RTD
 SAMPLES EXAMINED FROM 3500' TO RTD
 GEOLOGICAL SUPERVISION FROM 3700'
 REFERENCE WELL _____

ELEVATIONS

KB 2997'
 DF _____
 GL 2992'

Measurements Are All
From Kelly Bushing

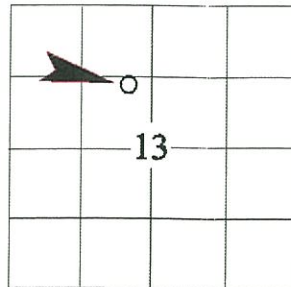
CASING

CONDUCTOR _____
 SURFACE 8-5/8" at 219'
 PRODUCTION none

ELECTRICAL SURVEYS

Halliburton
CND/DIL/MIC

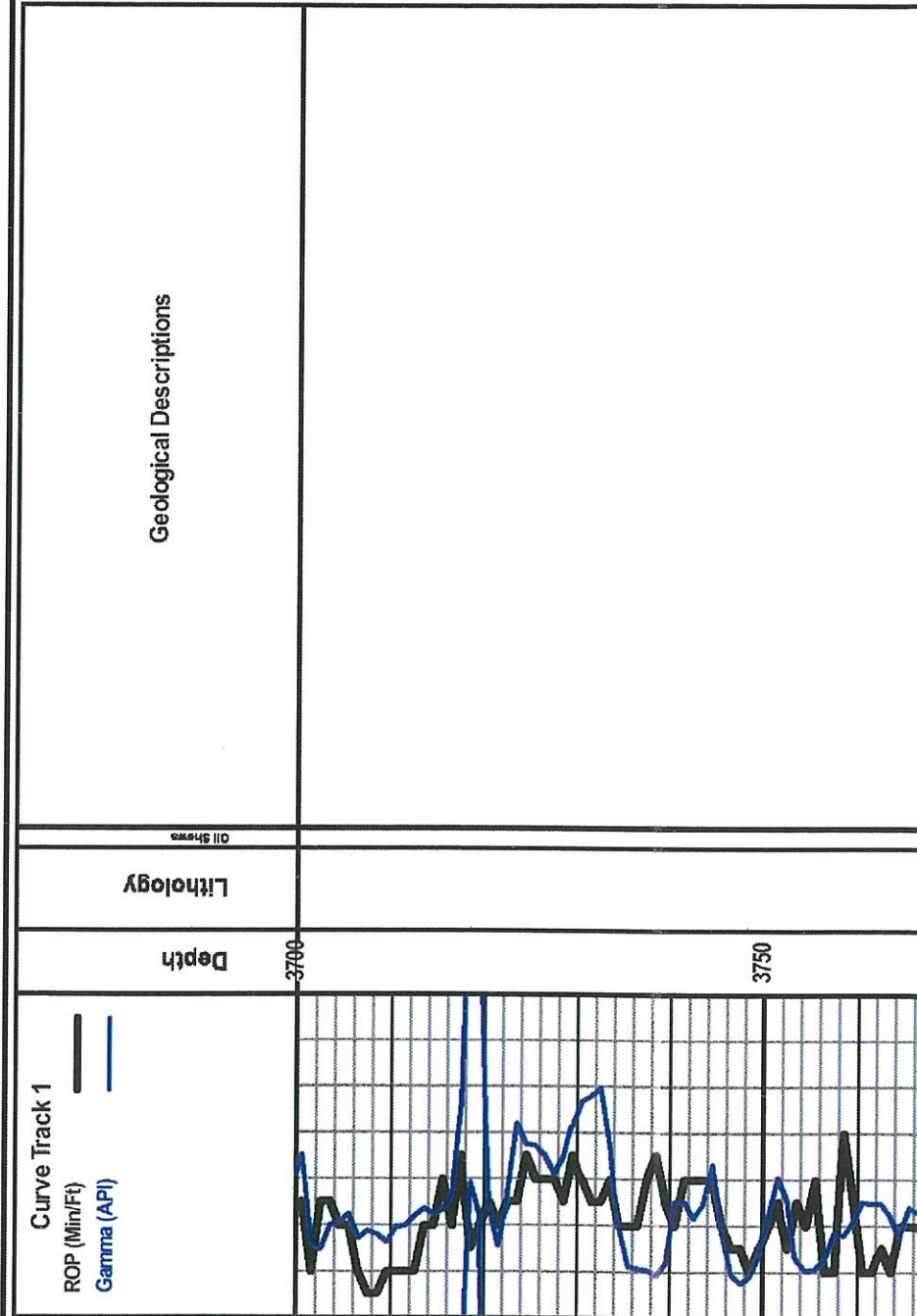
Formation	Sample Tops	E-log Tops	Struct Pos.
B/Anhydrite		2190 (+807)	
Heebner Sh.		3870 (-873)	
Lansing		3916 (-919)	
Marmaton		4384 (-1387)	
Cherokee Sh.		4487 (-1490)	
Mississippi		4757 (-1760)	



REMARKS Based on sample, log, and DST analysis, the Pemberton #1 was plugged and abandoned.

Respectfully Submitted,

Sean P. Deenihan



3750

3800

3850

3900

3950

4000

Dol, vf xin, fr intdn Por, suc IP, abd cond droplets, gassy odr

Sh., gy, silty

Ls., wh, gy, vf gr, sdy, sme chky, no show

Heebner Sh. 3870 (-873)

Flood of dk,gy-blk Shale in 3900' sample

Sh., gy, dk gy, sft, gummy

Ls., lt tn, vf gr, fr intgran Por, barren, no odr,

Sh., gy

Lansing 3912 (-915)

Ls., cm, fos, vf gr, dnse, sme fresh gy Chrt, p intgran Por, no odr

Ls., wh, cm, occ chky, p-f gr, Fos - Fus & ool, p-occ fr infos Por, no odr, dull fluor

Sh., gy, dk gy, blk

Ls., cm, vf gr, p intgran Por, no show

Ls., tn, gy, vf gr, dnse, p intgran Por, p infos Por, firm, no show

Ls., cm, f gr, fos, p-occ fr intgran Por, sme chky, no show

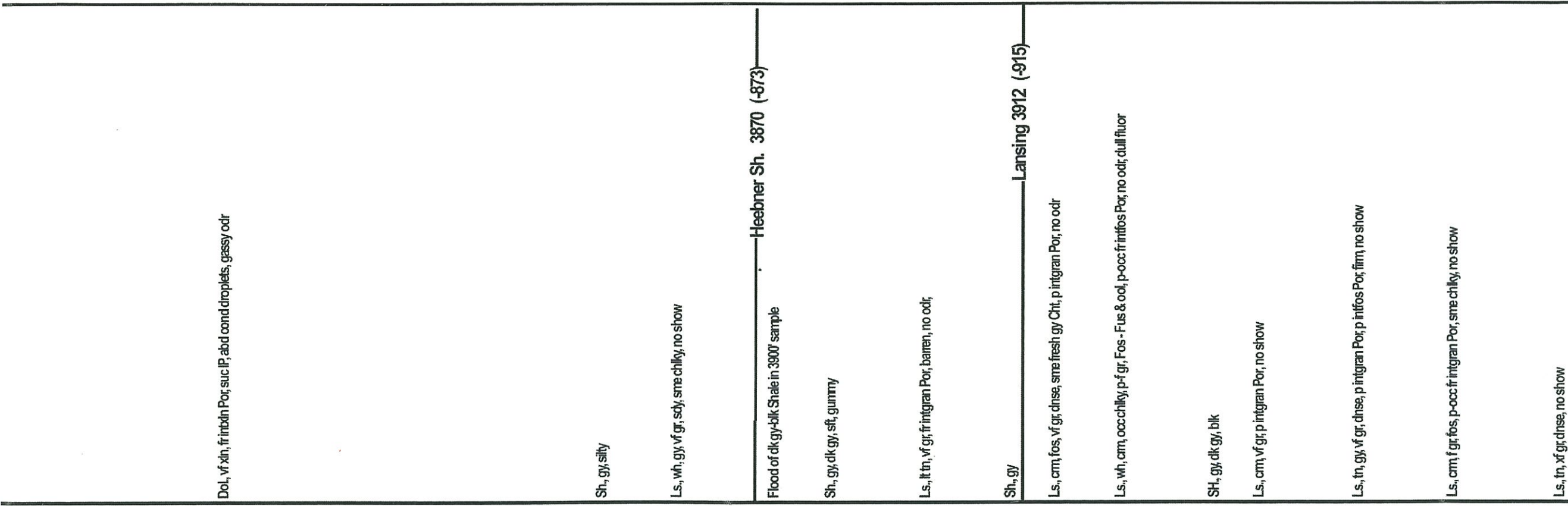
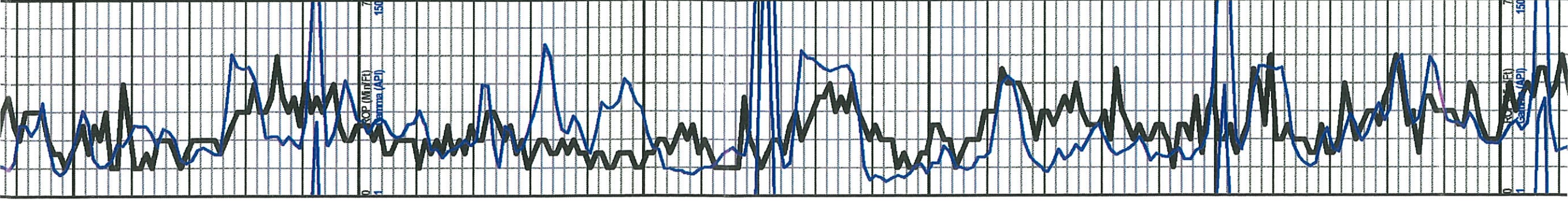
Ls., tn, xf gr, dnse, no show

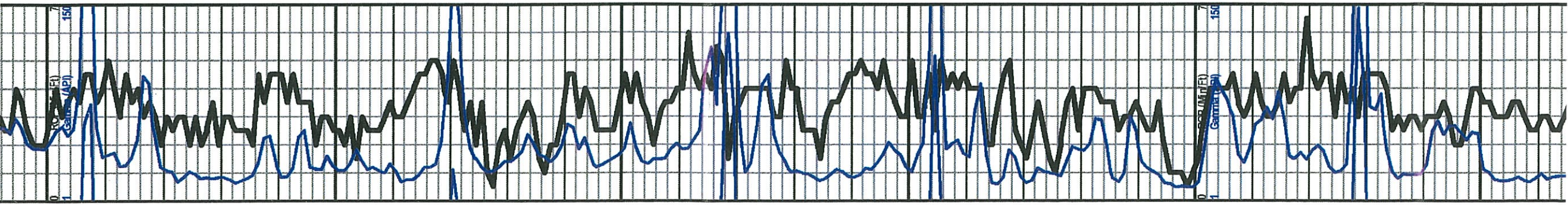
ROP (Mtr/E)

Gamma (API)

ROP (Mtr/E)

Gamma (API)





Ls., fn, xf gr dnse, no show

Ls., cm, vf gr, p intgran Por, no show

Ls., cm, vf gr, fos, re-xld, dnse, no show

Ls., wh, gy v chlkly, soft

Ls., cm, vf gr, fos, hd

Sh., dk gy-blk

Ls., cm, vf gr, p intgran Por, sli Ool., sme chlkly, no show of free oil, ft odr

Ls., cm, vf gr, tr Ool., fos, p intgran Por, no show, gassy odr, dull fluor

Ls., cm, xf-vf gr, hd

Sh., blk

Ls., cm, vf-f gr, p-f intgran Por, p intfos Por, vug, sme dolc, fr-firm, FSFO-it lfnadm, gc

Ls., cm, vf gr, p intgran Por, iso vug Por, SSFO, no odr

Ls., wh, chlkly, vsft, gummy

Ls., cm, wh, Ool, p-fr intool Por, dnse, SSFO upon crush, no odr, firm

Ls., fn, cm, Ool., p-gd oom Por, barren, abd sft chlkly Ls., no show

Ls., cm, gy, Ool IP, p-fr oom Por, hd, no show

Sh., blk, 4240 sample

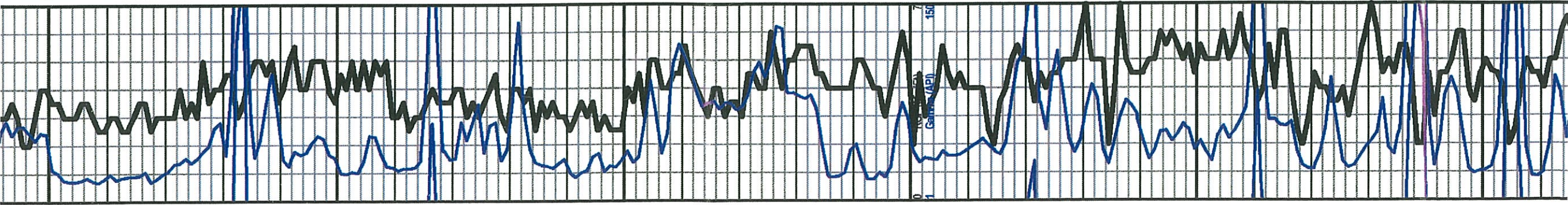
Ls., cm, vf gr, abd Fos, sme Ool, dnse, p intfos Por, no show

Ls., cm, vf gr, p intgran Por, sli chlkly, fos, no show

Muncie Creek 4070 (-1073)

Stark Sh. 4228 (-1231)

DST #1
 4071'-4157'
 30-30-30-30"
 IF: BOB 3 min
 FF: BOB 3.25 min
 no BB
 Rec: 1527 MW
 IFP: 68-461#
 FFP: 473-709#
 SIP: 1026-1027



Ls., cm, vf gr, p intgran Por, sli chiky, fos, no show

Ls., wh, lt gy, v chiky IP, p intgran Por, sme blk Ostrn, no odr,

Ls., wh-lt gy, vf gr, fos, sli chiky, pred dnse, sme fresh Cht., no show

Ls., gy, vf gr, hd

Ls., wh-lt gy, vf gr, hd, inc. Pyr, sli cherty- fresh, gy, fos, no show

Ls., lt gy, vf gr, dnse, p vis Por, sme chiky, wh Ls., soft, no show

Ls., cm, tn, gy, vf gr, p intgran Por, abd fresh, gy, Cht, NVP, no odr

Ls., gy, tn, dk gy, vf gr, p intgran Por, fos, dnse, hd, no show

Sh., gy, gm, soft

Ls., tn, bm, Fos, Col IP, dnse, p vis Por, hd

Ls., tn, vf gr, Col, p intfos Por, Pintool Por, dnse, PSFO- bm-dk bm, ft odr

Ls., Col, iso vug Por, p intool Por, Sli blk str, NSFO

Ls., gy, vf gr, v hd, no show

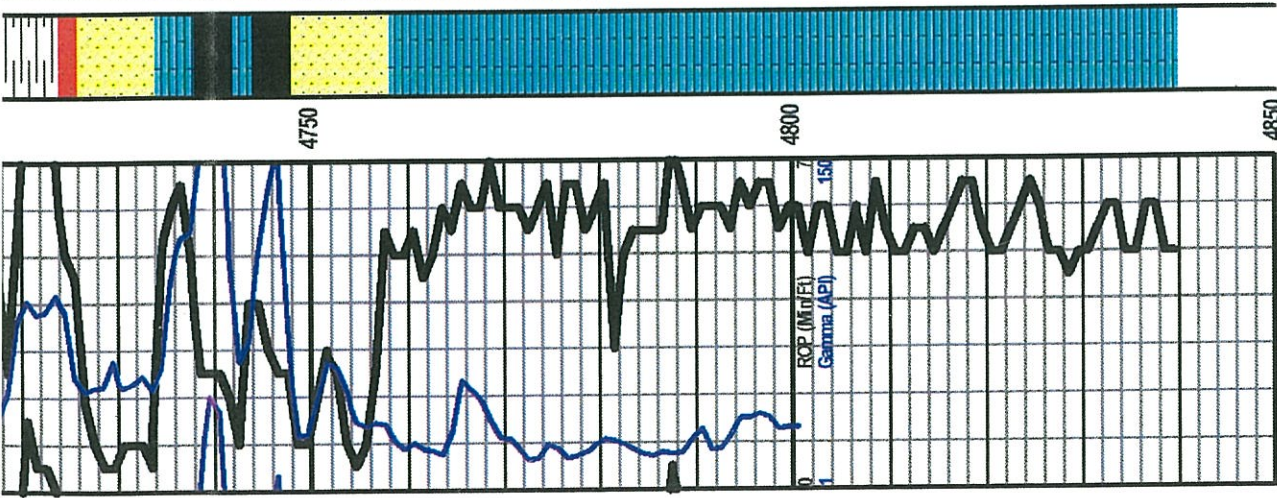
Ls., wh, gy, vf gr, sli fos, sli chiky, pred dnse, p intgran Por, no show, no odr

Ls., a.a. w inc. chert

Sh., blk

Ls., tn, vf gr, fos, iso vug Por w SSFO-tary dk bm, vft odr

DST #2
 4360' - 4480'
 30-30-30-30"
 IF: 1.45"
 FF: Surface -died
 No BB
 Rec: 15' M
 IFP: 20-23#
 FFP: 24-26#
 SIP: 219-101#



Sh., gy, dk gy, gm, silty

Ss., clr, vf gr, well srted, rd, fin, barren, no odr, no show

Sh., gy, dk gy, gummy, soft

Ss., clr-wh, lt gy, vf gr, rd-sbrd, well sorted, gd intgran Por, barren, no odr, no show

Mississippi 4757 (-1760)

Ls., cm, lt gm, gy, vf gr, dnse, suc-dnse, v hd, no odr

Ls., gy, gm, wh, dnse, p intgran Por, no show

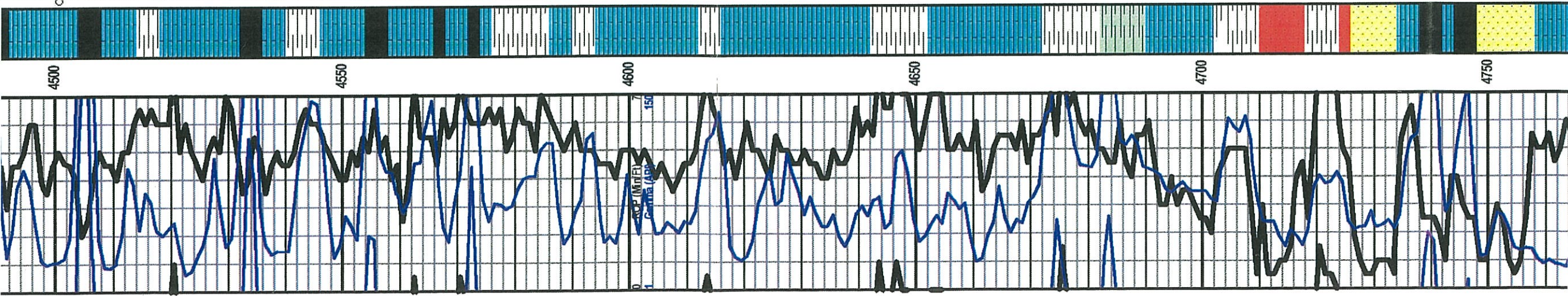
Ls., wh, gm, xf-vf gr, dnse, sli dolc, hd, no show

Ls., wh, gm, gy, xf-vf gr, p vis Por, v hd, no show

RTD: 4840'
LTD: 4840'

Palomino Petroleum, Inc.
Pemberton #1
13 -20S-34W
Scott Co., KS

KB: 2997'



Ls., tn, vf gr, fos, iso vug Por w SSFO: tany dk bm, vf odr

Ls., bm, tn, fos, vf gr, p intgran Por, hd

Sh., blk. Ls. aa

Sh., gy, dk gy

Ls., tn, fos, xf gr, re-xdl, NVP, hd

Sh., blk

Sh., lt gy, dnse, hd

Ls., tn, vf gr, p intgran Por, hd

Ls., tn, bm, vf gr, fos, p intfos Por, iso vug Por, dnse, no show

Ls., aa

Sh., gy

Ls., wh, gy, xf gr, fos, NVP, hd

Sh., gy, dk gy, blk

Morrow Sh. 4782 (-1685)

Sh., gy, yellow, sft, gummy

Morrow SS 4712 (-1715)

Siltstone, clr-gy, fit, fr-gd intgran Por, sre unconsolidated SS in tray, no odr, no show

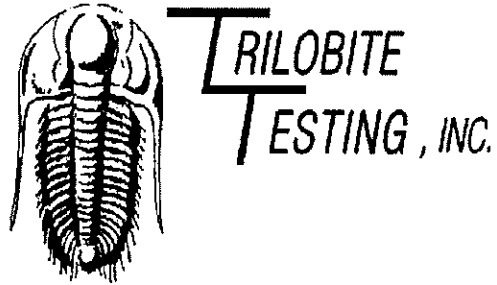
Sh., gy, dk gy, gm, silty

Ss., clr, vf gr, well sftd, rd, fit, barren, no odr, no show

Sh., gy, dk gy, gummy, soft

Ss., clr-wh, lt gy, vf gr, rd-sbrd, well sorted, gc intgran Por, barren, no odr, no show

Mississippi 4757 (-1760)



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc.**

4924 SE 84th St
Newton, KS 67114+8827

ATTN: Sean Deenihan

Pemberton #1

13-20S-34W Scott,KS

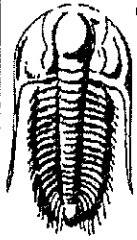
Start Date: 2019.01.01 @ 04:45:00

End Date: 2019.01.01 @ 12:11:02

Job Ticket #: 65076 DST #: 1

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.01.07 @ 10:34:15



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Sean Deenihan

13-20S-34W Scott,KS

Pemberton #1

Job Ticket: 65076

DST#: 1

Test Start: 2019.01.01 @ 04:45:00

GENERAL INFORMATION:

Formation: **LKC I**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:49:17

Time Test Ended: 12:11:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: **4071.00 ft (KB) To 4152.00 ft (KB) (TVD)**

Reference Elevations: 2997.00 ft (KB)

Total Depth: 4152.00 ft (KB) (TVD)

2992.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 709.03 psig @ 4072.00 ft (KB)

Capacity: psig

Start Date: 2019.01.01

End Date: 2019.01.01

Last Calib.: 2019.01.01

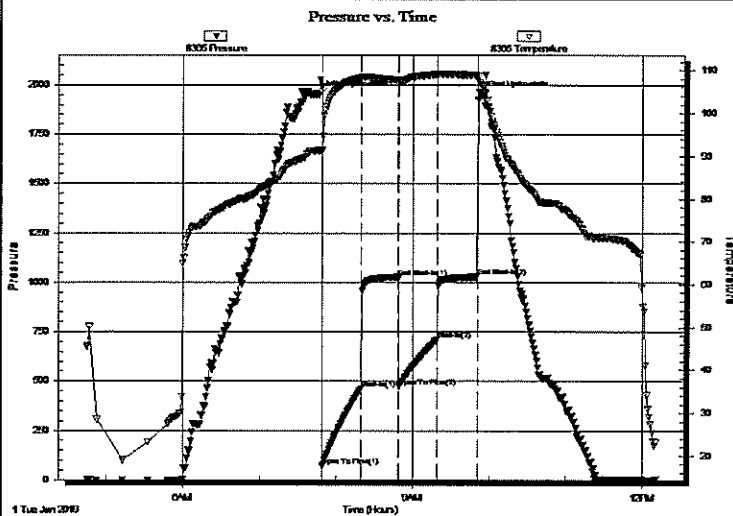
Start Time: 04:45:01

End Time: 12:11:02

Time On Btm: 2019.01.01 @ 07:47:02

Time Off Btm: 2019.01.01 @ 09:53:02

TEST COMMENT: IFP 30 Minutes Built to BOB in 3 min Total build 48" - loose hose connection found
ISI 30 Minutes No blow back
FFP 30 Minutes Built to BOB in 3 1/4 min Total build 78"
FSI 30 Minutes No blow back



PRESSURE SUMMARY

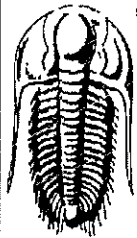
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1947.20	91.24	Initial Hydro-static
3	68.74	91.39	Open To Flow (1)
33	461.25	108.33	Shut-In(1)
62	1026.47	107.67	End Shut-In(1)
63	473.71	107.40	Open To Flow (2)
92	709.03	109.08	Shut-In(2)
123	1027.77	108.81	End Shut-In(2)
126	1946.91	106.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
771.00	MW M 15% W 85%	9.72
756.00	SMW M 5% W 95%	10.60
0.00	Light oil spot in tool	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc.
 4924 SE 84th St
 New ton, KS 67114+8827
 ATTN: Sean Deenihan

13-20S-34W Scott,KS

Pemberton #1

Job Ticket: 65076

DST#: 1

Test Start: 2019.01.01 @ 04:45:00

GENERAL INFORMATION:

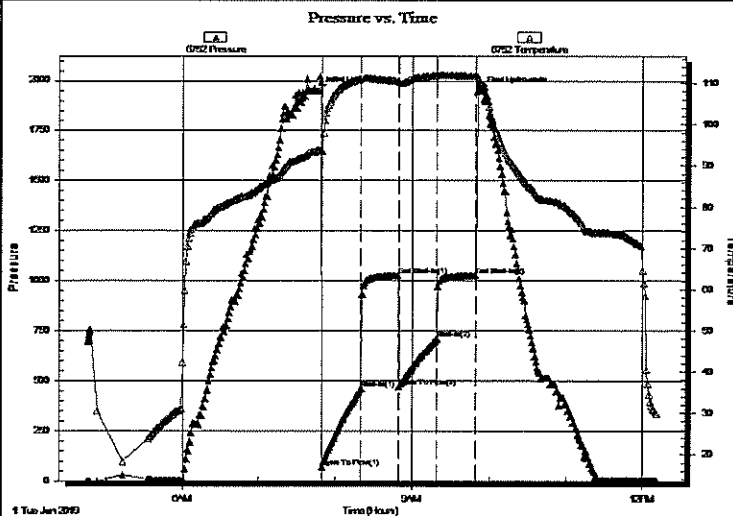
Formation: **LKC 1**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 07:49:17
 Time Test Ended: 12:11:02
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72
 Interval: **4071.00 ft (KB) To 4152.00 ft (KB) (TVD)**
 Total Depth: 4152.00 ft (KB) (TVD)
 Reference Elevations: 2997.00 ft (KB)
 2992.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 6752

Outside

Press@RunDepth: 1026.97 psig @ 4073.00 ft (KB) Capacity: psig
 Start Date: 2019.01.01 End Date: 2019.01.01 Last Calib.: 2019.01.01
 Start Time: 04:45:01 End Time: 12:12:02 Time On Btm: 2019.01.01 @ 07:47:17
 Time Off Btm: 2019.01.01 @ 09:52:17

TEST COMMENT: IFP 30 Minutes Built to BOB in 3 min Total build 48" - loose hose connection found
 ISI 30 Minutes No blow back
 FFP 30 Minutes Built to BOB in 3 1/4 min Total build 78"
 FSI 30 Minutes No blow back



PRESSURE SUMMARY

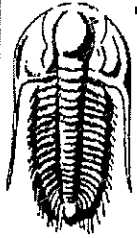
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1946.03	93.86	Initial Hydro-static
2	68.86	93.50	Open To Flow (1)
33	462.00	111.09	Shut-In(1)
62	1026.15	110.57	End Shut-In(1)
62	472.12	110.42	Open To Flow (2)
92	709.27	111.92	Shut-In(2)
123	1026.97	111.74	End Shut-In(2)
125	1949.28	110.19	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
771.00	MW M 15% W 85%	9.72
756.00	SMW M 5% W 95%	10.60
0.00	Light oil spot in tool	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Sean Deenihan

13-20S-34W Scott,KS
Pemberton #1
Job Ticket: 65076 DST#: 1
Test Start: 2019.01.01 @ 04:45:00

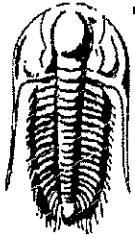
Tool Information

Drill Pipe:	Length: 3941.00 ft	Diameter: 3.80 inches	Volume: 55.28 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 55.87 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4071.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.76 ft			
Tool Length:	106.76 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4050.00	
Hydraulic tool	5.00			4055.00	
Jars	6.00			4061.00	
Packer	5.00			4066.00	26.00 Bottom Of Top Packer
Packer	5.00			4071.00	
Recorder	1.00	8365	Inside	4072.00	
Recorder	1.00	6752	Outside	4073.00	
Anchor	11.00			4084.00	
Change Over Sub	1.00			4085.00	
Drill Pipe	62.76			4147.76	
Change Over Sub	1.00			4148.76	
Bullnose	3.00			4151.76	80.76 Bottom Packers & Anchor

Total Tool Length: 106.76



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Sean Deenihan

13-20S-34W Scott,KS
Pemberton #1
Job Ticket: 65076 DST#: 1
Test Start: 2019.01.01 @ 04:45:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	38000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

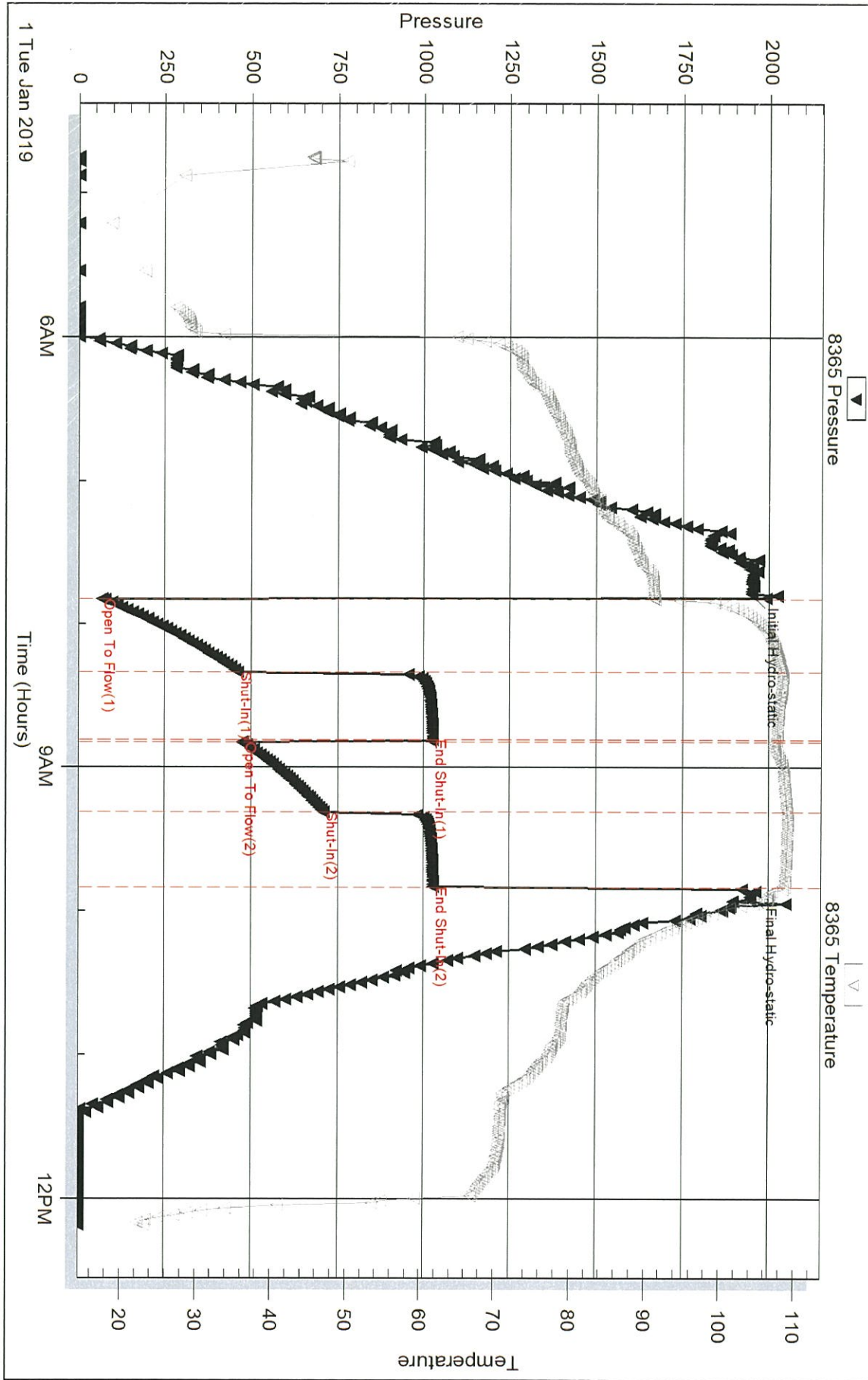
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
771.00	MVM M 15% W 85%	9.722
756.00	SMV M 5% W 95%	10.605
0.00	Light oil spot in tool	0.000

Total Length: 1527.00 ft Total Volume: 20.327 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Recovery Resistivity .334 ohms @ 38 deg.

Pressure vs. Time



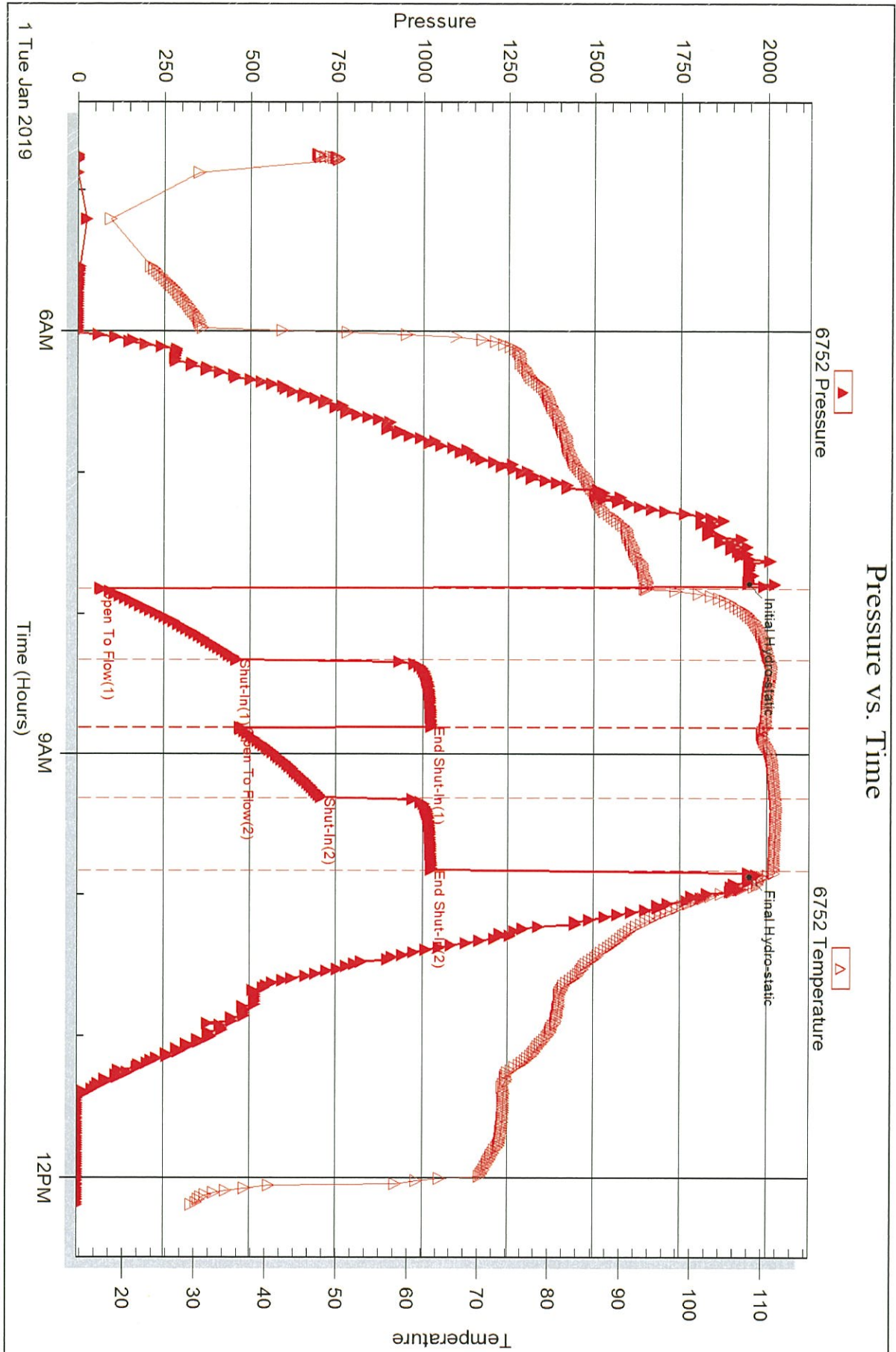
Serial #: 6752

Outside

Palomino Petroleum Inc.

Pemberton #1

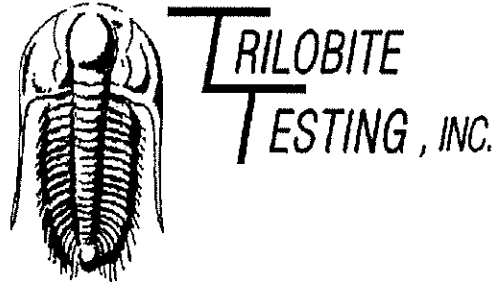
DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65076

Printed: 2019.01.07 @ 10:34:16



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum Inc.**

4924 SE 84th St
Newton, KS 67114+8827

ATTN: Sean Deenihan

Pemberton #1

13-20S-34W Scott,KS

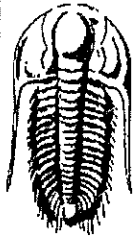
Start Date: 2019.01.02 @ 19:05:00

End Date: 2019.01.03 @ 01:05:02

Job Ticket #: 65077 DST #: 2

Trilobite Testing, Inc
1515 Commerce Parkway Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2019.01.07 @ 10:27:22



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc.
 4924 SE 84th St
 New ton, KS 67114+8827
 ATTN: Sean Deenihan

13-20S-34W Scott,KS

Pemberton #1

Job Ticket: 65077

DST#: 2

Test Start: 2019.01.02 @ 19:05:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:03:32

Time Test Ended: 01:05:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: **4360.00 ft (KB) To 4480.00 ft (KB) (TVD)**

Total Depth: 4480.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2997.00 ft (KB)

2992.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8365

Inside

Press@RunDepth: 25.63 psig @ 4361.00 ft (KB)

Start Date: 2019.01.02

End Date:

2019.01.03

Capacity:

psig

Start Time: 19:05:01

End Time:

01:05:02

Last Calib.:

2019.01.03

Time On Btm:

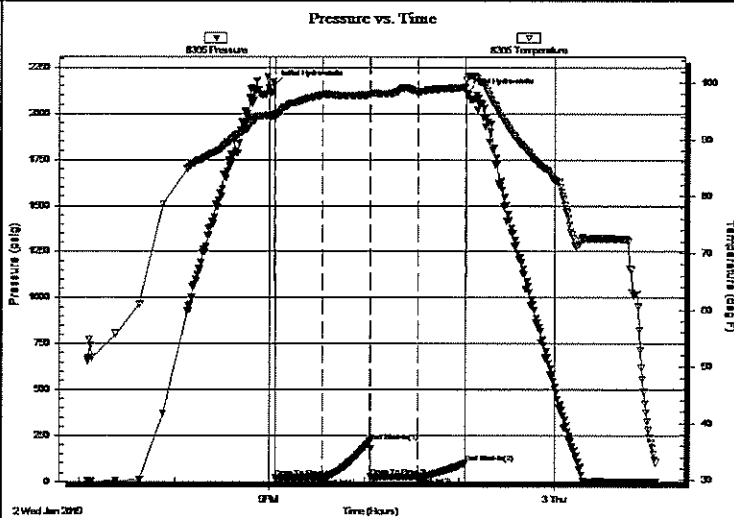
2019.01.02 @ 21:03:17

Time Off Btm:

2019.01.02 @ 23:04:32

TEST COMMENT:

IFP 30 Minutes Blow built to 1 3/4"
 ISI 30 Mintues No blow back
 FFP 30 Mintues Few bubbles at open then dead
 FSI 30 Minutes No blow back



PRESSURE SUMMARY

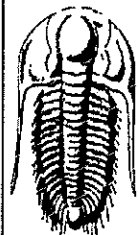
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.26	94.47	Initial Hydro-static
1	20.41	93.92	Open To Flow (1)
30	23.23	97.89	Shut-in(1)
61	218.90	97.89	End Shut-In(1)
61	24.32	98.03	Open To Flow (2)
91	25.63	98.50	Shut-In(2)
121	100.73	99.25	End Shut-In(2)
122	2112.04	100.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.07

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum Inc.
 4924 SE 84th St
 Newton, KS 67114+8827
 ATTN: Sean Deenihan

13-20S-34W Scott, KS

Pemberton #1

Job Ticket: 65077

DST#: 2

Test Start: 2019.01.02 @ 19:05:00

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:03:32

Time Test Ended: 01:05:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72

Interval: **4360.00 ft (KB) To 4480.00 ft (KB) (TVD)**

Total Depth: 4480.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2997.00 ft (KB)

2992.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6752

Outside

Press@RunDepth: 103.29 psig @ 4362.00 ft (KB)

Start Date: 2019.01.02 End Date: 2019.01.03

Start Time: 19:05:01 End Time: 01:06:02

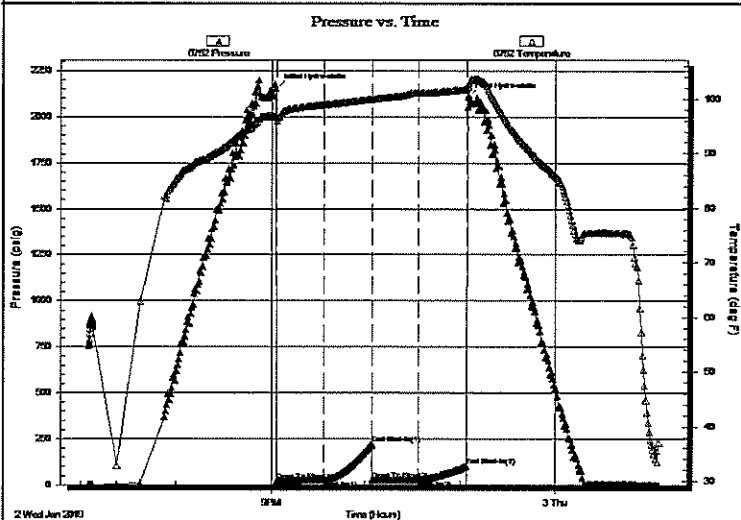
Capacity: psig

Last Calib.: 2019.01.03

Time On Btm: 2019.01.02 @ 21:03:17

Time Off Btm: 2019.01.02 @ 23:04:47

TEST COMMENT: IFP 30 Minutes Blow built to 1 3/4"
 ISI 30 Minutes No blow back
 FFP 30 Minutes Few bubbles at open then dead
 FSI 30 Minutes No blow back



PRESSURE SUMMARY

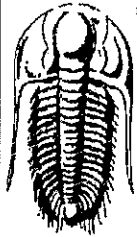
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2156.20	96.78	Initial Hydro-static
1	22.29	95.92	Open To Flow (1)
30	24.95	98.90	Shut-In(1)
61	220.21	99.92	End Shut-In(1)
61	26.06	99.94	Open To Flow (2)
91	27.20	101.10	Shut-In(2)
121	103.29	101.76	End Shut-In(2)
122	2110.02	102.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	Mud 100%	0.07

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Sean Deenihan

13-20S-34W Scott,KS
Pemberton #1
Job Ticket: 65077 **DST#: 2**
Test Start: 2019.01.02 @ 19:05:00

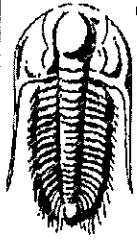
Tool Information

Drill Pipe:	Length: 4224.00 ft	Diameter: 3.80 inches	Volume: 59.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 64000.00 lb
			<u>Total Volume: 59.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 59000.00 lb
Depth to Top Packer:	4360.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	119.72 ft			
Tool Length:	145.72 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4339.00	
Hydraulic tool	5.00			4344.00	
Jars	6.00			4350.00	
Packer	5.00			4355.00	26.00 Bottom Of Top Packer
Packer	5.00			4360.00	
Recorder	1.00	8365	Inside	4361.00	
Recorder	1.00	6752	Outside	4362.00	
Anchor	18.00			4380.00	
Change Over Sub	1.00			4381.00	
Drill Pipe	94.72			4475.72	
Change Over Sub	1.00			4476.72	
Bullnose	3.00			4479.72	119.72 Bottom Packers & Anchor

Total Tool Length: 145.72



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum Inc.
4924 SE 84th St
New ton, KS 67114+8827
ATTN: Sean Deenihan

13-20S-34W Scott,KS
Pemberton #1
Job Ticket: 65077 **DST#: 2**
Test Start: 2019.01.02 @ 19:05:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 49.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 4600.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Mud 100%	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

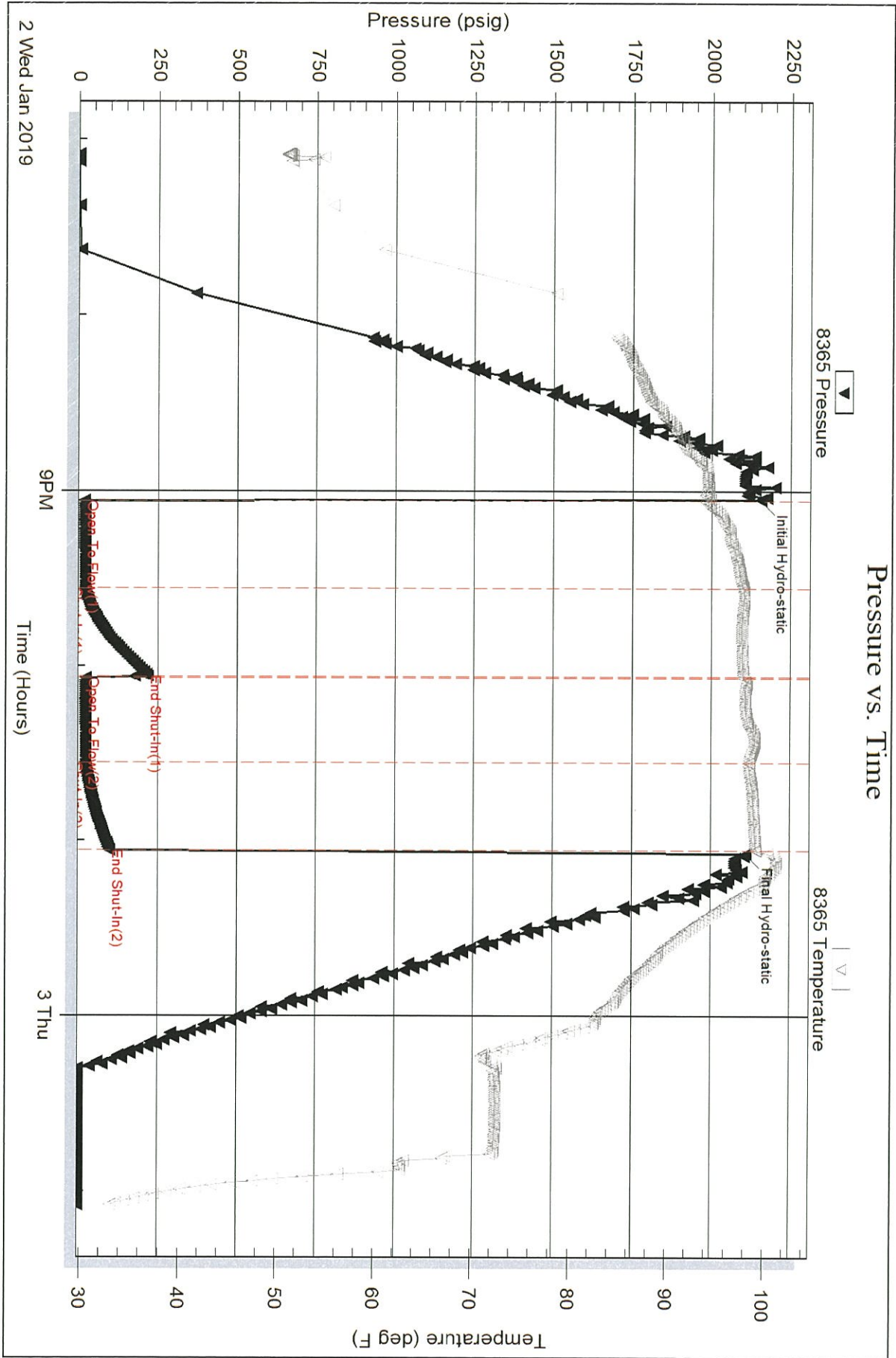
Serial #: 8365

Inside

Palomino Petroleum Inc.

Pemberton #1

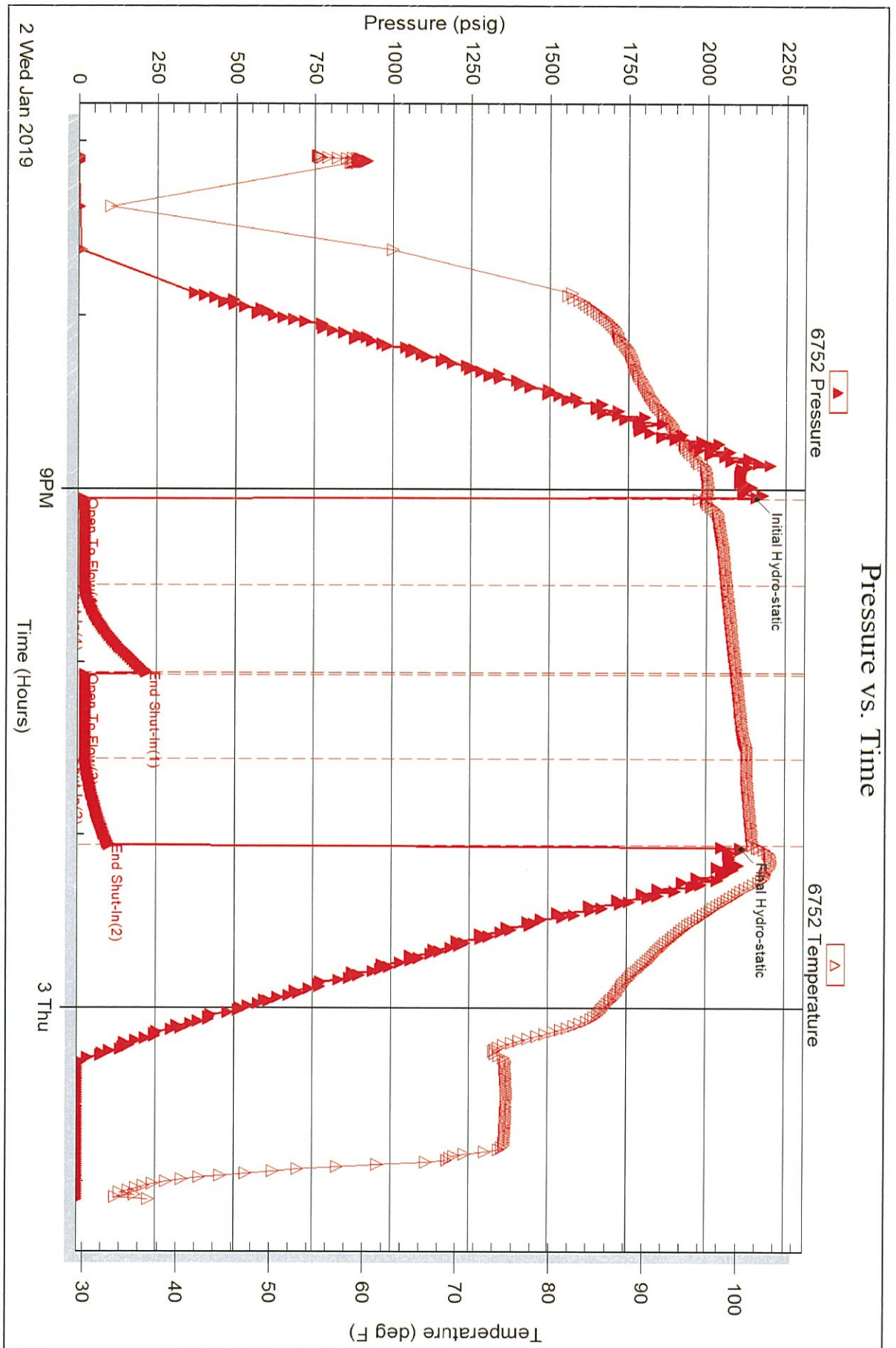
DST Test Number: 2

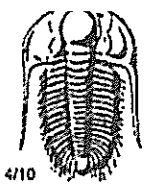


Trilobite Testing, Inc

Ref. No: 65077

Printed: 2019.01.07 @ 10:27:22





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65076

Well Name & No. Pemberton #1 Test No. 1 Date 1 JAN 19
 Company Palomina Petroleum Inc. Elevation 2997 KB 2992 GL
 Address 4924 SE 84th St Newton Kansas 67114+8827
 Co. Rep / Geo. Sean Deenihan Rig WW Rig 2
 Location: Sec. 13 Twp 20S Rge. 34W Co. Scott State KS

Interval Tested 4071-4152 Zone Tested Lansing zone I
 Anchor Length ~~4066~~ 4152 Drill Pipe Run 3941 Mud Wt. 8.9
 Top Packer Depth 4066 Drill Collars Run 120 Vis 48
 Bottom Packer Depth 4071 Wt. Pipe Run — WL 8.0
 Total Depth 4152 Chlorides 4000 ppm System LCM 2#

Blow Description I.F. Blow built to BOB in 3 minutes / Total build 48" / 10000 cc/min
F.S.I. No blow back
F.F. Blow built to BOB 3 1/4 min / Total build 78"
F.S.I. No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>771</u>	<u>Muddy Water</u>			<u>85%</u>	<u>15%</u>
<u>756</u>	<u>Muddy Water light oil spot in total</u>			<u>75%</u>	<u>5%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

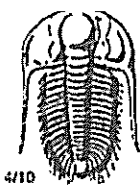
Rec Total 1527 BHT 109 Gravity _____ API RW .334 @ 38 °F Chlorides 38000 ppm

(A) Initial Hydrostatic 1947 Test 1150 T-On Location 1:38 am
 (B) First Initial Flow 68 Jars 250 T-Started 4:45 am
 (C) First Final Flow 46.1 Safety Joint _____ T-Open 7:48 am
 (D) Initial Shut-In 1026 Circ Sub _____ T-Pulled 9:48 am
 (E) Second Initial Flow 473 Hourly Standby _____ T-Out 12:12 pm
 (F) Second Final Flow 709 Mileage 36 36 mi Comments _____
 (G) Final Shut-In 1027 Sampler _____
 (H) Final Hydrostatic 1946 Straddle _____

Initial Open 30 Shale Packer _____ EM Tool _____
 Initial Shut-In 30 Extra Packer _____ Ruined Shale Packer _____
 Final Flow 30 Extra Recorder _____ Ruined Packer _____
 Final Shut-In 30 Day Standby _____ Extra Copies _____
 Sub Total 1436 Accessibility _____ Sub Total 0
 Total 1436 MP/DST Disc't _____

Approved By _____ Our Representative _____

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65077

Well Name & No. Pemberton #2 Test No. 1 Date 2 JAN 19
 Company Palemio Petroleum Inc Elevation 2997 KB 2992 GL
 Address 4924 SE 84th St Newton Kansas 67114-8827
 Co. Rep / Geo. Sean Deenihan Rig WW Rig 2
 Location: Sec. 13 Twp 20S Rge. 34W Co. Scott State KS

Interval Tested 4360-4480 Zone Tested Marmaton
 Anchor Length 120 Drill Pipe Run 4224 Mud Wt. 9.0
 Top Packer Depth 4355 Drill Collars Run 120 Vis 49
 Bottom Packer Depth 4360 Wt. Pipe Run - WL 8.0
 Total Depth 4480 Chlorides 4600 ppm System LCM 2#

Blow Description IF Blow in. It to 1 3/4 inch
I.S.I No blow back
FF Few bubbles at open then done!
F.S.I No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>15</u>	<u>Mud</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 15 BHT 99 Gravity 1.5 API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 2156 Test 1150 T-On Location 4:07 pm
 (B) First Initial Flow 20 Jars 250 T-Started 7:05 pm
 (C) First Final Flow 23 Safety Joint _____ T-Open 9:03 pm
 (D) Initial Shut-in 218 Circ Sub _____ T-Pulled 11:03 pm
 (E) Second Initial Flow 24 Hourly Standby _____ T-Out 1:05 am
 (F) Second Final Flow 25 Mileage 72 36 mi Comments _____
 (G) Final Shut-In 100 Sampler _____ Loaded tools 1/4 12:46
 (H) Final Hydrostatic 2112 Straddle _____ EM Tool _____

Initial Open 30 Shale Packer _____ Ruined Shale Packer _____
 Initial Shut-In 30 Extra Packer _____ Ruined Packer _____
 Final Flow 30 Extra Recorder _____ Extra Copies _____
 Final Shut-In 30 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1472
 Sub Total 1472 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]

Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.