

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](mailto: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)</i> <i>(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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**HURRICANE SERVICES INC**



Remit To: Hurricane Services, Inc.  
250 N. Water, Suite 200  
Wichita, KS 67202  
316-303-9515

Customer:  
PALOMINO PETROLEUM INC  
4924 SE 84TH ST  
NEWTON, KS 67114-8827

Invoice Date: 11/17/2021  
Invoice #: 0357119  
Lease Name: Spectre  
Well #: 2  
County: Ness, Ks  
Job Number: WP2104  
District: Oakley

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
H-325	190.000	18.000	3,420.00
Light Eq Mileage	90.000	1.800	162.00
Heavy Eq Mileage	90.000	3.600	324.00
Ton Mileage	843.000	1.350	1,138.05
Depth Charge 0'-500'	1.000	900.000	900.00

*Cement for surface for #2  
11/17*

**Total** 5,944.05

**TERMS:** Net 30 days. Interest may be charged on past due invoice at rate of 1 ½% per month or maximum allowed by applicable state or federal laws. HSI has right to revoke any discounts applied in arriving at net invoice price if invoice is past due. If revoked, full invoice price without discount plus additional sales tax, as applicable, is due immediately and subject to interest charges. Customer agrees to pay all collection costs directly or indirectly incurred by HSI in the event HSI engages a third party to pursue collection of past due invoice.

**SALES TAX:** Services performed on oil, gas and water wells in Kansas are subject to sales tax, with certain exceptions. HSI relies on the well information provided by the customer in identifying whether the services performed on wells qualify for exemption.

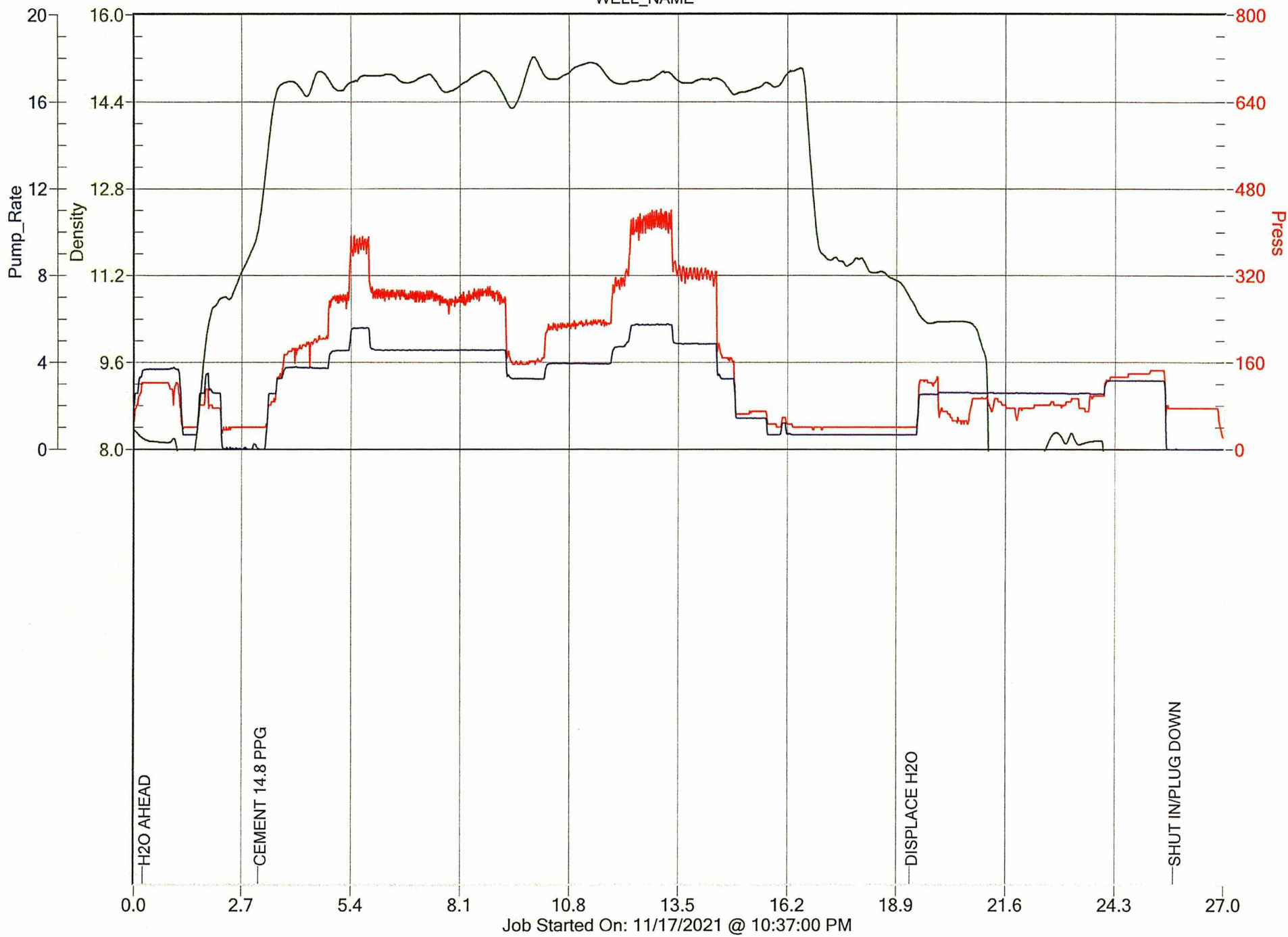
**WE APPRECIATE YOUR BUSINESS!**





# Palomino Petroleum

WELL\_NAME



Job Started On: 11/17/2021 @ 10:37:00 PM



## DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St  
Newton, KS 67114

ATTN: Andrew Stenzel

### **Spectre #2**

#### **17-18s-24w Ness,KS**

Start Date: 2021.11.22 @ 13:32:08

End Date: 2021.11.22 @ 21:15:38

Job Ticket #: 67690                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.11.24 @ 11:48:58





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**17-18s-24w Ness,KS**

4924 SE 84th St  
New ton, KS 67114

**Spectre #2**

Job Ticket: 67690

**DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2021.11.22 @ 13:32:08

## GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:54:08

Time Test Ended: 21:15:38

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

**Interval: 4248.00 ft (KB) To 4319.00 ft (KB) (TVD)**

Reference Elevations: 2311.00 ft (KB)

Total Depth: 4319.00 ft (KB) (TVD)

2303.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8674 Outside**

Press@RunDepth: 376.69 psig @ 4249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.11.22 End Date: 2021.11.22

Last Calib.: 2021.11.22

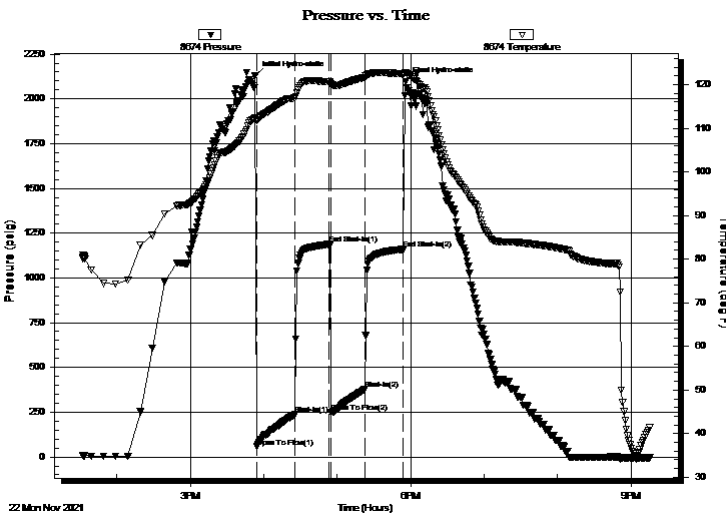
Start Time: 13:32:13 End Time: 21:15:37

Time On Btm: 2021.11.22 @ 15:53:08

Time Off Btm: 2021.11.22 @ 17:56:08

**TEST COMMENT:** IF: BOB in 5 mins. 50"  
IS: Surface blow built to 2"  
FF: BOB in 7 mins. 39"  
FS: Surface blow built to 1/2" 30-30-30-30

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.82	112.30	Initial Hydro-static
1	56.40	111.79	Open To Flow (1)
33	237.18	116.91	Shut-In(1)
61	1187.38	120.60	End Shut-In(1)
62	246.95	120.13	Open To Flow (2)
90	376.69	121.70	Shut-In(2)
121	1159.91	122.43	End Shut-In(2)
123	2095.30	122.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
63.00	mcgo 10%g 50%o 40%m	0.88
252.00	gocm 20%g 10%o 70%m	3.53
126.00	mcgo 10%g 80%o 10%m	1.77
524.00	go 10%g 90%o	7.35
0.00	232 GIP	0.00

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Palomino Petroleum

**17-18s-24w Ness,KS**

4924 SE 84th St  
New ton, KS 67114

**Spectre #2**

Job Ticket: 67690

**DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2021.11.22 @ 13:32:08

## Tool Information

Drill Pipe:	Length: 4253.00 ft	Diameter: 3.80 inches	Volume: 59.66 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: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 59.66 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4248.00 ft			Final 54000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	71.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Stubb	1.00			4222.00	
Shut In Tool	5.00			4227.00	
Hydraulic tool	5.00			4232.00	
Jars	5.00			4237.00	
Safety Joint	2.00			4239.00	
Packer	5.00			4244.00	27.00 Bottom Of Top Packer
Packer	4.00			4248.00	
Stubb	1.00			4249.00	
Recorder	0.00	8790	Inside	4249.00	
Recorder	0.00	8674	Outside	4249.00	
Perforations	2.00			4251.00	
Change Over Sub	1.00			4252.00	
Drill Pipe	63.00			4315.00	
Change Over Sub	1.00			4316.00	
Bullnose	3.00			4319.00	71.00 Bottom Packers & Anchor

**Total Tool Length: 98.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Palomino Petroleum

**17-18s-24w Ness,KS**

4924 SE 84th St  
New ton, KS 67114

**Spectre #2**

Job Ticket: 67690

**DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2021.11.22 @ 13:32:08

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 5.59 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3600.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	mcgo 10%g 50%o 40%m	0.884
252.00	gocm 20%g 10%o 70%m	3.535
126.00	mcgo 10%g 80%o 10%m	1.767
524.00	go 10%g 90%o	7.350
0.00	232 GIP	0.000

Total Length: 965.00 ft      Total Volume: 13.536 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

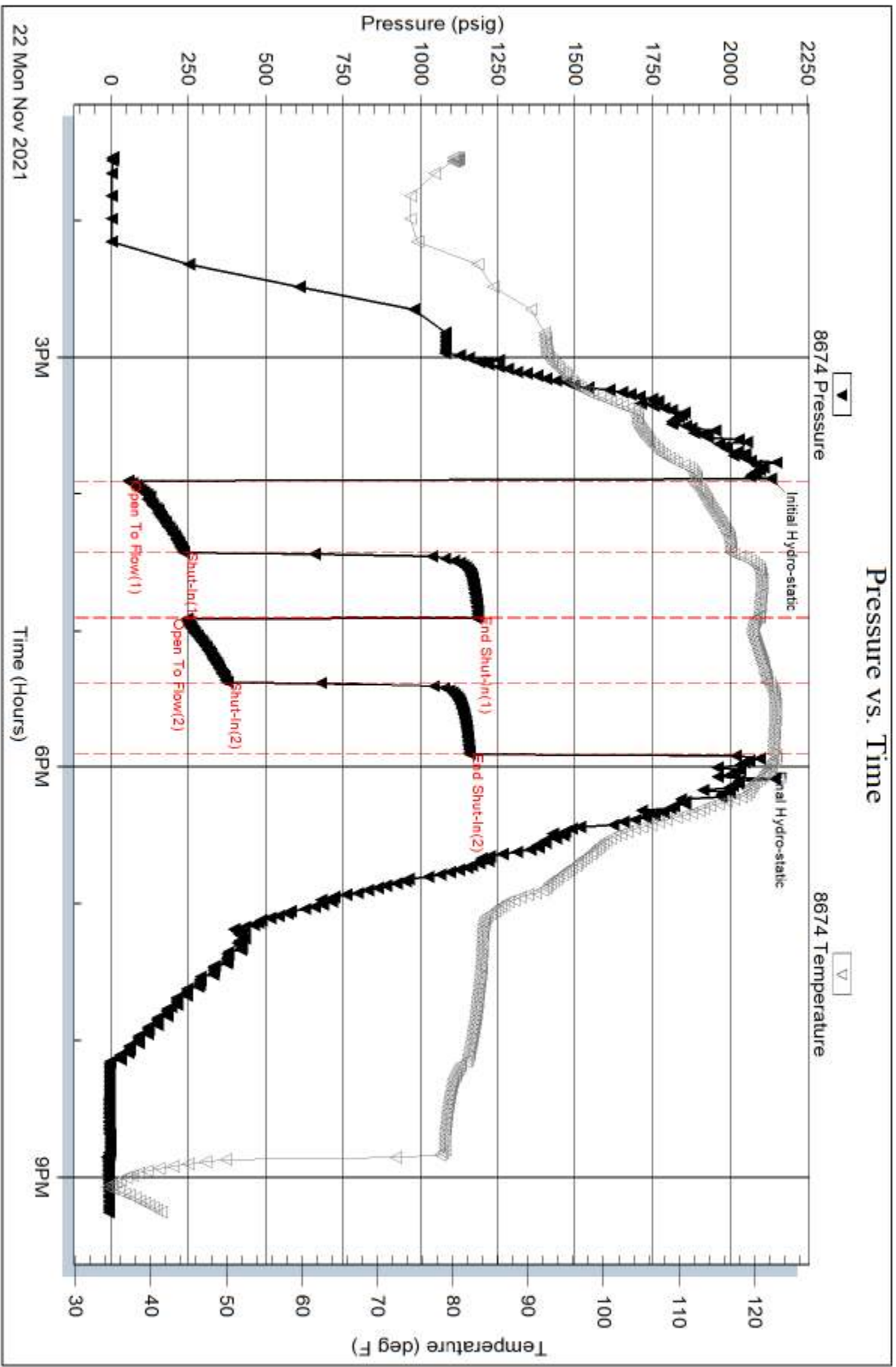
Recovery Comments: 33@40=35

Serial #: 8674

Outside Palomino Petroleum

Spectre #2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 67690

Printed: 2021.11.24 @ 11:49:07

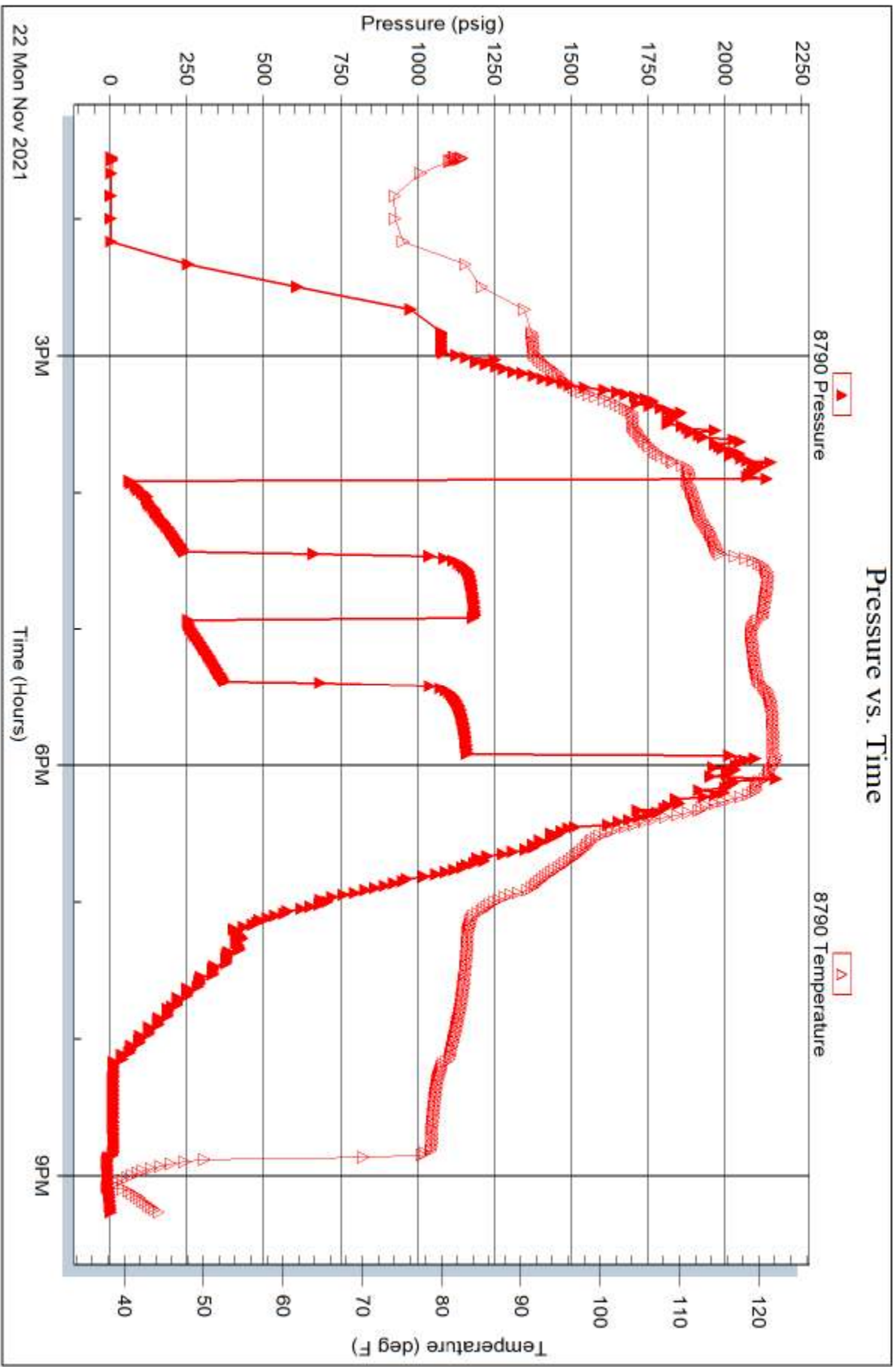
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Inside

Palomino Petroleum

Spectre #2

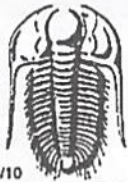
DST Test Number: 1



Tribble Testing, Inc

Ref. No: 67690

Printed: 2021.11.24 @ 11:49:07



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 67690

Well Name & No. Spectre #2 Test No. 1 Date 11-22-21  
 Company Perdomino Petroleum Elevation 2311 KB 2303 GL  
 Address 4924 SE 84th St Newton, KS 67114  
 Co. Rep / Geo. Andrew Stenzel Rig Duke 2  
 Location: Sec. 17 Twp 18 Rge. 24W Co. Ness State KS

Interval Tested 4248 4319 Zone Tested MISS  
 Anchor Length 71 Drill Pipe Run 4253 Mud Wt. 9.4  
 Top Packer Depth 4243 Drill Collars Run — Vis 60  
 Bottom Packer Depth 4248 Wt. Pipe Run — WL 5.6  
 Total Depth 4319 Chlorides 3600 ppm System LCM 1

Blow Description IF: BoB in 5 mins. 50"  
FS: surface blow built to 2"  
FB: BoB in 7 mins. 39"  
FS: surface blow built to 1/2"

Rec	Feet of	%gas	%oil	%water	%mud
<u>524</u>	<u>90</u>	<u>10</u>	<u>90</u>		
<u>126</u>	<u>MC90</u>	<u>10</u>	<u>80</u>		<u>10</u>
<u>252</u>	<u>90CM</u>	<u>20</u>	<u>10</u>		<u>70</u>
<u>63</u>	<u>MC90</u>	<u>10</u>	<u>50</u>		<u>40</u>

Rec Total 965 BHT 122 Gravity 35 API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic 2131  Test 1450 T-On Location 8:45  
 (B) First Initial Flow 56  Jars 250 T-Started 13:32  
 (C) First Final Flow 237  Safety Joint 75 T-Open 15:54  
 (D) Initial Shut-In 1187  Circ Sub NIL T-Pulled 17:54  
 (E) Second Initial Flow 246  Hourly Standby 2.5h 250 T-Out 21:15  
 (F) Second Final Flow 376  Mileage 116 + 2 290 Comments drawworks  
 (G) Final Shut-In 1159  Sampler — broke down,  
 (H) Final Hydrostatic 2095  Straddle — loaded tools 11/23 14:00

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 2315  Accessibility — Sub Total 0  
 Sub Total 2315  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.



Home  
(785) 798-2400

# Andrew Stenzel Geologist

Ness City, Kansas



Cell  
(785) 798-5977

## Scale 1:240 (5"=100') Imperial Measured Depth Log

Well Name: Spectre #2  
 API: 15-135-26126-00-00  
 Location: Sec. 17-18S-24W (Ness County)  
 License Number: 30742  
 Spud Date: 11/16/21  
 Surface Coordinates: 330' FNL & 1618' FWL

Region: KANSAS  
 Drilling Completed: 11/23/21

Bottom Hole  
 Coordinates:  
 Ground Elevation (ft): 2303  
 Logged Interval (ft): 3500 To: TD  
 Formation: MISSISSIPPIAN  
 Type of Drilling Fluid: Mud-Co Chemical

K.B. Elevation (ft): 2311  
 Total Depth (ft): 4430

Printed by MudLog from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### OPERATOR

Company: Palomino Petroleum, Inc.  
 Address: 4924 SE 84th St.  
 Newton, KS 67114

### GEOLOGIST

Name: Andrew Stenzel  
 Company: Petroleum Geologist  
 Address: 501 S. Franklin  
 Ness City, KS 67560

### Drilling Report

#### DAILY DRILLING REPORT:

11/16/21 MIRU, ran surface casing  
 11/17/21 Waiting on cement  
 11/18/21 Drilling @ 1976'  
 11/19/21 Drilling @ 2664'  
 11/20/21 Drilling @ 3514'  
 11/21/21 Drilling @ 4012'  
 11/22/21 Tripping out of hole for DST #1  
 11/23/21 Tripping out of hole for electric logs, ran electric logs, and production casing



## Services

RIG: Duke Drilling Co, Rig #2

MUD: MUDCO

LOGS: Gemini Wireline; CNDL, PE, DIL, ML

## Casing Record

SURFACE Casing: Ran 5 jts new 8 5/8", 23# casing @ 208'

PRODUCTION Casing: Ran 105 jts new 5 1/2", 14# casing @ 4430'

## Formation Tops

Sample Tops		LogTops	
Anhy.	1592 (+719)	Anhy.	1590 (+721)
Base Anhy.	1630 (+681)	Base Anhy.	1622 (-689)
Heebner	3662 (-1351)	Heebner	3661 (-1350)
Lansing	3702 (-1391)	Lansing	3702 (-1391)
BKC	4003 (-1692)	BKC	4002 (-1691)
Pawnee	4126 (-1815)	Pawnee	4124 (-1813)
Ft. Scott	4206 (-1895)	Ft. Scott	4200 (-1889)
Cher. Sh.	4229 (-1918)	Cher. Sh.	4224 (-1913)
Miss.	4300 (-1989)	Miss.	4296 (-1985)
RTD	4430 (-2119)	LTD	4430 (-2119)



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Palomino Petroleum

**17-18s-24w Ness, KS**

4924 SE 84th St  
New ton, KS 67114

**Spectre #2**

Job Ticket: 67690

**DST#: 1**

ATTN: Andrew Stenzel

Test Start: 2021.11.22 @ 13:32:08

## GENERAL INFORMATION:

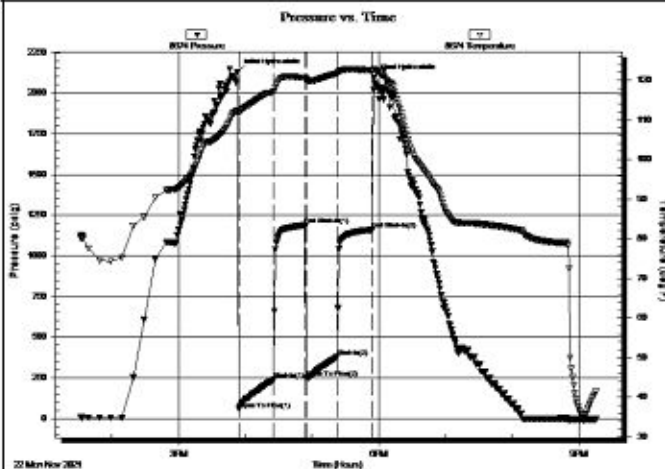
Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 15:54:08  
 Time Test Ended: 21:15:38  
 Interval: **4248.00 ft (KB) To 4319.00 ft (KB) (TVD)**  
 Total Depth: 4319.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Brandon Turley  
 Unit No: 79  
 Reference Elevations: 2311.00 ft (KB)  
 2303.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8674

**Outside**

Press@RunDepth: 376.69 psig @ 4249.00 ft (KB)  
 Start Date: 2021.11.22 End Date: 2021.11.22  
 Start Time: 13:32:13 End Time: 21:15:37  
 Capacity: 8000.00 psig  
 Last Calib.: 2021.11.22  
 Time On Btmr: 2021.11.22 @ 15:53:08  
 Time Off Btmr: 2021.11.22 @ 17:56:08

TEST COMMENT: IF: BOB in 5 mins. 50"  
 IS: Surface blow built to 2"  
 FF: BOB in 7 mins. 39"  
 FS: Surface blow built to 1/2" 30-30-30-30



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2131.82	112.30	Initial Hydro-static
1	56.40	111.79	Open To Flow (1)
33	237.18	116.91	Shut-In(1)
61	1187.38	120.60	End Shut-In(1)
62	246.95	120.13	Open To Flow (2)
90	376.69	121.70	Shut-In(2)
121	1159.91	122.43	End Shut-In(2)
123	2095.30	122.71	Final Hydro-static


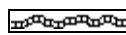
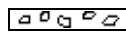

## Recovery

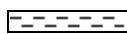
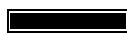


Length (ft)	Description	Volume (bbl)
63.00	mcgo 10%g 50%o 40%m	0.88
252.00	gocm 20%g 10%o 70%m	3.53
126.00	mcgo 10%g 80%o 10%m	1.77
524.00	go 10%g 90%o	7.35
0.00	232 GIP	0.00





## Gas Rates

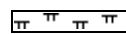
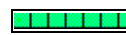
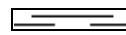
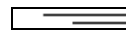
Choke (Inches)	Pressure (psig)	Gas Rate (Mcf/d)

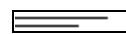



### ROCK TYPES

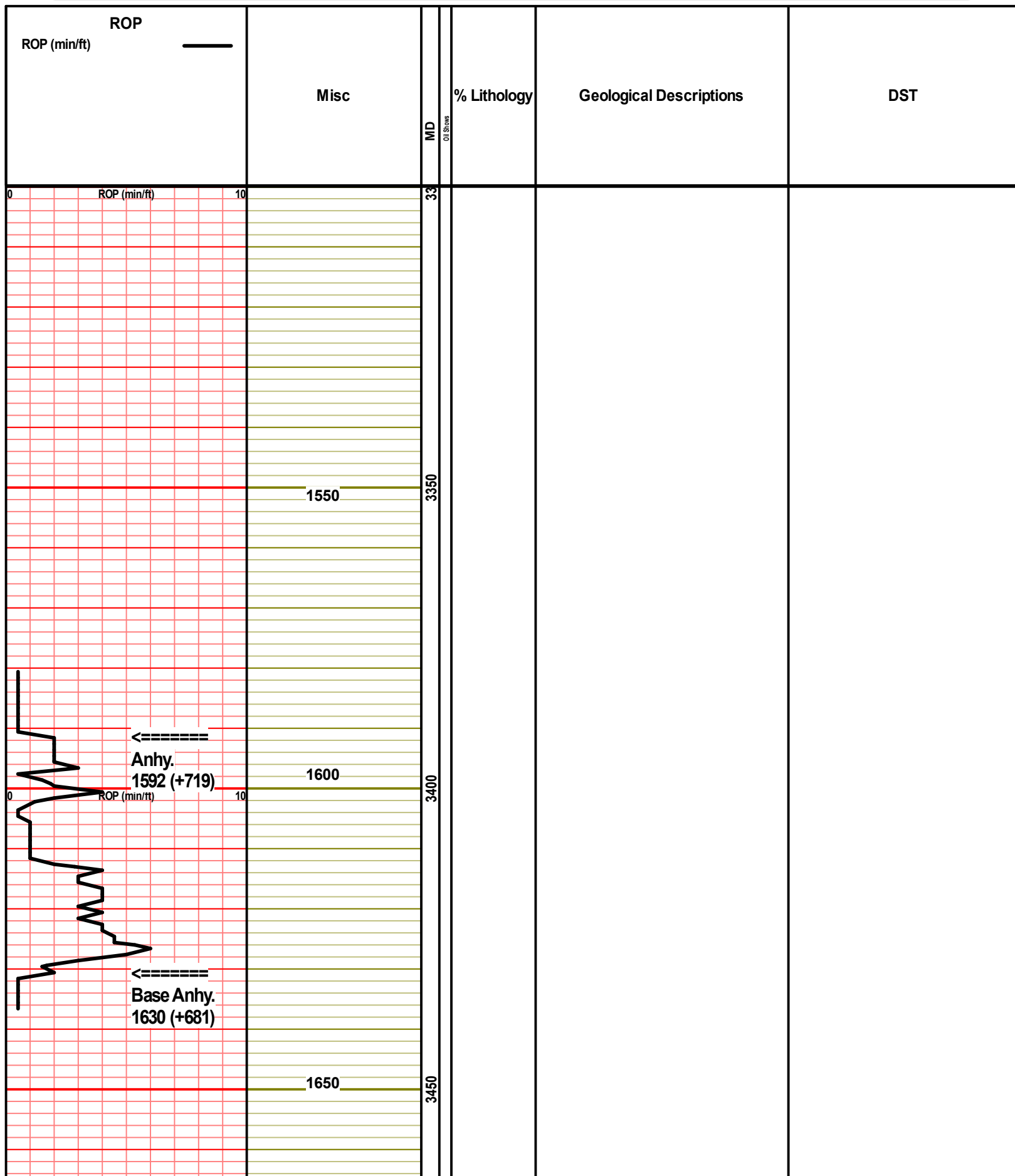
-  Anhy
-  Bent
-  Brec
-  Cht

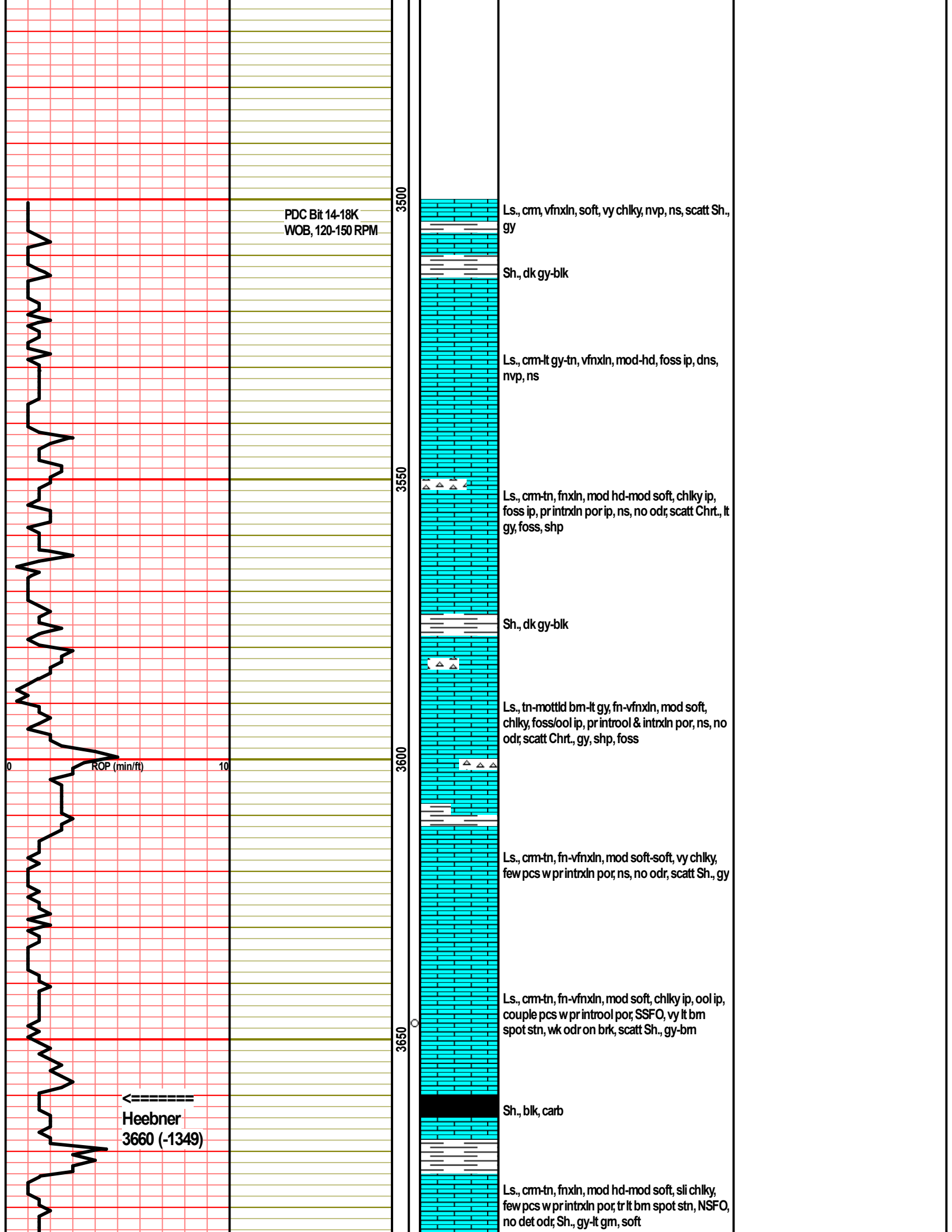
-  Clyst
-  Carb shale
-  Congl
-  Dol

-  Gyp
-  Igne
-  Lmst
-  Meta

-  Mrlst
-  Salt
-  Shale
-  Shcol

-  Shgy
-  Sltst
-  Ss
-  Till





PDC Bit 14-18K  
WOB, 120-150 RPM

3500

Ls., cm, vfnxn, soft, vy chlky, nvp, ns, scatt Sh., gy

Sh., dk gy-blk

Ls., cm-lt gy-tn, vfnxn, mod-hd, foss ip, dns, nvp, ns

3550

Ls., cm-tn, fnxn, mod hd-mod soft, chlky ip, foss ip, pr intrxn por ip, ns, no odr, scatt Chrt., lt gy, foss, shp

Sh., dk gy-blk

Ls., tn-mottld bm-lt gy, fn-vfnxn, mod soft, chlky, foss/oal ip, pr introol & intrxn por, ns, no odr, scatt Chrt., gy, shp, foss

3600

Ls., cm-tn, fn-vfnxn, mod soft-soft, vy chlky, few pcs w pr intrxn por, ns, no odr, scatt Sh., gy

Ls., cm-tn, fn-vfnxn, mod soft, chlky ip, ool ip, couple pcs w pr introol por, SSFO, vy lt bm spot stn, wk odr on brk, scatt Sh., gy-bm

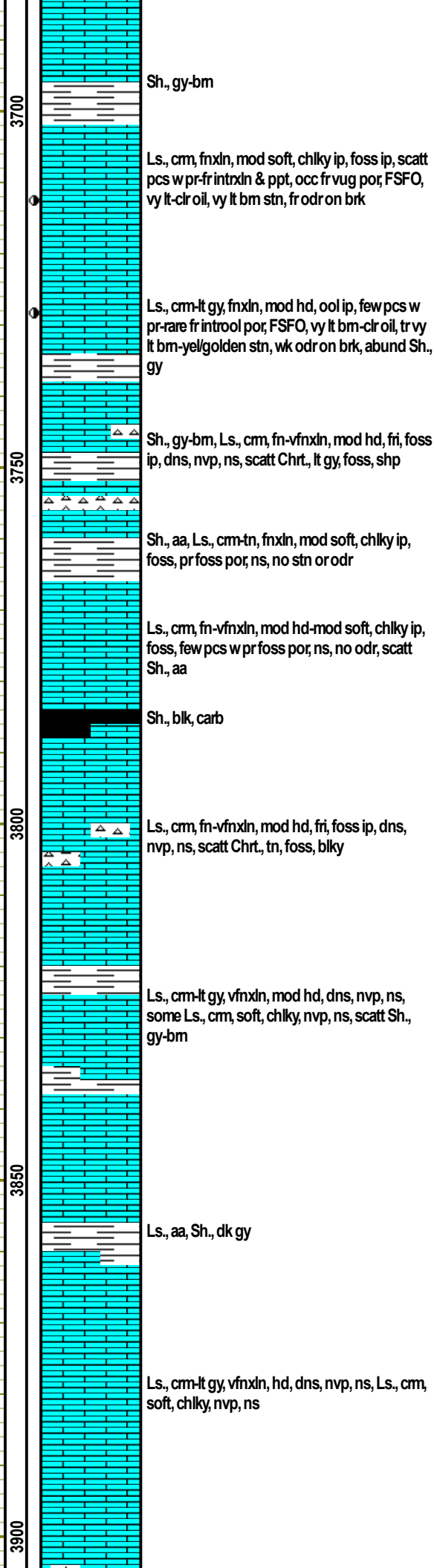
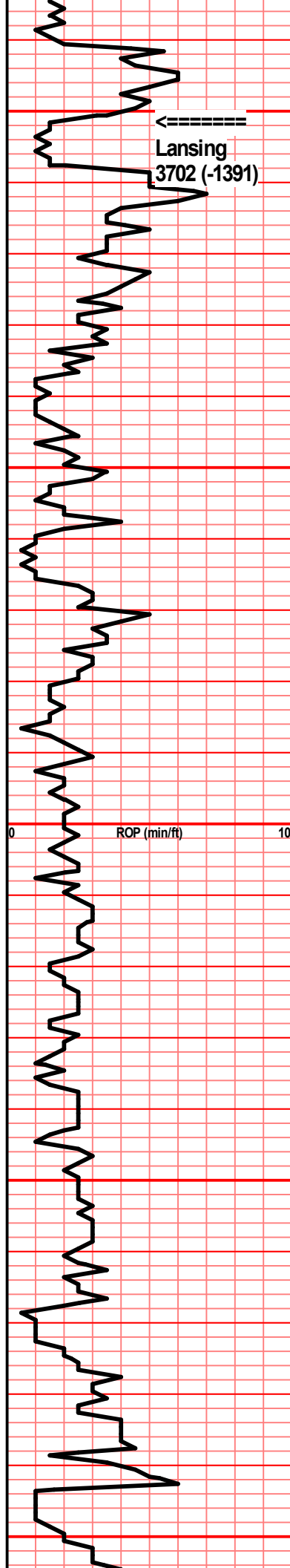
3650

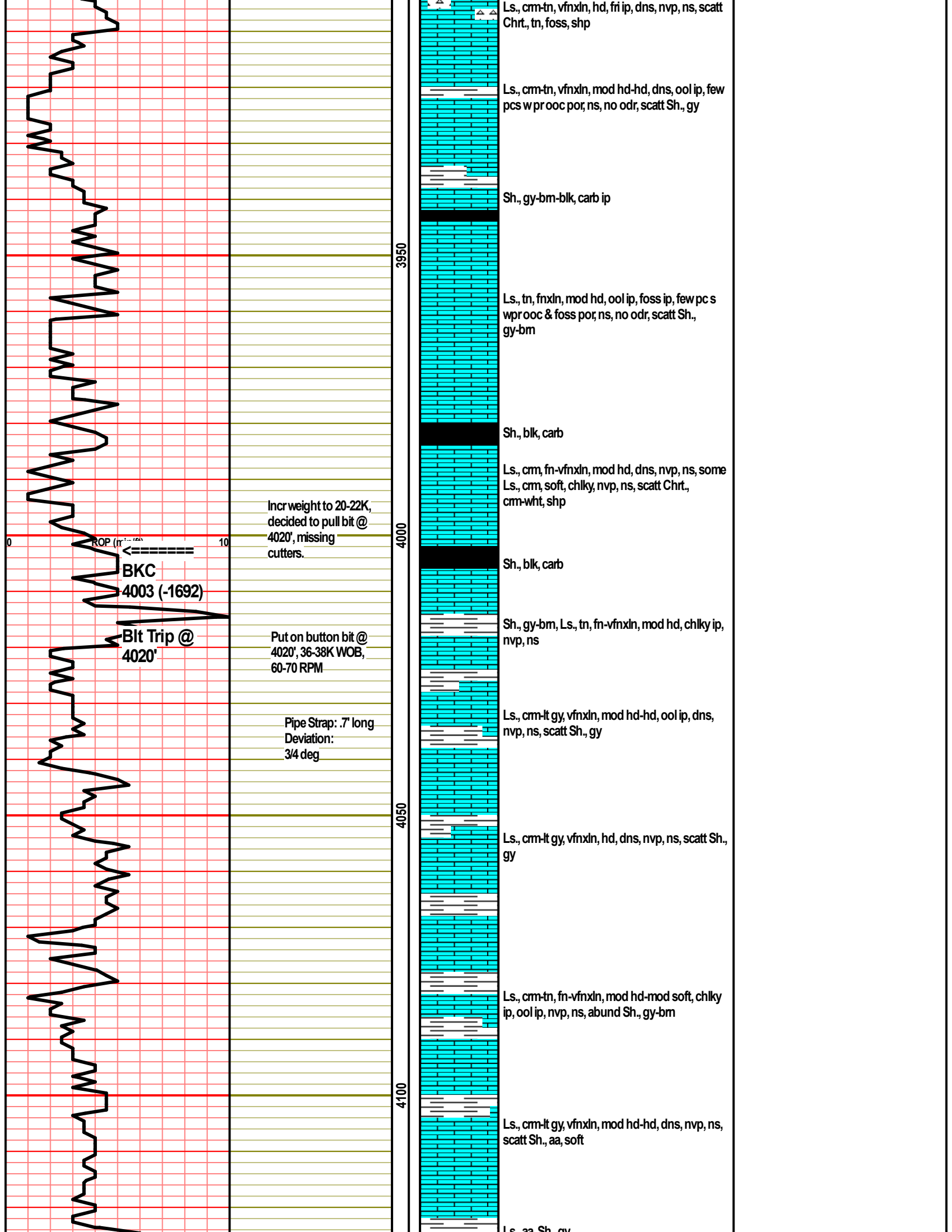
Sh., blk, carb

Ls., cm-tn, fnxn, mod hd-mod soft, sli chlky, few pcs w pr intrxn por, tr lt bm spot stn, NSFO, no det odr, Sh., gy-lt gm, soft

ROP (min/ft)

Heebner  
3660 (-1349)





3950

4000

4050

4100

Ls., crm-tn, vfnxn, hd, fri ip, dns, nvp, ns, scatt Chrt., tn, foss, shp

Ls., crm-tn, vfnxn, mod hd-hd, dns, ool ip, few pcs w pr ooc por, ns, no odr, scatt Sh., gy

Sh., gy-bm-blk, carb ip

Ls., tn, fnxn, mod hd, ool ip, foss ip, few pc s wpr ooc & foss por, ns, no odr, scatt Sh., gy-bm

Sh., blk, carb

Ls., crm, fn-vfnxn, mod hd, dns, nvp, ns, some Ls., crm, soft, chiky, nvp, ns, scatt Chrt., crm-wht, shp

Sh., blk, carb

Sh., gy-bm, Ls., tn, fn-vfnxn, mod hd, chiky ip, nvp, ns

Ls., crm-lt gy, vfnxn, mod hd-hd, ool ip, dns, nvp, ns, scatt Sh., gy

Ls., crm-lt gy, vfnxn, hd, dns, nvp, ns, scatt Sh., gy

Ls., crm-tn, fn-vfnxn, mod hd-mod soft, chiky ip, ool ip, nvp, ns, abund Sh., gy-bm

Ls., crm-lt gy, vfnxn, mod hd-hd, dns, nvp, ns, scatt Sh., aa, soft

Ls. aa Sh. gy

Incr weight to 20-22K, decided to pull bit @ 4020', missing cutters.

Put on button bit @ 4020', 36-38K WOB, 60-70 RPM

Pipe Strap: .7' long  
Deviation: 3/4 deg

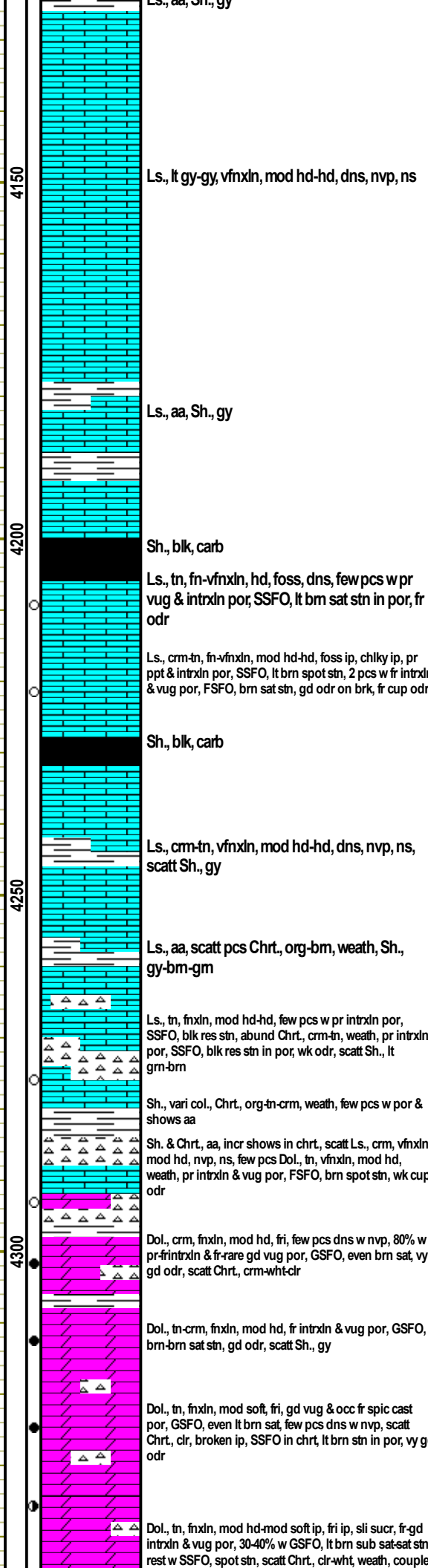
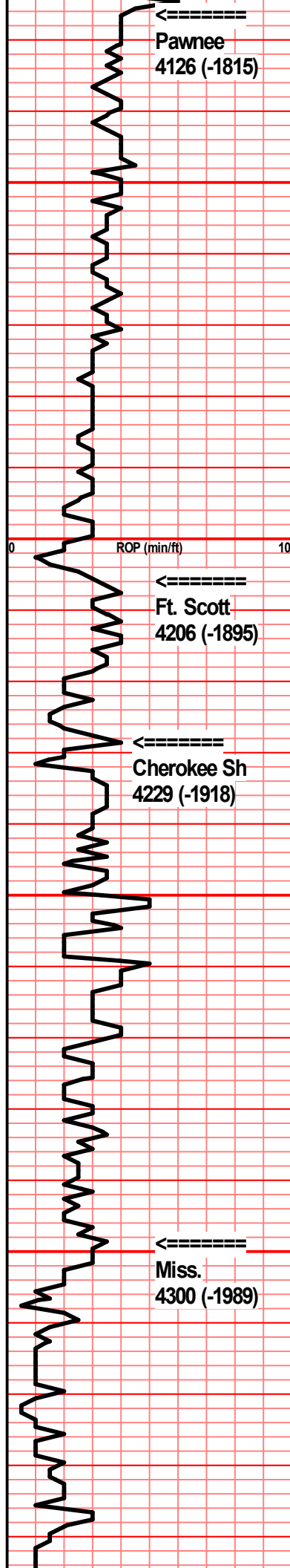
BKC  
4003 (-1692)

Bit Trip @  
4020'

ROP (ft/hr)

0

10



DST 1

cfs 4319

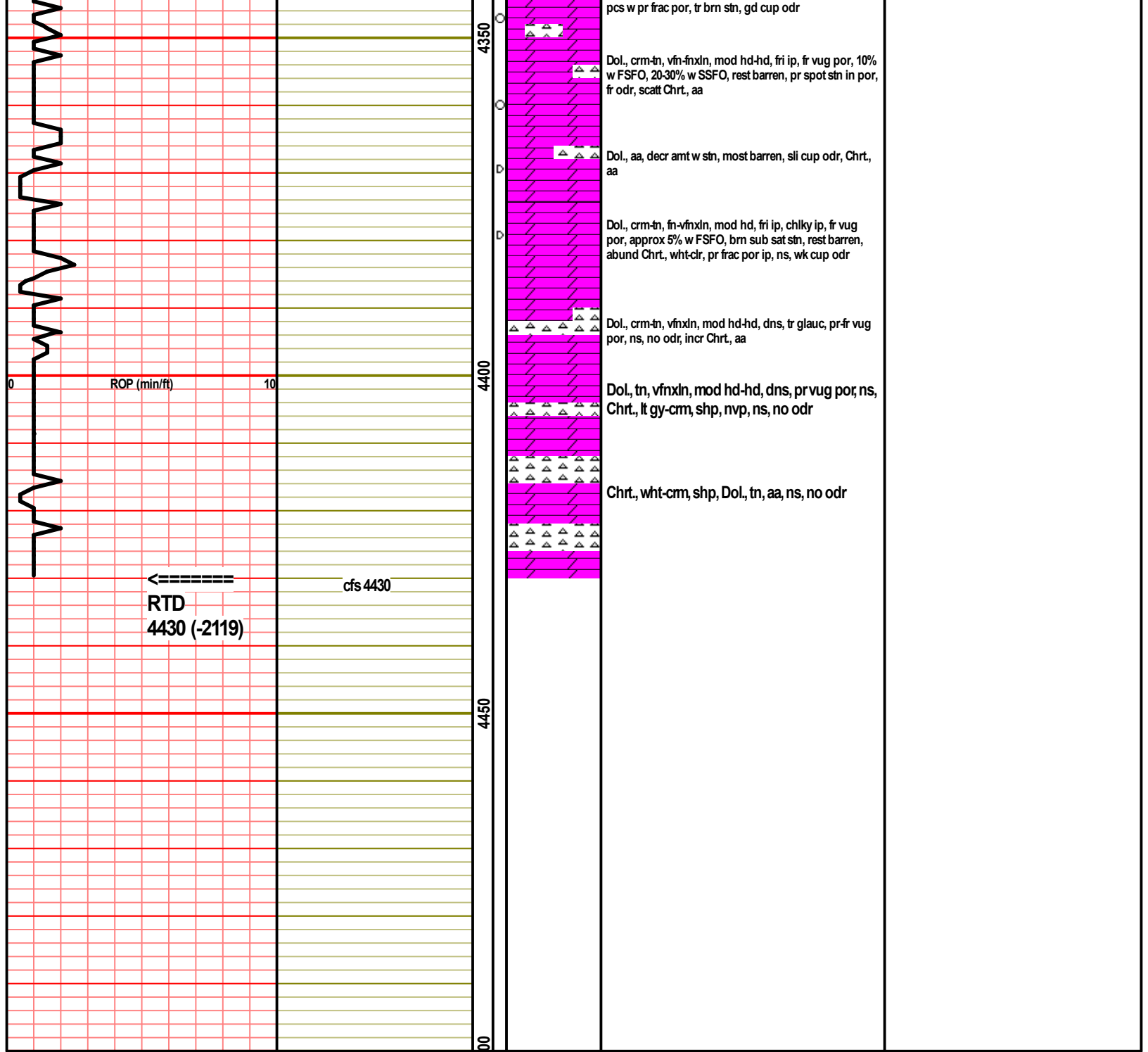
**DST #1 4248-4319 (Mississippian)**

30-30-30-30  
 IF: BOB in 5 min, built to 50"  
 IS: SB, built to 2"  
 FF: BOB in 7 min, built to 39"  
 FS: SB, built to 1/2"

**Recovery:**  
 252' GIP  
 524' GO (10%G, 90%O)  
 126' MCGO (10%G, 80%O, 10%M)  
 252' GOCM (20%G, 10%O, 70%M)  
 63' MCGO (10%G, 50%O, 40%M)

965' TF  
 FP: 56-237; 247-377  
 SIP: 1187-1160  
 HP: 2132-2095

BHT: 122  
 Gravity: 35  
 Chlor: —







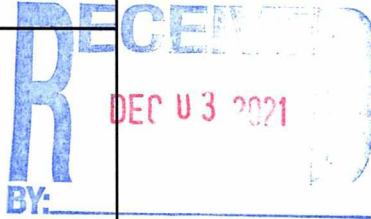
P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300



# Invoice

DATE	INVOICE #
11/24/2021	34360

BILL TO
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827



- Acidizing
- Cement
- Tool Rental

TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2	Spectre	Ness	Duke Rig #2	Oil	Development	Long String 5 1/2	Gideon

PRICE REF.	DESCRIPTION	QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way	20	Miles	6.00	120.00
578D-L	Pump Charge - Long String	1	Job	1,500.00	1,500.00
404-5	5 1/2" Port Collar	1	Each	2,500.00	2,500.00T
403-5	5 1/2" Cement Basket	2	Each	275.00	550.00T
406-5	5 1/2" Latch Down Plug & Baffle	1	Each	250.00	250.00T
407-5	5 1/2" Insert Float Shoe With Auto Fill	1	Each	325.00	325.00T
409-5	5 1/2" Turbolizer	10	Each	90.00	900.00T
325	Standard Cement	100	Sacks	14.50	1,450.00T
284	Calseal	5	Sack(s)	40.00	200.00T
283	Salt	500	Lb(s)	0.25	125.00T
285	CFR-1	50	Lb(s)	5.00	250.00T
276	Flocele	75	Lb(s)	3.00	225.00T
330	Swift Multi-Density Standard (MIDCON II)	125	Sacks	18.00	2,250.00T
281	Mud Flush	500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)	4	Gallon(s)	25.00	100.00T
290	D-Air	8	Gallon(s)	42.00	336.00T
581D	Service Charge Cement	225	Sacks	2.00	450.00
582D	Minimum Drayage Charge	1	Each	300.00	300.00
	Subtotal				12,581.00
	Sales Tax Ness County			6.50%	663.72

*Cement for long string for #2  
11/27*

<b>We Appreciate Your Business!</b>	<b>Total</b>	\$13,244.72
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CHARGE TO: Palomino Petroleum  
 ADDRESS \_\_\_\_\_  
 CITY, STATE, ZIP CODE \_\_\_\_\_

TICKET 34361

PAGE 1 OF 2

1. SERVICE LOCATIONS <u>Ness City, KS</u>	WELL/PROJECT NO. <u>#2</u>	LEASE <u>Spectre</u>	COUNTY/PARISH <u>Ness</u>	STATE <u>KS</u>	CITY <u>Ness City</u>	DATE <u>11-24-2021</u>	OWNER
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Duke</u>	RIG NAME/NO. <u>#2</u>	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>LOCATION</u>	ORDER NO.		
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Long String 5 1/2"</u>	WELL PERMIT NO.	WELL LOCATION <u>Ness City 4-W-3-N</u>			
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS					<u>1/2-W, S-INTD</u>	

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		UNIT PRICE		AMOUNT
		LOC	ACCT	DF		U/M	U/M			
575		1			MILEAGE Trk #115	20	Mi	6.00		120.00
578		1			Pump Charge - Long String	1	job	1,522.00		1,522.00
404		1			PERT COLLAR	5 1/2	IN	1 EA	2,500.00	2,500.00
403		1			CMT BASKETS	5 1/2	IN	2 EA	275.00	550.00
406		1			LATCH DOWN PLUG + Baffle	5 1/2	IN	1 EA	250.00	250.00
407		1			INSERT FLOAT Shoe w/ Auto fill	5 1/2	IN	1 EA	325.00	325.00
409		1			Turbolizers	5 1/2	IN	10 EA	90.00	900.00

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

**REMIT PAYMENT TO:**  
**SWIFT SERVICES, INC.**  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE	PAGE TOTAL	1	6,145.00
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?					2	6,436.00
WE UNDERSTOOD AND MET YOUR NEEDS?				Total		12,581.00
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				UNTAX		663.92
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TOTAL		12,914.92
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES <input type="checkbox"/> NO					
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND						

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

SIGNED: [Signature] TIME SIGNED: 12:45  A.M.  P.M.

**CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES** The customer hereby acknowledges receipt of the materials and services listed on this invoice.

OPERATOR: [Signature] APPROVAL: \_\_\_\_\_



PO Box 466  
Ness City, KS 67560  
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 34360

CUSTOMER Palomino Petroleum WELL Spectre #2 DATE 11-24-2021 PAGE 2 OF 2

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	QTY		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		
325		1				STANDARD CMT	100	sk			14.00	1400.00
284		1				Calsea	5	sk			40.00	200.00
283		1				SALT	500	lbs			0.25	125.00
285		1				CFR-1	50	lbs			5.00	250.00
276		1				Flocele	75	lbs			3.00	225.00
330		1				Swift Multi-Density Cement	125	sk			18.00	2250.00
281		1				Mud Flush	500	gal			1.50	750.00
281		1				Liquid KCL	4	gal			25.00	100.00
290		1				D-AIR	8	gal			42.00	336.00
581		1				SERVICE CHARGE					2.00	450.00
582		1				MILEAGE CHARGE					300.00	300.00
						TOTAL WEIGHT	23,000					
						LOADED MILES	20					
						CUBIC FEET	225					
						TON MILES	MIN CHARGE					

CONTINUATION TOTAL 6436.00

JOB LOG

SWIFT Services, Inc.

DATE 11-24-2021 PAGE NO. 1

CUSTOMER Palomino Petroleum WELL NO. #2 LEASE Spectre JOB TYPE Long String 5 1/2" TICKET NO. 34360

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	

ON LOCATION 5 1/2" 1416/ft  
 RTD: 4,430' LTD: 4,430'  
 TP: 4,430' SJ: 42,43'  
 PC: #65 1646' Out: 72,101  
 Turbos: T-9, C66 Baskets: #20, #63

11-23 2215  
 11-24 0015

Start 5 1/2" 1416 Csg in Well  
 Drop Ball - Circulate

0125	4	12		✓	200	Pump 500 gal Mud Flush
	4	20		✓	200	Pump 20 bbl KCL Spacers

0135	1 1/2	107			75	Plug RH-MH [30-20]
------	-------	-----	--	--	----	--------------------

0145		28		✓	150	Mix 75 sks of SMD @ 12.5 ppg
		24		✓	150	Mix 100 sks of EA-2 @ 15.36 ppg

0205  
 Wash Pump + Lines  
 Release Latch down Plug

0210	6 1/2	0		✓	200	Begin Displacement
	6 1/2	82		✓	250	1176 PSI
	6 1/2	106		✓	800	MAX 1176 PSI

0230	5 1/2	107		✓	1700	LAND Latch Down Plug
------	-------	-----	--	---	------	----------------------

0240  
 0310  
 Wash up Trk #115  
 Job Complete

125 sks of SMD used [30RH, 20MH]  
 100 sks of EA-2 used

Thanks!

Rudon Preston, Isaac



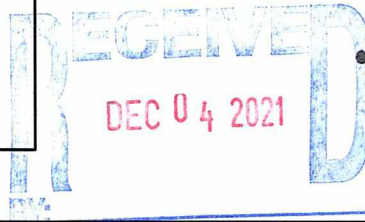
P. O. Box 466  
Ness City, KS 67560  
Off: 785-798-2300

# Invoice

DATE	INVOICE #
11/30/2021	34361

BILL TO
Palomino Petroleum Inc. 4924 S E 84th Street Newton, KS 67114-8827

- Acidizing
- Cement
- Tool Rental



TERMS	Well No.	Lease	County	Contractor	Well Type	Well Category	Job Purpose	Operator
Net 30	#2	Spectre	Ness	Express	Oil	Development	Port Collar	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				10	Miles	6.00	60.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars				1	Job	1,500.00	1,500.00
330	Swift Multi-Density Standard (MIDCON II)				190	Sacks	18.00	3,420.00T
276	Flocele				50	Lb(s)	3.00	150.00T
290	D-Air				2	Gallon(s)	42.00	84.00T
105	Port Collar Tool Rental With Man				1	Each	300.00	300.00T
581D	Service Charge Cement				200	Sacks	2.00	400.00
582D	Minimum Drayage Charge				1	Each	300.00	300.00
	Subtotal							6,214.00
	Sales Tax Ness County						6.50%	257.01

port collar for H2  
11/30

**We Appreciate Your Business!**

**Total**

\$6,471.01



CHARGE TO: Palomino Petroleum  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

TICKET **34361**

PAGE 1 OF 1

1. SERVICE LOCATIONS <u>Ness City, KS</u>	WELL/PROJECT NO. <u>#2</u>	LEASE <u>Spectre</u>	COUNTY/PARISH <u>Ness</u>	STATE <u>KS</u>	CITY <u>Ness City</u>	DATE <u>11-30-2021</u>	OWNER
2. TICKET TYPE <input checked="" type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR <u>Express</u>		RIG NAME/NO.	SHIPPED VIA <u>CT</u>	DELIVERED TO <u>LOCATION</u>	ORDER NO.	
3. WELL TYPE <u>Oil</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>Port Collar</u>	WELL PERMIT NO.		WELL LOCATION <u>Ness City, 4-443-N</u>		
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS					<u>1/2-W, S-INTD</u>	

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.		U/M		UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
<u>576</u>		<u>1</u>			MILEAGE <u>Trk #114</u>		<u>10</u>	<u>mi</u>		<u>6.00</u>	<u>60.00</u>
<u>576D</u>		<u>1</u>			<u>Pump Charge - Port Collar</u>		<u>1</u>	<u>job</u>		<u>1,500.00</u>	<u>1,500.00</u>
<del>330</del>											
<u>330</u>		<u>1</u>			<u>Swift Multi density Cement</u>		<u>190</u>	<u>skts</u>		<u>18.00</u>	<u>3420.00</u>
<u>276</u>		<u>1</u>			<u>Flocele</u>		<u>50</u>	<u>lbs</u>		<u>3.00</u>	<u>150.00</u>
<u>290</u>		<u>1</u>			<u>D-Air</u>		<u>2</u>	<u>gal</u>		<u>42.00</u>	<u>84.00</u>
<u>105</u>		<u>1</u>			<u>Port Collar Tool Rental</u>					<u>1 job</u>	<u>300.00</u>
<u>581</u>		<u>1</u>			<u>Cement Service Charge</u>		<u>200</u>	<u>skts</u>		<u>2.00</u>	<u>400.00</u>
<u>582</u>		<u>1</u>			<u>Minimum Drayage Charge</u>		<u>1</u>	<u>EA</u>		<u>300.00</u>	<u>300.00</u>

**LEGAL TERMS:** Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, **PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY** provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.

DATE SIGNED 11-30-2021 TIME SIGNED 2:00  A.M.  P.M.

REMIT PAYMENT TO:  
  
 SWIFT SERVICES, INC.  
 P.O. BOX 466  
 NESS CITY, KS 67560  
 785-798-2300

SURVEY	AGREE	UNDECIDED	DISAGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	<u>1</u>	<u>5914.00</u>
		<u>6214</u>
TAX	<u>SA</u>	<u>257.01</u>
TOTAL		<u>6411.01</u>

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR Brandon Fuchs

APPROVAL \_\_\_\_\_

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 11-30-2021 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Palomino Petroleum		#2		Spectre		PORT COLLAR		34361	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	1200								ON Location 2 7/8" x 5 1/2"
									PC: 1646'
	1215								Test BS to 1,000 PSI *Hold*
									-Release PSI
	1220								Open PC
	1225	3 1/2	4		✓	300			Injection RATE
	1230	3 1/2	105		✓	8200			Mix 190 sks of SMD 1/4" Flo @ 11.2 pp9
									*Circulated CMT to Surface*
		3 1/2	8.5		✓	350			Displace CMT
	1255				✓				Close PC
	1300	∅			✓	1,000			P. Test Hb to 1,000 PSI
									*Hold* -Release PSI
									Run 5 JTs
	1315	3	25		✓	250			Reverse Clean
	1325								Wash up Trk #114
	1355								Job Complete
									190 sks of SMD 1/4" Flo used
									*15 sks to the Pit*
									Thanks!
									Shuckan, Kirby, Mark