

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)</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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Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	SKYFALL 1
Doc ID	1473637

All Electric Logs Run

Dual Induction
Micro
Sonic
Dual Receiver Cement Bond

Form	ACO1 - Well Completion
Operator	Palomino Petroleum, Inc.
Well Name	SKYFALL 1
Doc ID	1473637

Tops

Name	Top	Datum
Anhy.	1704	(+ 763)
Base Anhy.	1733	(+ 734)
Topeka	Not Logged	Not Logged
Heebner	3742	(-1275)
Lansing	3786	(-1319)
BKC	4083	(-1616)
Marmaton	4116	(-1649)
Pawnee	4210	(-1743)
Ft. Scott	4281	(-1814)
Cherokee Sh.	4306	(-1839)
Miss.	4386	(-1919)
Osage	4484	(-2017)
LTD	4524	(-2057)



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



Invoice

DATE	INVOICE #
8/27/2019	32445

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	#1	Skyfall	Ness	Express Well	Oil	Development	Cement Port Collar	Blaine
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				20	Miles	5.00	100.00
576D-D	Pump Charge - Deep Surface (> 500 Ft.) & Port Collars				1	Job	1,400.00	1,400.00
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	17.00	2,125.00T
276	Flocele				25	Lb(s)	3.00	75.00T
290	D-Air				1	Gallon(s)	42.00	42.00T
581D	Service Charge Cement				200	Sacks	1.85	370.00
582D	Minimum Drayage Charge				1	Each	250.00	250.00
104	Port Collar Tool Rental				1	Each	200.00	200.00T
	Subtotal							4,562.00
	Sales Tax Ness County						6.50%	158.73

We Appreciate Your Business!	Total	\$4,720.73
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SWIFT Services, Inc.

CHARGE TO: Palomino Petroleum

ADDRESS

CITY, STATE, ZIP CODE

TICKET 032445

PAGE 1 OF 1

SERVICE LOCATIONS 1. <u>Wm City KS</u>	WELL/PROJECT NO. <u>21</u>	LEASE <u>SK Fall</u>	COUNTY/PARISH <u>Wm</u>	STATE <u>KS</u>	CITY <u>Wm City</u>	DATE <u>27 Aug 19</u>	OWNER
2. <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED <u>WTR</u>	DELIVERED TO <u>location</u>	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE <u>0.1</u>	WELL CATEGORY <u>Development</u>	JOB PURPOSE <u>convert port collar</u>	WELL LOCATION				
4. REFERRAL LOCATION INVOICE INSTRUCTIONS							

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY. U/M			UNIT PRICE	AMOUNT
		LOC	ACCT	DF						
575					MILEAGE	20	mi		5.00	100.00
576D					Pump Charge	1	ea		1400.00	1400.00
330					5HD cement	125	kg		17.00	2125.00
276					Fluoride	25	lb		3.00	75.00
290					D-Add	1	gal		42.00	42.00
581					Service charge	200	sk		1.85	370.00
583	582				Drayage (mix)	1992	lb		250.00	250.00
104					Post collar opening tool rental	53	in		200.00	200.00

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.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS.
 X Paul Simpson
 DATE SIGNED _____ TIME SIGNED _____
 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 4562.00
 TOTAL 4790.93

SWIFT OPERATOR [Signature] APPROVAL [Signature]

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

Thank You!

JOB LOG

SWIFT Services, Inc.

DATE 27 AUG 19 PAGE NO. 1

CUSTOMER *Palomares Petroleum* WELL NO. *41* LEASE *Sky fall* JOB TYPE *Cement part collar* TICKET NO. *32445*

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								200 sk SMD w/ 1/4" Flocc 2 7/8 x 5 1/2 part collar - 1692'
	1245							mloc 4PK 114
	1346					1000	1000	test 1000 psi - held
	1357	3 1/2	8 1/2			200		open part collar inj rate 3 1/2 @ 200
	1400	3 1/2				200		mix SMD cement @ 11.2 ppg - circulate fluid top 4'
		3 1/2	10			200		
		3 1/2	68			300		
								→ cement to surface ← { 125 sk mixed } { 5 top 4' }
	1415							close part collar (test to 1000 psi - held) Run 4 joints
			25					Reverse out - 2 cement plugs -
								Wash truck
								Rack up
	1515							job complete Thanks Blaine, Shane, & FLINT

SWIFT



Services, Inc.

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



Invoice

DATE	INVOICE #
8/21/2019	32541

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	#1	Skyfall	Ness	Murfing Drlg #102	Oil	Development	Long String	Gideon
PRICE REF.	DESCRIPTION				QTY	UM	UNIT PRICE	AMOUNT
575D	Mileage - 1 Way				20	Miles	5.00	100.00
578D-L	Pump Charge - Long String				1	Job	1,400.00	1,400.00
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
419-5	5 1/2" Rotating Head Rental				1	Each	250.00	250.00T
325	Standard Cement				100	Sacks	13.50	1,350.00T
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				50	Lb(s)	3.00	150.00T
330	Swift Multi-Density Standard (MIDCON II)				125	Sacks	17.00	2,125.00T
281	Mud Flush				500	Gallon(s)	1.50	750.00T
221	Liquid KCL (Clayfix)				4	Gallon(s)	25.00	100.00
290	D-Air				3	Gallon(s)	42.00	126.00T
581W	Service Charge Cement				225	Sacks	1.85	416.25T
582W	Minimum Drayage Charge				1	Each	250.00	250.00T
	Subtotal							12,117.25
	Sales Tax Ness County						6.50%	683.62

We Appreciate Your Business!

Total

\$12,800.87



TICKET 032541

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

PAGE 1 OF 2

SERVICE LOCATIONS
 1. Ness City, KS
 WELL/PROJECT NO. 1
 LEASE SkyBell
 CONTRACTOR Murrin O&G, DDA
 RIG NAME/NO. Ness
 102
 STATE KS
 CITY Location
 DATE 8-21-19
 OWNER
 ORDER NO.
 WELL LOCATION Ness City 10-12
 6 1/2 - N, 1 1/2 - E
 WELL TYPE OIL
 WELL CATEGORY Development
 JOB PURPOSE Long String
 INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT	DF							
576					MILEAGE Trk #112			20	m	5.00	100.00
578					Pump Charge - Long String			1	job	1400.00	1400.00
404					Port Collar			1	ea	250.00	250.00
403					CMT Basket			2	ea	275.00	550.00
406					Latch down Plug + Baffle			1	ea	250.00	250.00
407					Insert Float Shoe w/ Auto Fill			1	ea	325.00	325.00
409					Turbelizer			10	ea	90.00	900.00
419					ROTATING HEAD RENTAL			1	job	250.00	250.00

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.

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

DATE SIGNED 8-21-2019 TIME SIGNED 10:00
 A.M. P.M.

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

SURVEY

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 YES NO

WE UNDERSTOOD AND MET YOUR NEEDS?
 YES NO

OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 YES NO

WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 YES NO

ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL	TOTAL
1	12880.89

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.
 SWIFT OPERATOR Braden Fulk APPROVAL
 Thank You!



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

TICKET CONTINUATION

TICKET No. 032541

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			TIME	DESCRIPTION	WELL				UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY	U/M	QTY	U/M		

325						Standard CMT									
284						Calseal									
283						Salt									
285						CFR-1									
276						Elocele									
330						SMD Cement									
281						Mud Flush									
221						Liquid KCL									
290						D-Air									
581															
582															

CUSTOMER: Palermo Petroleum
WELL: Skyfall #1
DATE: 8-21-19
PAGE: 2 OF 2

SERVICE CHARGE
MILEAGE CHARGE
TOTAL WEIGHT
LOADED MILES
CUBIC FEET
TON MILES

CONTINUATION TOTAL 5842.25

JOB LOG

SWIFT Services, Inc.

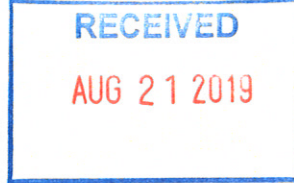
DATE 8-2-19 PAGE NO. 1

CUSTOMER		WELL NO.		LEASE		JOB TYPE		TICKET NO.	
Palomare Petroleum		#1		Skyfall		Long String 5 1/2"		032541	
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS	
				T	C	TUBING	CASING		
	0645								On Location 5 1/2" 15.5lb/ft
									RTD: 4525 TP: 4524 PC: #68 - 1692' Turbo: 1, 2, 3, 4, 6, 11, 13, 16, 18 CMT Baskets: 2, 68
	0815								Start 5 1/2" 15.5lb/ft Casing in well
	1100								Drop Ball - Circulate ★ Rotate ★
	1150	6 1/2	12		✓	300			Pump 500 Gal Mud Flush
		6 1/2	20		✓	300			Pump 20 bbl KCL Spacer
	1155	3	11		✓	0			Plug RH [30 sks]
	1200	4 1/2	48		✓	300			Mix 95 sks of SMD @ 12.5 ppg
		4 1/2	72		✓	300			Mix 100 sks of EA-2 @ 15.36 ppg
	1225								Drop Latch down Plug - Wash P+L
	1230	6 1/2	0		✓	300			Start Displacement
		6 1/2	83		✓	450			-Lift Pressure
		5 1/2	106		✓	800			-Max Lift Pressure
	1245	5 1/2	106		✓	1500			Land Latch down Plug
									Release Pressure ★ Plug Hold ★
	1250								Wash up Trk #112
									125 sks of SMD + 100 sks EA-2 used
	1315								Job Complete Thank You
									Gideon, Preston & Son



HURRICANE SERVICES INC

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



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

Invoice Date: 8/13/2019
Invoice #: 0343145
Lease Name: Sky Fall
Well #: 1 (New)
County: Ness
Job Number: ICT2234

Date/Description	HRS/QTY	Rate	Total
Surface	0.000	0.000	0.00
Cement Pump 230	1.000	637.500	637.50
Heavy Eq Mileage	20.000	3.400	68.00
Light Eq Mileage	20.000	1.700	34.00
Ton Mileage	164.000	1.275	209.10
H-325	165.000	17.000	2,805.00

Total 3,753.60

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!

250 N. Water St., Suite #200
Wichita, KS 67202



HURRICANE SERVICES INC

Customer	Palomino Petroleum	Lease & Well #	Sky Fall 1		Date	8/13/2019
Service District	Oakley, KS	County & State	Ness, KS	Legals S/T/R	27-17s-25w	
Job Type	Surface	<input checked="" type="checkbox"/> PROD	<input type="checkbox"/> INJ	<input type="checkbox"/> SWD	New Well?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> No
Equipment #	Driver	Job Safety Analysis - A Discussion of Hazards & Safety Procedures				
73	Miles Shaw	<input checked="" type="checkbox"/> Hard hat	<input checked="" type="checkbox"/> Gloves	<input type="checkbox"/> Lockout/Tagout	<input checked="" type="checkbox"/> Warning Signs & Flagging	
230	Josh Mosier	<input checked="" type="checkbox"/> H2S Monitor	<input checked="" type="checkbox"/> Eye Protection	<input type="checkbox"/> Required Permits	<input type="checkbox"/> Fall Protection	
242	Kale Ochs	<input checked="" type="checkbox"/> Safety Footwear	<input type="checkbox"/> Respiratory Protection	<input checked="" type="checkbox"/> Slip/Trip/Fall Hazards	<input type="checkbox"/> Specific Job Sequence/Expectations	
		<input checked="" type="checkbox"/> FRC/Protective Clothing	<input type="checkbox"/> Additional Chemical/Acid PPE	<input checked="" type="checkbox"/> Overhead Hazards	<input checked="" type="checkbox"/> Muster Point/Medical Locations	
		<input type="checkbox"/> Hearing Protection	<input checked="" type="checkbox"/> Fire Extinguisher	<input type="checkbox"/> Additional concerns or issues noted below		
Comments						
Ulita, KS east to cr H 6.5 miles south to cr 195 1 east south into fallow trail						

Product/ Service Code	Description	Unit of Measure	Quantity		Net Amount
C010	Cement Pump	ea	1.00		\$637.50
M010	Heavy Equipment Mileage	mi	20.00		\$68.00
M015	Light Equipment Mileage	mi	20.00		\$34.00
M020	Ton Mileage	tm	164.00		\$209.10
CP015	H-325	sack	165.00		\$2,805.00

Customer Section: On the following scale how would you rate Hurricane Services Inc.?								Net:	\$3,753.60		
Based on this job, how likely is it you would recommend HSI to a colleague?				Total Taxable		\$ -	Tax Rate:		 		
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Unlikely	1	2	3	4	5	6	7	8	9	10	Extremely Likely
				State tax laws deem certain products and services used on new wells to be sales tax exempt. Hurricane Services relies on the customer provided well information above to make a determination if services and/or products are tax exempt.		Sale Tax:		\$ -			
				Total:		\$	3,753.60				
				HSI Representative: <i>Miles Shaw</i>							

TERMS: Cash in advance unless Hurricane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1 1/2% per month or the maximum allowable by applicable state or federal laws. In the event it is necessary to employ an agency and/or attorney to affect the collection, Customer hereby agrees to pay all fees directly or indirectly incurred for such collection. In the event that Customer's account with HSI becomes delinquent, HSI has the right to revoke any discounts previously applied in arriving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to collection. Prices quoted are estimates only and are good for 30 days from the date of issue. Pricing does not include federal, state, or local taxes, or royalties and stated price adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to perform these services. Any discount is based on 30 days net payment terms or cash. **DISCLAIMER NOTICE:** Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no liability for advice or recommendations made concerning the results from the use of any product or service. The information presented is a best estimate of the actual results that may be achieved and should be used for comparison purposes and HSI makes no guarantee of future production performance. Customer represents and warrants that well and all associated equipment in acceptable condition to receive services by HSI. Likewise, the customer guarantees proper operational care of all customer owned equipment and property while HSI is on location performing services. The authorization below acknowledges the receipt and acceptance of all terms/conditions stated above, and Hurricane has been provided accurate well information in determining taxable services.

X *[Signature]* **CUSTOMER AUTHORIZATION SIGNATURE**



CEMENT TREATMENT REPORT

Customer: Palomino Petroleum	Well: Sky Fall 1	Ticket: ICT2234
City, State:	County: Ness, KS	Date: 8/13/2019
Field Rep: Jonny	S-T-R: 27-17s-25w	Service: cement

Downhole Information	
Hole Size:	12.25
Hole Depth:	218'
Casing Size:	8.625
Casing Depth:	218'
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Depth:	ft
Displacement:	12.75

Slurry	
Weight:	14.8 # / sx
Water / Sx:	6 5/7 gal / sx
Yield:	1 2/5 ft³ / sx
Bbls / Ft.:	
Depth:	ft
Volume:	bbls
Excess:	%
Total Slurry:	42 bbls
Total Sacks:	165 sx

Cement Blend		
Product	%	#
Class A		
Gel		
CaCl		
Metso		
KolSeal		
PhenoSeal		
Salt		
Total	-	-

TIME	RATE	PSI	BBLs	REMARKS	TIME	RATE	PSI	BBLs	REMARKS
12am				Arrival					
1205am				Safety meeting					
1210am				Rig up equip					
415am				run in casing					
525am				Circulate casing					
530am				Mix cement					
545am				Displace					
550am				Shut in plug down					
				Cement did circulate					

Crew	UNIT	SUMMARY		
		Average Rate	Average Pressure	Total Fluid
Cementer:	Miles Shaw	73.0		
Pump Operator:	Josh Mosier	230.0		
Bulk #1:	Kale Ochs	242.0		
Bulk #2:				



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Skyfall #1

27-17s-25w Ness,KS

Start Date: 2019.08.18 @ 08:21:57

End Date: 2019.08.18 @ 16:12:27

Job Ticket #: 65246 DST #: 1

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

Printed: 2019.08.21 @ 09:00:47

Palomino Petroleum
27-17s-25w Ness,KS
Skyfall #1
DST # 1
Marmaton
2019.08.18



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

27-17s-25w Ness,KS

4924 SE 84th St
New ton, KS 67114

Skyfall #1

Job Ticket: 65246

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.08.18 @ 08:21:57

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:39:27

Time Test Ended: 16:12:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: **4085.00 ft (KB) To 4222.00 ft (KB) (TVD)**

Reference Elevations: 2467.00 ft (KB)

Total Depth: 4222.00 ft (KB) (TVD)

2462.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8166

Outside

Press@RunDepth: 29.13 psig @ 4086.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.18

End Date: 2019.08.18

Last Calib.: 2019.08.18

Start Time: 08:22:02

End Time: 16:12:26

Time On Btm: 2019.08.18 @ 11:38:27

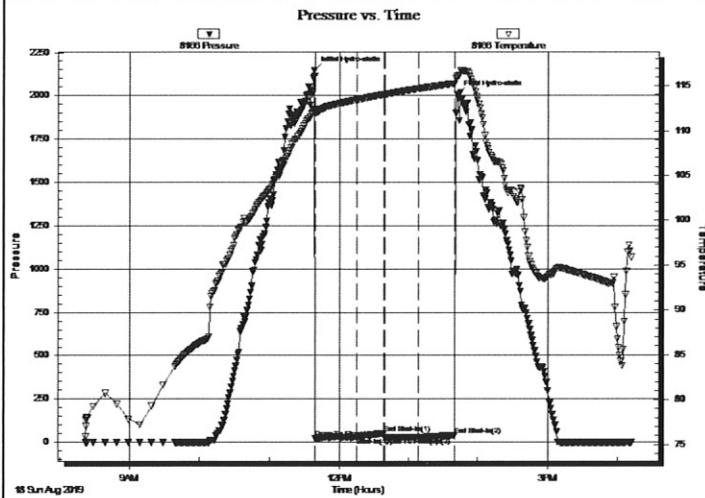
Time Off Btm: 2019.08.18 @ 13:41:57

TEST COMMENT: IF: 1/4" blow never built.

IS: No return.

FF: No blow .

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2147.66	112.34	Initial Hydro-static
1	24.00	112.02	Open To Flow (1)
37	29.36	113.44	Shut-In(1)
60	52.36	114.04	End Shut-In(1)
61	27.26	114.05	Open To Flow (2)
90	29.13	114.69	Shut-In(2)
122	40.07	115.26	End Shut-In(2)
124	2007.59	116.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

27-17s-25w Ness, KS

4924 SE 84th St
New ton, KS 67114

Skyfall #1

Job Ticket: 65246

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.08.18 @ 08:21:57

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 11:39:27

Tester: Brandon Turley

Time Test Ended: 16:12:27

Unit No: 79

Interval: **4085.00 ft (KB) To 4222.00 ft (KB) (TVD)**

Reference Elevations: 2467.00 ft (KB)

Total Depth: 4222.00 ft (KB) (TVD)

2462.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 6651

Inside

Press@RunDepth: psig @ 4086.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.18

End Date:

2019.08.18

Last Calib.:

2019.08.18

Start Time: 08:21:44

End Time:

16:12:08

Time On Btm:

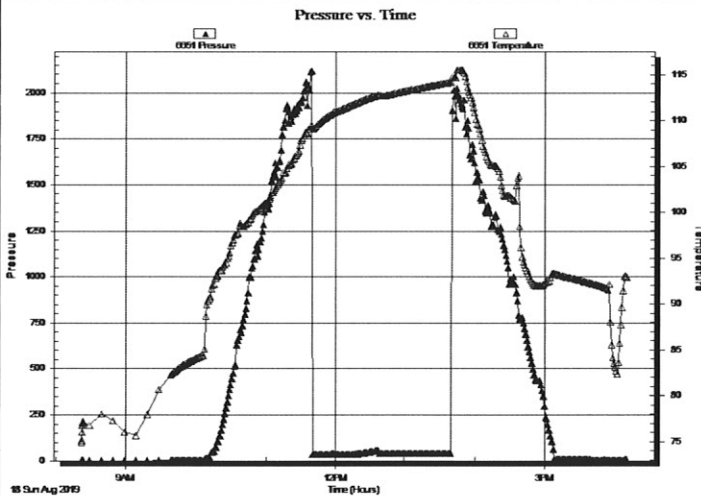
Time Off Btm:

TEST COMMENT: IF: 1/4" blow never built.

IS: No return.

FF: No blow .

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100%m	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

27-17s-25w Ness,KS

4924 SE 84th St
New ton, KS 67114

Skyfall #1

Job Ticket: 65246

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.08.18 @ 08:21:57

Tool Information

Drill Pipe:	Length: 3960.00 ft	Diameter: 3.80 inches	Volume: 55.55 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: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 56.13 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	20.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4085.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	137.00 ft			
Tool Length:	164.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4059.00	
Shut In Tool	5.00			4064.00	
Hydraulic tool	5.00			4069.00	
Jars	5.00			4074.00	
Safety Joint	2.00			4076.00	
Packer	5.00			4081.00	27.00 Bottom Of Top Packer
Packer	4.00			4085.00	
Stubb	1.00			4086.00	
Recorder	0.00	6651	Inside	4086.00	
Recorder	0.00	8166	Outside	4086.00	
Perforations	3.00			4089.00	
Change Over Sub	1.00			4090.00	
Drill Pipe	126.00			4216.00	
Change Over Sub	1.00			4217.00	
Bullnose	5.00			4222.00	137.00 Bottom Packers & Anchor

Total Tool Length: 164.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

27-17s-25w Ness,KS

4924 SE 84th St
New ton, KS 67114

Skyfall #1

Job Ticket: 65246

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.08.18 @ 08:21:57

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

0 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	mud 100%m	0.025

Total Length: 5.00 ft

Total Volume: 0.025 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

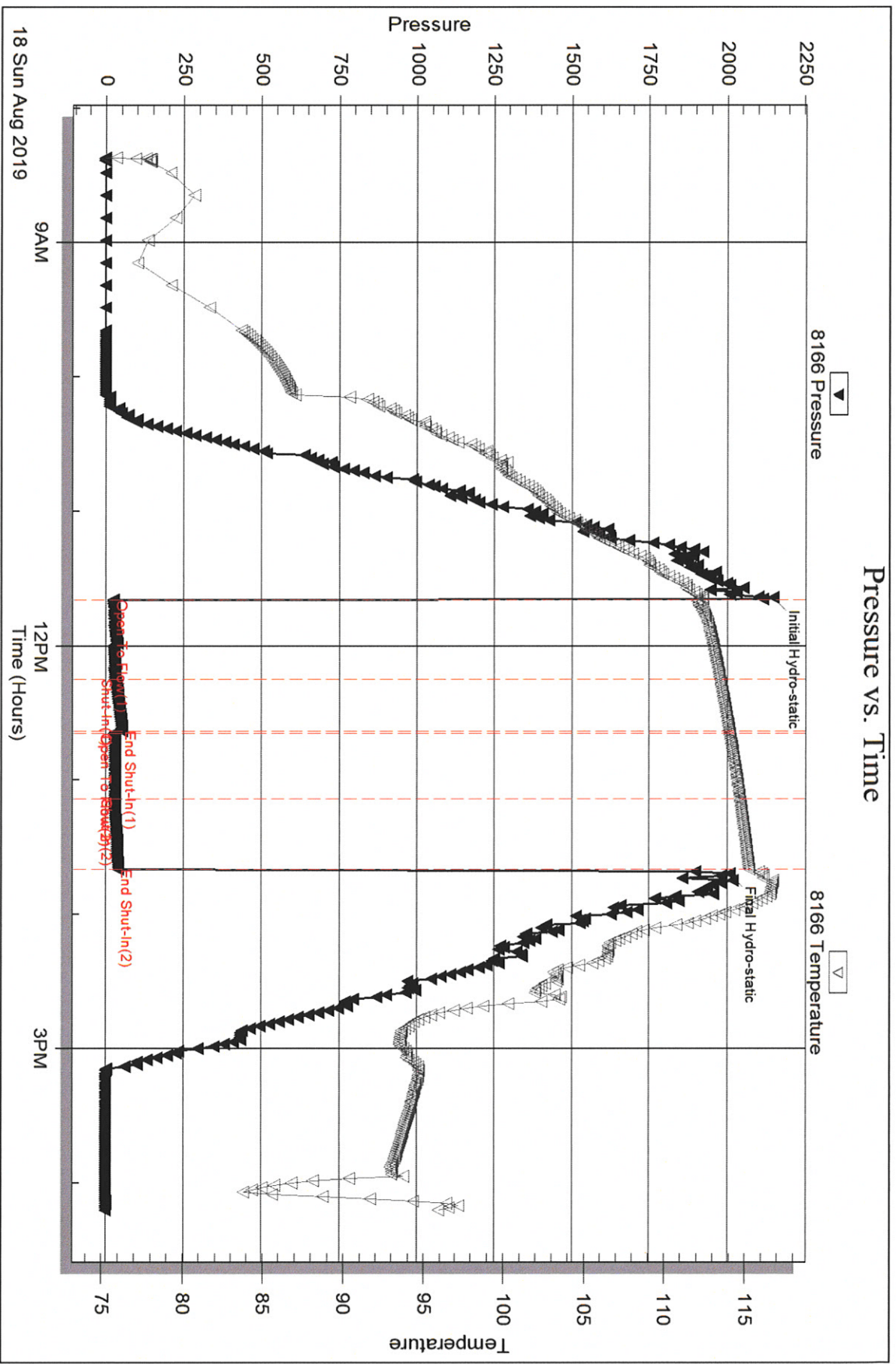
Recovery Comments:

Serial #: 8166

Outside Palomino Petroleum

Skyfall #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65246

Printed: 2019.08.21 @ 09:00:48

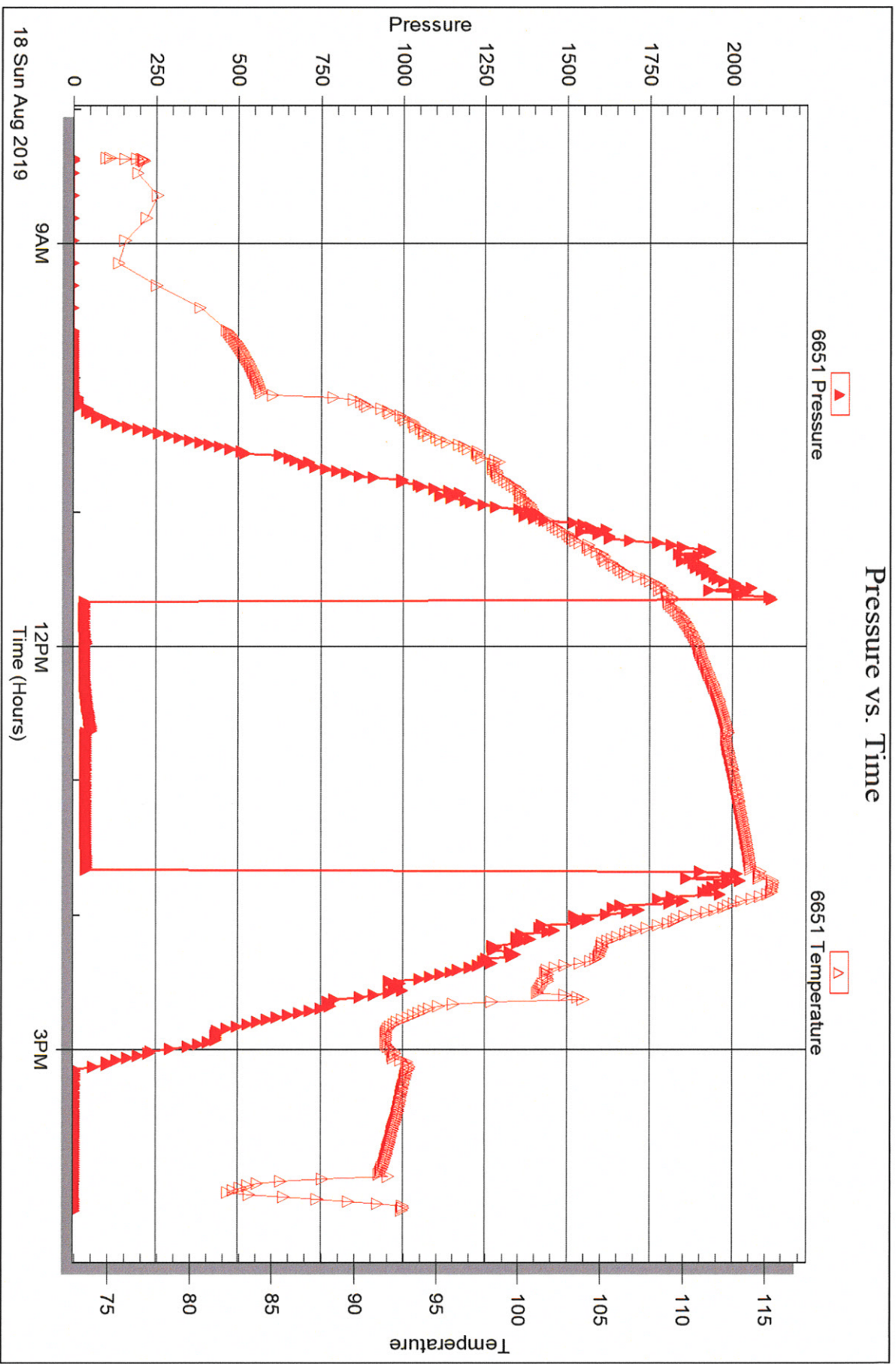
Serial #: 6651

Inside

Palomino Petroleum

Skyfall #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 65246

Printed: 2019.08.21 @ 09:00:48



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Skyfall #1

27-17s-25w Ness,KS

Start Date: 2019.08.19 @ 11:22:43

End Date: 2019.08.19 @ 19:06:43

Job Ticket #: 65247 DST #: 2

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

Printed: 2019.08.21 @ 08:58:17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum

27-17s-25w Ness,KS

4924 SE 84th St
New ton, KS 67114

Skyfall #1

Job Ticket: 65247

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.08.19 @ 11:22:43

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:01:43

Time Test Ended: 19:06:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4388.00 ft (KB) To 4415.00 ft (KB) (TVD)**

Reference Elevations: 2467.00 ft (KB)

Total Depth: 4415.00 ft (KB) (TVD)

2462.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 5.00 ft

Serial #: 8166

Outside

Press@RunDepth: 652.23 psig @ 4389.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2019.08.19

End Date: 2019.08.19

Last Calib.: 2019.08.19

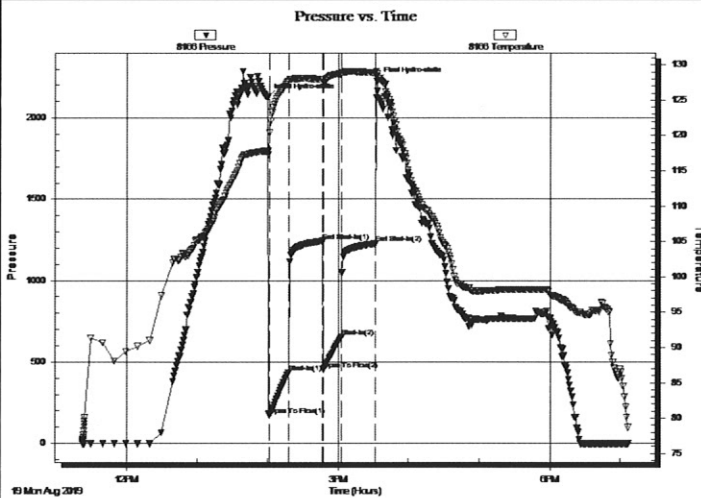
Start Time: 11:22:48

End Time: 19:06:42

Time On Btm: 2019.08.19 @ 14:00:13

Time Off Btm: 2019.08.19 @ 15:32:13

TEST COMMENT: IF: BOB in 30 sec. 125"
IS: 4" return blow .
FF: BOB in 1 min. 91"
FS: Surface blow built to 1/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2127.54	117.83	Initial Hydro-static
2	174.39	120.42	Open To Flow (1)
18	435.80	127.68	Shut-In(1)
46	1243.71	127.92	End Shut-In(1)
47	452.93	127.50	Open To Flow (2)
62	652.23	128.76	Shut-In(2)
91	1226.85	128.85	End Shut-In(2)
92	2223.58	128.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
118.00	gocm 10%g 10%o 80%m	0.58
1623.00	go 20%g 80%o	22.77
0.00	338 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

27-17s-25w Ness, KS

4924 SE 84th St
Newton, KS 67114

Skyfall #1

Job Ticket: 65247

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.08.19 @ 11:22:43

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:01:43

Time Test Ended: 19:06:43

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4388.00 ft (KB) To 4415.00 ft (KB) (TVD)**

Total Depth: 4415.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2467.00 ft (KB)

2462.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6651 Inside

Press@RunDepth: psig @ 4389.00 ft (KB)

Start Date: 2019.08.19

End Date:

2019.08.19

Start Time: 11:22:09

End Time:

19:06:03

Capacity: 8000.00 psig

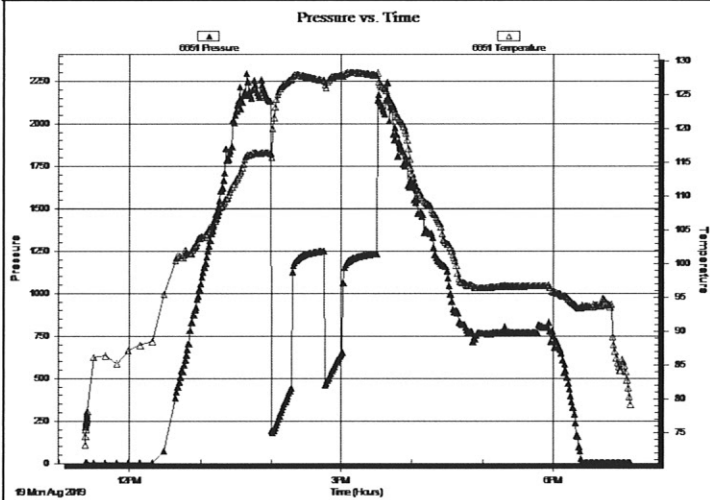
Last Calib.:

2019.08.19

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: BOB in 30 sec. 125"
IS: 4" return blow .
FF: BOB in 1 min. 91"
FS: Surface blow built to 1/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
118.00	gocm 10%g 10%o 80%m	0.58
1623.00	go 20%g 80%o	22.77
0.00	338 GIP	0.00

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

27-17s-25w Ness,KS

4924 SE 84th St
Newton, KS 67114

Skyfall #1

Job Ticket: 65247

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.08.19 @ 11:22:43

Tool Information

Drill Pipe:	Length: 4274.00 ft	Diameter: 3.80 inches	Volume: 59.95 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: 30000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 60.53 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4388.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4362.00	
Shut In Tool	5.00			4367.00	
Hydraulic tool	5.00			4372.00	
Jars	5.00			4377.00	
Safety Joint	2.00			4379.00	
Packer	5.00			4384.00	27.00 Bottom Of Top Packer
Packer	4.00			4388.00	
Stubb	1.00			4389.00	
Recorder	0.00	6651	Inside	4389.00	
Recorder	0.00	8166	Outside	4389.00	
Perforations	21.00			4410.00	
Bullnose	5.00			4415.00	27.00 Bottom Packers & Anchor

Total Tool Length: 54.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

27-17s-25w Ness,KS

4924 SE 84th St
New ton, KS 67114

Skyfall #1

Job Ticket: 65247

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.08.19 @ 11:22:43

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

0 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

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
118.00	gocm 10%g 10%o 80%m	0.580
1623.00	go 20%g 80%o	22.766
0.00	338 GIP	0.000

Total Length: 1741.00 ft

Total Volume: 23.346 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 39@100=35

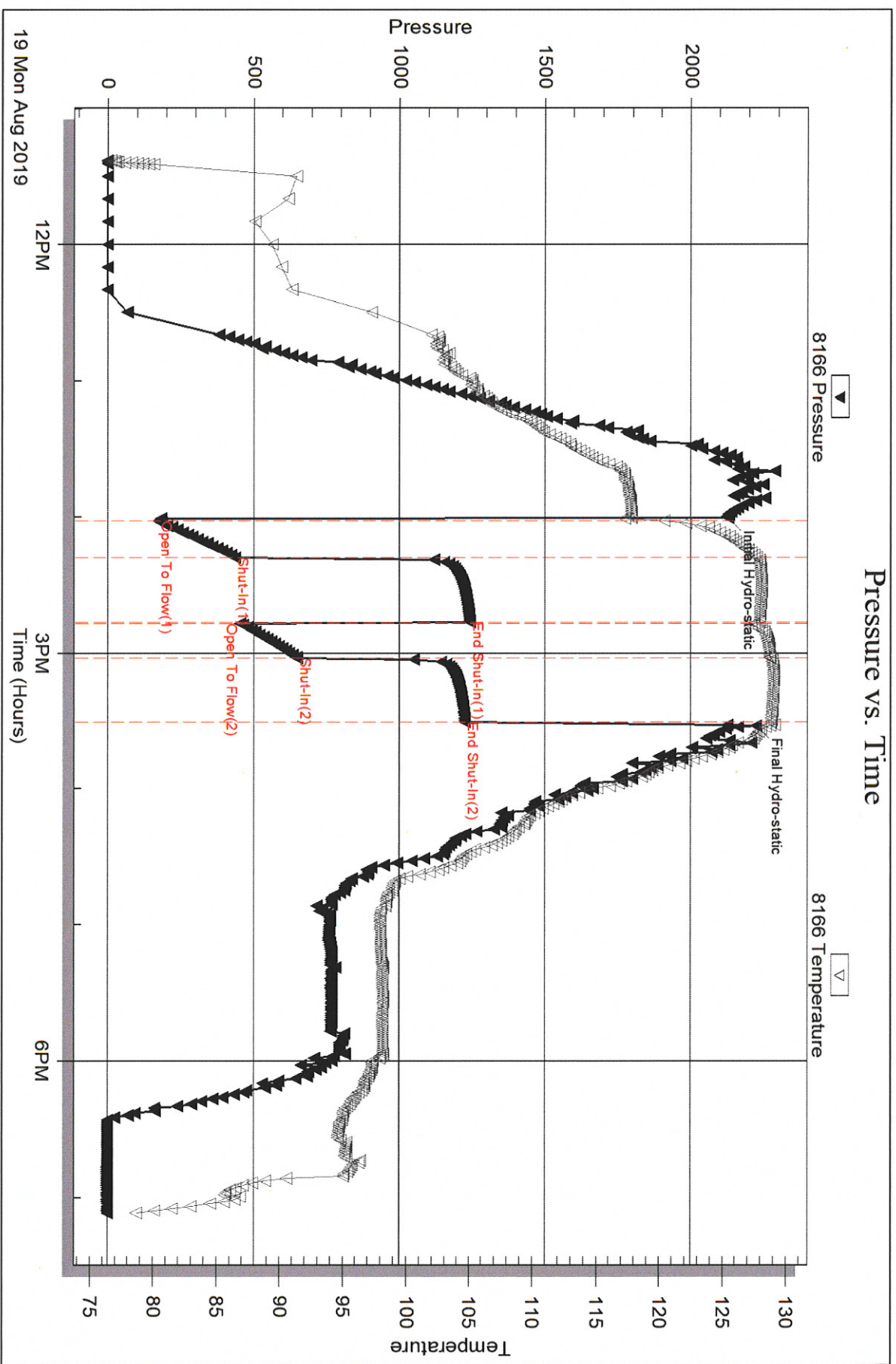
Serial #: 8166

Outside Palomino Petroleum

Skyfall #1

DST Test Number: 2

Pressure vs. Time



Trilobite Testing, Inc

Ref. No: 65247

Printed: 2019.08.21 @ 08:58:18

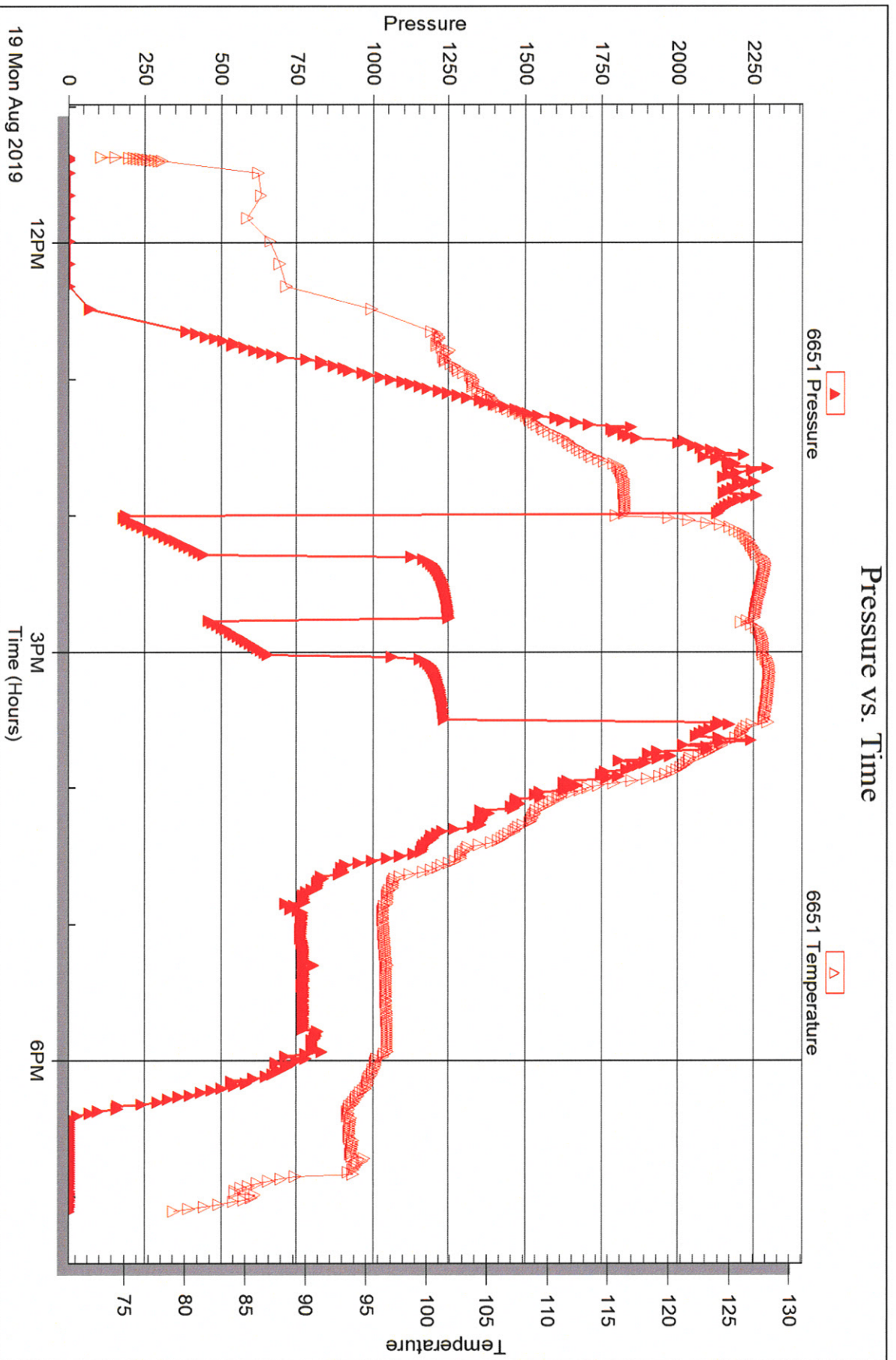
Serial #: 6651

Inside

Palomino Petroleum

Skyfall #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 65247

Printed: 2019.08.21 @ 08:58:18



DRILL STEM TEST REPORT

Prepared For: **Palomino Petroleum**

4924 SE 84th St
Newton, KS 67114

ATTN: Andrew Stenzel

Skyfall #1

27-17s-25w Ness,KS

Start Date: 2019.08.20 @ 01:25:27

End Date: 2019.08.20 @ 08:32:27

Job Ticket #: 65248 DST #: 3

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

Printed: 2019.08.21 @ 08:55:51

Palomino Petroleum 27-17s-25w Ness,KS Skyfall #1 DST # 3 Miss 2019.08.20



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

27-17s-25w Ness,KS

4924 SE 84th St
New ton, KS 67114

Skyfall #1

Job Ticket: 65248

DST#: 3

ATTN: Andrew Stenzel

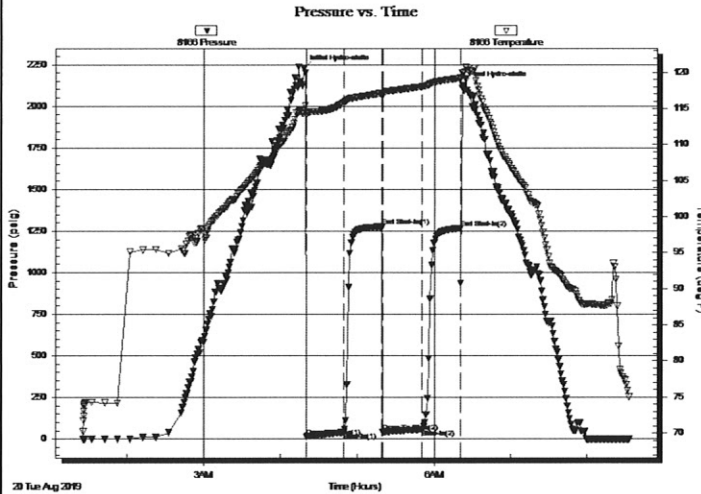
Test Start: 2019.08.20 @ 01:25:27

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 04:20:27 Tester: Brandon Turley
 Time Test Ended: 08:32:27 Unit No: 79
 Interval: **4415.00 ft (KB) To 4421.00 ft (KB) (TVD)** Reference Elevations: 2467.00 ft (KB)
 Total Depth: 4421.00 ft (KB) (TVD) 2462.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 5.00 ft

Serial #: 8166 Outside
 Press@RunDepth: 58.50 psig @ 4416.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.08.20 End Date: 2019.08.20 Last Calib.: 2019.08.20
 Start Time: 01:25:32 End Time: 08:32:26 Time On Btm: 2019.08.20 @ 04:18:27
 Time Off Btm: 2019.08.20 @ 06:21:57

TEST COMMENT: IF: Surface blow built to 2 1/4"
 IS: No return.
 FF: Surface blow built to 1 1/2"
 FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.12	114.35	Initial Hydro-static
2	14.38	114.25	Open To Flow (1)
31	38.96	115.79	Shut-In(1)
61	1276.18	117.11	End Shut-In(1)
62	41.91	116.84	Open To Flow (2)
92	58.50	118.00	Shut-In(2)
122	1266.62	119.20	End Shut-In(2)
124	2125.32	119.94	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
80.00	mcw 90%w 10%m	0.39
20.00	oil 100%o	0.10

* Recovery from multiple tests

Gas Rates

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



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

27-17s-25w Ness, KS

4924 SE 84th St
New ton, KS 67114

Skyfall #1

Job Ticket: 65248

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2019.08.20 @ 01:25:27

GENERAL INFORMATION:

Formation: **Miss**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:20:27

Time Test Ended: 08:32:27

Test Type: Conventional Bottom Hole (Reset)

Tester: Brandon Turley

Unit No: 79

Interval: **4415.00 ft (KB) To 4421.00 ft (KB) (TVD)**

Total Depth: 4421.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2467.00 ft (KB)

2462.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 6651 Inside

Press@RunDepth: psig @ 4416.00 ft (KB)

Start Date: 2019.08.20

End Date: 2019.08.20

Start Time: 01:25:33

End Time: 08:32:27

Capacity: 8000.00 psig

Last Calib.: 2019.08.20

Time On Btm:

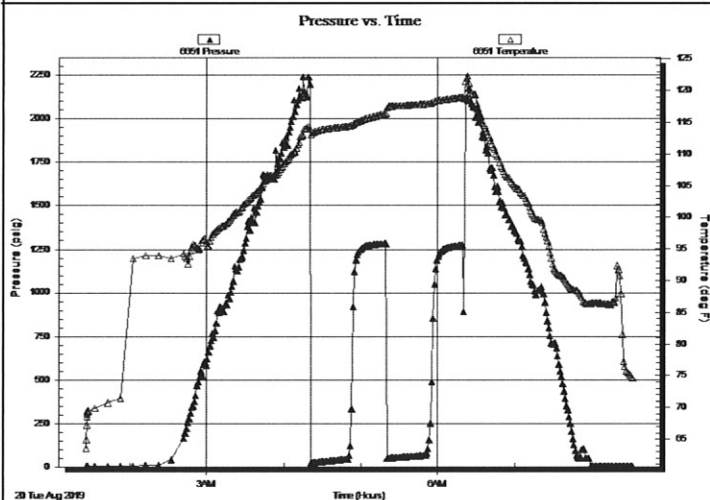
Time Off Btm:

TEST COMMENT: IF: Surface blow built to 2 1/4"

IS: No return.

FF: Surface blow built to 1 1/2"

FS: No return.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
80.00	mcw 90%w 10%m	0.39
20.00	oil 100%o	0.10

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Palomino Petroleum

27-17s-25w Ness,KS

4924 SE 84th St
Newton, KS 67114

Skyfall #1

Job Ticket: 65248

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2019.08.20 @ 01:25:27

Tool Information

Drill Pipe:	Length: 4275.00 ft	Diameter: 3.80 inches	Volume: 59.97 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: 30000.00 lb
Drill Collar:	Length: 118.00 ft	Diameter: 2.25 inches	Volume: 0.58 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 60.55 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4415.00 ft			Final 52000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	6.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Stubb	1.00			4389.00	
Shut In Tool	5.00			4394.00	
Hydraulic tool	5.00			4399.00	
Jars	5.00			4404.00	
Safety Joint	2.00			4406.00	
Packer	5.00			4411.00	27.00 Bottom Of Top Packer
Packer	4.00			4415.00	
Stubb	1.00			4416.00	
Recorder	0.00	6651	Inside	4416.00	
Recorder	0.00	8166	Outside	4416.00	
Bullnose	5.00			4421.00	6.00 Bottom Packers & Anchor

Total Tool Length: 33.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Palomino Petroleum

27-17s-25w Ness,KS

4924 SE 84th St
Newton, KS 67114

Skyfall #1

Job Ticket: 65248

DST#: 3

ATTN: Andrew Stenzel

Test Start: 2019.08.20 @ 01:25:27

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

35 deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

22000 ppm

Viscosity: 59.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.99 in³

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
80.00	mcw 90%w 10%m	0.393
20.00	oil 100%o	0.098

Total Length: 100.00 ft

Total Volume: 0.491 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 36@70=35

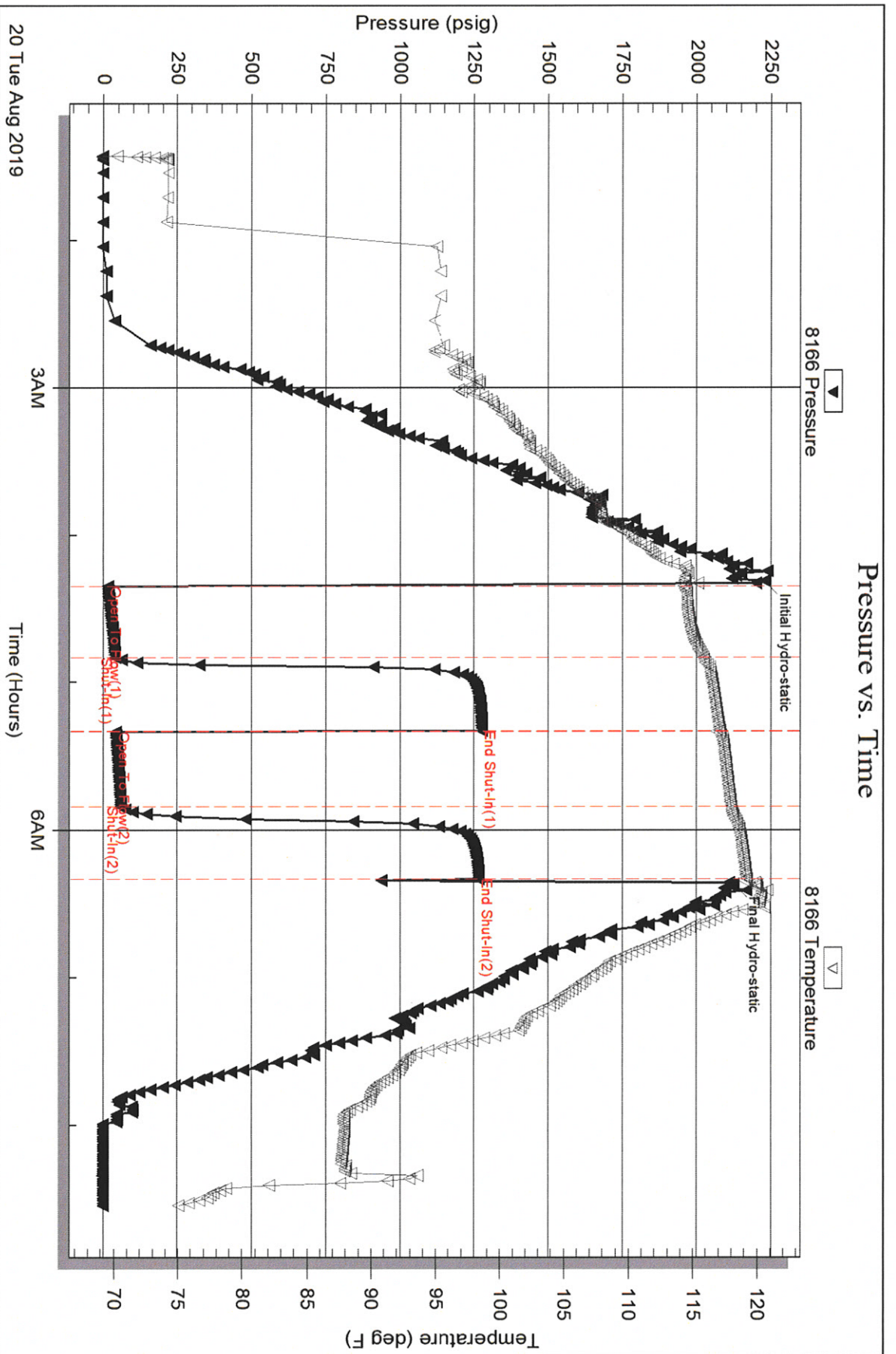
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Serial #: 8166

Outside Palomino Petroleum

Skyfall #1

DST Test Number: 3



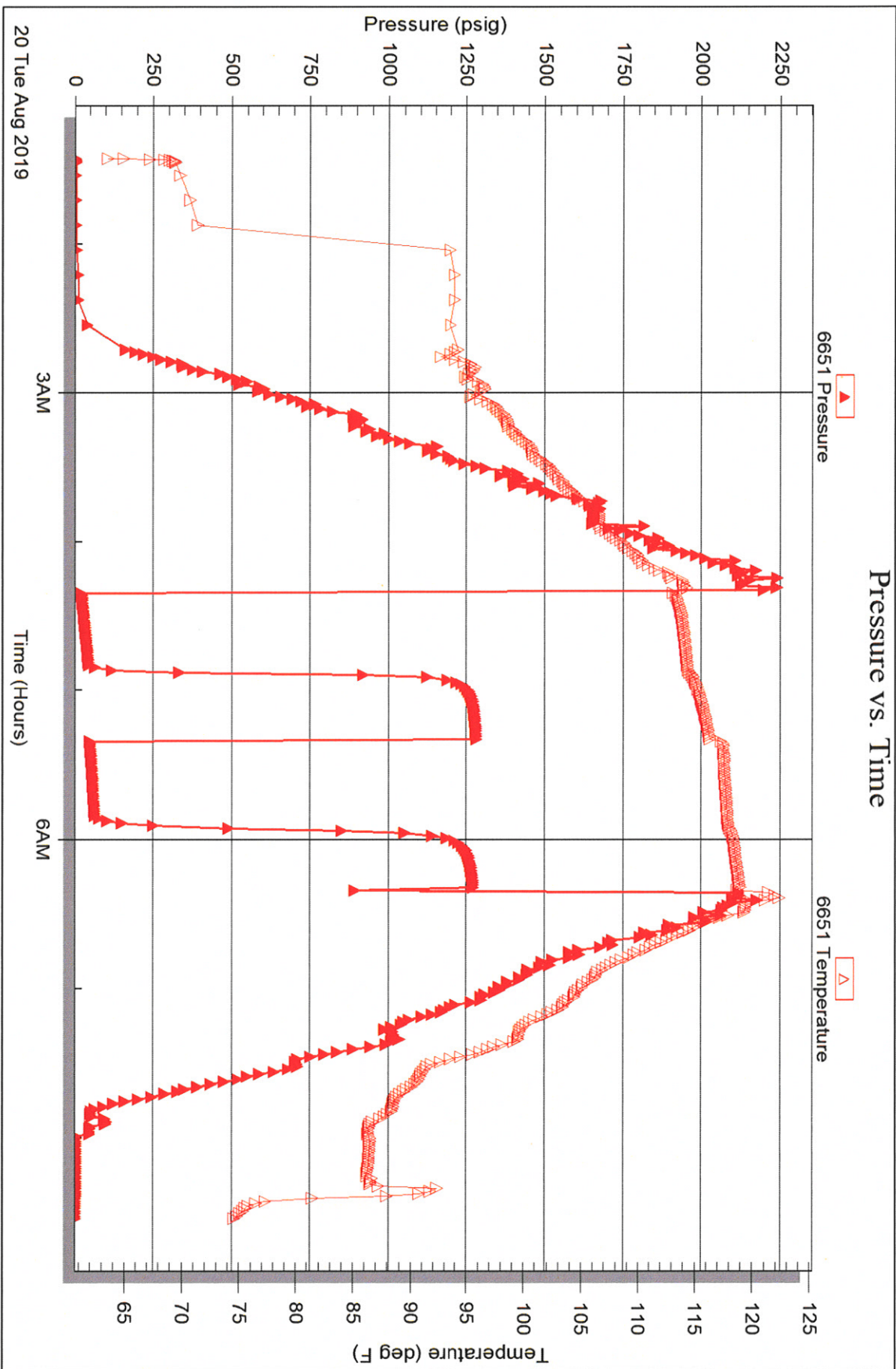
Serial #: 6651

Inside

Palomino Petroleum

Skyfall #1

DST Test Number: 3



Triobite Testing, Inc

Ref. No: 65248

Printed: 2019.08.21 @ 08:55:52



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 65246

Well Name & No. Skyfall #1 Test No. 1 Date 8-18-19
 Company Palomino Petroleum Elevation 2467 KB 2462 GL
 Address 4924 SE 84th St Newton, KS 67114
 Co. Rep / Geo. Andrew Stenzel Rig Murfin 102
 Location: Sec. 27 Twp 17S Rge. 25W Co. Ness State KS

Interval Tested 4085 4253 Zone Tested Marmaton
 Anchor Length 137 Drill Pipe Run 3960 Mud Wt. 9.1
 Top Packer Depth 4080 Drill Collars Run 118 Vis 50
 Bottom Packer Depth 4085 Wt. Pipe Run --- WL 7.2
 Total Depth 4222 Chlorides 3500 ppm System LCM 2

Blow Description IF: 1/4 blow never built.
IS: No return.
FF: No blow.
FS: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</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 5 BHT 115 Gravity --- API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 2147 Test 1300
 (B) First Initial Flow 24 Jars 250
 (C) First Final Flow 28 Safety Joint 75
 (D) Initial Shut-In 52 Circ Sub N/C
 (E) Second Initial Flow 27 Hourly Standby
 (F) Second Final Flow 27 Mileage 110 - 110
 (G) Final Shut-In 40 Sampler
 (H) Final Hydrostatic 2007 Straddle
 Shale Packer
 Extra Packer
 Extra Recorder
 Day Standby
 Accessibility
 Sub Total 1735

T-On Location 5:20
 T-Started 8:21
 T-Open 11:38
 T-Pulled 13:38
 T-Out 16:12
 Comments _____
 EM Tool
 Ruined Shale Packer
 Ruined Packer
 Extra Copies
 Sub Total 0
 Total 1735
 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.



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65247**

Well Name & No. Skyfall #1 Test No. 2 Date 8-19-19
 Company Palomino Petroleum Elevation 2467 KB 2462 GL
 Address _____
 Co. Rep / Geo. Andrew Stenzel Rig Martin 102
 Location: Sec. 27 Twp 17S Rge. 25W Co. Ne55 State KS

Interval Tested 4388 4415 Zone Tested M.55
 Anchor Length 27 Drill Pipe Run 4274 Mud Wt. 9.5
 Top Packer Depth 4383 Drill Collars Run 118 Vis 59
 Bottom Packer Depth 4388 Wt. Pipe Run _____ WL 8.0
 Total Depth 4415 Chlorides 3600 ppm System LCM 1
 Blow Description IF: BoB in 30 sec. 125"
IS: 4" return blow.
FF: BoB in 1 min. 9"
FS: Surface blow built to 1/4.

Rec	Feet of	%gas	%oil	%water	%mud
<u>1623</u>	<u>90</u>	<u>20</u>	<u>80</u>		
<u>118</u>	<u>90cm</u>	<u>10</u>	<u>10</u>	<u>80</u>	
	<u>338 GFP</u>				

Rec Total 1741 BHT 128 Gravity 35 API RW - @ - °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>2127</u>	<input checked="" type="checkbox"/> Test 1300	T-On Location <u>10:45</u>
(B) First Initial Flow <u>174</u>	<input checked="" type="checkbox"/> Jars 250	T-Started <u>11:22</u>
(C) First Final Flow <u>435</u>	<input checked="" type="checkbox"/> Safety Joint 75	T-Open <u>14:00</u>
(D) Initial Shut-In <u>1243</u>	<input checked="" type="checkbox"/> Circ Sub <u>50.00</u>	T-Pulled <u>15:30</u>
(E) Second Initial Flow <u>452</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>19:08</u>
(F) Second Final Flow <u>652</u>	<input checked="" type="checkbox"/> Mileage <u>110</u> - 110	Comments _____
(G) Final Shut-In <u>1226</u>	<input type="checkbox"/> Sampler _____	<input type="checkbox"/> EM Tool _____
(H) Final Hydrostatic <u>2223</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Final Flow <u>15</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Total <u>1785</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>1785</u>	

Approved By _____ Our Representative [Signature]

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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65248**

Well Name & No. Skyfall #1 Test No. 3 Date 8-20-19
 Company Palomino Elevation 2467 KB 2462 GL
 Address _____
 Co. Rep / Geo. Andrew Stenzel Rig Murfin 102
 Location: Sec. 27 Twp 175 Rge. 25W Co. Ness State KS

Interval Tested 4415 4421 Zone Tested M:55
 Anchor Length 6 Drill Pipe Run 4275 Mud Wt. 9.5
 Top Packer Depth 4410 Drill Collars Run 118 Vis 59
 Bottom Packer Depth 4415 Wt. Pipe Run _____ WL 8.0
 Total Depth 4421 Chlorides 3600 ppm System LCM 1
 Blow Description IF: surface blow built to 2 1/4.
FS: No return
FF: surface blow built to 1 1/2.
FS: No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>oil</u>	<u>100</u>			
<u>80</u>	<u>MCW</u>		<u>10</u>	<u>90</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 100 BHT 119 Gravity 35 API RW .33 @ 70 °F Chlorides 22,000 ppm

(A) Initial Hydrostatic <u>2227</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>12:50</u>
(B) First Initial Flow <u>14</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1:25</u>
(C) First Final Flow <u>38</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>4:20</u>
(D) Initial Shut-In <u>1276</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/L</u>	T-Pulled <u>6:20</u>
(E) Second Initial Flow <u>41</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>8:33</u>
(F) Second Final Flow <u>58</u>	<input checked="" type="checkbox"/> Mileage <u>110-X2</u> 220	Comments _____
(G) Final Shut-In <u>1266</u>	<input type="checkbox"/> Sampler _____	loaded tool at 23:30
(H) Final Hydrostatic <u>2125</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> EM Tool _____
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>1845</u>
	Sub Total <u>1845</u>	MP/DST Disc't _____

Approved By _____ Our Representative _____
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Home
(785) 798-3400

Andrew Stenzel Geologist

Ness City, Kansas



Cell
(785) 798-8977

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

Well Name: Skyfall #1
API: 15-135-26076-00-00
Location: NW-NW-SW-SE Sec. 17-17S-25W (Ness County)
License Number: 30742
Spud Date: 8/12/19
Surface Coordinates: 1191' FSL & 2341' FEL
Region: KANSAS
Drilling Completed: 8/21/19

Bottom Hole
Coordinates:
Ground Elevation (ft): 2462
Logged Interval (ft): 3600 To: TD
Formation: MISSISSIPPI
Type of Drilling Fluid: Mud-Co Chemical
K.B. Elevation (ft): 2467
Total Depth (ft): 4525

Printed by MudLog from WellSight Systems 1-800-447-1534 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:

8/12/19 MIRU, ran surface casing
8/13/19 Waiting on cement
8/14/19 Drilling @ 1392'
8/15/19 Drilling @ 2647'
8/16/19 Drilling @ 3372'
8/17/19 Drilling @ 3976'
8/18/19 Tripping out for DST #1, DST #1
8/19/19 Circulating @ 4411, DST #2
8/20/19 DST #3, ran electric logs
8/21/19 Ran Production Casing

Services

RIG: Murfin Drilling DBA WW Drilling, Rig #102

MUD: MUDCO

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

Casing Record

SURFACE Casing: Ran 5 jts new 8 5/8", 23# casing @ 219'

PRODUCTION Casing: Ran 109 jts new 5 1/2", 15.5# casing set at 4523'.

Formation Tops

Sample Tops		LogTops	
Anhy.	1709 (+758)	Anhy.	1704 (+763)
Base Anhy.	1736 (+731)	Base Anhy.	1733 (+734)
Topeka	3492 (-1025)	Topeka	Not Logged
Heebner	3774 (-1307)	Heebner	3742 (-1275)
Lansing	3819 (-1352)	Lansing	3786 (-1319)
BKC	4118 (-1651)	BKC	4083 (-1616)
Marmaton	4157 (-1690)	Marmaton	4116 (-1649)
Pawnee	4247 (-1780)	Pawnee	4210 (-1743)
Ft. Scott	4281 (-1814)	Ft. Scott	4281 (-1814)
Cher. Sh.	4305 (-1838)	Cher. Sh.	4306 (-1839)
Miss.	4382 (-1915)	Miss.	4386 (-1919)
Osage	4285 (-2018)	Osage	4484 (-2017)
RTD	4525 (-2058)	LTD	4524 (-2057)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Palomino Petroleum

27-17s-25w Ness, KS

4924 SE84th St
Newton, KS 67114

Skyfall #1

Job Ticket: 65246

DST#: 1

ATTN: Andrew Stenzel

Test Start: 2019.08.18 @ 08:21:57

GENERAL INFORMATION:

Formation: **Marmaton**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:39:27

Time Test Ended: 16:12:27

Test Type: Conventional Bottom Hole (Initial)

Tester: Brandon Turley

Unit No: 79

Interval: 4085.00 ft (KB) To 4222.00 ft (KB) (TVD)

Total Depth: 4222.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2467.00 ft (KB)

2462.00 ft (CF)

KB to GR/CF: 5.00 ft

Serial #: 8166

Outside

Press@RunDepth: 29.13 psig @ 4086.00 ft (KB)

Start Date: 2019.08.18

End Date:

2019.08.18

Capacity: 8000.00 psig

Last Callb.: 2019.08.18

Start Time: 08:22:02

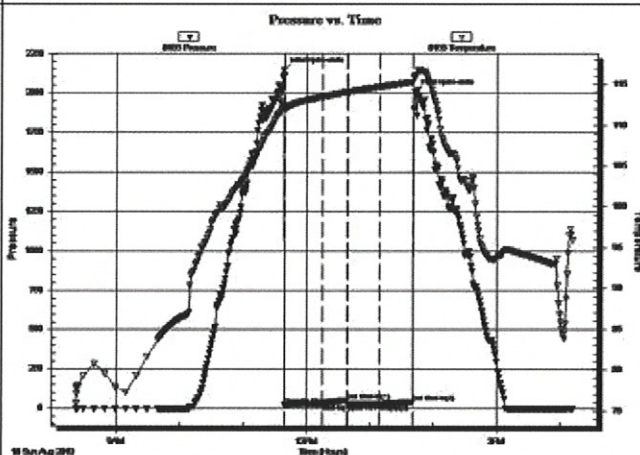
End Time:

16:12:26

Time On Btrr: 2019.08.18 @ 11:38:27

Time Off Btrr: 2019.08.18 @ 13:41:57

TEST COMMENT: IF: 1/4" blow never built.
IS: No return.
FF: No blow.
FS: No return.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2147.66	112.34	Initial Hydro-static
1	24.00	112.02	Open To Flow (1)
37	29.36	113.44	Shut-in(1)
60	52.36	114.04	End Shut-in(1)
61	27.26	114.05	Open To Flow (2)
90	29.13	114.69	Shut-in(2)
122	40.07	115.26	End Shut-in(2)
124	2007.59	116.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	mud 100% m	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Palomino Petroleum

27-17s-25w Ness, KS

4924 SE 84th St
Newton, KS 67114

Skyfall #1

Job Ticket: 65247

DST#: 2

ATTN: Andrew Stenzel

Test Start: 2019.08.19 @ 11:22:43

GENERAL INFORMATION:

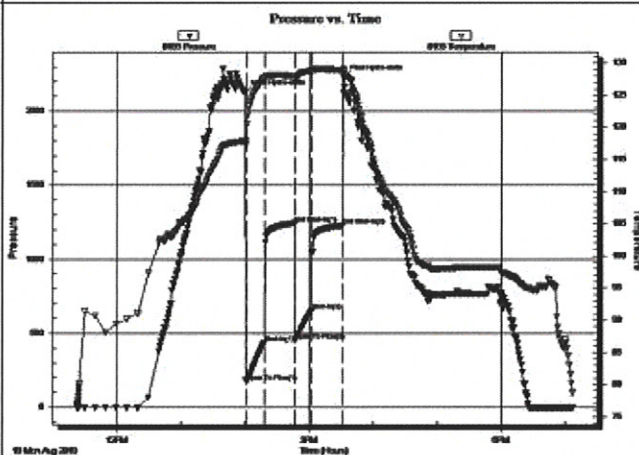
Formation: **Miss**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: 14:01:43
 Time Test Ended: 19:06:43
 Interval: **4388.00 ft (KB) To 4415.00 ft (KB) (TVD)**
 Total Depth: **4415.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 Test Type: **Conventional Bottom Hole (Reset)**
 Tester: **Brandon Turley**
 Unit No: **79**
 Reference Elevations: **2467.00 ft (KB)**
2462.00 ft (CF)
KB to GR/CF: 5.00 ft

Serial #: 8166

Outside

Press@RunDepth: **652.23 psig @ 4389.00 ft (KB)**
 Start Date: **2019.08.19** End Date: **2019.08.19** Capacity: **8000.00 psig**
 Start Time: **11:22:48** End Time: **19:06:42** Last Callb.: **2019.08.19**
 Time On Btmr: **2019.08.19 @ 14:00:13**
 Time Off Btmr: **2019.08.19 @ 15:32:13**

TEST COMMENT: IF: BOB in 30 sec. 125"
 IS: 4" return blow.
 FF: BOB in 1 min. 91"
 FS: Surface blow built to 1/4"



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2127.54	117.83	Initial Hydro-static
2	174.39	120.42	Open To Flow (1)
18	435.80	127.68	Shut-in(1)
46	1243.71	127.92	End Shut-in(1)
47	452.93	127.50	Open To Flow (2)
62	652.23	128.76	Shut-in(2)
91	1226.85	128.85	End Shut-in(2)
92	2223.58	128.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
118.00	gocm 10%g 10%o 80%m	0.58
1623.00	go 20%g 80%o	22.77
0.00	338 GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Palomino Petroleum
4924 SE 84th St
New ton, KS 67114

ATTN: Andrew Stenzel

27-17s-25w Ness, KS

Skyfall #1

Job Ticket: 65248

DST#: 3

Test Start: 2019.08.20 @ 01:25:27

GENERAL INFORMATION:

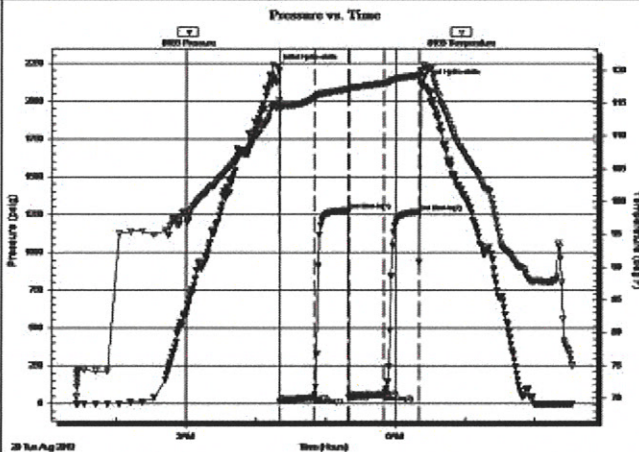
Formation: **Miss**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Reset)**
 Time Tool Opened: **04:20:27**
 Tester: **Brandon Turley**
 Time Test Ended: **08:32:27**
 Unit No: **79**
 Interval: **4415.00 ft (KB) To 4421.00 ft (KB) (TVD)**
 Reference Bevatons: **2467.00 ft (KB)**
 Total Depth: **4421.00 ft (KB) (TVD)**
2462.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Good**
 KB to GR/CF: **5.00 ft**

Serial #: 8166

Outside

Press@RunDepth: **58.50 psig @ 4416.00 ft (KB)** Capacity: **8000.00 psig**
 Start Date: **2019.08.20** End Date: **2019.08.20** Last Calib.: **2019.08.20**
 Start Time: **01:25:32** End Time: **08:32:26** Time On Btrr: **2019.08.20 @ 04:18:27**
 Time Off Btrr: **2019.08.20 @ 06:21:57**

TEST COMMENT: IF: Surface blow built to 2 1/4"
 IS: No return.
 FF: Surface blow built to 1 1/2"
 FS: No return.



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	2227.12	114.35	Initial Hydro-static
2	14.38	114.25	Open To Flow (1)
31	38.96	115.79	Shut-in(1)
61	1276.18	117.11	End Shut-in(1)
62	41.91	116.84	Open To Flow (2)
92	58.50	118.00	Shut-in(2)
122	1266.62	119.20	End Shut-in(2)
124	2125.32	119.94	Final Hydro-static

Recovery

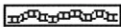
Length (ft)	Description	Volume (bbl)
80.00	mcw 90%w 10%m	0.39
20.00	oil 100%o	0.10





* Recovery from multiple tests





Gas Rates


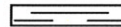
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

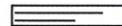



ROCK TYPES



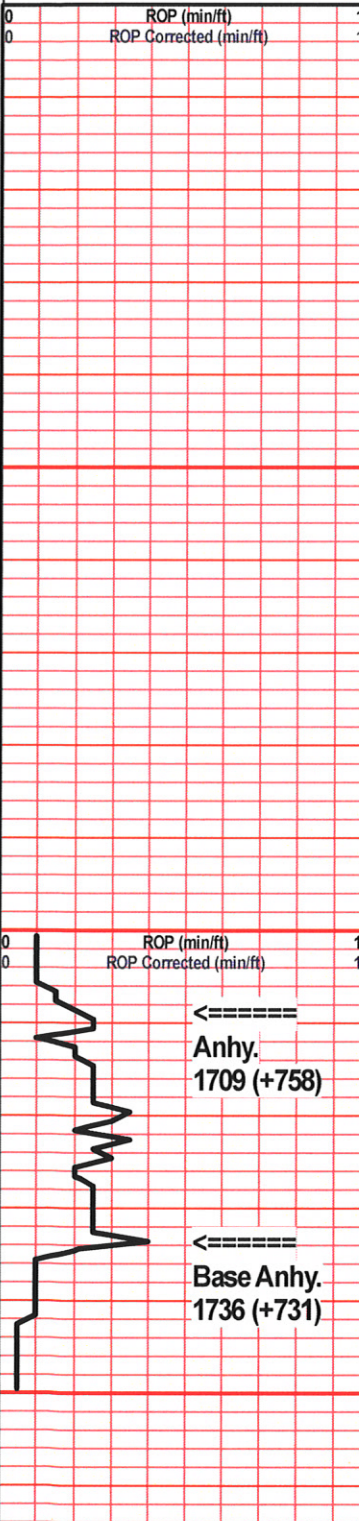
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-  Bent
-  Brec
-  Cht

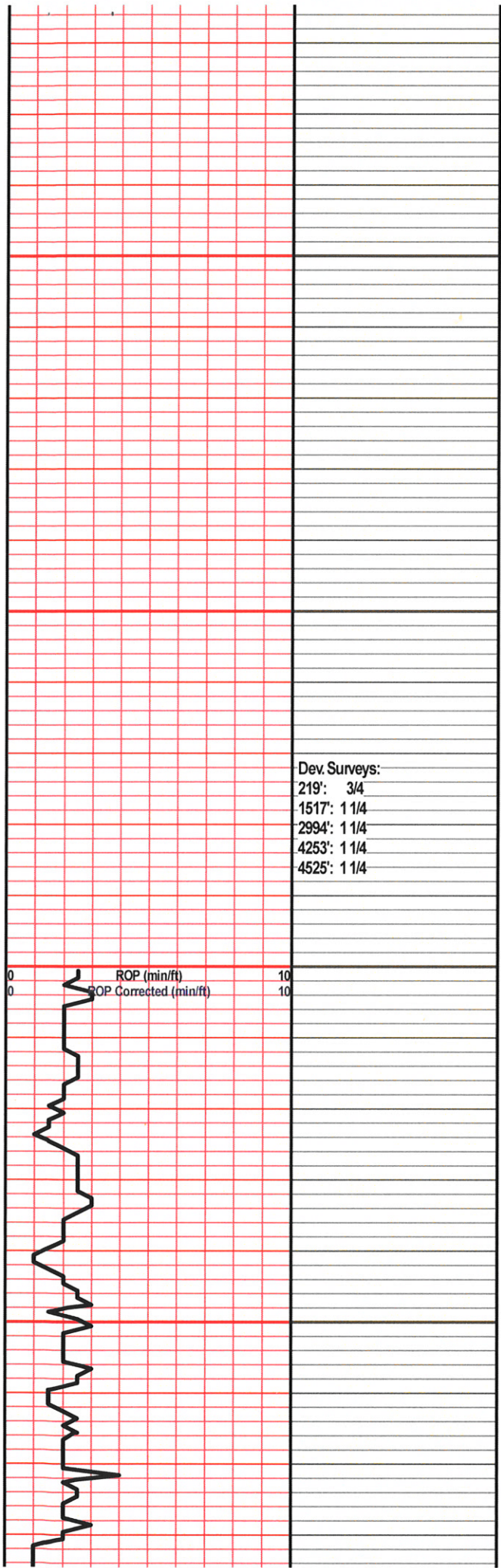
-  Clyst
-  Carb shale
-  Congl
-  Dol

-  Gyp
-  Igne
-  Lmst
-  Meta

-  Mrlst
-  Salt
-  Shale
-  Shcol

-  Shgy
-  Sltst
-  Ss
-  Till

ROP						
ROP (min/ft) 				Misc	% Lithology	Geological Descriptions
ROP Corrected (min/ft) 						DST
<div style="display: flex; justify-content: space-between;"> 0 ROP (min/ft) 10 </div> <div style="display: flex; justify-content: space-between;"> 0 ROP Corrected (min/ft) 10 </div> 		Depth <small>Oil Shows</small>				
		31				
		3150				
		3200				
		3250				



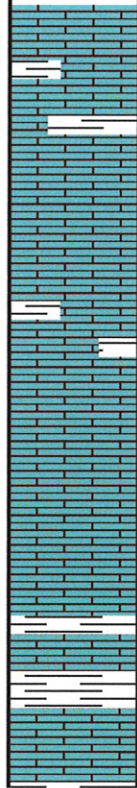
Dev. Surveys:
 219': 3/4
 1517': 1 1/4
 2994': 1 1/4
 4253': 1 1/4
 4525': 1 1/4

3300

3350

3400

3450

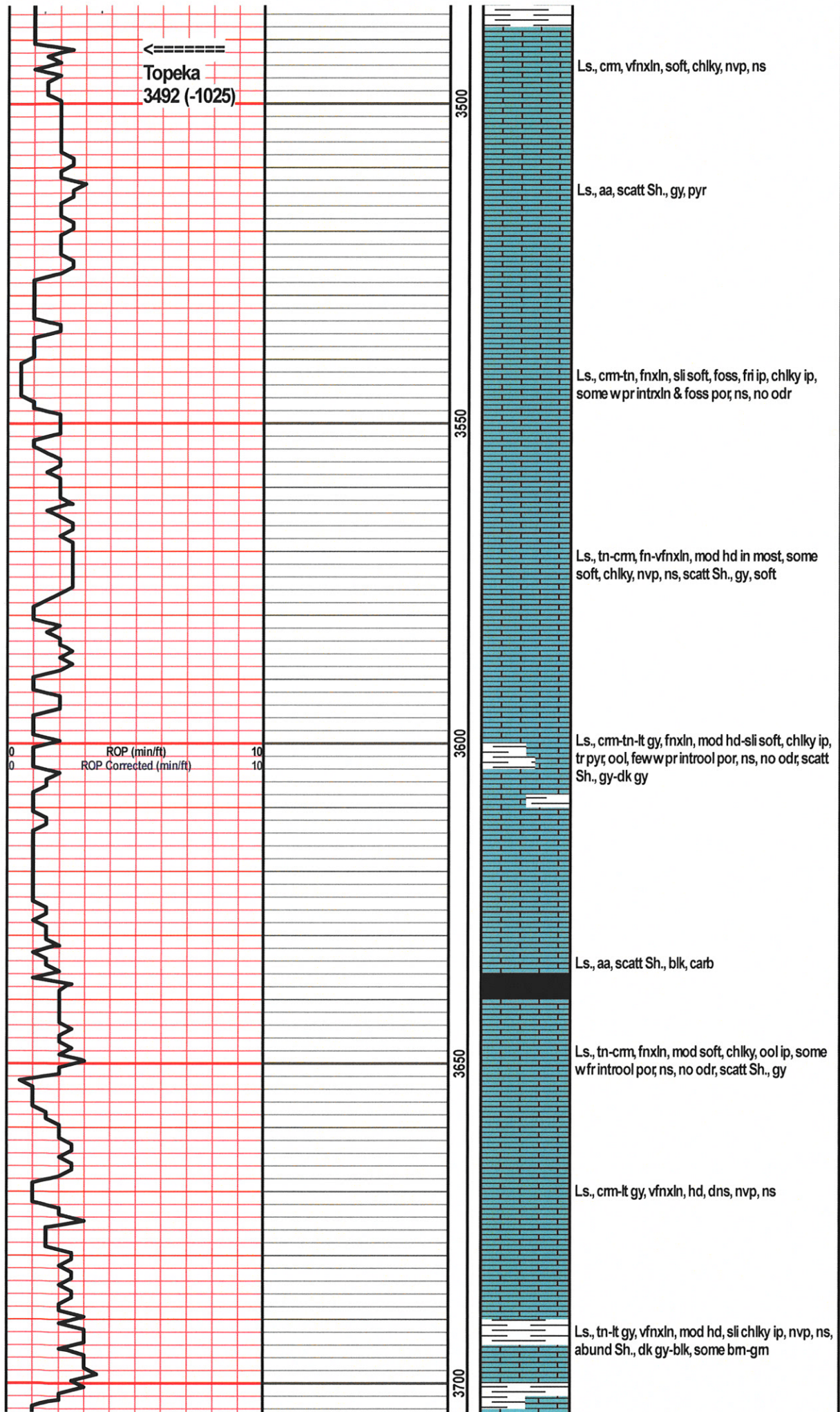


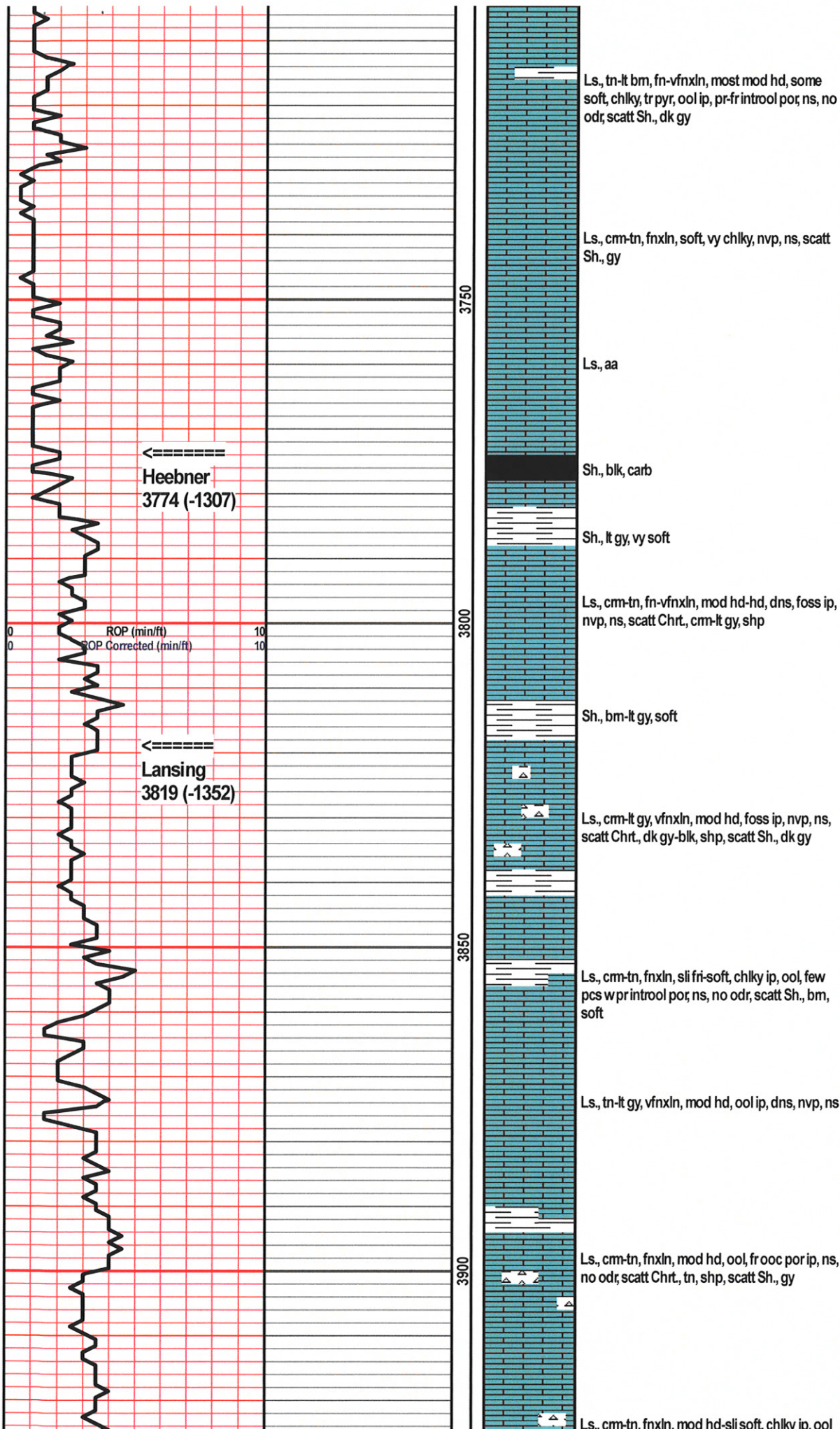
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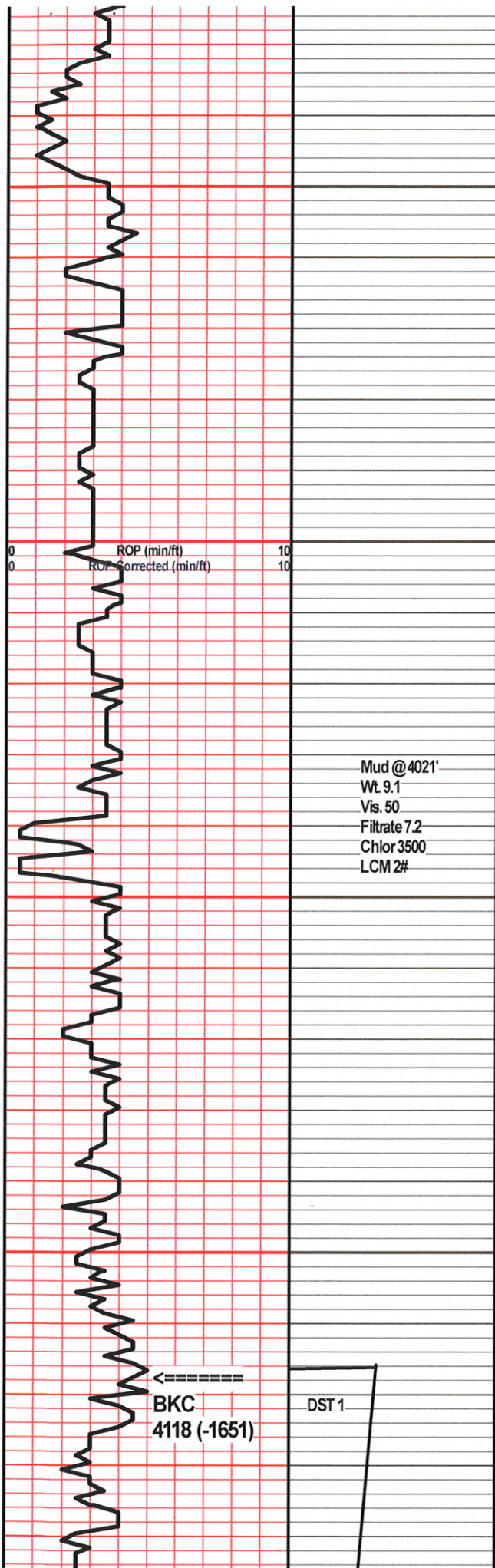
Ls., cm-gy, fr-vfrxn, mod hd, chky ip, foss, nvp, ns, sactt Sh., bm-gm

Ls., lt gy-gy-tn, frxn, mod hd-hd, ool, nvp, ns

Sh., gy, Ls., aa







3950

4000

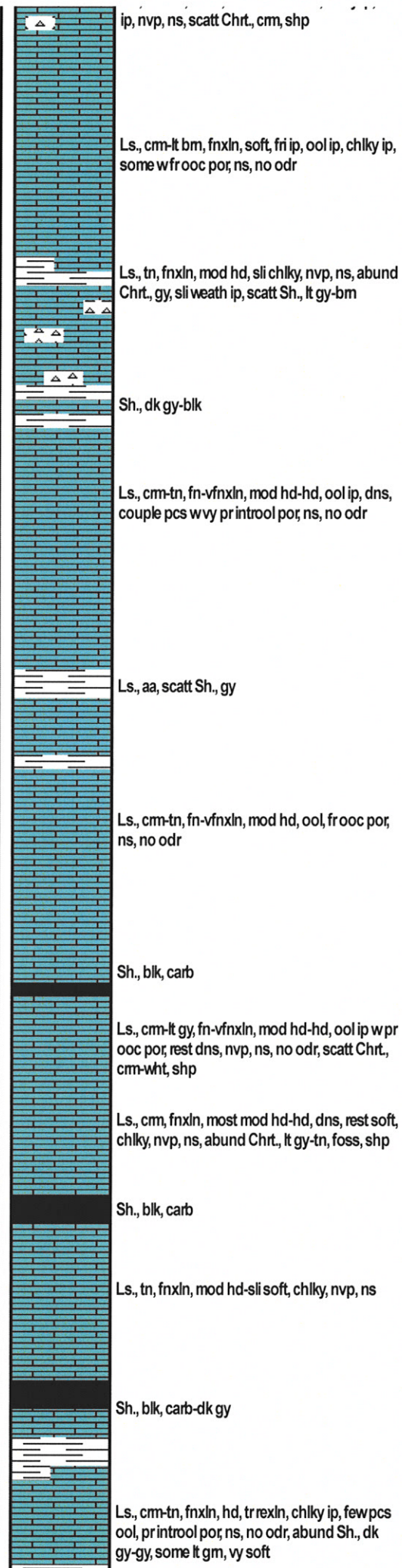
4050

4100

Mud @ 4021'
 Wt 9.1
 Vis 50
 Filtrate 7.2
 Chlor 3500
 LCM 2#

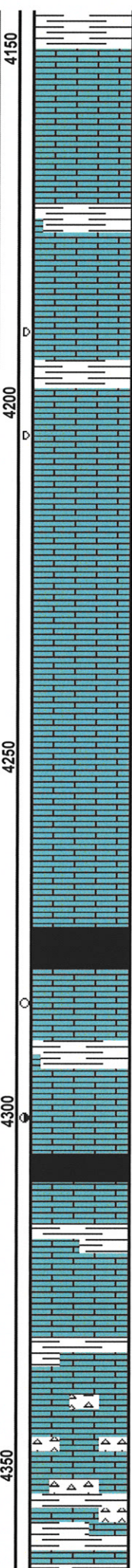
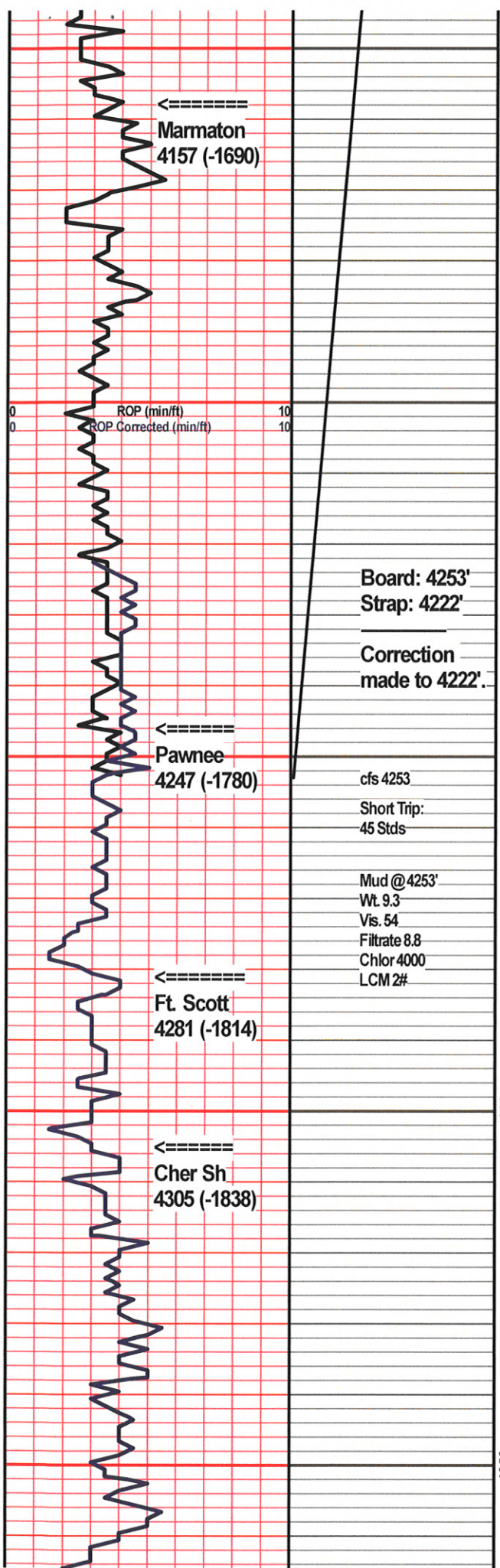
BKC
 4118 (-1651)

DST 1



DST #1 4085-4222
 (Marmaton)

30-30-30-30
 IF: 1/4" blow, never built
 IS: No blow
 FF: No blow
 FS: No blow



Ls., cm-tn, fn-vfnxn, mod hd, foss ip, tr fracs, couple pcs wvy pr frac & foss por, NSFO, tr dk bm-blk stn along por, strong cup odr, scatt Sh., aa

Ls., cm-tn-lt gy, fn-vfnxn, mod hd, foss ip, tr fracs, couple pcs wvy pr intrxn & frac por, VSSFO, dk bm-blk spot-flky stn, strg cup odr, some free oil in tray, scatt Sh., bm, soft

Ls., cm-tn, fnxn, mod hd-sli soft ip, few pcs chlky, tr fracs, foss ip, few pcs wvy pr foss & intrxn por, VSSFO, tr blk stn in por, one pc wfr rexln, gd lt bm edge stn, pr vug por, decr odr

Ls., cm-lt gy, vfnxn, mod hd, sli chlky ip, nvp, ns, no odr

Ls., lt gy-gy, vfnxn, mod hd-hd, dns, sli chlky ip, nvp, ns

Ls., gy, vfnxn, mod hd, sli shly, nvp, ns

Sh., blk, carb

Ls., cm, fnxn, mod hd, foss, scatt pcs wpr intrxn, ppt & rare pr foss por, SSFO, lt bm spot stn, wk odr

Ls., cm-tn, fnxn, mod hd-sli soft ip, foss, scatt pcs wpr ppt & intrxn por, few wfr ppt & vug por, tr rexln, FSFO, lt bm spot -rare sub sat stn, gd odr, scatt Sh., gy-bm

Sh., blk, carb

Ls., cm, fn-vfnxn, hd, most dns, few pcs chlky, tr pyr, nvp, ns, scatt Sh., gy-dk gy

Ls., cm-tn, fnxn, mod hd-hd, tr pyr, nvp, ns, scatt Sh., gy, scatt Chrt., tn-bm-org, weath, tr pr intrgran por, blk stn, NSFO, no det odr

Ls., aa, couple pcs wvy pr iso vug por, blk tar stn, abund Sh., yel-bm-purp, soft-vy soft, scatt Chrt., tn-org, weath, nvp, ns, no det odr

Recovery:
5' Mud

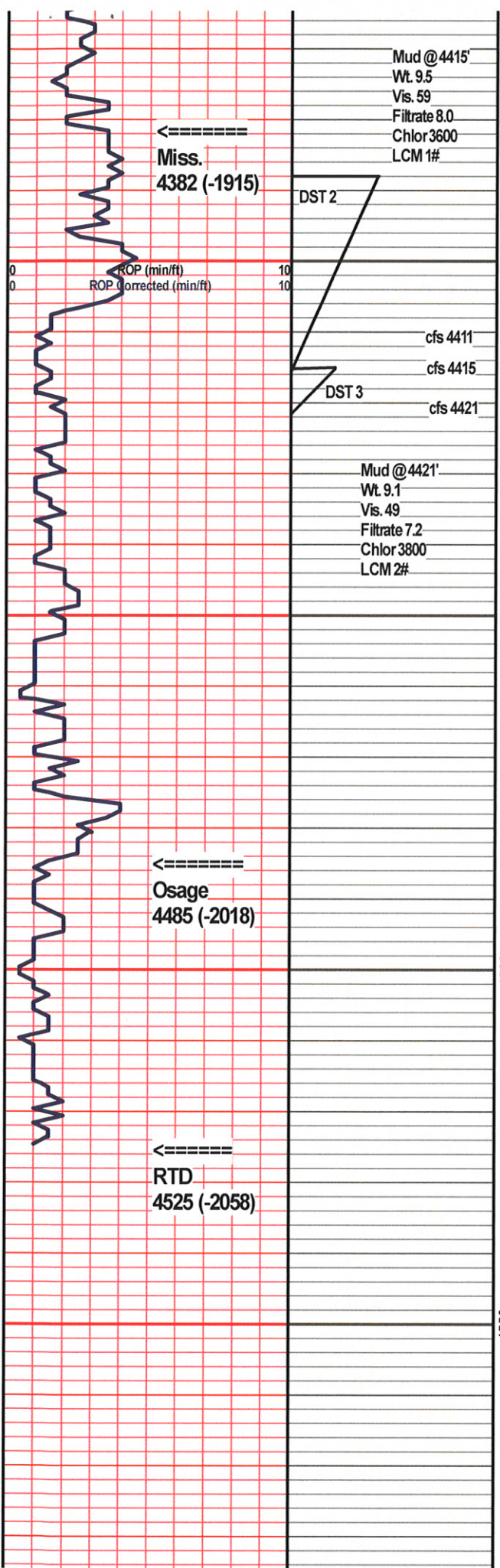
FP: 24-28; 27-27
SIP: 52-40
HP: 2147-2007

BHT: 115
Gravity: --
Chlor: ---

*DST interval was changed from 4116-4253 to 4085-4222 due to board correction

Driller put an extra joint on the board and rolled geograph forward, putting everything approximately 31' low. Tops and drill time from 3400-4253' not corrected.

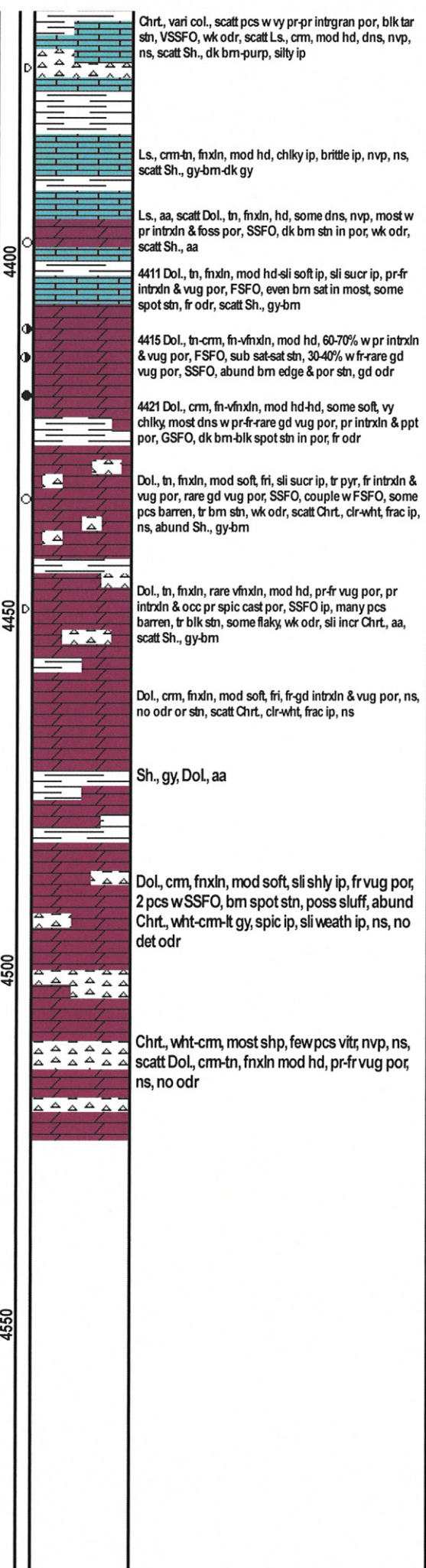
DST #2 4388-4415 (Mississippi)
15-30-15-30
IF: BOB in 30 sec, built to 125"
IS: Built to 4"
FF: BOB in 1 min, built to 91"
FS: SR built to 1/4"



Mud @ 4415'
 Wt. 9.5
 Vis. 59
 Filtrate 8.0
 Chlor 3600
 LCM 1#

cfs 4411
 cfs 4415
 cfs 4421

Mud @ 4421'
 Wt. 9.1
 Vis. 49
 Filtrate 7.2
 Chlor 3800
 LCM 2#



Recovery:
 338' GIP
 1623' GO (20%G, 80%O)
 118' GOCM (10%G, 10%O, 80%M)

1741' TF *Reversed out to truck

FP: 174-436; 453-652
 SIP: 1244-1227
 HP: 2128-2224

BHT: 128
 Gravity: 35
 Chlor: ---

DST #3 4415-4421 (Mississippi)

30-30-30-30
 IF: SB, built to 2 1/4"
 IS: No blow
 FF: SB, built to 1 1/2"
 FS: No blow

Recovery:
 20' Oil (100%O)
 80 WCM (10%W, 90%M)

100' TF

FP: 14-39; 42-59
 SIP: 1276-1267
 HP: 2227-2125

BHT: 119
 Gravity: 35
 Chlor 22000

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