

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	US Oil Resources LLC
Well Name	BEOUGHER 12A-36-1329
Doc ID	1482631

All Electric Logs Run

Dual Spaced Neutron Spectral Density
Array Compensated True Resistivity
Microlog
Borehole Sonic Array
Annular Hole Volume
Cement Bond Log



CHARGE TO: **US D.1**

TICKET **032805**

ADDRESS
CITY, STATE, ZIP CODE

PAGE **1** OF **1**

1. SERVICE LOCATIONS Woolly	WELL/PROJECT NO. 24-36-1329	LEASE Reaper	COUNTY/PARISH Core	STATE KS	CITY Core	DATE 5 NOV 19	OWNER
2. TICKET TYPE <input type="checkbox"/> SERVICE <input type="checkbox"/> SALES	CONTRACTOR	RIG NAME/NO.	SHIPPED VIA	DELIVERED TO	WELL PERMIT NO.	ORDER NO.	
3. WELL TYPE Oil	WELL CATEGORY Development	JOB PURPOSE Cent. pipe				WELL LOCATION 36-13-29	
4. REFERRAL LOCATION	INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.		UNIT		AMOUNT
		LOC	ACCT		UM	UM	PRICE		
575				MILEAGE	120	um		5.00	300.00
5765				TRK 114	1	ea		925.00	925.00
325				Pump Charge	195	sk		13.50	2632.50
279				Standard cement	410	lb		30.00	12300.00
278				Bentonite gel	450	lb		40.00	18000.00
290				Calcium chloride	1	gal		42.00	42.00
581				D-air	15	sk		18.5	360.75
583				Service charge	1910	lb		29.5	54663
				Drayage					

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 _____ TIME SIGNED 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?	AGREE	UNDECIDED	DISAGREE
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? YES NO

CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL **528688**

TAX _____

TOTAL _____

SWIFT OPERATOR _____ APPROVAL _____

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 5 NOV 19 PAGE NO. 1

CUSTOMER OS OIL WELL NO. 12A-36-1329 LEASE Brougher JOB TYPE cement surface job TICKET NO. 32805

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								115 sk Standard cement 2 1/2" 3/8" 8 3/4" x 23" 6 joints - 263 ft
	1750							on loc TRK 114
	1900							start 8 3/4" x 23" casing in well
	2002							circulate well
	2028	4	48				200	M x STD 2 1/2" 3/8" 95 sk @ 14.7 ppg
	2040	4					200	Displace cement
								→ cement to surface ←
	2050	4	15 1/2				200	Kickoff - shift in 8 3/8"
	2053							wash up truck
								Pick up
	2100							job complete
								(195 sk mixed 20 sk 10 T)



TICKET U32637

CHARGE TO: 15. Oil Resources
 ADDRESS
 CITY, STATE, ZIP CODE

PAGE 1 OF

1. SERVICE LOCATION <u>Hays KS</u>	WELL/PROJECT NO. <u>12A-36-1329</u>	LEASE <u>Borougher</u>	COUNTY/PARISH <u>Gore</u>	STATE <u>KS</u>	CITY	DATE <u>11-15-19</u>	OWNER
2. <u>Ness City KS</u>	TICKET TYPE <input type="checkbox"/> SERVICE <input checked="" type="checkbox"/> SALES	CONTRACTOR <u>Duke</u>	RIG NAME/NO. <u>Rig # 4</u>	SHIPPED <u>Yes</u>	DELIVERED TO <u>Delvich</u>	ORDER NO.	
3.	WELL TYPE <u>Dil</u>	WELL CATEGORY <u>development</u>	JOB PURPOSE <u>2 stage Long String</u>	WELL PERMIT NO.	WELL LOCATION		
4.	REFERRAL LOCATION INVOICE INSTRUCTIONS						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	MILEAGE	QTY. U/M			UNIT PRICE	AMOUNT
		LOC	ACCT	DF			QTY.	U/M	QTY.		
575					TRK # 110	60	Mi			5.00	300.00
579					Pump Charge - 2 stage	1	EA			1900.00	1900.00
290					D-Air	5	EA			42.00	210.00
281					Mudflush	500	lbs			1.50	750.00
281					Lowvis Gel	4	lbs			25.00	100.00
402					Centralizer	18	EA			75.00	1350.00
403					Cement Basket	2	EA			275.00	550.00
402					Insert Floor shoe w/ Annul fill	1	EA			325.00	325.00
408					D.V. Tool & Pig St	1	EA			3375.00	3375.00
417					D.V. Laydown Pig St	1	EA			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.

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

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?	AGREE	UNDECIDED	DISAGREE	P.1	9060.00
WE UNDERSTOOD AND MET YOUR NEEDS?				P.2	11468.75
OUR SERVICE WAS PERFORMED WITHOUT DELAY?				TOTAL	20528.75
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?				TAX	
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO		TOTAL	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND					

SWIFT OPERATOR DAVID EDGERTON APPROVAL _____
 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 11-15-19 PAGE NO.

CUSTOMER US Oil Resources WELL NO. 12A-36-1329 LEASE Braugher JOB TYPE 2 stage LS. TICKET NO. 32637

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	230							On location
								Csg - 12000 5 1/2 x 15 5 + RTD - 4675 Set @ 4659.98 Insert @ 4619.16 DV. TOOL @ 2337.54 Centralizers - 1-16 54 75 Baskets - 55 + 76
	500							START Running Csg
	745							BREAK circ on Bottom
	900	5.5	12			300		pump mud flush - 500 Gal
		5.5	20			300		pump Kel spacer
		5	46.5			300		TAKE on mud For Disp pump cmt - 195 sks @ 15.5 ^{PPG}
		6.5	0			300		Drop plug - WASH P&L
	1005	5	110			900/1600		START Disp LAND plug - lift psi - 900 LAND psi - 1600
	1010							Drop DV. opening tool - WASH TRK
	1030					250		Open DV. TOOL - Circ
	1330	2.5	8			0		plug Rat+hole - 30 sks cmt
		5.5	20			200		pump Kel spacer
	1340	6	0			200		START cmt - 225 sks @ 11.2 ^{PPG}
		6	125			200		Raise wgt to 14 ^{PPG} for 25 sks
		5	136			200		END cmt
								Drop plug
	1415	5	0			200		START Disp
		5	20			500		Circ cmt - 60 sks to pit
	1430	5	55			700/1500		LAND plug lift psi - 700 LAND psi - 1500
								Release psi - Dry
								JOB Complete
								THANKS
								DAVID, JON, AUSTIN & Kirby



DRILL STEM TEST REPORT

Prepared For: **US Oil Resources LLC**

6727 W. Prentice Ave
Lakewood, CO 80123

ATTN: Jim Musgrove

Beougher#12A-36-1329

36-13S-29W Gove,KS

Start Date: 2019.11.11 @ 11:41:00

End Date: 2019.11.11 @ 21:09:00

Job Ticket #: 65571 DST #: 1

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

Printed: 2019.11.14 @ 09:44:52



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

US Oil Resources LLC
 6727 W. Prentice Ave
 Lakewood, CO 80123
 ATTN: Jim Musgrove

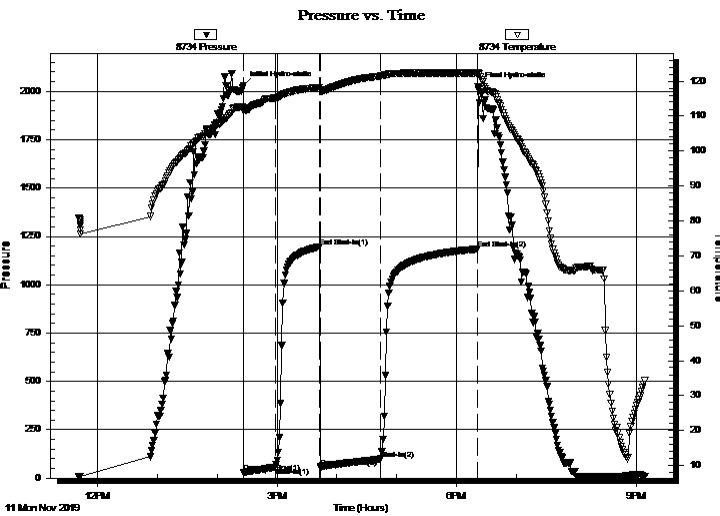
36-13S-29W Gove, KS
Beougher#12A-36-1329
 Job Ticket: 65571 **DST#: 1**
 Test Start: 2019.11.11 @ 11:41:00

GENERAL INFORMATION:

Formation: **KC "I & J"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 14:26:50 Tester: Martine Salinas
 Time Test Ended: 21:09:00 Unit No: 82
 Interval: **4116.00 ft (KB) To 4182.00 ft (KB) (TVD)** Reference Elevations: 2779.00 ft (KB)
 Total Depth: 4182.00 ft (KB) (TVD) 2770.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good KB to GR/CF: 9.00 ft

Serial #: 8734 Outside
 Press@RunDepth: 98.10 psig @ 4117.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.11 End Date: 2019.11.11 Last Calib.: 2019.11.11
 Start Time: 11:41:01 End Time: 21:09:00 Time On Btm: 2019.11.11 @ 14:26:40
 Time Off Btm: 2019.11.11 @ 18:21:39

TEST COMMENT: 30-IF-Surface blow built to 8 1/4"
 45-ISI-No blow back
 60-FF-Surface blow built to B.O.B (11 inches) @ 42 mins (blow increased to 15 1/2")
 90-FSI-Surface blow back built to 1 1/4"



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2031.13	112.34	Initial Hydro-static
1	28.85	111.52	Open To Flow (1)
32	57.53	115.18	Shut-In(1)
76	1195.68	118.11	End Shut-In(1)
77	53.68	117.40	Open To Flow (2)
138	98.10	121.47	Shut-In(2)
235	1184.30	122.28	End Shut-In(2)
235	2022.81	122.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	GSOWM 15%G,5%O,20%W,60%M	0.84
99.00	GOCM 8%G, 24%O, 68%M	1.39
1.00	CO 100%O	0.01
0.00	130' GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

US Oil Resources LLC

36-13S-29W Gove,KS

6727 W. Prentice Ave
Lakewood, CO 80123

Beougher#12A-36-1329

ATTN: Jim Musgrove

Job Ticket: 65571

DST#: 1

Test Start: 2019.11.11 @ 11:41:00

Tool Information

Drill Pipe:	Length: 4097.00 ft	Diameter: 3.80 inches	Volume: 57.47 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 57.47 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 52000.00 lb
Depth to Top Packer:	4116.00 ft			Final 53000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	66.00 ft			
Tool Length:	95.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Pulled 23K over STWT coming off bottom

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4092.00	
Hydraulic tool	5.00	1113		4097.00	
Jars	5.00	01-07		4102.00	
EM Tool	4.00			4106.00	
Packer	5.00			4111.00	29.00 Bottom Of Top Packer
Packer	5.00			4116.00	
Stubb	1.00			4117.00	
Recorder	0.00	8959	Inside	4117.00	
Recorder	0.00	8734	Outside	4117.00	
Perforations	27.00			4144.00	
Change Over Sub	1.00			4145.00	
Drill Pipe	31.00			4176.00	
Change Over Sub	1.00			4177.00	
Bullnose	5.00			4182.00	66.00 Bottom Packers & Anchor

Total Tool Length: 95.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

US Oil Resources LLC

36-13S-29W Gove,KS

6727 W. Prentice Ave
Lakewood, CO 80123

Beougher#12A-36-1329

Job Ticket: 65571

DST#: 1

ATTN: Jim Musgrove

Test Start: 2019.11.11 @ 11:41:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37.2 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

34000 ppm

Viscosity: 53.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	GSOWM 15%G,5%O,20%W,60%M	0.842
99.00	GOCM 8%G, 24%O, 68%M	1.389
1.00	CO 100%O	0.014
0.00	130' GIP	0.000

Total Length: 160.00 ft Total Volume: 2.245 bbl

Num Fluid Samples: 0

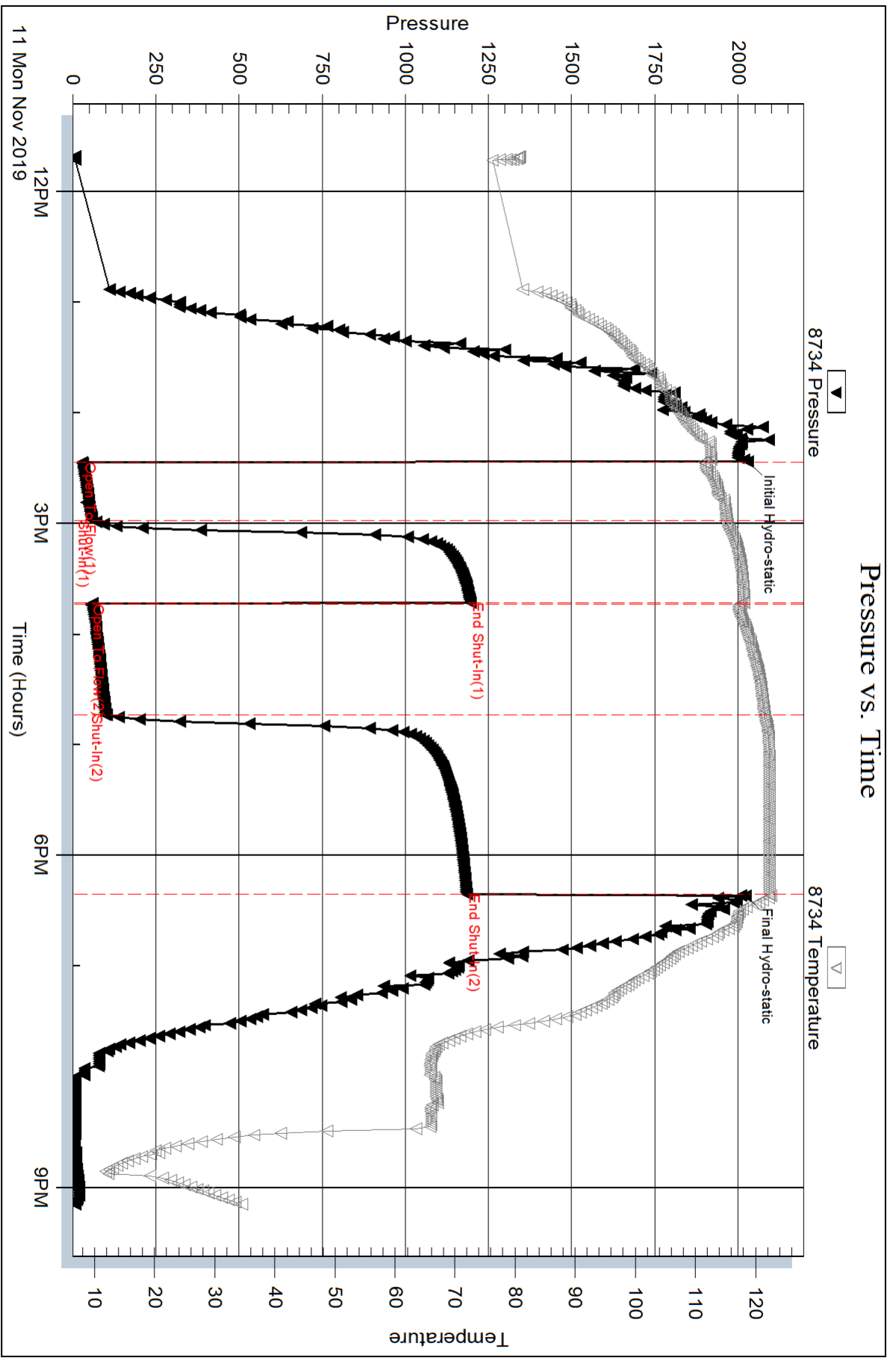
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil = 34@28 degs corrected to 37.2 @ 60 degs
RW= .290 @ 52.5 degs = 34,000 PPM



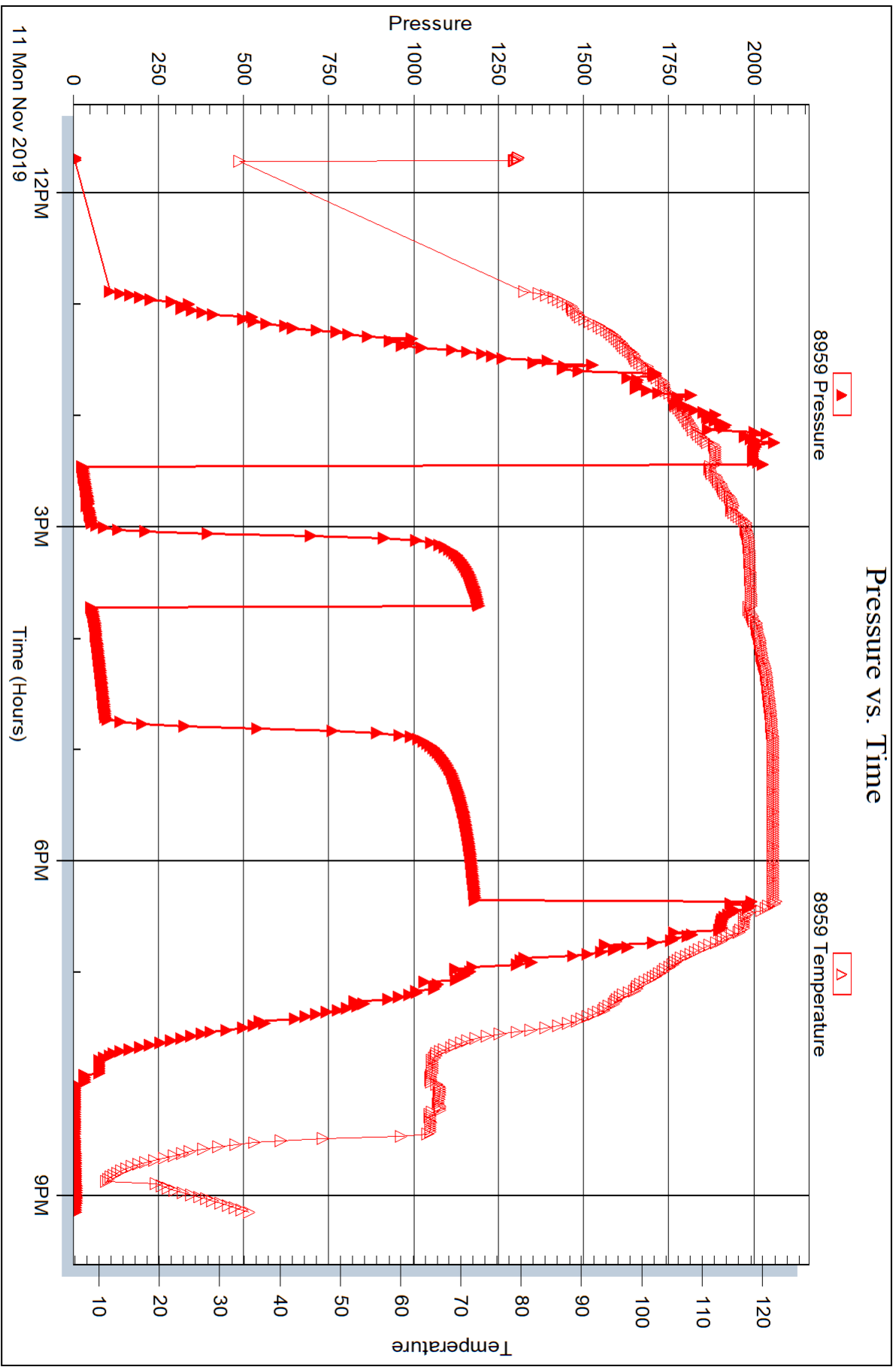
Serial #: 8959

Inside

US Oil Resources LLC

Beougher#12A-36-1329

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65571

Printed: 2019.11.14 @ 09:44:53



DRILL STEM TEST REPORT

Prepared For: **US Oil Resources LLC**

6727 W. Prentice Ave
Lakewood, CO 80123

ATTN: Jim Musgrove

Beougher#12A-36-1329

36-13S-29W Gove,KS

Start Date: 2019.11.13 @ 10:13:00

End Date: 2019.11.13 @ 19:15:10

Job Ticket #: 65572 DST #: 2

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

Printed: 2019.11.14 @ 09:43:26



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

US Oil Resources LLC
 6727 W. Prentice Ave
 Lakewood, CO 80123
 ATTN: Jim Musgrove

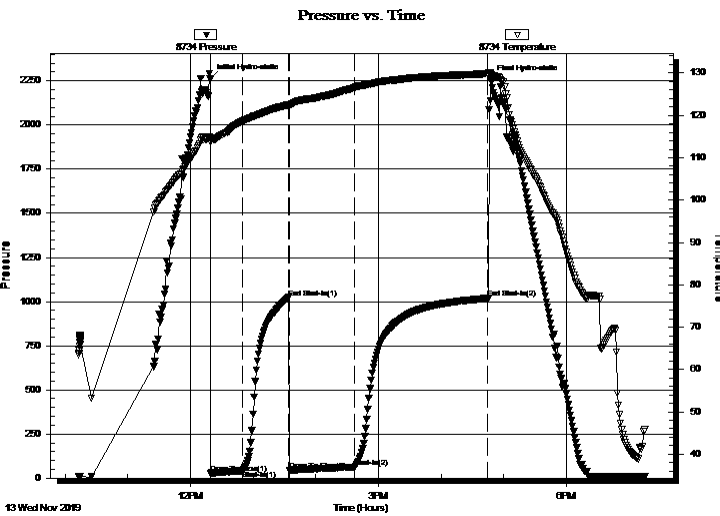
36-13S-29W Gove, KS
Beougher#12A-36-1329
 Job Ticket: 65572 **DST#: 2**
 Test Start: 2019.11.13 @ 10:13:00

GENERAL INFORMATION:

Formation: **Spergen**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:19:00
 Time Test Ended: 19:15:10
 Interval: **4466.00 ft (KB) To 4518.00 ft (KB) (TVD)**
 Total Depth: 4518.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 82
 Reference Elevations: 2779.00 ft (KB)
 2770.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 8734 Outside
 Press@RunDepth: 61.33 psig @ 4467.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.11.13 End Date: 2019.11.13 Last Calib.: 2019.11.13
 Start Time: 10:13:01 End Time: 19:15:10 Time On Btm: 2019.11.13 @ 12:18:50
 Time Off Btm: 2019.11.13 @ 16:47:30

TEST COMMENT: 30-IF-Surface blow built to 3 3/4"
 45-ISI-No blow back
 60-FF-Surface blow built to 8"
 125-FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.27	114.75	Initial Hydro-static
1	27.37	113.65	Open To Flow (1)
32	42.68	118.65	Shut-In(1)
76	1022.73	122.50	End Shut-In(1)
76	43.46	122.28	Open To Flow (2)
139	61.33	126.56	Shut-In(2)
266	1018.46	129.81	End Shut-In(2)
269	2258.79	129.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	GOCM 12%G, 18%O, 70%M	1.19
5.00	CO 100%O	0.07
0.00	90' GIP	0.00

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

US Oil Resources LLC

36-13S-29W Gove,KS

6727 W. Prentice Ave
Lakewood, CO 80123

Beougher#12A-36-1329

Job Ticket: 65572

DST#: 2

ATTN: Jim Musgrove

Test Start: 2019.11.13 @ 10:13:00

Tool Information

Drill Pipe:	Length: 4469.00 ft	Diameter: 3.80 inches	Volume: 62.69 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.75 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 62.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	32.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4466.00 ft			Final 59000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	52.00 ft			
Tool Length:	81.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			4442.00	
Hydraulic tool	5.00	1113		4447.00	
Jars	5.00	01-07		4452.00	
EM Tool	4.00			4456.00	
Packer	5.00			4461.00	29.00 Bottom Of Top Packer
Packer	5.00			4466.00	
Stubb	1.00			4467.00	
Recorder	0.00	8959	Inside	4467.00	
Recorder	0.00	8734	Outside	4467.00	
Perforations	15.00			4482.00	
Change Over Sub	1.00			4483.00	
Drill Pipe	31.00			4514.00	
Change Over Sub	1.00			4515.00	
Bullnose	3.00			4518.00	52.00 Bottom Packers & Anchor

Total Tool Length: 81.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

US Oil Resources LLC

36-13S-29W Gove,KS

6727 W. Prentice Ave
Lakewood, CO 80123

Beougher#12A-36-1329

Job Ticket: 65572

DST#: 2

ATTN: Jim Musgrove

Test Start: 2019.11.13 @ 10:13:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

37 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 66.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 3000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
85.00	GOCM 12%G, 18%O, 70%M	1.192
5.00	CO 100%O	0.070
0.00	90' GIP	0.000

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0

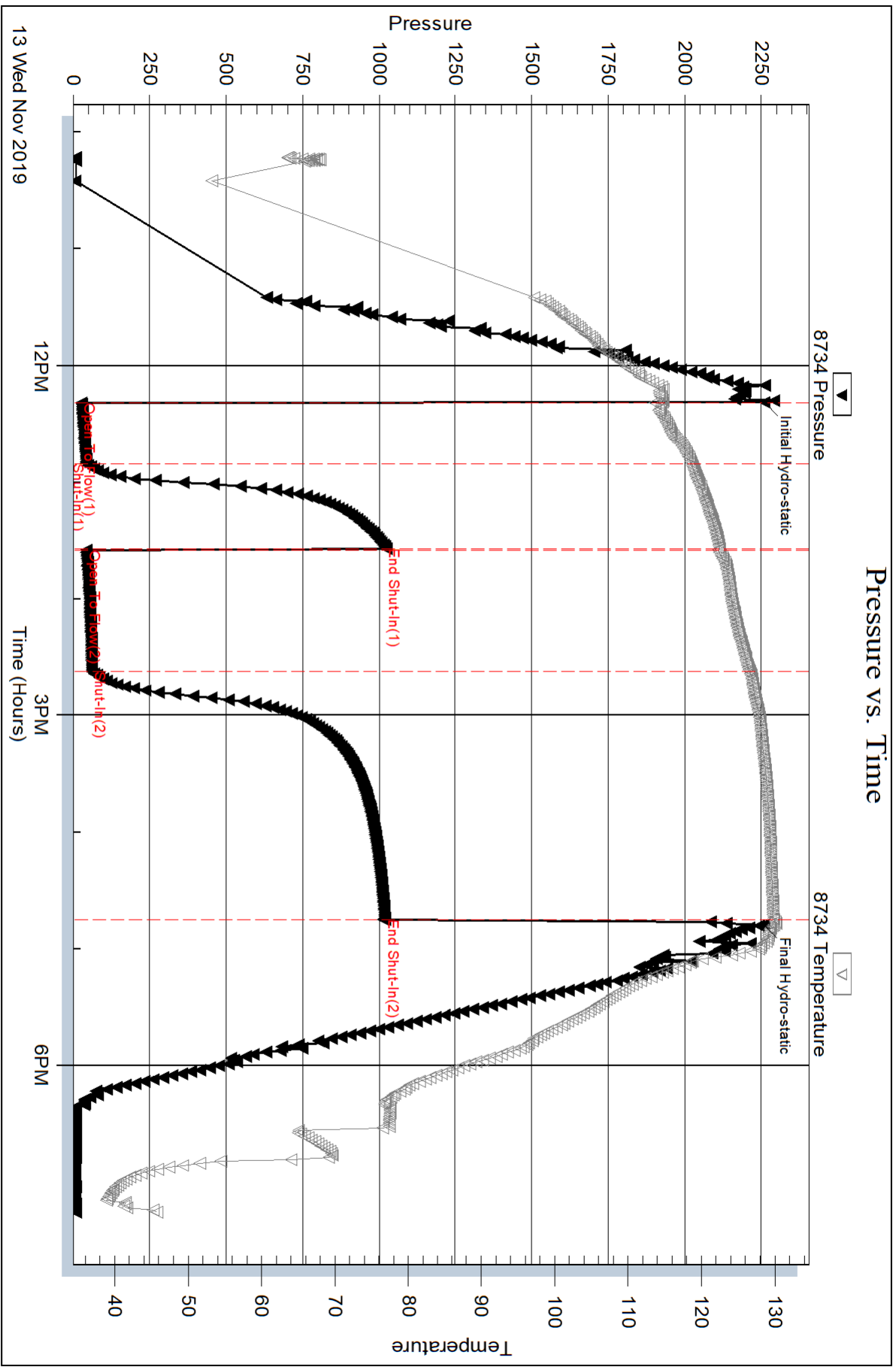
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity of oil 35.6 @ 46 degs corrected to 37.0 @ 60 degs



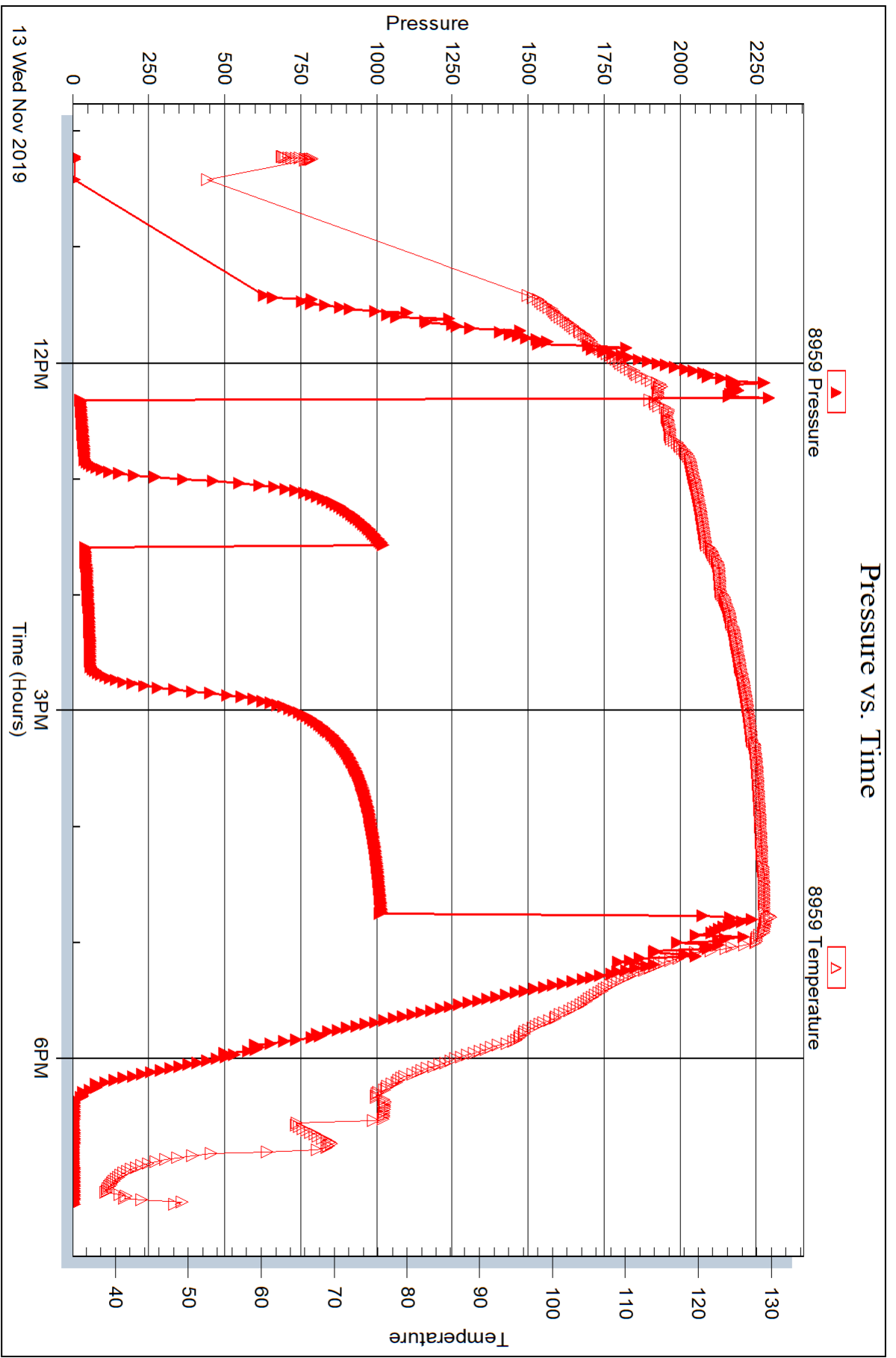
Serial #: 8959

Inside

US Oil Resources LLC

Beougher#12A-36-1329

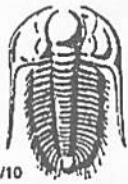
DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 65572

Printed: 2019.11.14 @ 09:43:27



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **65571**

Well Name & No. Brougher #12A-36-1329 Test No. 1 Date 11-11-19
 Company US Oil Resources, LLC Elevation 2779 KB 2770 GL
 Address 6727 W. Prentice AVE Lakewood, CO 80123
 Co. Rep / Geo. Jim Musgrave Rig Duke #4
 Location: Sec. 36 Twp 13S. Rge. 29W. Co. Gove State KS

Interval Tested 4106 - 4182 Zone Tested KC - "I+J"
 Anchor Length 66' Drill Pipe Run 4097 Mud Wt. 9.2
 Top Packer Depth 4111 Drill Collars Run — Vis 53
 Bottom Packer Depth 4116 Wt. Pipe Run — WL 6.4
 Total Depth 4182 Chlorides 2400 ppm System LCM 1#
 Blow Description IF - S. blow built to 8' 1/4"
ISI - No blowback
FF - S. blow built to B.O.B (11 inches) @ 42 mins (blow increased to 15' 1/2")
FSE - S. blowback built to 1 1/4"

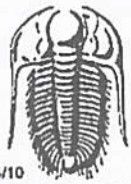
Rec	Feet of	%gas	%oil	%water	%mud
<u>60</u>	<u>G50NM</u>	<u>15</u>	<u>5</u>	<u>20</u>	<u>60</u>
<u>99</u>	<u>G20CM</u>	<u>8</u>	<u>24</u>	<u>68</u>	<u>68</u>
<u>1</u>	<u>C0</u>	<u>100</u>	<u>100</u>	<u>100</u>	<u>100</u>
<u>0</u>	<u>130' GIP</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>

Rec Total 160 BHT 123 Gravity 37.2 API RW 290 @ 52.5 °F Chlorides 34,000 ppm

(A) Initial Hydrostatic 2031 Test 1300 T-On Location 07:15.
 (B) First Initial Flow 29 Jars 250 T-Started 11:41
 (C) First Final Flow 58 Safety Joint — T-Open 14:28
 (D) Initial Shut-In 1196 Circ Sub — T-Pulled 18:13
 (E) Second Initial Flow 54 Hourly Standby — T-Out 21:10
 (F) Second Final Flow 98 Mileage 101RT 101 Comments Pulled 23K over
 (G) Final Shut-In 1184 Sampler — STWT coming off bottom
 (H) Final Hydrostatic 2023 Straddle — EM Tool 350 First Use
 Ruined Shale Packer —
 Ruined Packer —
 Extra Packer —
 Extra Recorder —
 Day Standby —
 Accessibility —
 Sub Total 1651 Sub Total 0 Total 1651 MP/DST Disc't —

Initial Open 30
 Initial Shut-In 45
 Final Flow 60
 Final Shut-In 90

Approved By [Signature] Our Representative [Signature]
 Trilobite Testing Inc. shall not be liable for damaged or destroyed 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. **65572**

Well Name & No. Beaugher #12A-36-1329 Test No. 2 Date 11-13-19
 Company US Oil Resources LLC Elevation 2779 KB 2770 GL
 Address 6727 W. Prentice Ave Lakewood, CO 80123
 Co. Rep / Geo. Jim Misgrave Rig Duke #4
 Location: Sec. 36 Twp 13S. Rge. 29W. Co. Gove State K5

Interval Tested 4466-4518 Zone Tested Spurgan
 Anchor Length 52' Drill Pipe Run 4469 Mud Wt. 8.8
 Top Packer Depth 4461 Drill Collars Run --- Vis 66.
 Bottom Packer Depth 4466 Wt. Pipe Run --- WL 7.2
 Total Depth 4518 Chlorides 3000 ppm System LCM 3#
 Blow Description IF - S. blow built to 3 3/4"
IST - No blowback
FF - S. blow built to 8"
FST - No blowback

Rec	Feet of	%gas	%oil	%water	%mud
<u>85</u>	<u>GUCM</u>	<u>12</u>	<u>18</u>	<u>70</u>	
<u>5</u>	<u>CO</u>	<u>100</u>			
<u>0</u>	<u>90' GIP</u>				

Rec Total 90 BHT 130 Gravity 37.0 API RW --- @ --- °F Chlorides --- ppm

(A) Initial Hydrostatic 2260 Test 1300 T-On Location 09:30
 (B) First Initial Flow 27 Jars 250 T-Started 10:13
 (C) First Final Flow 43 Safety Joint _____ T-Open 12:19
 (D) Initial Shut-In 1023 Circ Sub _____ T-Pulled 16:40
 (E) Second Initial Flow 43 Hourly Standby _____ T-Out 19:15
 (F) Second Final Flow 61 Mileage 101RTX2 101+101 Comments Tools loaded @ 04:15
 (G) Final Shut-In 1018 Sampler _____
 (H) Final Hydrostatic 2259 Straddle _____ EM Tool 350
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 350
 Accessibility _____ Total 2102
 Sub Total 1752 MP/DST Disc't _____

Approved By [Signature] Our Representative Martine Schmitt
 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.



NOTES

Company: US Oil Resources, LLC.

Lease: Beougher 12A-36-1329

Field: Hoffsmityh East

Location: SW-NE-NW-SW (2080' FSL & 810' FWL)

Sec:36 Twsp:13S Rge:29W

County: Gove State:Kansas

KB:2779' GL:2770'

Contractor: Duke Drilling Inc. (Rig #4)

Spud:11/05/2019 Comp:11/14/2019

RTD: 4675' LTD: 4674'

Mud Up: 3500' Type_Mud: Chemical

Samples Saved From: 3600' to RTD

Drilling Time Kept From: 3600' to RTD

Samples Examined From: 3600' to RTD

Geological Supervision from: 3600' to RTD

Geologist on Well: Jim Musgrove

Surface Casing: 8 5/8@ 263'

Production Casing: 5 1/2" @4673'

Electronic Surveys: Logged by Halliburton

FORMATION	DRILLING				US OIL				US OIL				DUGLOP & CONNELL			
	BEOUGHER 12-A-36-1329				BEOUGHER 12A-36-1329				BEOUGHER 12A-36-1329				HOCKESSMITH # 1			
	36-13S-29W (SW-NE-NW-SW)				36-13S-29W (1105' FSL & 950' FEL)				36-13S-29W (1825' FSL & 2167' FEL)				36-13S-29W (SW-SW-SW (660' FSL & 4620' FEL)			
	KB	GL	KB	GL	KB	GL	KB	GL	KB	GL	KB	GL	KB	GL		
DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH	DEPTH			
ANHYDRITE TOP	2231	2241	2244	2244	2244	2244	2244	2244	2244	2244	2244	2244	2244			
ANHYDRITE BASE	2269	2268	2277	2277	2277	2277	2277	2277	2277	2277	2277	2277	2277			
HEEBNER SHALE	3873	-1094	3873	-1094	3881	-1094	3881	-1094	3870	-1092	3870	-1092	3894			
TORONTO	3890	-1111	3891	-1112	3896	-1109	3896	-1109	3870	-1109	3870	-1109	3913			
LANSING	3906	-1127	3907	-1128	3914	-1127	3914	-1127	3889	-1128	3889	-1128	3931			
MUNDOE	4054	-1275	4055	-1276	4071	-1284	4071	-1284	4024	-1262	4024	-1262	4024			
STARK	4148	-1369	4147	-1368	4157	-1370	4157	-1370	4122	-1372	4122	-1372	4122			
HUSH, SH	4180	-1401	4182	-1403	4190	-1403	4190	-1403	4166	-1405	4166	-1405	4166			
BKC	4210	-1431	4215	-1440	4231	-1444	4231	-1444	4206	-1445	4206	-1445	4206			
WARM	4249	-1470	4249	-1470	4257	-1470	4257	-1470	4210	-1479	4210	-1479	4210			

Formation: **Spergen**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:19:00
 Time Test Ended: 19:15:10

Test Type: Conventional Bottom Hole (Reset)
 Tester: Martine Salinas
 Unit No: 82

Interval: **4466.00 ft (KB) To 4518.00 ft (KB) (TVD)**
 Total Depth: 4518.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Good

Reference Elevations: 2779.00 ft (KB)
 2770.00 ft (CF)
 KB to GR/CF: 9.00 ft

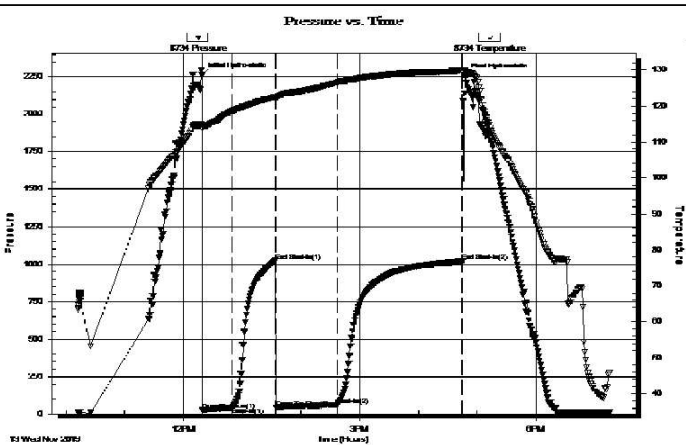
Serial #: 8734

Outside

Press@RunDepth: 61.33 psig @ 4467.00 ft (KB)
 Start Date: 2019.11.13 End Date: 2019.11.13
 Start Time: 10:13:01 End Time: 19:15:10

Capacity: 8000.00 psig
 Last Calib.: 2019.11.13
 Time On Btm: 2019.11.13 @ 12:18:50
 Time Off Btm: 2019.11.13 @ 16:47:30

TEST COMMENT: 30-IF-Surface blow built to 3 3/4"
 45-ISI-No blow back
 60-FF-Surface blow built to 8"
 125-FSI-No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2260.27	114.75	Initial Hydro-static
1	27.37	113.65	Open To Flow (1)
32	42.68	118.65	Shut-In(1)
76	1022.73	122.50	End Shut-In(1)
76	43.46	122.28	Open To Flow (2)
139	61.33	126.56	Shut-In(2)
266	1018.46	129.81	End Shut-In(2)
269	2258.79	129.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
85.00	GOCM 12%G, 18%O, 70%M	1.19
5.00	CO 100%O	0.07
0.00	90' GIP	0.00

* Recovery from multiple tests

Gas Rates

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

ROCK TYPES

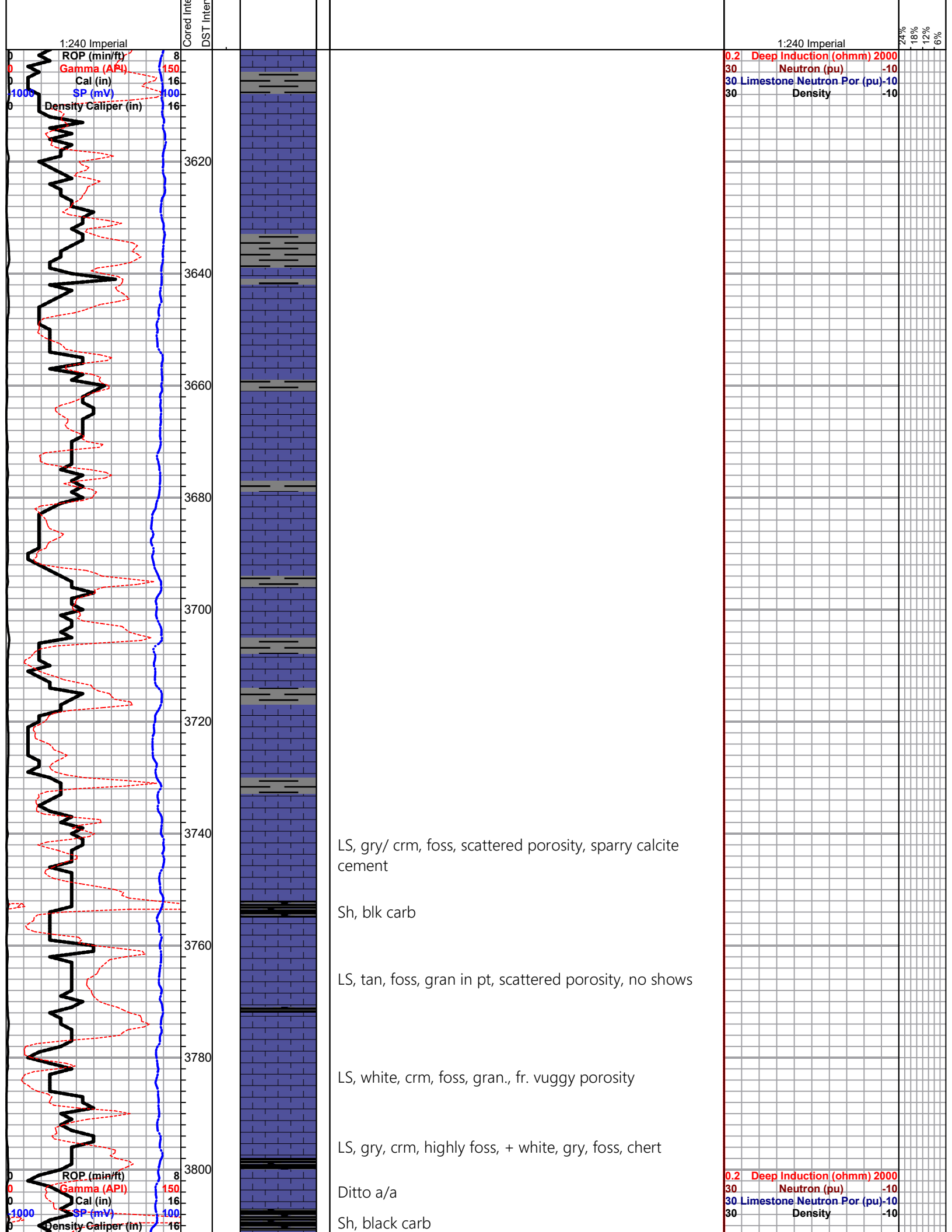
Cht	Chtcongl	Lmst fw<7	Carbon Sh
Cht vari	Dolprim	shale, gry	shale, red

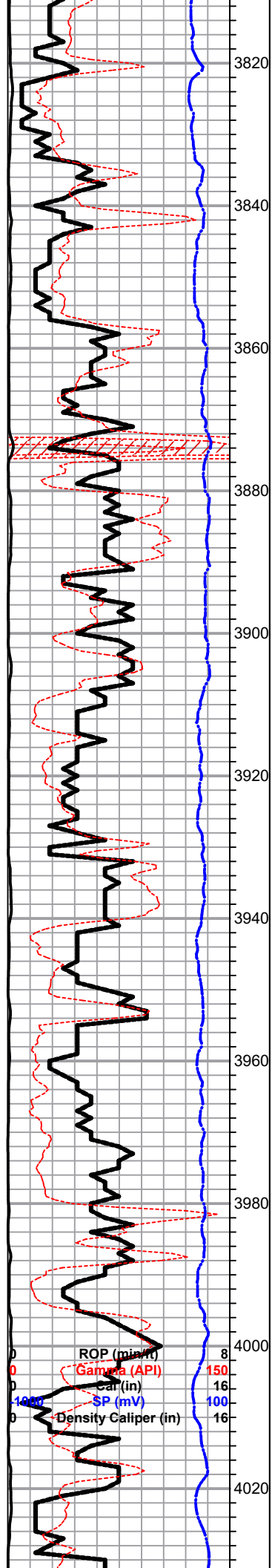
OTHER SYMBOLS

Oil Show	DST
● Good Show	■ DST Int
● Fair Show	■ DST alt
● Poor Show	■ Core
○ Spotted or Trace	tail pipe
○ Questionable Stn	
D Dead Oil Stn	
■ Fluorescence	
* Gas	

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #1	Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	TG, C1 - C5	Porosity
ROP (min/ft)						Deep Induction (ohmm)	
Gamma (API)						Neutron (pu)	
Cal (in)						Limestone Neutron Por (pu)	
SP (mV)						Density	
Density Caliper (in)							





LS, white, grym, ool, goss, good fine vuggy type porosity, + tr. gry white chert

Sh, dk gry, blk

LS, gry, tan, foss, mottled chalky, fair porosity, no shows

Sh, black carb

HEEBNER 3873.0 (-1094.0)

Sh, black carb

Sh, gry/ gryish green

TORONTO 3890.0 (-1111.0)

LS, white, crm, gry, fxl, slightly chalky, + tan/ gry opaque chert

LANSING 3906.0 (-1127.0)

LS, white, crm, f- med xln, foss in pt, chalky , no shows

LS, white, gry, crm, fxl, chalky, few cherty poor vis. porosity, no shows, (few ool LS,)
Sh, maroon, soft sh

LS, tan, gry, highly ool, slightly cherty (dense)

Sh, gry, silty soft

LS, gry, highly ool, oom, fair--->good oom por., + white chalk, no shows no odor

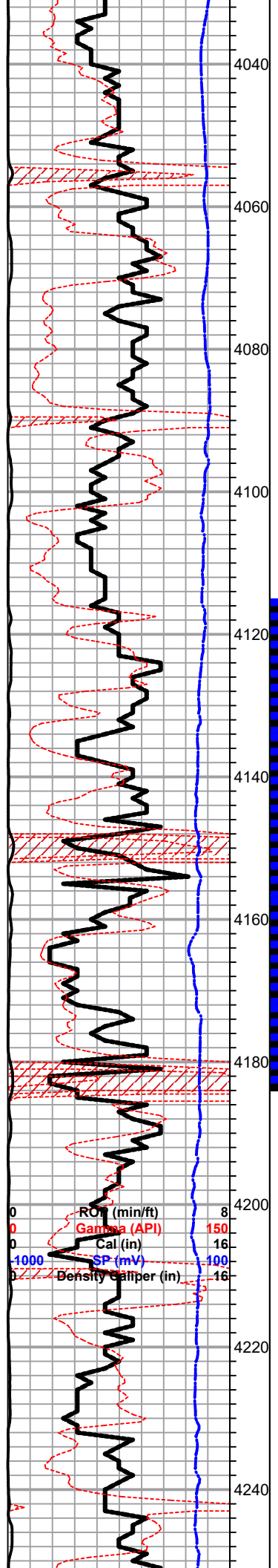
Sh, gry, silty , soft

LS, gry, white, fxl, chalky, poor vis. por., gry/ blk stain, tr. sfo, no odor

LS, tan, fxl, suc. few dol., +gry, white chert

LS, white, gry, fxl, ool, finely oom, fair porosity, + tr. white, chert

0.2	Deep Induction (ohmm) 2000
30	Neutron (pu) -10
30	Limestone Neutron Por (pu)-10
30	Density



LS, tan, slightly cherty (dense)

MUNCIE CREEK 4054.0 (-1275.0)

Sh, black carb

LS, tan, fxl, cherty (dense)

LS, tan, foss, chalky, poorly developed por., brn stain tr. fo , no odor

Sh, black carb

Sh, gry, silty soft

LS, tan, gry, fxl, chalky, scattered, p.p. porosity, brn stain , tr. fo , no odor

LS, white/ crm , ool, scattered porosity, brn / lt. brn stain , sfo, faint odor

STARK SHALE 4147.0 (-1368.0)

Sh, black carb

LS, white, tan, gry, fxl, ool, slightly chalky, fair inxln / vuggy type porosity, brn stain , sfo, fair odor

HUSH. SH. 4180.0 (-1275.0)

Sh, black carb

LS, white, cream, foss, med xln, chalky, + white chalk n/sfo

BKC 4219.0 (-1440.0)

Tr. blk carb sh , LS, tan, brn chalky,

Sh, gry white / clay, soft , Tr. Sd. gry, silty, cal. LS, tan, foss, dense, tr. brn stain nsfo, no odor

Sh, black carb

MARMATON 4249.0 (-1401.0)

DST #1 4116-4182
30-45-60-90

1ST OPEN:
GOOD 8.5" BLOW

2ND OPEN:
BOB 42 MINS.

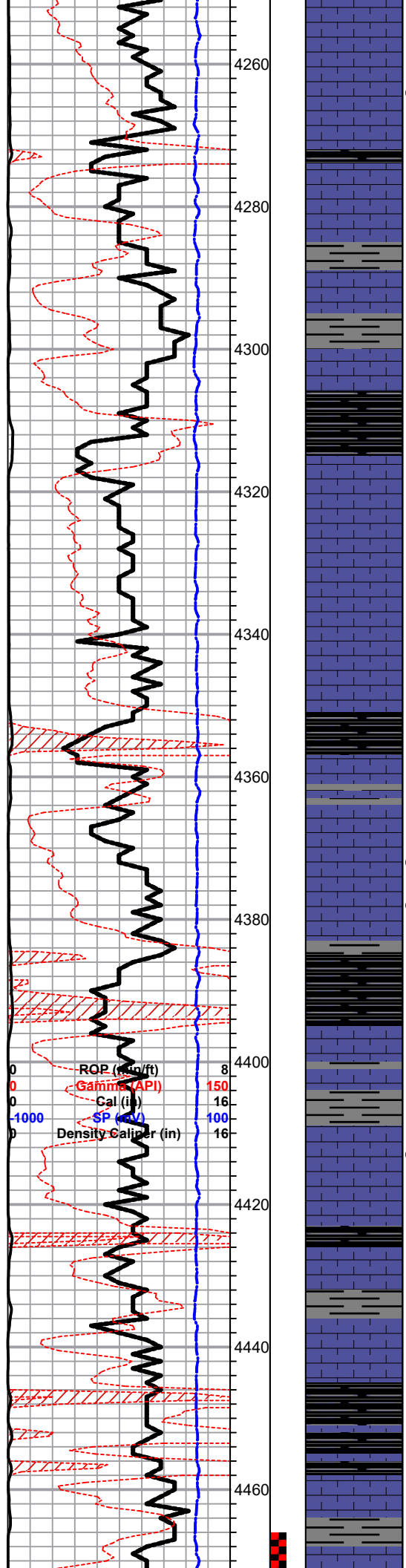
RECOVERY:
130' GIP

1' CLEAN OIL
99' O&GCM
(8%G, 24%O, 68%M)

60' SL. O&GCWM
(15%G, 5%O, 20%W
60%M)

PRESSURES:
ISIP 1196 psi
FSIP 1184 psi
IFP 29-58 psi
FFP 54-98 psi
SHS 2031-2023 psi

0
0
0
0



MARMATON 4249.0 (-1401.0)

LS, white, maroon tinted, chalky, dense
 ○ LS, tan, white, ool, chalky---> cherty, poor vis. porosity, tr. poor stain , nsfo, no odor
 Sh, black carb

LS, white, gry, chalky, oolitic in part, poor vis. porosity, nsfo

Sh, black carb sh, Tr. maroon, gray soft sh.

PAWNEE 4317.0 (-1538.0)

LS, white, tan, gry, fxl, gran. a/a

LS, tan, gry, dense, poor vis. porosity, no shows

US OIL -MYRICK ST. 4353.0 (-1574.0)

Slug blk carb sh.

○ LS, tan, ool, slightly chalky, brn / golden brn stain , tr. fo
 ??? odor .
 ● + white/gry chert

Slug black carb sh.

FORT SCOTT 4396.0 (-1617.0)

LS, cream, white, tan, ool, foss dense

○ LS, white, tan, foss, ool, poor vis., porosity, brn ,spty stain , nsfo, no odor

CHEROKEE SH. 4426.0 (-1647.0)

Sh, black carb

Sh, black carb

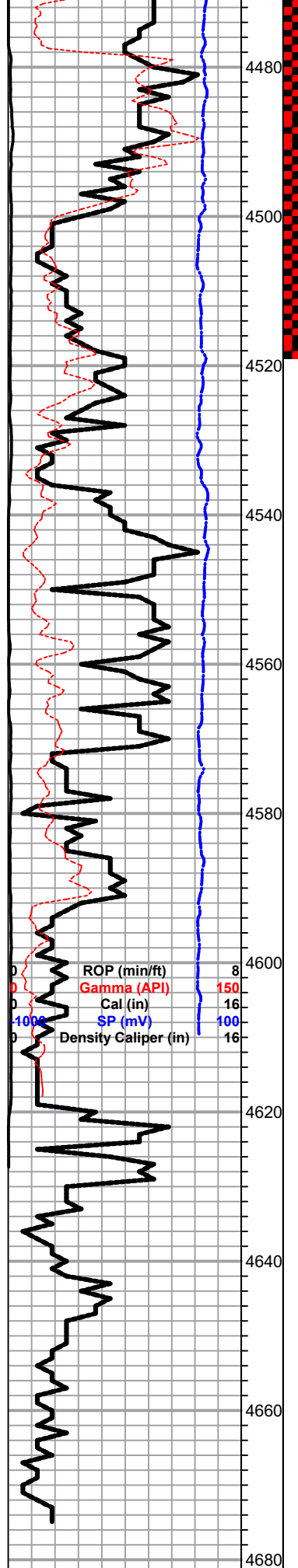
LS, tan, white, slightly ool, chalky, poor vis. porosity

LS, white, chalky, poorly dev. por. , nsfo, no odor

0.2	Deep Induction (ohmm)	2000
30	Neutron (pu)	-10
30	Limestone Neutron Por (pu)	-10
30	Density	-10

DST#2 4466-4518
30-45-60-125

1st Open:
 Weak (3.75")



CONGLOMERATE 4480.0 (-1701.0)

Chert, yellow, orange , white, boney opaque . yellow, green Tr. vfg sd. poor porosity + chert & sd.

MISS. SPERGEN 4498.0 (-1719.0)

Dol. tan, suc. foss, fair - good, vuggy type porosity, fair / good brn stain / sat., sfo faint odor

Dol, a/a, +gry, fxl, suc. dolomitic, fair, p.p. por., brn / blk stain , sfo, ??? odor

Dol, tan, gry, fxl, suc. poor vis. porosity, nsfo,

Dol, tan, gry, fxl, suc. few scattered vuggy porosity, tr. gry/ brn stain , nsfo , no odor

MISS. WARSAW 4540.0 (-1761.0)

LS, gry, white, f- med xln , foss, chalky, poor porosity, tr. gry chert

LS, gry, white, f- med xln, foss, chalky, poor porosity, + white boney chert, tr. rounded sub rounded sd. / qtz grains

a/a,

MISS. OSAGE 4568.0 (-1789.0)

LS, gry tan, foss, dolomitic in part , no shows

Dol., white, suc. poor porosity, few glauc. + white, boney chert & clear/ trans chert

LS, tan, gry, highly ool, poor vis., porosity

GILMORE CITY 4620.0 (-1841.0)

(Lower Osage Lime??)

LS, tan, gry, highly ool, poor vis. porosity, no shows

Dol, gry, white, suc. + white tran, chert

Slug gry, white, boney opaque chert

LTD 4674.0 (-1895.0)

RTD 4675.0 (-1896.0)

2nd Open:

Fair (8")

Recovery:

5' Clean oil

80' OGCM

(12%G, 18%O, 70% M)

Pressures:

ISIP 1023 psi

FSIP 1018 psi

IIP 27-43 psi

FFP 43-61 psi

HSH 2260-2257psi

0.2	Deep Induction (ohmm)	2000
30	Neutron (pu)	-10
30	Limestone Neutron Por (pu)	-10
30	Density	-10

