



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

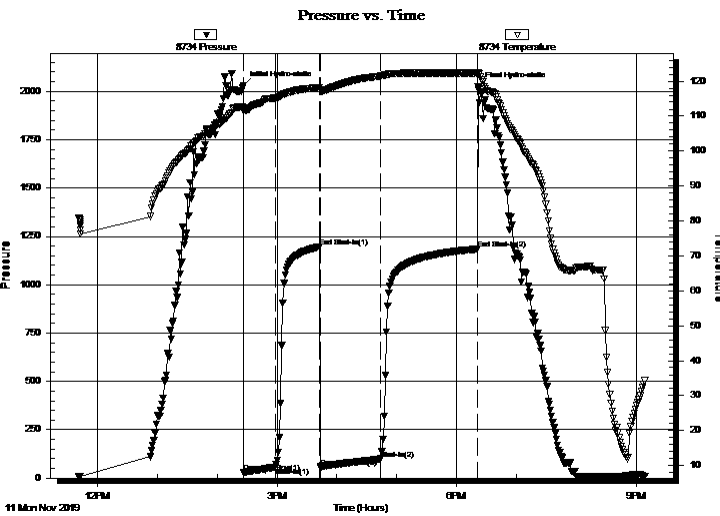
36-13S-29W Gove, KS
Beougher#12A-36-1329
 Job Ticket: 65571 **DST#: 1**
 Test Start: 2019.11.11 @ 11:41:00

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



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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

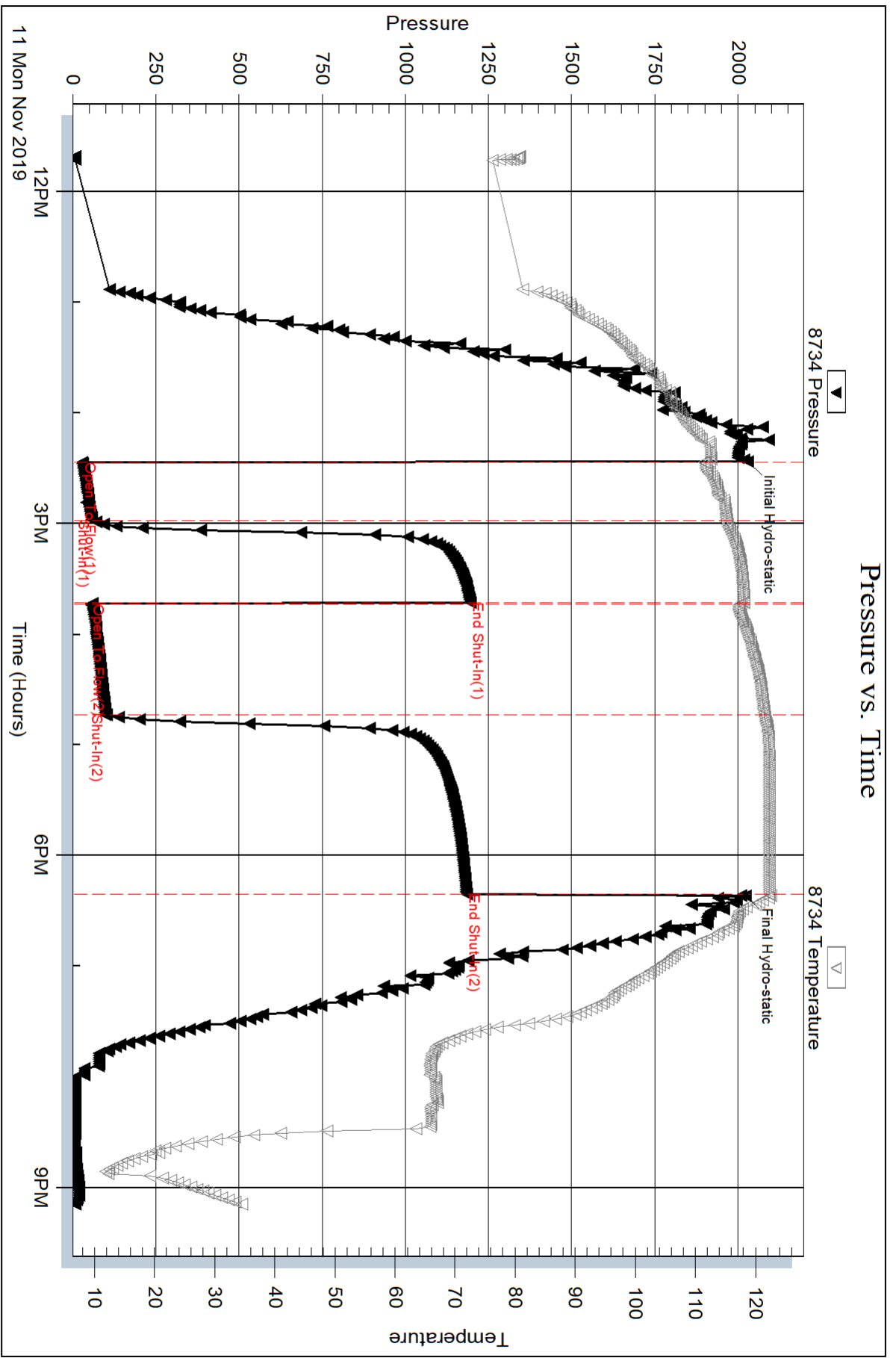
Num Gas Bombs: 0

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



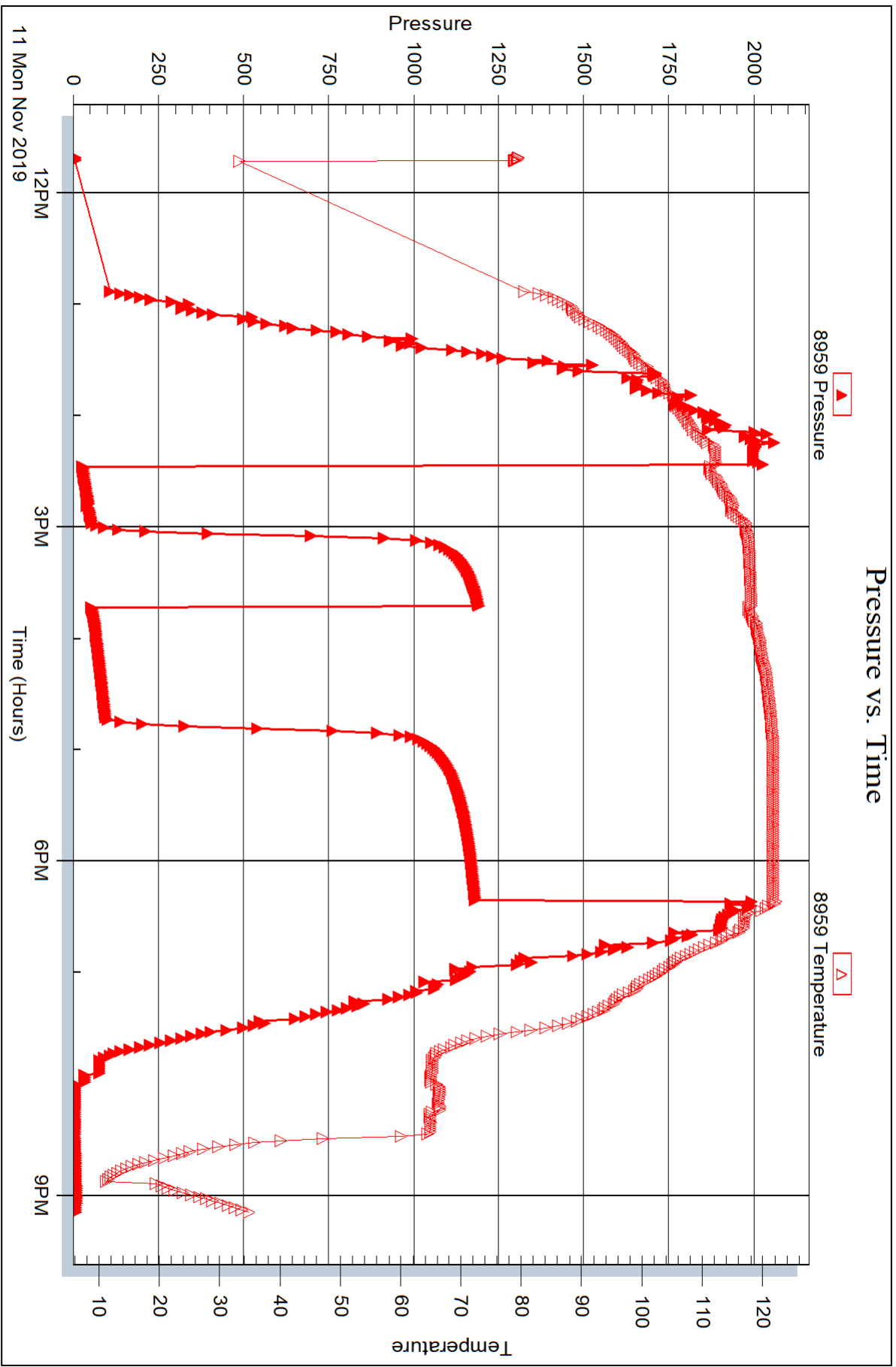
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Inside

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

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TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

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

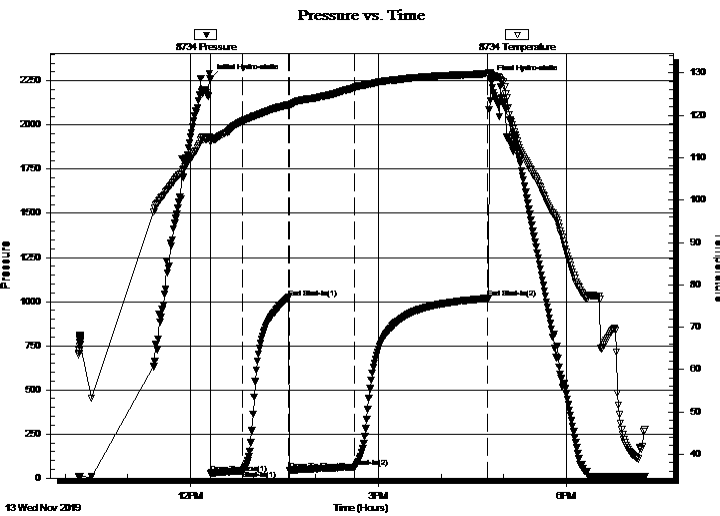
36-13S-29W Gove, KS
Beougher#12A-36-1329
 Job Ticket: 65572 **DST#: 2**
 Test Start: 2019.11.13 @ 10:13:00

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

Gas Rates

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

* Recovery from multiple tests



**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	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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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



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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

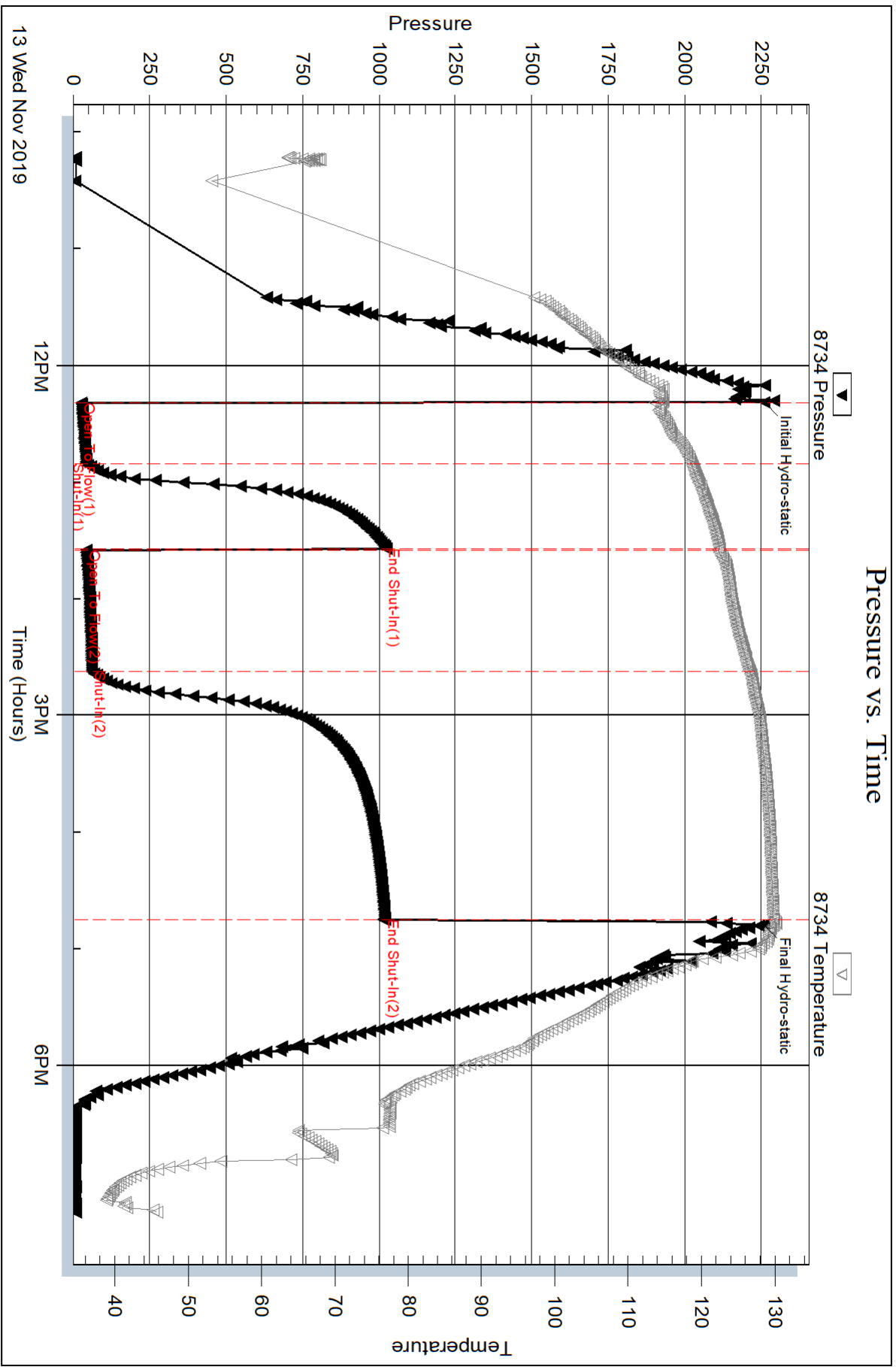
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

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



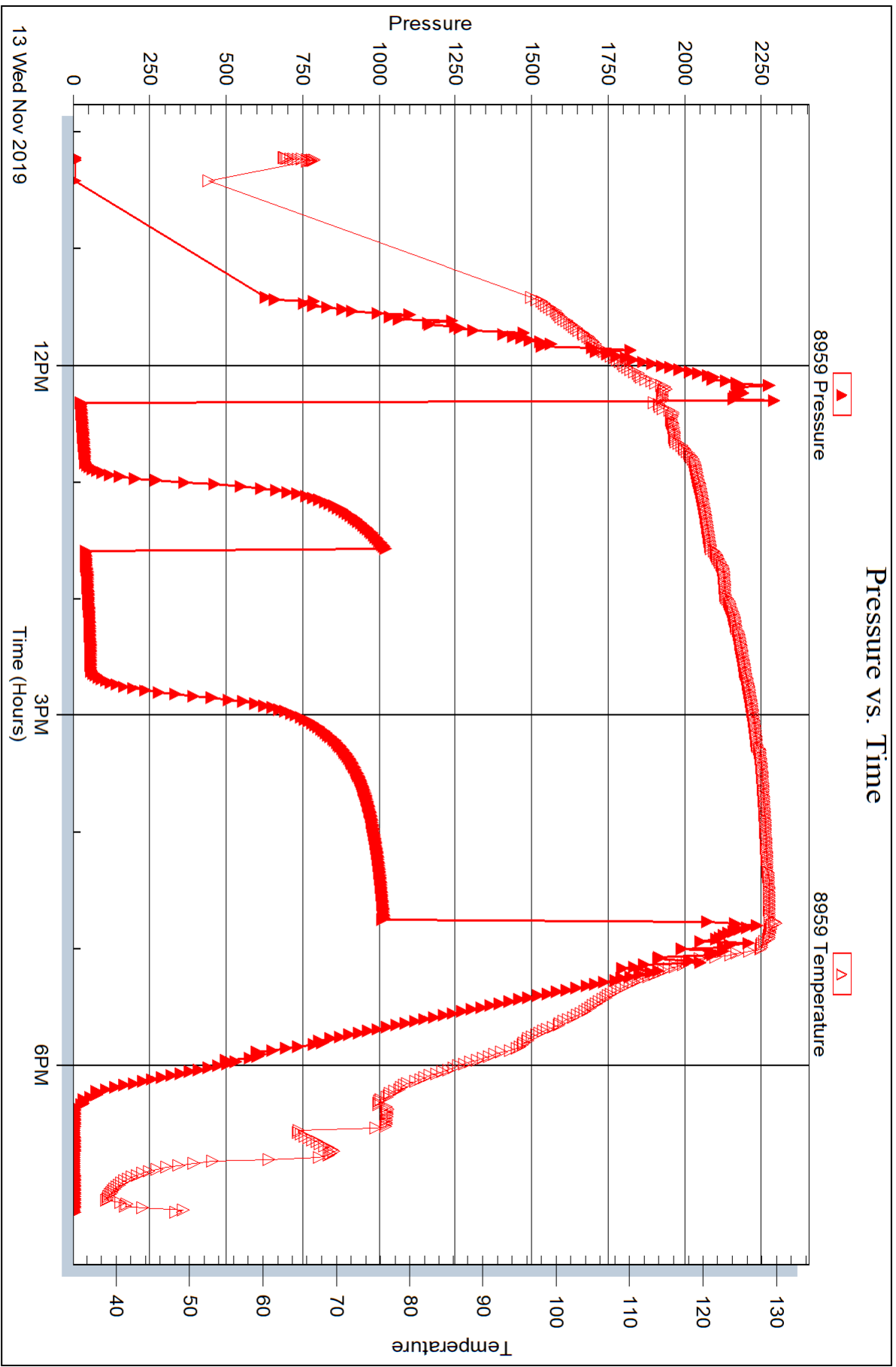
Serial #: 8959

Inside

US Oil Resources LLC

Beougher#12A-36-1329

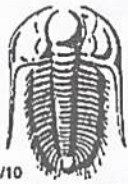
DST Test Number: 2



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>---</u>	<u>100</u>	<u>---</u>	<u>---</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. Brougher #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>Feet of GUCM</u>	<u>12</u>	<u>18</u>	<u>70</u>	
<u>5</u>	<u>Feet of CO</u>	<u>100</u>			
<u>0</u>	<u>Feet of 90' GIP</u>				
	<u>Feet of</u>				
	<u>Feet of</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
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