

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 \_\_\_\_\_ 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	POWERS 16B-2-1429
Doc ID	1391018

All Electric Logs Run

Array Induction
Density Neutron
Compensated Sonic
Microresistivity
Caliper





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

TICKET NUMBER 55000  
 LOCATION Oakley, KS  
 FOREMAN Jeffrey

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
1-25-18		Powers 16B-2-1429	2	145	290	Gove	
CUSTOMER		Gove 7		TRUCK #		DRIVER	
MAILING ADDRESS		5 1/4 W		TRUCK #		DRIVER	
CITY		Newin 6		TRUCK #		DRIVER	
STATE				TRUCK #		DRIVER	
ZIP CODE				TRUCK #		DRIVER	

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 8 5/8 29#  
 CASING DEPTH 264 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL 1.24 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 15 1/2 bbl DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting + rig up on Duke 4 circulate casing, mix 175 sks  
com 3% CC 2% gel dashcup + displace with 15 1/2 bbl fresh H<sub>2</sub>O + start in.  
circulated approx 4 bbl to pt

cement did  
circulate

Thank you  
Jeffrey

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0471	1	PUMP CHARGE	1150.00	1150.00
CE0002	30	MILEAGE	7.15	214.50
CE0711	8.23	ton mileage delivery	66.00	660.00
CE5871	175 sks	surface blend II	24.00	4200.00
CE5326	100%	sal	NC	NC
			subtotal	6224.50
			-38%	1867.35
			subtotal	4357.15
			SALES TAX	
			ESTIMATED TOTAL	

AUTHORIZATION Adam C. Bl TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



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

TICKET NUMBER 55038

LOCATION Oakley, KS

FOREMAN Miles Shaw

FIELD TICKET & TREATMENT REPORT  
CEMENT

AS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-1-18		Powers-16B-2-1429	2	14 S	29 W	Goose
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
U S Oil			753	Travis W		
MAILING ADDRESS			776/127	Paul W		
CITY			566			
STATE						
ZIP CODE						

JOB TYPE	PTA	HOLE SIZE	7 7/8"	HOLE DEPTH	4570'	CASING SIZE & WEIGHT	
CASING DEPTH		DRILL PIPE	4 1/2"	TUBING		OTHER	
SLURRY WEIGHT	13-8	SLURRY VOL	1.4	WATER gal/sk		CEMENT LEFT in CASING	
DISPLACEMENT		DISPLACEMENT PSI		MIX PSI		RATE	

REMARKS: Safety meeting and fix up on Duffie drilling Rig #4 Plug & packard  
 1" plug 50 sk @ 2175'  
 2" plug 10 sk @ 1175'  
 3" plug 50 sk @ 300'  
 4" plug 10 sk @ 41' with 6.00 Plugs  
 RA 30 sk  
 240 sk 60/40 48 gal 10# 16 sk

Thanks Miles + crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500. <sup>00</sup>	1500. <sup>00</sup>
CE0002	30	MILEAGE	7.15	214.50
CE0711	10.44 Ton	Ton Mileage delivery	60. <sup>00</sup>	626.40
CC5829	240 sk	Life-weight blend	16. <sup>00</sup>	3840. <sup>00</sup>
CC6075	60 #	Cellulose / floccul	3. <sup>00</sup>	180. <sup>00</sup>
CP8228	1	8 3/8 wooden Plug	165. <sup>00</sup>	165. <sup>00</sup>
CC5326	100 #	Salt	10/6	10/6
			Subtotal	6359.50
			less 308 discount	1967.85
			Subtotal	4591.65
			SALES TAX	
			ESTIMATED TOTAL	

Rowin 3737  
 AUTHORIZATION Adam Q. Bl... TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



## DRILL STEM TEST REPORT

Prepared For: **US Oil Resources, LLC**

6727 Prentice Ave  
Lakewood, CO 80123

ATTN: Adam Blum

**Powers #16B-2-1429**

**2-14s-29w Gove,KS**

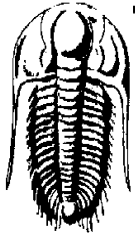
Start Date: 2018.01.30 @ 17:58:00

End Date: 2018.01.31 @ 00:33:30

Job Ticket #: 64395                      DST #: 1

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

Printed: 2018.02.06 @ 16:07:15



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

US Oil Resources, LLC

**2-14s-29w Gove, KS**

6727 Prentice Ave  
Lakewood, CO 80123

**Powers #16B-2-1429**

ATTN: Adam Blum

Job Ticket: 64395

**DST#: 1**

Test Start: 2018.01.30 @ 17:58:00

## GENERAL INFORMATION:

Formation: **LKC G - H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:28:45

Time Test Ended: 00:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 70

**Interval: 3993.00 ft (KB) To 4035.00 ft (KB) (TVD)**

Reference Elevations: 2701.00 ft (KB)

Total Depth: 4035.00 ft (KB) (TVD)

2692.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8522**

**Inside**

Press@RunDepth: 30.01 psig @ 3995.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.30

End Date:

2018.01.31

Last Calib.:

2018.01.31

Start Time:

17:58:05

End Time:

00:33:29

Time On Btm:

2018.01.30 @ 20:28:15

Time Off Btm:

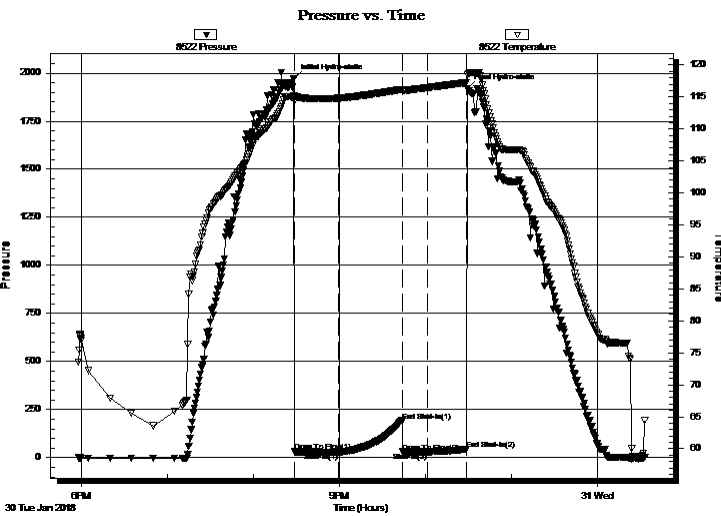
2018.01.30 @ 22:29:15

**TEST COMMENT:** IF: 1" blow . - slid 3', took on a small amount of mud.

IS: No return.

FF: No blow .

FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.08	115.25	Initial Hydro-static
1	31.17	114.89	Open To Flow (1)
32	29.78	114.82	Shut-In(1)
76	191.86	116.20	End Shut-In(1)
76	30.10	116.00	Open To Flow (2)
93	30.01	116.46	Shut-In(2)
121	44.21	117.25	End Shut-In(2)
121	1921.09	118.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100m (oil spots)	0.28

## Gas Rates

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





# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

US Oil Resources, LLC

6727 Prentice Ave  
Lakewood, CO 80123

ATTN: Adam Blum

2-14s-29w Gove, KS

Powers #16B-2-1429

Job Ticket: 64395 DST#: 1

Test Start: 2018.01.30 @ 17:58:00

### GENERAL INFORMATION:

Formation: **LKC G - H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:28:45

Time Test Ended: 00:33:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Bradley Walter

Unit No: 70

Interval: **3993.00 ft (KB) To 4035.00 ft (KB) (TVD)**

Reference Elevations: 2701.00 ft (KB)

Total Depth: 4035.00 ft (KB) (TVD)

2692.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: **8319** Outside

Press@RunDepth: psig @ 3995.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.01.30 End Date: 2018.01.31

Last Calib.: 2018.01.31

Start Time: 17:58:05 End Time: 00:33:29

Time On Btm:

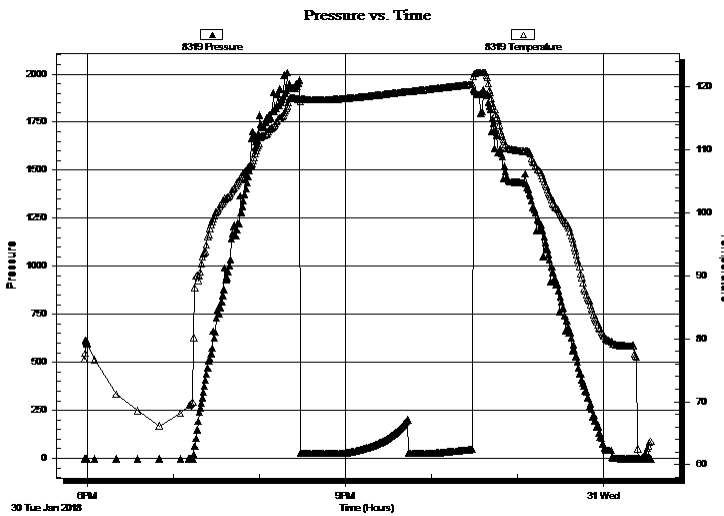
Time Off Btm:

TEST COMMENT: IF: 1" blow . - slid 3', took on a small amount of mud.

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)
20.00	Mud 100m (oil spots)	0.28

### Gas Rates

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



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

US Oil Resources, LLC

**2-14s-29w Gove,KS**

6727 Prentice Ave  
Lakewood, CO 80123

**Powers #16B-2-1429**

Job Ticket: 64395

**DST#: 1**

ATTN: Adam Blum

Test Start: 2018.01.30 @ 17:58:00

## Tool Information

Drill Pipe:	Length: 3992.00 ft	Diameter: 3.80 inches	Volume: 56.00 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose:	75000.00 lb
			<u>Total Volume: 56.00 bbl</u>	Tool Chased	3.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	56000.00 lb
Depth to Top Packer:	3993.00 ft			Final	56000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	42.00 ft				
Tool Length:	69.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			
Tool Comments:					

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3967.00	
Shut In Tool	5.00			3972.00	
Hydraulic tool	5.00			3977.00	
Jars	5.00			3982.00	
Safety Joint	2.00			3984.00	
Packer	5.00			3989.00	27.00 Bottom Of Top Packer
Packer	4.00			3993.00	
Stubb	1.00			3994.00	
Perforations	1.00			3995.00	
Recorder	0.00	8522	Inside	3995.00	
Recorder	0.00	8319	Outside	3995.00	
Perforations	5.00			4000.00	
drill Pipe	31.00			4031.00	
Change Over Sub	1.00			4032.00	
Bullnose	3.00			4035.00	42.00 Bottom Packers & Anchor

**Total Tool Length: 69.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

US Oil Resources, LLC

**2-14s-29w Gove,KS**

6727 Prentice Ave  
Lakewood, CO 80123

**Powers #16B-2-1429**

Job Ticket: 64395

**DST#: 1**

ATTN: Adam Blum

Test Start: 2018.01.30 @ 17:58:00

**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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.39 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud 100m (oil spots)	0.281

Total Length: 20.00 ft      Total Volume: 0.281 bbl

Num Fluid Samples: 0

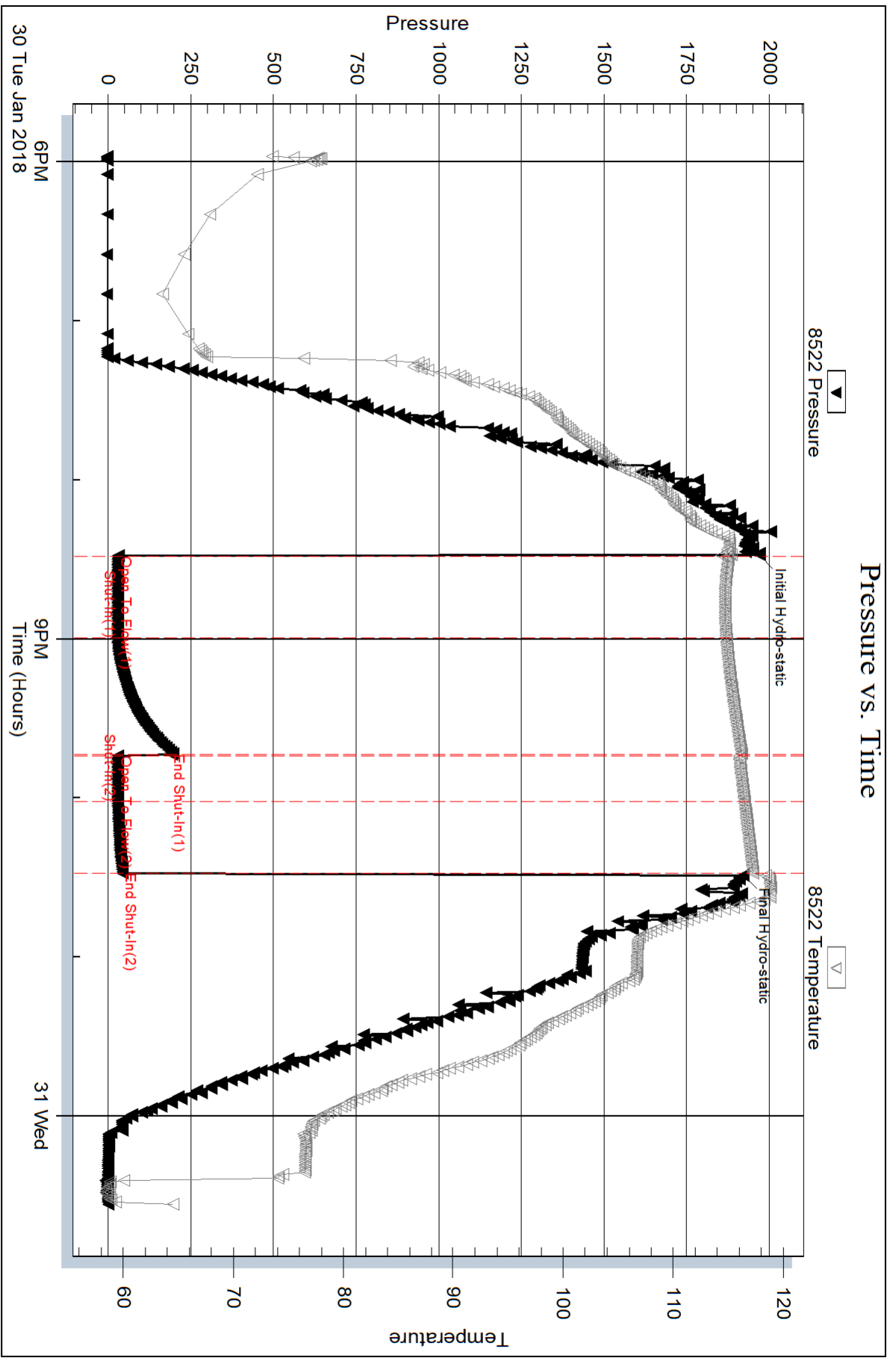
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

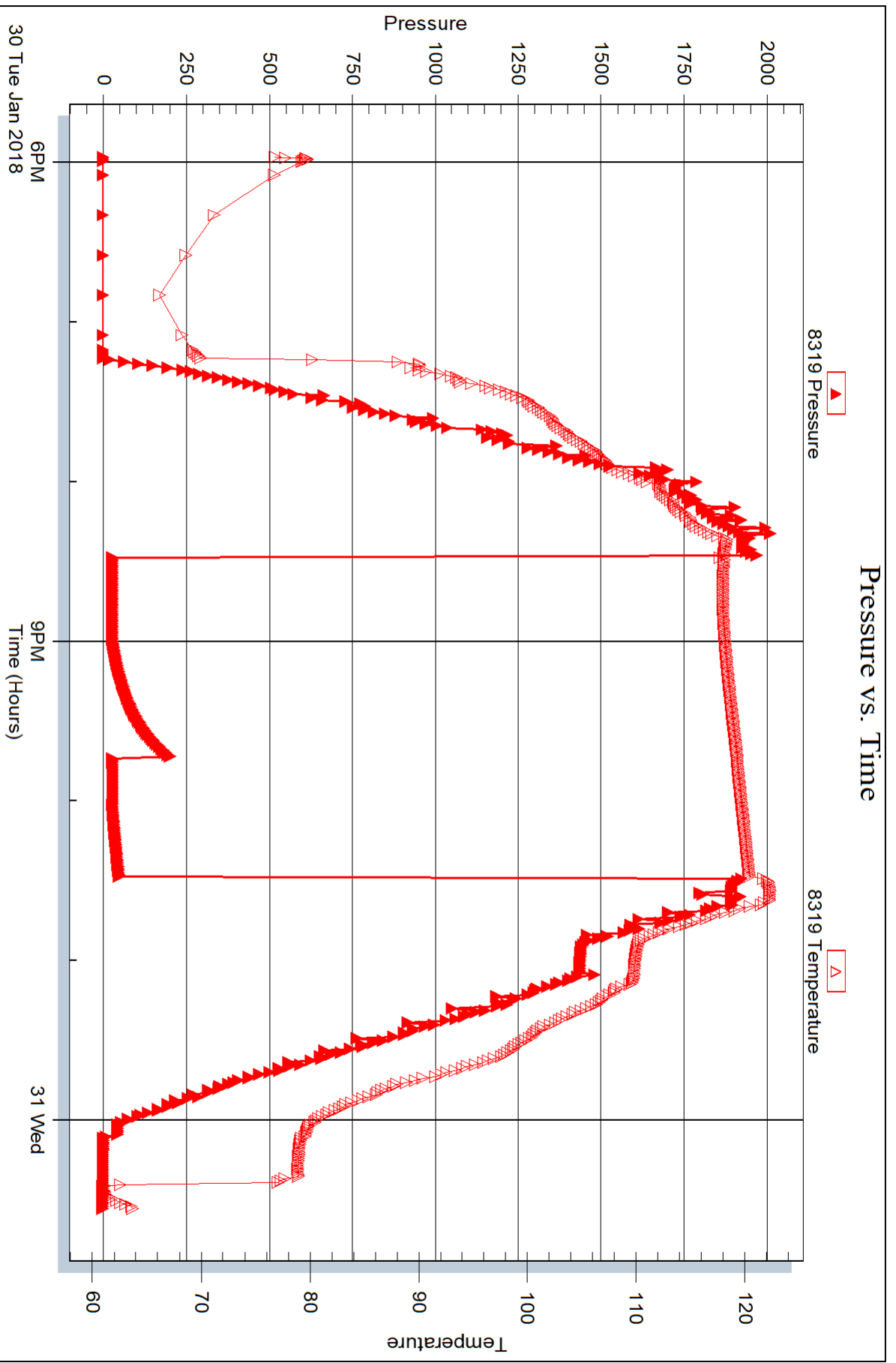


Serial #: 8319

Outside US Oil Resources, LLC

Power #16B-2-1429

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 64395

Printed: 2018.02.06 @ 16:07:17



## DRILL STEM TEST REPORT

Prepared For: **US Oil Resources, LLC**

6727 Prentice Ave  
Lakewood, CO 80123

ATTN: Adam Blum

**Powers #16B-2-1429**

**2-14s-29w Gove,KS**

Start Date: 2018.02.01 @ 18:20:00

End Date: 2018.02.02 @ 03:31:15

Job Ticket #: 64396                      DST #: 2

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

Printed: 2018.02.06 @ 16:05:57



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

US Oil Resources, LLC  
 6727 Prentice Ave  
 Lakewood, CO 80123  
 ATTN: Adam Blum

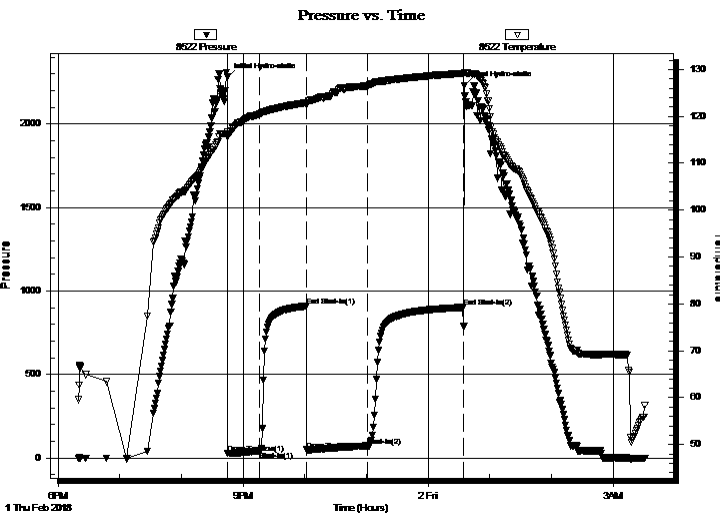
**2-14s-29w Gove, KS**  
**Powers #16B-2-1429**  
 Job Ticket: 64396 **DST#: 2**  
 Test Start: 2018.02.01 @ 18:20:00

## GENERAL INFORMATION:

Formation: **Spergen**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 20:45:15  
 Time Test Ended: 03:31:15  
 Interval: **4391.00 ft (KB) To 4435.00 ft (KB) (TVD)**  
 Total Depth: 4435.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Bradley Walter  
 Unit No: 70  
 Reference Elevations: 2701.00 ft (KB)  
 2692.00 ft (CF)  
 KB to GR/CF: 9.00 ft

**Serial #: 8522 Inside**  
 Press@RunDepth: 73.54 psig @ 4393.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2018.02.01 End Date: 2018.02.02 Last Calib.: 2018.02.02  
 Start Time: 18:20:05 End Time: 03:31:15 Time On Btm: 2018.02.01 @ 20:45:00  
 Time Off Btm: 2018.02.02 @ 00:35:30

TEST COMMENT: IF: 4" blow.  
 IS: No return.  
 FF: 3" blow.  
 FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2278.10	116.63	Initial Hydro-static
1	27.72	115.68	Open To Flow (1)
32	43.98	120.51	Shut-In(1)
77	910.09	122.93	End Shut-In(1)
77	50.00	122.64	Open To Flow (2)
136	73.54	126.51	Shut-In(2)
229	902.04	129.18	End Shut-In(2)
231	2229.36	129.37	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
115.00	Mud 100m (oil spots)	1.61
2.00	OIL 100o	0.03

\* Recovery from multiple tests

## Gas Rates

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



# TRILOBITE TESTING, INC.

## DRILL STEM TEST REPORT

US Oil Resources, LLC

6727 Prentice Ave  
Lakewood, CO 80123

ATTN: Adam Blum

2-14s-29w Gove, KS

Powers #16B-2-1429

Job Ticket: 64396

DST#: 2

Test Start: 2018.02.01 @ 18:20:00

### GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:45:15

Time Test Ended: 03:31:15

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 70

Interval: **4391.00 ft (KB) To 4435.00 ft (KB) (TVD)**

Reference Elevations: 2701.00 ft (KB)

Total Depth: 4435.00 ft (KB) (TVD)

2692.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

Serial #: **8319**

Outside

Press@RunDepth: psig @ 4393.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.02.01

End Date:

2018.02.02

Last Calib.:

1899.12.30

Start Time: 18:20:05

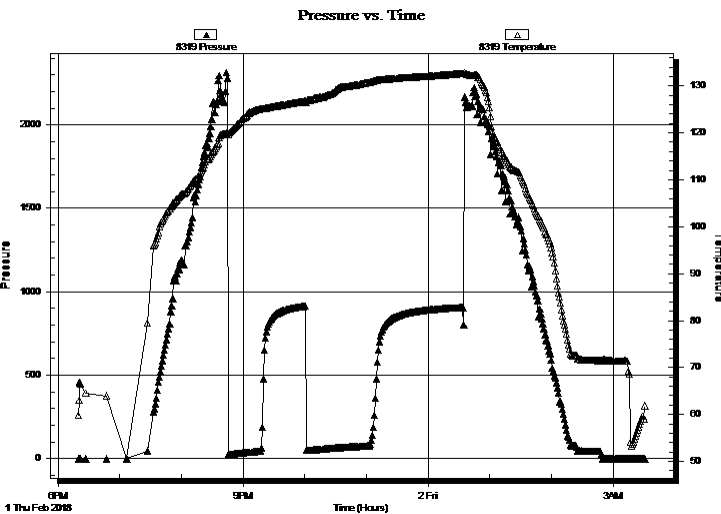
End Time:

03:31:15

Time On Btm:

Time Off Btm:

TEST COMMENT: IF: 4" blow.  
IS: No return.  
FF: 3" blow.  
FS: No return.



### PRESSURE SUMMARY

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

### Recovery

Length (ft)	Description	Volume (bbl)
115.00	Mud 100m (oil spots)	1.61
2.00	OIL 100o	0.03

### 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

**2-14s-29w Gove,KS**

6727 Prentice Ave  
Lakewood, CO 80123

**Powers #16B-2-1429**

ATTN: Adam Blum

Job Ticket: 64396

**DST#: 2**

Test Start: 2018.02.01 @ 18:20:00

## Tool Information

Drill Pipe:	Length: 4373.00 ft	Diameter: 3.80 inches	Volume: 61.34 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.34 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	4391.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	44.00 ft			
Tool Length:	71.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

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

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4365.00	
Shut In Tool	5.00			4370.00	
Hydraulic tool	5.00			4375.00	
Jars	5.00			4380.00	
Safety Joint	2.00			4382.00	
Packer	5.00			4387.00	27.00 Bottom Of Top Packer
Packer	4.00			4391.00	
Stubb	1.00			4392.00	
Perforations	1.00			4393.00	
Recorder	0.00	8522	Inside	4393.00	
Recorder	0.00	8319	Outside	4393.00	
Perforations	7.00			4400.00	
drill Pipe	31.00			4431.00	
Change Over Sub	1.00			4432.00	
Bullnose	3.00			4435.00	44.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

US Oil Resources, LLC

**2-14s-29w Gove,KS**

6727 Prentice Ave  
Lakewood, CO 80123

**Powers #16B-2-1429**

Job Ticket: 64396

**DST#: 2**

ATTN: Adam Blum

Test Start: 2018.02.01 @ 18:20:00

## 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: 62.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.79 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	Mud 100m (oil spots)	1.613
2.00	OL 100o	0.028

Total Length: 117.00 ft      Total Volume: 1.641 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

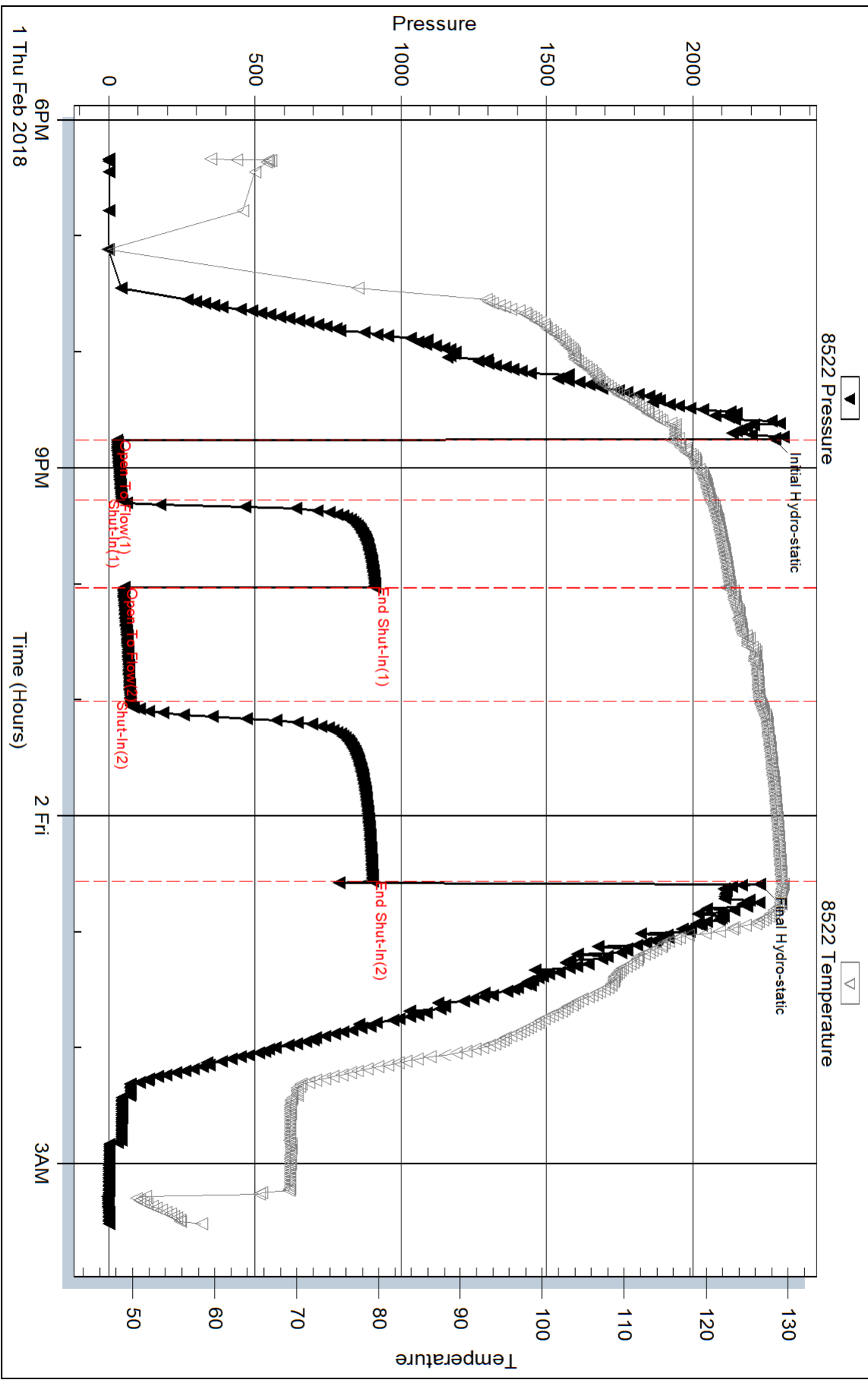
Serial #:

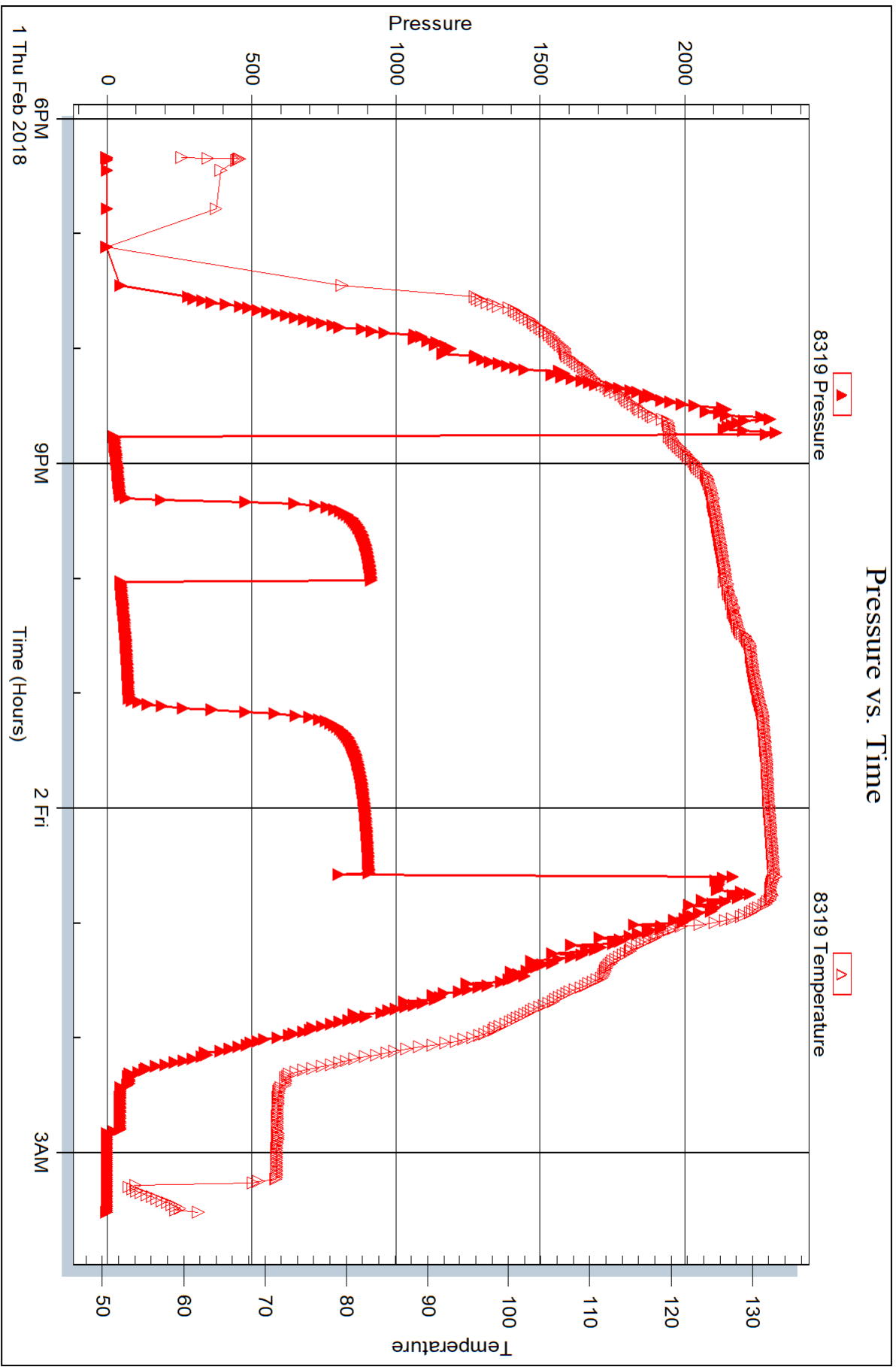
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **US Oil Resources, LLC**

6727 Prentice Ave  
Lakewood, CO 80123

ATTN: Adam Blum

**Powers #16B-2-1429**

**2-14s-29w Gove,KS**

Start Date: 2018.02.02 @ 12:50:00

End Date: 2018.02.02 @ 21:15:45

Job Ticket #: 64397                      DST #: 3

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

Printed: 2018.02.06 @ 16:05:26



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

US Oil Resources, LLC

**2-14s-29w Gove, KS**

6727 Prentice Ave  
Lakewood, CO 80123

**Powers #16B-2-1429**

ATTN: Adam Blum

Job Ticket: 64397

**DST#: 3**

Test Start: 2018.02.02 @ 12:50:00

## GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:19:30

Time Test Ended: 21:15:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 70

**Interval: 4419.00 ft (KB) To 4445.00 ft (KB) (TVD)**

Reference Elevations: 2701.00 ft (KB)

Total Depth: 4445.00 ft (KB) (TVD)

2692.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8522 Inside**

Press@RunDepth: 98.72 psig @ 4442.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.02.02

End Date: 2018.02.02

Last Calib.: 2018.02.02

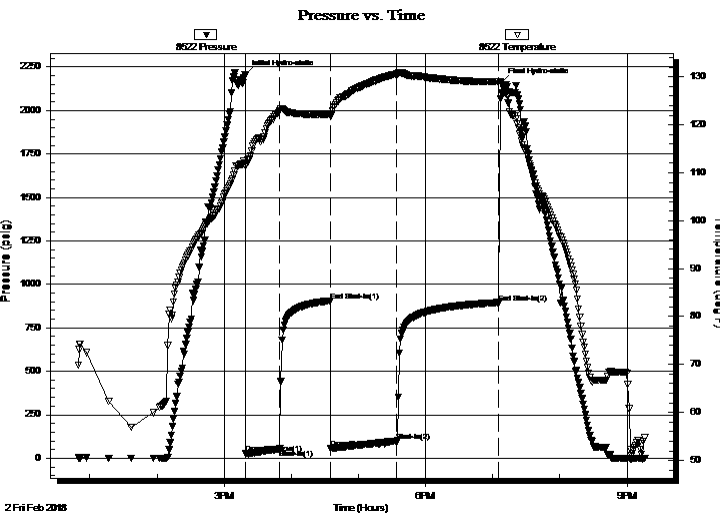
Start Time: 12:50:05

End Time: 21:15:44

Time On Btm: 2018.02.02 @ 15:19:15

Time Off Btm: 2018.02.02 @ 19:07:45

**TEST COMMENT:** IF: 6 1/2" blow.  
IS: No return.  
FF: 8 1/2" blow.  
FS: No return.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2205.10	112.07	Initial Hydro-static
1	25.77	111.41	Open To Flow (1)
31	52.35	122.81	Shut-In(1)
76	905.40	122.19	End Shut-In(1)
76	55.96	121.81	Open To Flow (2)
135	98.72	130.56	Shut-In(2)
227	895.45	128.97	End Shut-In(2)
229	2159.84	126.71	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	mcw 80m 20w (oil spots)	2.52
2.00	oil 100o	0.03

\* Recovery from multiple tests

## Gas Rates

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



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

US Oil Resources, LLC

**2-14s-29w Gove, KS**

6727 Prentice Ave  
Lakewood, CO 80123

**Powers #16B-2-1429**

ATTN: Adam Blum

Job Ticket: 64397

**DST#: 3**

Test Start: 2018.02.02 @ 12:50:00

## GENERAL INFORMATION:

Formation: **Spergen**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:19:30

Time Test Ended: 21:15:45

Test Type: Conventional Bottom Hole (Reset)

Tester: Bradley Walter

Unit No: 70

**Interval: 4419.00 ft (KB) To 4445.00 ft (KB) (TVD)**

Reference Elevations: 2701.00 ft (KB)

Total Depth: 4445.00 ft (KB) (TVD)

2692.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 9.00 ft

**Serial #: 8319 Outside**

Press@RunDepth: psig @ 4442.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2018.02.02

End Date: 2018.02.02

Last Calib.: 2018.02.02

Start Time: 12:50:05

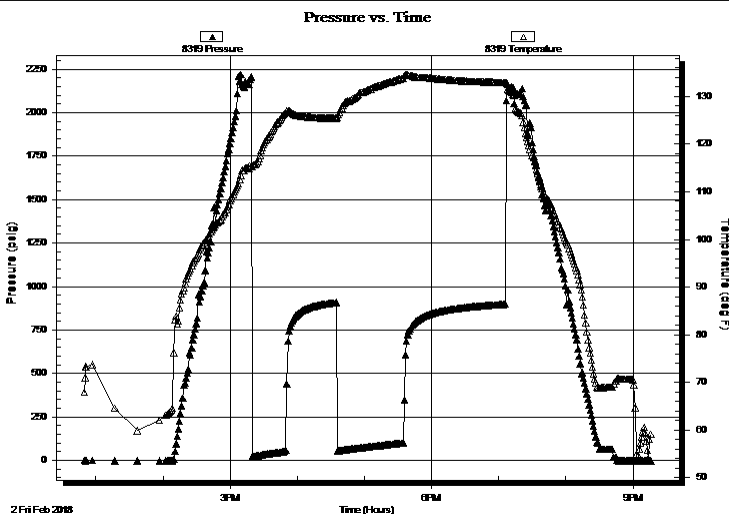
End Time: 21:15:44

Time On Btm:

Time Off Btm:

**TEST COMMENT:** IF: 6 1/2" blow .  
IS: No return.  
FF: 8 1/2" blow .  
FS: No return.

## PRESSURE SUMMARY



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

## Recovery

Length (ft)	Description	Volume (bbl)
180.00	mcw 80m 20w (oil spots)	2.52
2.00	oil 100o	0.03

## 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

**2-14s-29w Gove,KS**

6727 Prentice Ave  
Lakewood, CO 80123

**Powers #16B-2-1429**

ATTN: Adam Blum

Job Ticket: 64397

**DST#: 3**

Test Start: 2018.02.02 @ 12:50:00

## Tool Information

Drill Pipe:	Length: 4404.00 ft	Diameter: 3.80 inches	Volume: 61.78 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 61.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	4419.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			4393.00	
Shut In Tool	5.00			4398.00	
Hydraulic tool	5.00			4403.00	
Jars	5.00			4408.00	
Safety Joint	2.00			4410.00	
Packer	5.00			4415.00	27.00 Bottom Of Top Packer
Packer	4.00			4419.00	
Stubb	1.00			4420.00	
Perforations	22.00			4442.00	
Recorder	0.00	8522	Inside	4442.00	
Recorder	0.00	8319	Outside	4442.00	
Bullnose	3.00			4445.00	26.00 Bottom Packers & Anchor

**Total Tool Length: 53.00**





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

US Oil Resources, LLC

**2-14s-29w Gove,KS**

6727 Prentice Ave  
Lakewood, CO 80123

**Powers #16B-2-1429**

Job Ticket: 64397

**DST#: 3**

ATTN: Adam Blum

Test Start: 2018.02.02 @ 12:50:00

### 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:

37000 ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.99 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1100.00 ppm

Filter Cake: 1.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	mcw 80m 20w (oil spots)	2.525
2.00	oil 100o	0.028

Total Length: 182.00 ft      Total Volume: 2.553 bbl

Num Fluid Samples: 0

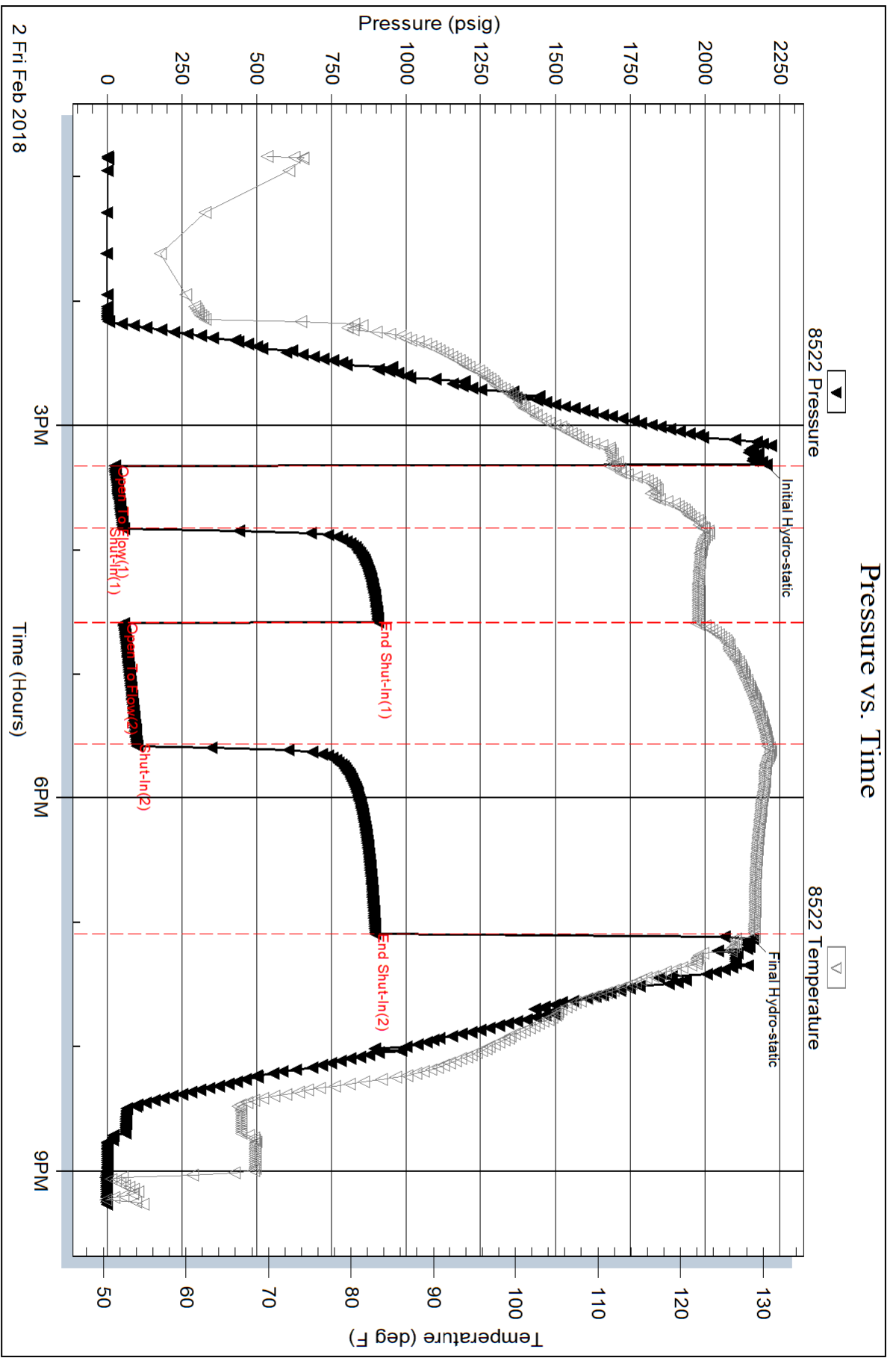
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw is .289 @ 51f = 37000ppm

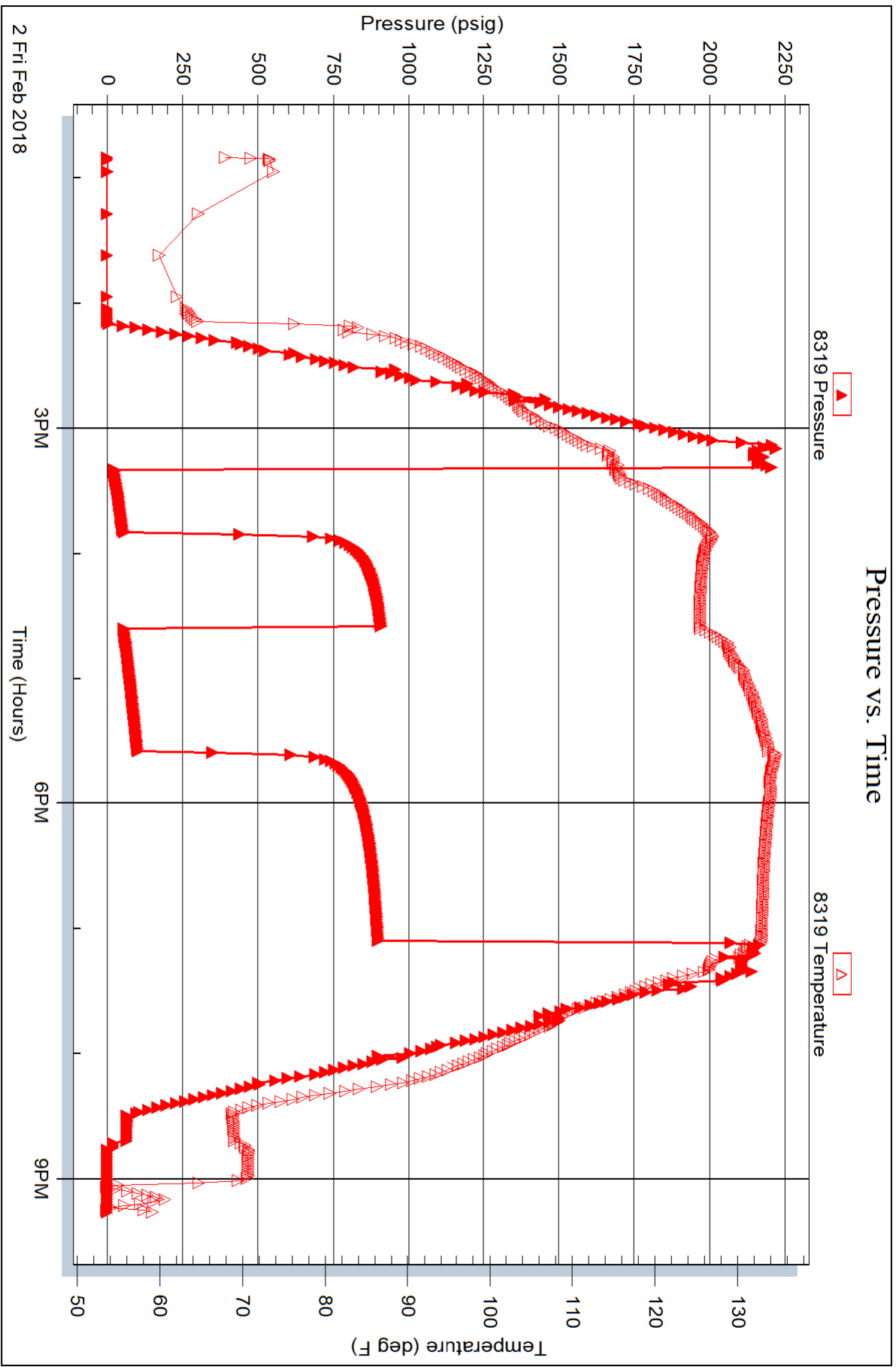


Serial #: 8319

Outside US Oil Resources, LLC

Powers #16B-2-1429

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 64397

Printed: 2018.02.06 @ 16:05:27



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **64395**

Well Name & No. Powers 16B-2-1429 Test No. 1 Date 1/30/2018  
 Company US Oil Resources, LLC Elevation 2701 KB 2692 GL  
 Address 6727 Prentice Ave Lakewood, Co 80123  
 Co. Rep / Geo. Adam Blum Rig Duke #4  
 Location: Sec. 2 Twp. 14s Rge. 29w Co. Gore State Ks

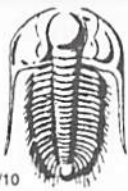
Interval Tested 3993 - 4035 Zone Tested LKC Base G-H  
 Anchor Length 42 Drill Pipe Run 3992 Mud Wt. 9.2  
 Top Packer Depth 3988 Drill Collars Run Ø Vis 6.0  
 Bottom Packer Depth 3993 Wt. Pipe Run Ø WL 6.4  
 Total Depth 4035 Chlorides 500 ppm System LCM 4 #  
 Blow Description IF 1" blow Tool slid 3' Took on small amount of mud.  
ISI No return.  
FF No blow  
FSI No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>20</u>	<u>mud</u>			<u>100</u>	
	<u>oil specks in tool</u>				

Rec Total 20 BHT 117 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>1970</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1645</u>
(B) First Initial Flow <u>31</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1758</u>
(C) First Final Flow <u>30</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2030</u>
(D) Initial Shut-In <u>197</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>2230</u>
(E) Second Initial Flow <u>30</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0037 1/31</u>
(F) Second Final Flow <u>30</u>	<input checked="" type="checkbox"/> Mileage <u>97 RT 72.75</u>	Comments
(G) Final Shut-In <u>44</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1921</u>	<input type="checkbox"/> Straddle	
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Extra Copies
Final Flow <u>15</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
Final Shut-In <u>30</u>	<input type="checkbox"/> Accessibility	Total <u>1547.75</u>
	Sub Total <u>1547.75</u>	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. **64396**

Well Name & No. Powers 16B-2-1429 Test No. 2 Date 2/1/2018  
 Company US Oil Resources, LLC Elevation 2701 KB 2692 GL  
 Address 6727 Prentice Ave Lakewood Co 80123  
 Co. Rep / Geo. Adam Blum Rig Duke #4  
 Location: Sec. 2 Twp. 14s Rge. 29w Co. Gove State Ks

Interval Tested 4391-4435 Zone Tested Spargin  
 Anchor Length 44 Drill Pipe Run 4373 Mud Wt. 9.2  
 Top Packer Depth 4386 Drill Collars Run 0 Vis 62  
 Bottom Packer Depth 4391 Wt. Pipe Run 0 WL 6.8  
 Total Depth 4435 Chlorides 900 ppm System LCM 4#

Blow Description IF 4" blow  
ISI No return  
FF No 3" blow  
FSI No return

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>OTL</u>				
<u>175</u>	<u>MUD w/oil spots</u>				

Rec Total 117 BHT 129 Gravity — API RW — @ — °F Chlorides — ppm

(A) Initial Hydrostatic <u>2278</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1800</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1820</u>
(C) First Final Flow <u>44</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>2046</u>
(D) Initial Shut-In <u>910</u>	<input checked="" type="checkbox"/> Circ Sub <u>1/4</u>	T-Pulled <u>0031 2/2/18</u>
(E) Second Initial Flow <u>50</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>0331</u>
(F) Second Final Flow <u>74</u>	<input checked="" type="checkbox"/> Mileage <u>97.45 72.75</u>	Comments
(G) Final Shut-In <u>902</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2229</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
Initial Open <u>30</u>	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
Initial Shut-In <u>45</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
Final Flow <u>60</u>	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby	Total <u>1547.75</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1547.75</u>	

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. **64397**

Well Name & No. Powers 16B-2-1429 Test No. 3 Date 2/2/2018  
 Company US O.I. Resources, LLC Elevation 2701 KB 2692 GL  
 Address 6727 Prentice Ave Lakewood Co 80123  
 Co. Rep / Geo. Adam Blum Rig Duke #4  
 Location: Sec. 2 Twp. 14s Rge. 29w Co. Gore State Ks

Interval Tested 4419 - 4445 Zone Tested Spurgin  
 Anchor Length 26' Drill Pipe Run 4404 Mud Wt. 9.1  
 Top Packer Depth 4414 Drill Collars Run 0 Vis 58  
 Bottom Packer Depth 4419 Wt. Pipe Run 0 WL 7.0  
 Total Depth 4445 Chlorides 1000 ppm System LCM 4 #

Blow Description IF: 6 1/2" blow,  
ISI: No return,  
FF: 8 1/2" blow  
FSI: No return.

Rec	Feet of	%gas	%oil	%water	%mud
<u>2</u>	<u>0.1</u>	<u>100</u>			
<u>180</u>	<u>ncw</u>		<u>80</u>	<u>20</u>	

Rec Total 182 BHT 129 Gravity — API RW 281 @ 51 °F Chlorides 37000 ppm

(A) Initial Hydrostatic <u>2205</u>	<input checked="" type="checkbox"/> Test <u>1150</u>	T-On Location <u>1230</u>
(B) First Initial Flow <u>26</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>1250</u>
(C) First Final Flow <u>52</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1520</u>
(D) Initial Shut-In <u>905</u>	<input checked="" type="checkbox"/> Circ Sub <u>N/C</u>	T-Pulled <u>1905</u>
(E) Second Initial Flow <u>56</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>2116</u>
(F) Second Final Flow <u>99</u>	<input checked="" type="checkbox"/> Mileage <u>97 RT 72.75</u>	Comments
(G) Final Shut-In <u>895</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>2160</u>	<input type="checkbox"/> Straddle	<input type="checkbox"/> Ruined Shale Packer
	<input type="checkbox"/> Shale Packer	<input type="checkbox"/> Ruined Packer
	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Extra Copies
	<input type="checkbox"/> Extra Recorder	Sub Total <u>0</u>
	<input type="checkbox"/> Day Standby	Total <u>1547.75</u>
	<input type="checkbox"/> Accessibility	MP/DST Disc't
	Sub Total <u>1547.75</u>	

Approved By \_\_\_\_\_ Our Representative [Signature]

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# Musgrove

Petroleum Geology  
212 Main Street, Claflin KS

## GEOLOGIST'S REPORT

### DRILLING TIME AND SAMPLE LOG

COMPANY US OIL RESOURCES, LLC  
 LEASE Powers #16B-2-1429  
 FIELD Mabel L. Northwest  
 LOCATION SW-NW-SE-SE (740' FSL & 1292' FEL)  
 SEC 2 TWSP 14S RGE 29W  
 COUNTY Gove STATE Kansas

#### ELEVATIONS

KB 2700'  
 DF \_\_\_\_\_  
 GL 2691'  
 Measurements Are All  
 From KB

CONTRACTOR Duke Drilling, Co.  
 SPUD 1/25/2018 COMP 02/13/2018  
 RTD 4570' LTD 4570'  
 MUD UP 3500' TYPE MUD Chemical

#### CASING

SURFACE 8 5/8" @ 264'  
 PRODUCTION \_\_\_\_\_

#### ELECTRICAL SURVEYS

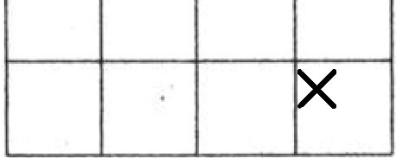
Weatherford;  
 Comp. Sonic, Density, Array Ind.,  
 Dual Spaced Neutron, Micro

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

FORMATION TOPS	LOG	SAMPLES
Anhydrite 2145(+555)		Pawnee 4232(-1532)
B. Anhydrite 2177(+523)		Ft. Scott 4311(-1611)
Heebner 3785(-1085)		Cherokee 4409(-1709)
Toronto 3805(-1105)		Osage 4498(-1798)
Lansing 3822(-1122)		RTD 4570(-1870)
Muncie Creek 3969(-1269)		LTD 4570(-1870)

		2	

Stark Sh.	4058(-1358)							
Hushpuckney	4090(-1390)							
Base KC	4123(-1107)							
Marmaton	4150(-1450)							



**ROCK TYPES**

Dolprim	shale, grn	Carbon Sh
Lmst fw<7	shale, gry	

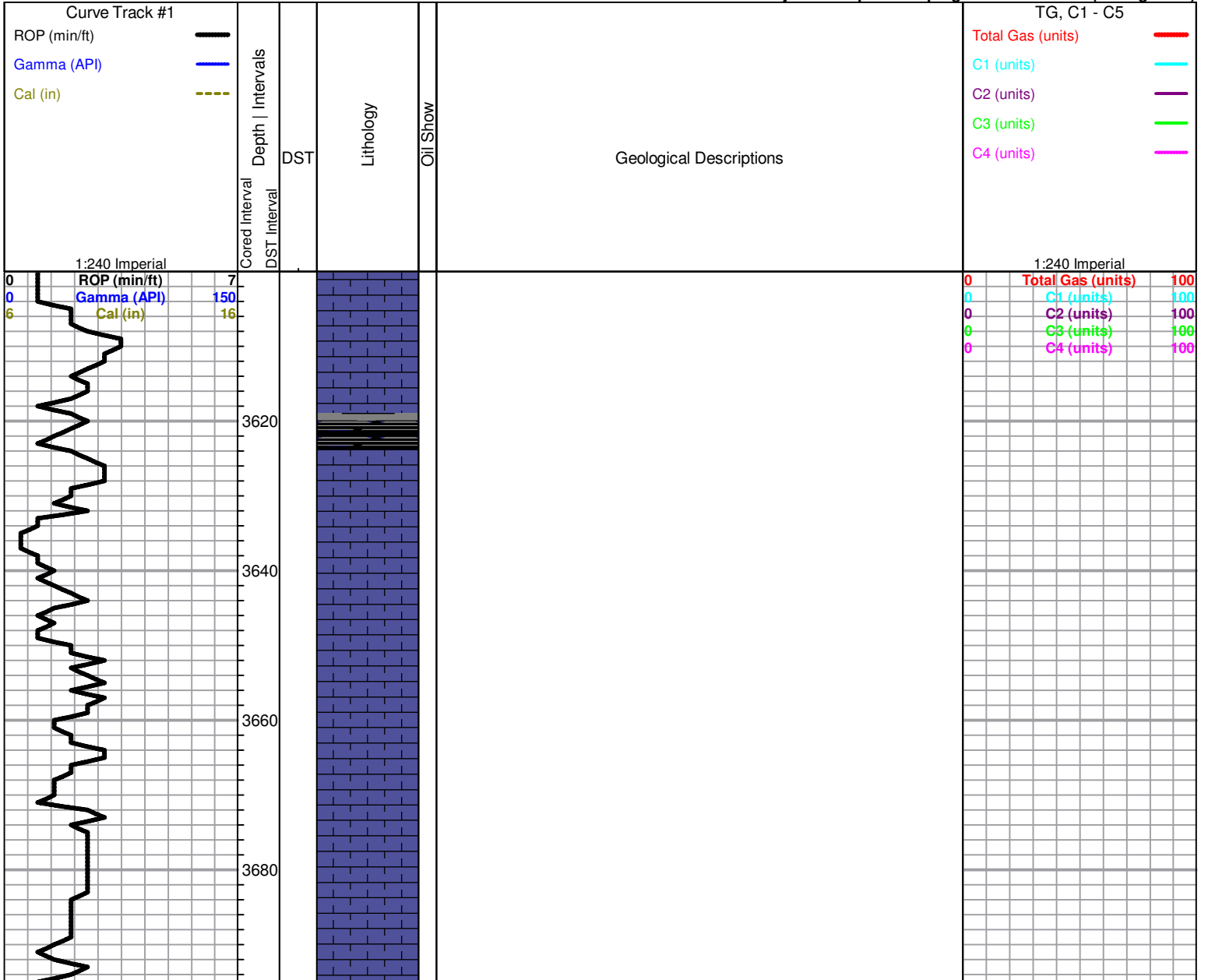
**ACCESSORIES**

**MINERAL**  
 ▲ Chert White

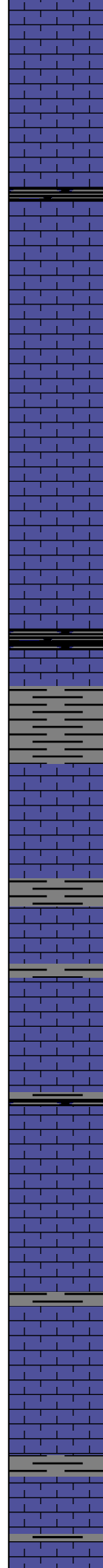
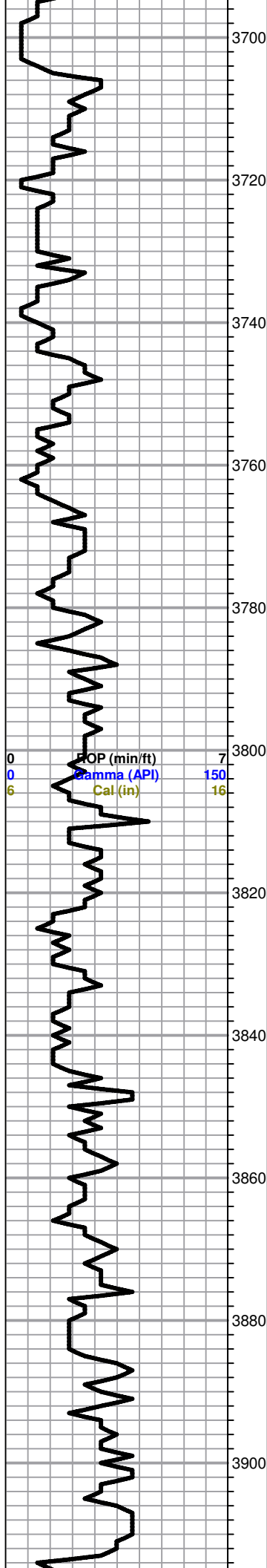
**OTHER SYMBOLS**

<b>Oil Show</b>	<b>DST</b>
● Good Show	DST Int
● Fair Show	DST alt
● Poor Show	Core
○ Spotted or Trace	tail pipe
○ Questionable Stn	
□ Dead Oil Stn	
■ Fluorescence	
* Gas	

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







LS, gry, tan, foss, abund. calcite infill in some porosity, ( poor to fair porosity)

LS, gry, tan, ool/ foss/scattered porosity, no shows

LS, tan, foss, chalky in pts, fair visible porosity, no shows

LS gry, tan, foss, slightly chalky, + white, gry, foss chert

LS, a/a

LS, a/a

**Heebner 3783.0 (-1083.0)**

Sh, black carb

Sh, gry, grayish, green

**Toronto 3801.0 (-1104.0)**

LS, tan, brown, few foss, slightly cherty, tr. pyrite

**Lansing 3821.0 (-1121.0)**

LS, gry, tan, fxl, foss, poor visible porosity, + white/ gry, opaque cherts

LS, white, tan, foss, dense, + white, cream, opaque chert

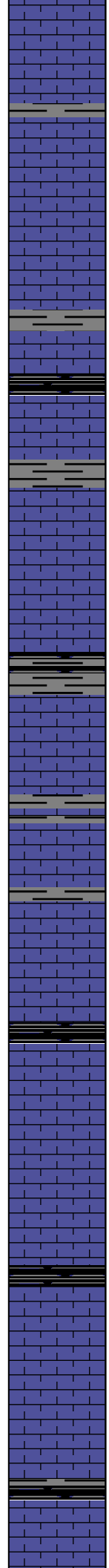
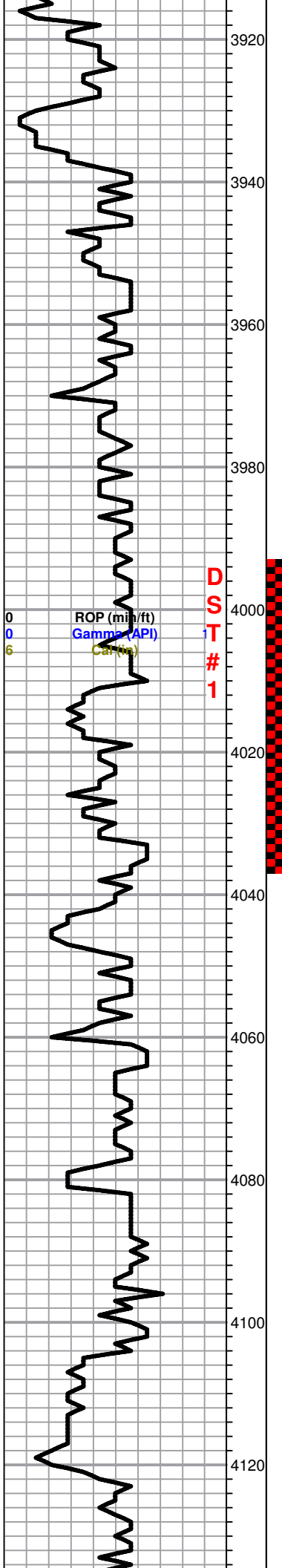
LS, tan, gry, ool in pts, slightly chalky, poor visible porosity, no shows

LS, white, gry, fxl, chert+ cream, chert

LS, gry, white, fxl, foss in pts, + tr white medim xln dol.  
LS, poor visible porosity

LS, white/gry, fxl, in pts, slightly chalky, poor visible porosity, few w/ fair inxln p.p porosity, spty brown/black stain, SFO, ??? odor

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



LS, white, gry, fxl, few med xln, scattered inxln/ vuggy porosity, ??? stain, nsfo, no odor + tr. gry/ amber chert

LS, cream/ tan, slightly foss/ ool, cherty in pts, tr. black stain, couple w/ tr. fo, no odor + gry/ white chert

LS, white, gry, cream, chalky in pts, poor visible porosity,

**Muncie Creek 3968.0 (-1272.0)**

Sh, black carb

LS, white, gry, chalky in pts, poor visible porosity, no shows

LS, white/ tan, fxl, ol in pts, slightly calky, scattered INXLN porosity, spty brown stain, sfo ??? odor

Tr. gry, black shale

LS, white, cream, ool, slightly chalky, fair porosity, brown/gry stain, sfo, faint odor

LS, white, tan, foss in pts, poor vsiible porosity, tr. poor brown stain, tr. fo, faint odor

**Stark 4057.0 (-1357.0)**

Sh, back carb

LS, tan, cherty in pts (dense)

LS, tan, cream, ool, foss, scattered, back/brown stain, nsfo, no odor + white/ gry chert

**Hushpuckney 4091.0 (-1396.0)**

Sh, black carb+ coffee brown shae

LS, white, cream, few foss, tr. brown stain, nsfo, no odor

LS, a/a

**Base KC 4123.0 (-1423.0)**

Slug black carb sh.

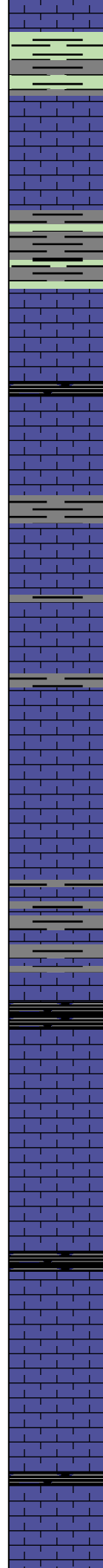
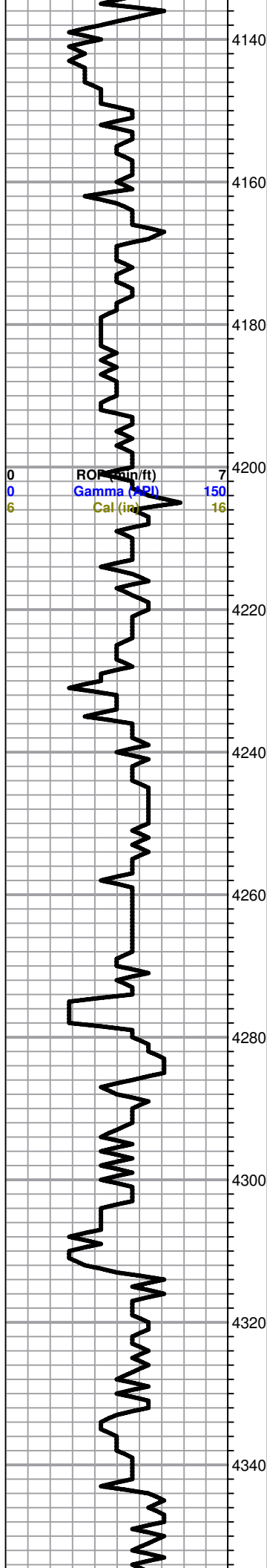
**DST#1 3993-4035**

30-45-15-30

1st Open:  
Weak blow

Recovery:  
20' Mud w/ oil specks

Pressures:  
ISIP 192 psi  
FSIP 44 psi  
IFP 31-30 psi  
FFP 30-30 psi  
HSH 1970-1921 psi



**"US OIL" BKC 4137.0 (-1437.0)**

Sh, gry, lime green, silty shale  
tr. gry, vfg, silty sand

**Marmaton 4150.0 (-1450.0)**

LS, white, cream, chalky, tr. white, chalk & gry chert

Sh, gry/ gryish green, shale

**"US OIL" Marmaton 4174.0 (-1474.0)**

LS, maroon tinted, chalky, few cherty, + tan, dense,  
few foss, tr. gry-grown stain

**Marmaton 'B' 4194.0 (-1494.0)**

LS, white/gry/cream, fxl, foss in pts, chalky, poor  
visible porosity, brown spotty stain, nsfo, no odor

LS, cream, fxl, ool in pts, chalky, golden brown stain,  
nsfo, no odor

**Pawnee 4232.0 (-1532.0)**

LS, tan, foss/ool in pts, chalky, golden brown stain,  
nsfo, no odor

LS, a/a

Sh, dk gry, gry lime shale

**"US OIL" Myrick Station 4275.0 (-1575.0)**

Sh, black carb

**Myrick Station 4279.0 (-1579.0)**

LS, white, gry, cream, f-med xln, foss in pts, light  
brown stain, nsfo, no odor

**"US OIL" Ft. Scott 4304.0 (-1604.0)**

**Ft. Scott 4311.0 (-1611.0)**

Sh, black carb

LS, gry, tan, fxl, sl. foss, cherty in pts (dense)

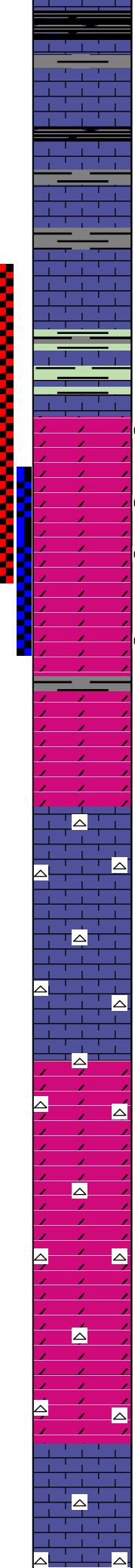
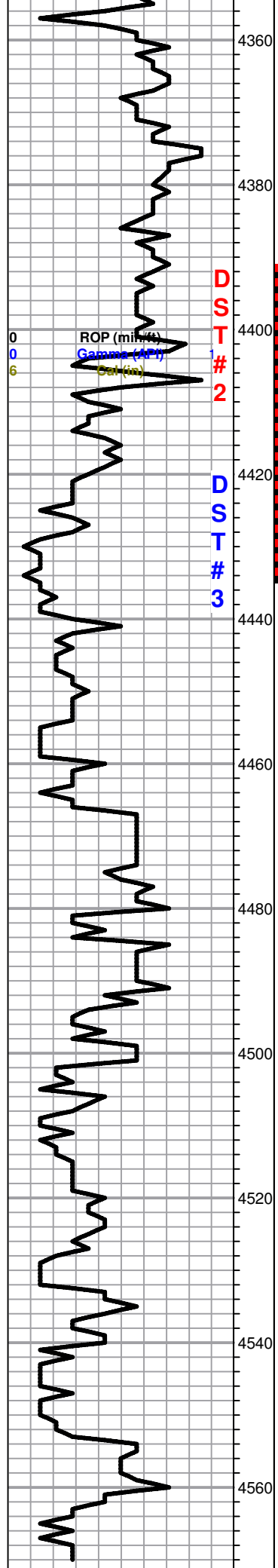
LS, white/ gry, chalky, + white/gry opaque cherts

**Cherokee 4341.0 (-1641.0)**

Sh, black carb

LS, tan, ool, foss, chalky, white, tr. pyrite, inclusions

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Sh, gry/blk

LS, gry, mottled/ tan, ool, poor visible porosity, no shows

Tr. black/coffee brown sh

LS, tan, ool, cherty,dense, + white chalk ls

**Johnson Zone 4387.0 (-1787.0)**

LS, tan, fxl, few cherty (dense)

Sh, maroon, green sh.

Tr. amber/ gry chert+ tr. vfg. limey, silty sd.  
Sd. cear, vfg, qtz, fr. sorted, few friable, tr. stain, sfo, no odor

**Mississippian 4410.0 (1710.0)**

Dol. tan, gry, suc, poor visible porosity, tr. stain, tr. fo, ??? odor

Dol. tan, brown, gry, suc., scattered p.p & vuggy type porosity, brn stain & sat.(few 100% stain &sat.) sfo, ??? odor

Dol. tan, cream, fxl, suc, few slightly cherty, fair - good p.p / vuggy type porosity, lt. brown/ black stain, sfo, ft/fair odor

Dol. tan, cream, fxl, suc. few chalky, fair to good p.p. to vuggy porosity, lt. brown to black stain, vis. gas bubbles, sfo, ft. odor

Dol. white/ cream, fxl, suc. few w/ chalky lust., tr. vfg. qtz sd., no shows

**Warsaw 4466.0 (-1766.0)**

LS, white, cream, f-med xln, few dolomitic, poor visible porosity, no shows

LS, gry, white, f-med xln, foss, chalky, no shows

LS, gry, tan, mottled, foss/ ool, chaky+ white/ gry foss chert

**Osage 4501.0 (-1801.0)**

Dol. white, fxl, suc. cherty (dense)

Dol. cream, white, suc. poor visible porosity & chert, gry/ white, foss chert

Dol. gry, mottled, suc. + chert a/a

Dol. a/a

Dol. white, cream, slightly cherty, glauc. no shows

**Gilmore City 4553.0 (-1853.0)**

LS. gry, tan, foss, dense, no shows

Abd white/ gry, light gry, opaque cherts, few foss

**RTD 4570.0 (-1870.0)**

**DST#2 4391-4435**

30-45-60-90

1st Open:  
Weak (4")

2nd Open:  
Weak (3")

Recovery:  
2' clean oil

115' mud w/ oil spots

ISIP 910 psi  
FSIP 902 psi  
IFP 28-44 psi  
FFP 50-74 psi  
HSH 2278-2229 psi

**DST#3 4419-4445**

30-45-60-90

1st Open:  
Fair (6.5")

2nd Open:  
Good (8.5")

Recovery:  
2' clean oil

180' MCW, tr. oil (20%W, 80%M)

Pressures:  
ISIP 905 psi  
FSIP 895 psi  
IFP 26-52 psi  
FFP 56-99 psi  
HSH 2205-2160 psi

4580

LTD 4570.0 (-1870.0)  
LTD 4570.0 (-1870.0)