

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

**WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD  
 Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	US Oil Resources LLC
Well Name	BRIGGS 14A-35-1329
Doc ID	1363968

All Electric Logs Run

Array Induction
Density Neutron
Microlog
Sonic Log







TICKET 30651

PAGE 1 OF 1

CHARGE TO: *US Oil Resources*  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

SERVICE LOCATIONS  
 1. *1400 City KS* WELL/PROJECT NO. *14A-35-1329* LEASE *Briggs* COUNTY/PARISH *Gove* STATE *KS* CITY *Gove* DATE *9 AUG 17* OWNER  
 2. TICKET TYPE  SERVICE  SALES CONTRACTOR  
 3. WELL TYPE *Oil* WELL CATEGORY *Development* JOB PURPOSE *Complete Surface Pipe* RIG NAME/NO. *2* SHIPPED VIA *ET* DELIVERED TO *location* ORDER NO.  
 4. REFERRAL LOCATION WELL LOCATION *35-13-29* WELL PERMIT NO.

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT									
575		1			50	mi					5.00	250.00
576.5		1		MILEAGE	1	hr					800.00	800.00
325		1		Pump Charge	165	sk					12.25	2021.25
276		1		Standard cement	350	lb	7	sk			40.00	280.00
279		1		Calcium chloride	300	lb	3	sk			25.00	75.00
290		1		Bentonite gel	2	gal					42.50	85.00
581		1		D-AIR	165	sk					1.50	247.50
583		1		Service charge	1610	lb	4	TM			0.75	303.00
				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 *Adrian B. Bl...* DATE SIGNED TIME SIGNED  AM.  P.M. *7:50*

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

SURVEY  
 OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?  
 WE UNDERSTOOD AND MET YOUR NEEDS?  
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?  
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?  
 ARE YOU SATISFIED WITH OUR SERVICE?  
 YES  NO  
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL *4060.75*

TAX

TOTAL

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

APPROVAL *ABG/11*

SWIFT OPERATOR

Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 9 AUG 17 PAGE NO. 1

CUSTOMER US Oil ROSS/SCAR WELL NO. 14A-35-1329 LEASE BF 995 JOB TYPE cement surface pipe TICKET NO. 30651

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
								165 sk standard cement 2% gel 3% CC 8 1/2" x 24" casing 6 joints 263' TD: 263
	1900							on loc TRX 114
	1923							start 8 1/2" x 24" casing in well
	2017							circulate well
	2035	3	41			100	100	mix STD 2% 3% 165 sk @ 147 ppg
	2052	3				150		Displace w/ H <sub>2</sub> O
		3	12					→ cement to surface ←
	2100	3	15 1/4			150		Kickout
	2103							shot in 8 1/2" <span style="font-size: 2em;">}</span> 165 sk cement 15 top
								wash truck
								Rack up
	2130							job complete

Thanks  
Blaine Flint



## DRILL STEM TEST REPORT

Prepared For: **US Oil Resources LLC**

6727 W Prentice Ave.  
Lakewood CO 80123

ATTN: Jim Musgrove

**Briggs #14A-35-1329**

**35-13s-29w Gove,KS**

Start Date: 2017.08.14 @ 07:21:15

End Date: 2017.08.14 @ 13:51:00

Job Ticket #: 63839                      DST #: 1

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

Printed: 2017.08.18 @ 08:26:14



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

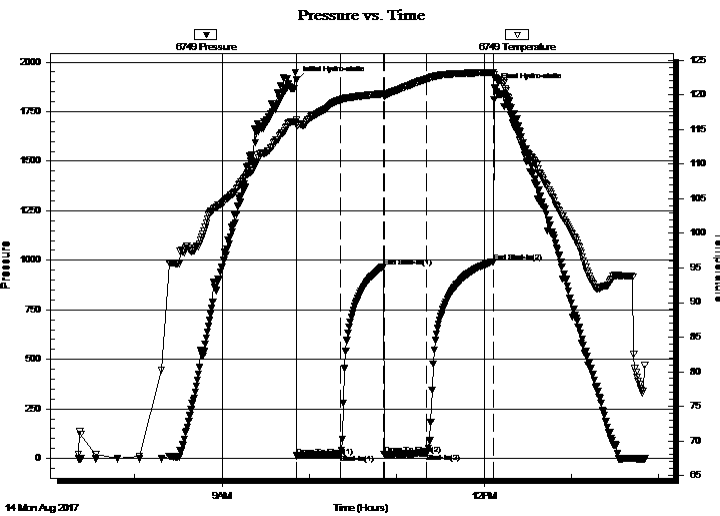
**35-13s-29w Gove, KS**  
**Briggs #14A-35-1329**  
 Job Ticket: 63839 **DST#: 1**  
 Test Start: 2017.08.14 @ 07:21:15

## GENERAL INFORMATION:

Formation: **LKC D**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 09:51:15 Tester: Mike Roberts  
 Time Test Ended: 13:51:00 Unit No: 81  
 Interval: **3988.00 ft (KB) To 4010.00 ft (KB) (TVD)** Reference Elevations: 2971.00 ft (KB)  
 Total Depth: 4010.00 ft (KB) (TVD) 2963.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

**Serial #: 6749 Outside**  
 Press@RunDepth: 25.53 psig @ 3989.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.08.14 End Date: 2017.08.14 Last Calib.: 2017.08.14  
 Start Time: 07:21:15 End Time: 13:51:00 Time On Btm: 2017.08.14 @ 09:51:00  
 Time Off Btm: 2017.08.14 @ 12:07:30

**TEST COMMENT:** IF: Built to weak surface blow  
 IS: No return blow  
 FF: No blow  
 FS: No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.56	116.32	Initial Hydro-static
1	12.99	115.71	Open To Flow (1)
30	19.27	119.30	Shut-In(1)
60	967.15	120.16	End Shut-In(1)
61	20.56	119.79	Open To Flow (2)
90	25.53	122.31	Shut-In(2)
136	990.25	123.25	End Shut-In(2)
137	1870.34	122.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	mcw With oil spots 12 %m 88%w	0.14

## Gas Rates

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





**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

US Oil Resources LLC

**35-13s-29w Gove,KS**

6727 W Prentice Ave.  
Lakewood CO 80123

**Briggs #14A-35-1329**

Job Ticket: 63839

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2017.08.14 @ 07:21:15

## Tool Information

Drill Pipe:	Length: 3974.00 ft	Diameter: 3.80 inches	Volume: 55.74 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 80000.00 lb
			<u>Total Volume: 55.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 66000.00 lb
Depth to Top Packer:	3988.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	47.00 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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Change Over Sub	1.00			3964.00	
Shut In Tool	5.00			3969.00	
Hydraulic tool	5.00			3974.00	
Jars	5.00			3979.00	
Packer	5.00			3984.00	25.00 Bottom Of Top Packer
Packer	4.00			3988.00	
Stubb	1.00			3989.00	
Recorder	0.00	8672	Inside	3989.00	
Recorder	0.00	6749	Outside	3989.00	
Perforations	16.00			4005.00	
Bullnose	5.00			4010.00	22.00 Bottom Packers & Anchor

**Total Tool Length: 47.00**



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

US Oil Resources LLC

**35-13s-29w Gove,KS**

6727 W Prentice Ave.  
Lakewood CO 80123

**Briggs #14A-35-1329**

Job Ticket: 63839

**DST#: 1**

ATTN: Jim Musgrove

Test Start: 2017.08.14 @ 07:21:15

## 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:

14000 ppm

Viscosity: 50.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.15 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.00 ohm.m

Gas Cushion Pressure:

psig

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	mcw With oil spots 12 %m 88%w	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

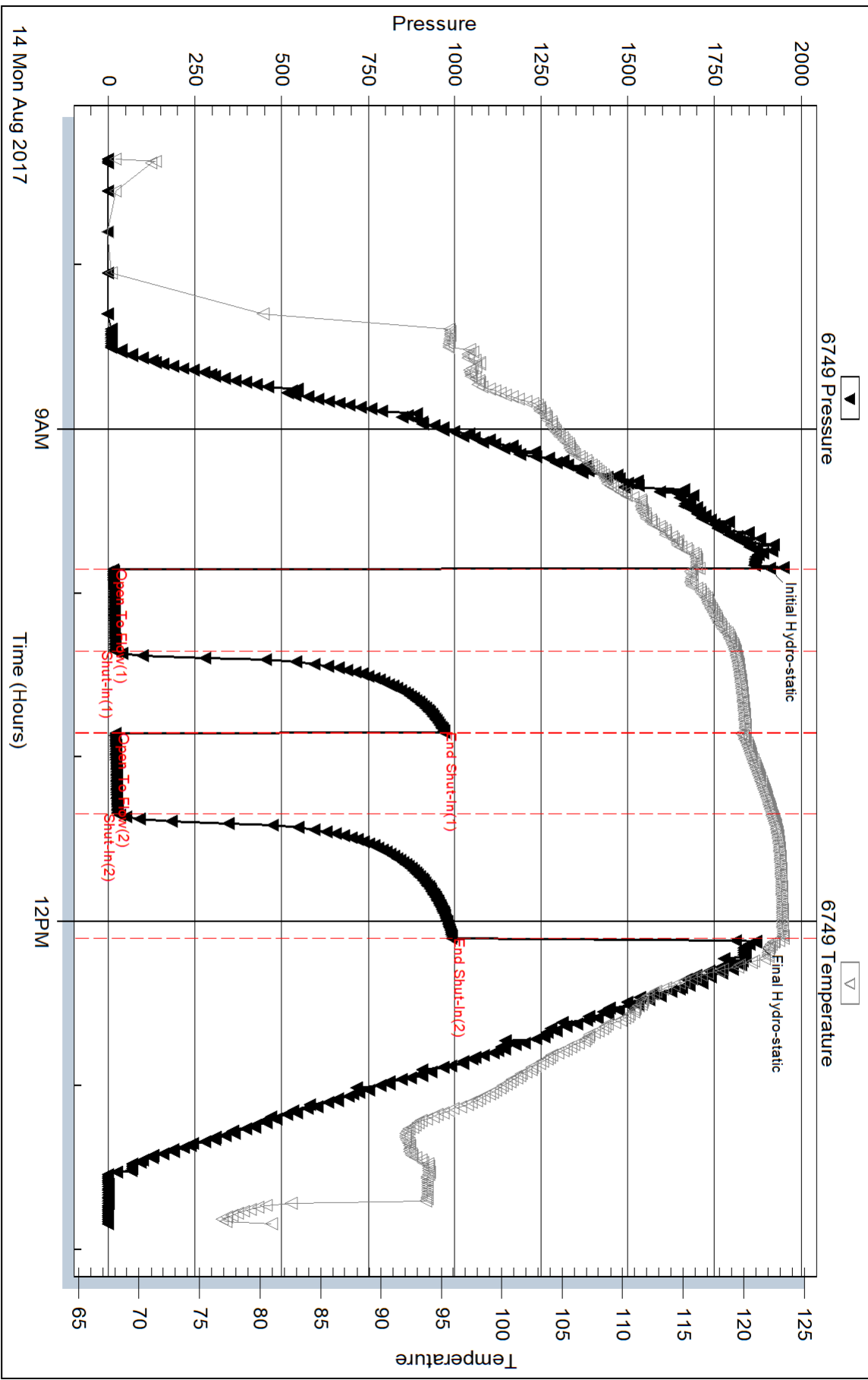
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW= .473@ 93.9\*= 14,000 ppm

### Pressure vs. Time





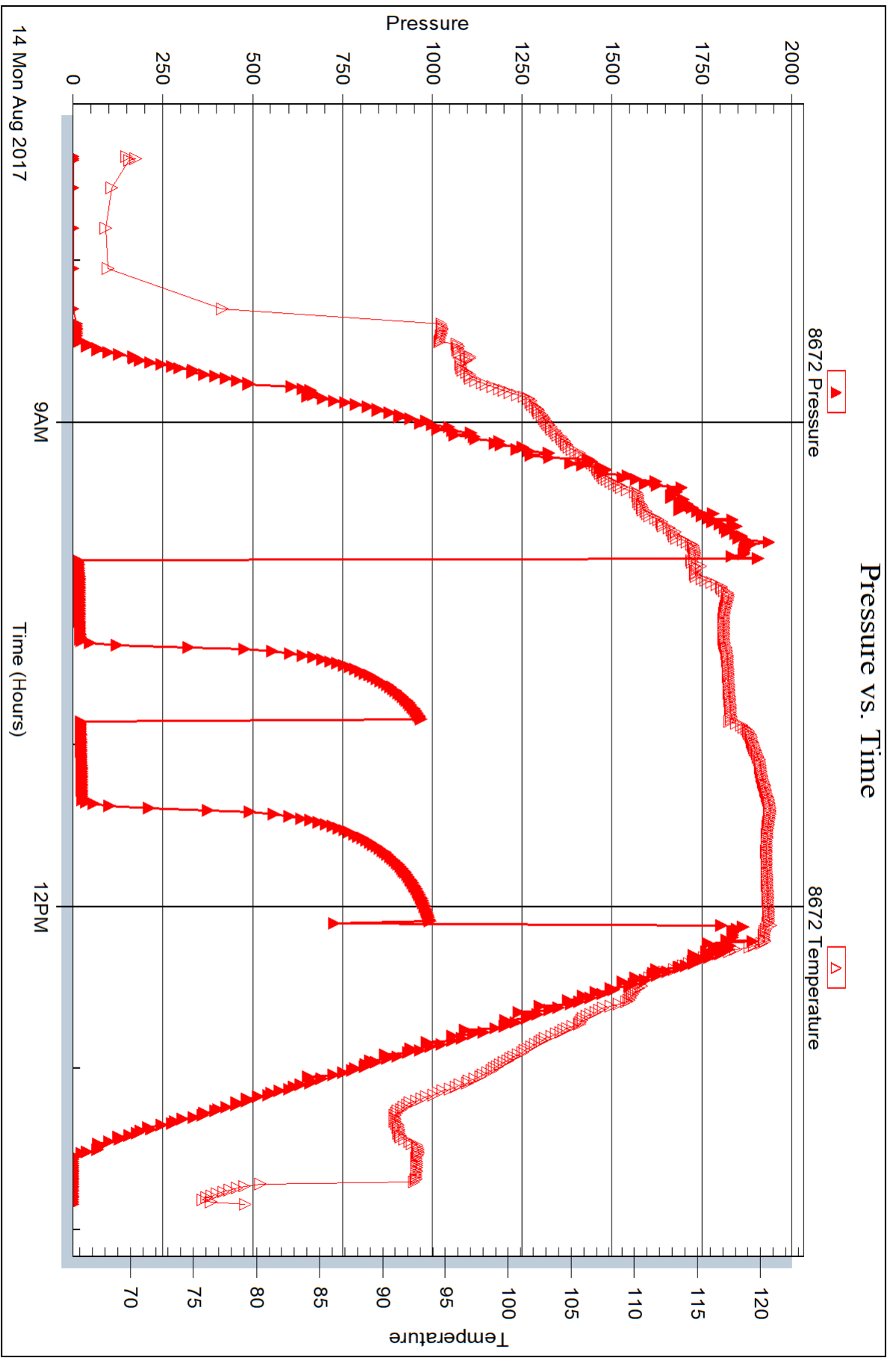
Serial #: 8672

Inside

US Oil Resources LLC

Briggs #14A-35-1329

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **US Oil Resources LLC**

6727 W Prentice Ave.  
Lakewood CO 80123

ATTN: Jim Musgrove

**Briggs #14A-35-1329**

**35-13s-29w Gove,KS**

Start Date: 2017.08.15 @ 04:05:15

End Date: 2017.08.15 @ 10:21:30

Job Ticket #: 63840                      DST #: 2

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

Printed: 2017.08.18 @ 08:22:46



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

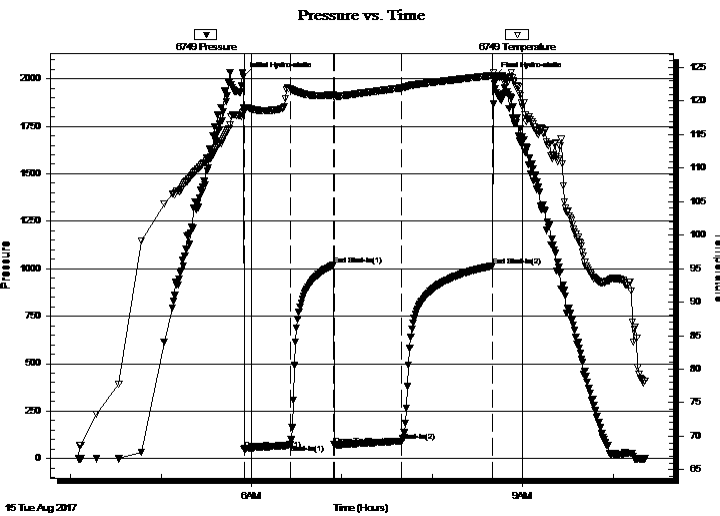
**35-13s-29w Gove, KS**  
**Briggs #14A-35-1329**  
 Job Ticket: 63840 **DST#: 2**  
 Test Start: 2017.08.15 @ 04:05:15

## GENERAL INFORMATION:

Formation: **LKC G-H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:55:00  
 Time Test Ended: 10:21:30  
 Interval: **4053.00 ft (KB) To 4133.00 ft (KB) (TVD)**  
 Total Depth: 4133.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 81  
 Reference Elevations: 2971.00 ft (KB)  
 2963.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6749 Outside**  
 Press@RunDepth: 90.88 psig @ 4128.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.08.15 End Date: 2017.08.15 Last Calib.: 2017.08.15  
 Start Time: 04:05:15 End Time: 10:21:30 Time On Btm: 2017.08.15 @ 05:54:45  
 Time Off Btm: 2017.08.15 @ 08:41:00

**TEST COMMENT:** IF: Built to 2 1/4" blow  
 IS: No return blow  
 FF: Built to 1/4" blow  
 FS: No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2011.75	118.98	Initial Hydro-static
1	50.00	118.42	Open To Flow (1)
31	72.81	121.88	Shut-In(1)
60	1018.59	120.94	End Shut-In(1)
61	70.87	120.71	Open To Flow (2)
105	90.88	121.97	Shut-In(2)
166	1015.03	123.81	End Shut-In(2)
167	2013.70	123.81	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mcw with oil skim on top 30% m 70% w	0.42
64.00	w cm 16% w 84% m	0.90

\* 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

**35-13s-29w Gove, KS**

6727 W Prentice Ave.  
Lakewood CO 80123

**Briggs #14A-35-1329**

ATTN: Jim Musgrove

Job Ticket: 63840

**DST#: 2**

Test Start: 2017.08.15 @ 04:05:15

## GENERAL INFORMATION:

Formation: **LKC G-H**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:55:00

Time Test Ended: 10:21:30

Test Type: Bottom Hole (Reset)

Tester: Mike Roberts

Unit No: 81

**Interval: 4053.00 ft (KB) To 4133.00 ft (KB) (TVD)**

Reference Elevations: 2971.00 ft (KB)

Total Depth: 4133.00 ft (KB) (TVD)

2963.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

**Serial #: 8672**

**Inside**

Press@RunDepth: psig @ 4128.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.08.15

End Date: 2017.08.15

Last Calib.: 2017.08.15

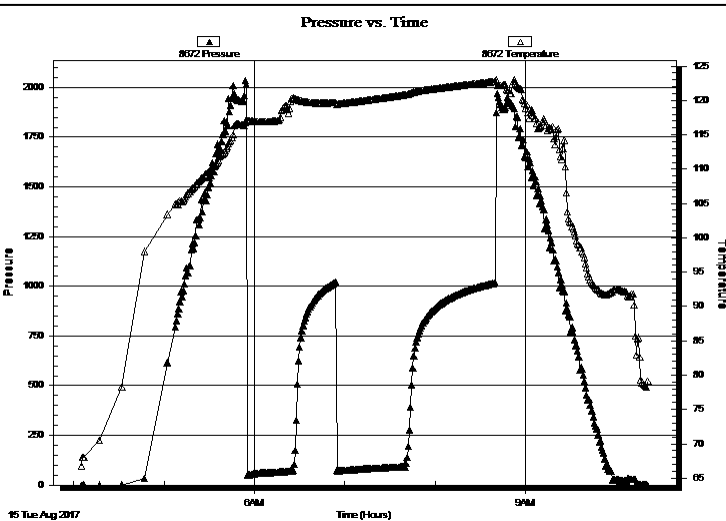
Start Time: 04:05:15

End Time: 10:21:30

Time On Btm:

Time Off Btm:

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



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
30.00	mcw with oil skim on top 30% m 70% w	0.42
64.00	w cm 16% w 84% m	0.90

## 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

**35-13s-29w Gove,KS**

6727 W Prentice Ave.  
Lakewood CO 80123

**Briggs #14A-35-1329**

Job Ticket: 63840

**DST#: 2**

ATTN: Jim Musgrove

Test Start: 2017.08.15 @ 04:05:15

## Tool Information

Drill Pipe:	Length: 4035.00 ft	Diameter: 3.80 inches	Volume: 56.60 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 56.60 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4053.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	80.00 ft			
Tool Length:	108.00 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			4026.00	
Shut In Tool	5.00			4031.00	
Hydraulic tool	5.00			4036.00	
Jars	5.00			4041.00	
Safety Joint	3.00			4044.00	
Packer	5.00			4049.00	28.00 Bottom Of Top Packer
Packer	4.00			4053.00	
Stubb	1.00			4054.00	
Perforations	4.00			4058.00	
Change Over Sub	1.00			4059.00	
Drill Pipe	63.00			4122.00	
Change Over Sub	1.00			4123.00	
Perforations	5.00			4128.00	
Recorder	0.00	8672	Inside	4128.00	
Recorder	0.00	6749	Outside	4128.00	
Bullnose	5.00			4133.00	80.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>108.00</b>				



**TRILOBITE  
TESTING, INC.**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

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

**35-13s-29w Gove,KS**  
**Briggs #14A-35-1329**  
Job Ticket: 63840      **DST#: 2**  
Test Start: 2017.08.15 @ 04:05:15

### Mud and Cushion Information

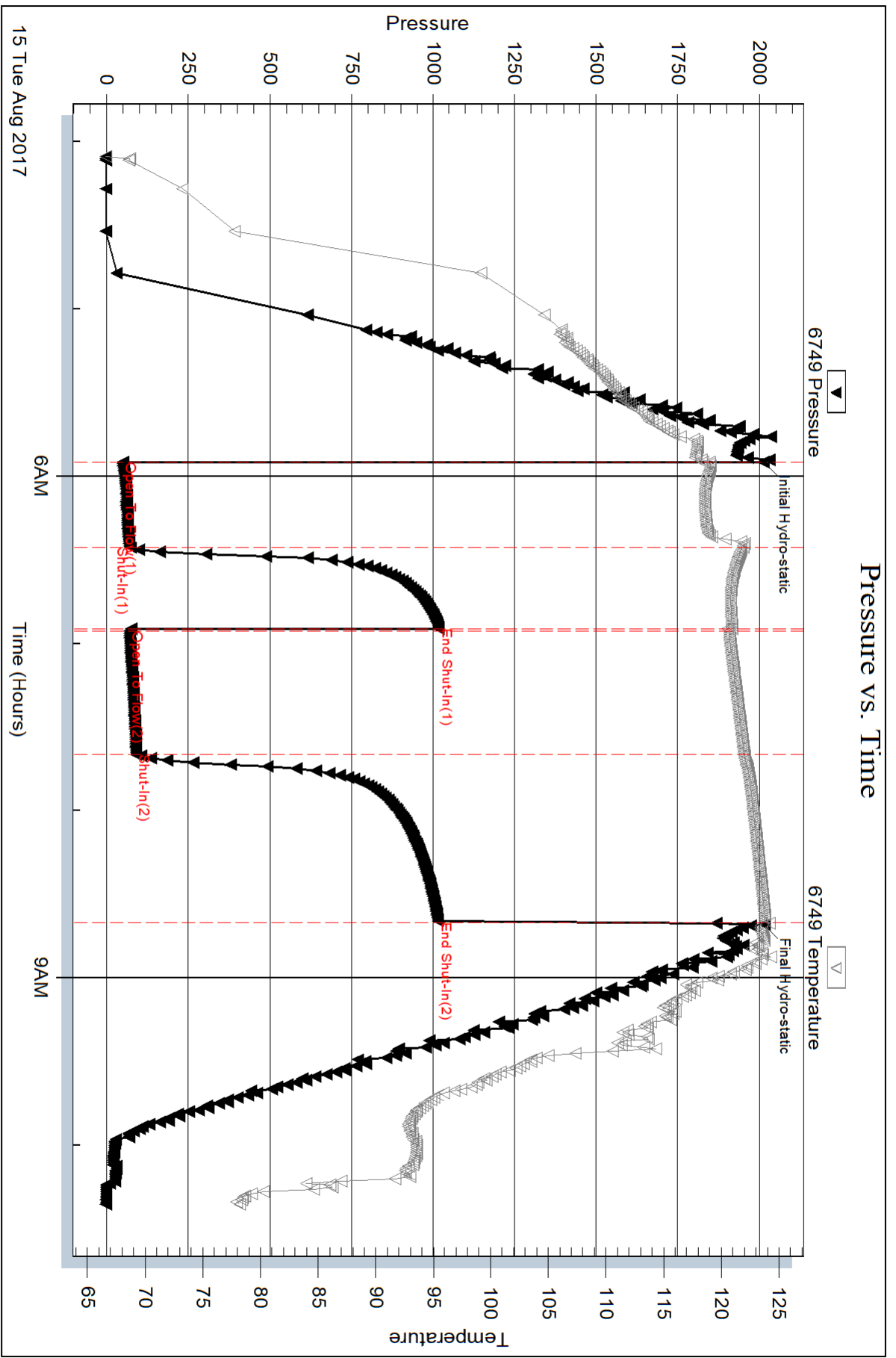
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 14000 ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.17 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 500.00 ppm		
Filter Cake: 1.00 inches		

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	mcw with oil skim on top 30%m 70%w	0.421
64.00	w cm 16%w 84%m	0.898

Total Length: 94.00 ft      Total Volume: 1.319 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: .476@ 78.2\*= 14,000 ppm



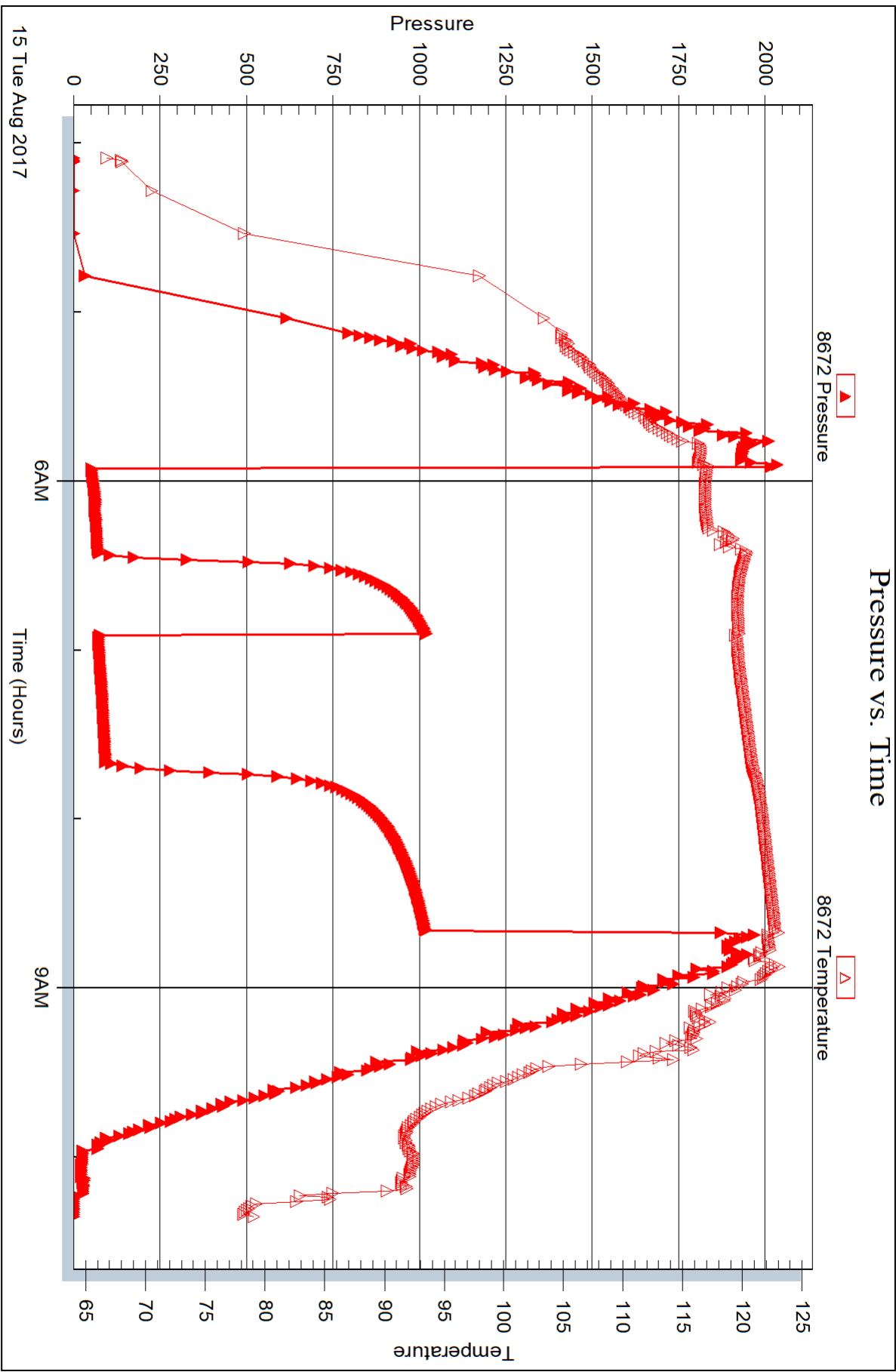
Serial #: 8672

Inside

US Oil Resources LLC

Briggs #14A-35-1329

DST Test Number: 2







## DRILL STEM TEST REPORT

Prepared For: **US Oil Resources LLC**

6727 W Prentice Ave.  
Lakewood CO 80123

ATTN: Jim Musgrove

**Briggs #14A-35-1329**

**35-13s-29w Gove,KS**

Start Date: 2017.08.16 @ 22:13:15

End Date: 2017.08.17 @ 05:20:30

Job Ticket #: 63841                      DST #: 3

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

Printed: 2017.08.18 @ 08:20:35



**TRILOBITE TESTING, INC.**

# DRILL STEM TEST REPORT

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

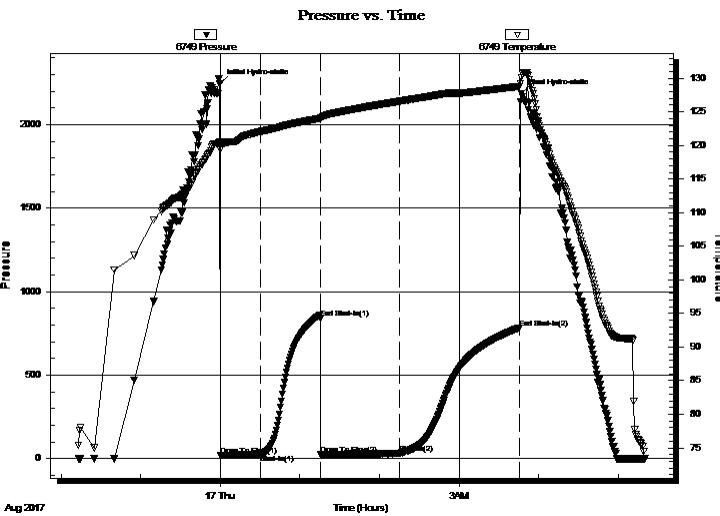
**35-13s-29w Gove,KS**  
**Briggs #14A-35-1329**  
 Job Ticket: 63841 **DST#: 3**  
 Test Start: 2017.08.16 @ 22:13:15

## GENERAL INFORMATION:

Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 05:20:30  
 Interval: **4495.00 ft (KB) To 4535.00 ft (KB) (TVD)**  
 Total Depth: 4535.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 81  
 Reference Elevations: 2971.00 ft (KB)  
 2963.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6749 Outside**  
 Press@RunDepth: 25.04 psig @ 4530.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.08.16 End Date: 2017.08.17 Last Calib.: 2017.08.17  
 Start Time: 22:13:15 End Time: 05:20:30 Time On Btm: 2017.08.16 @ 23:59:45  
 Time Off Btm: 2017.08.17 @ 03:47:00

TEST COMMENT: IF: Built to 1" blow  
 IS: No return blow  
 FF: No blow  
 FS: No return blow



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.40	120.52	Initial Hydro-static
1	17.70	119.36	Open To Flow (1)
31	25.04	122.04	Shut-In(1)
76	839.27	124.04	End Shut-In(1)
76	25.50	123.83	Open To Flow (2)
136	30.78	126.56	Shut-In(2)
226	784.45	128.80	End Shut-In(2)
228	2185.79	130.13	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	ocm 2%o 98%m	0.49

\* 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

**35-13s-29w Gove,KS**

6727 W Prentice Ave.  
Lakewood CO 80123

**Briggs #14A-35-1329**

Job Ticket: 63841

**DST#: 3**

ATTN: Jim Musgrove

Test Start: 2017.08.16 @ 22:13:15

## Tool Information

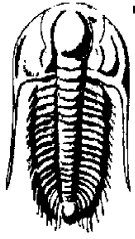
Drill Pipe:	Length: 4480.00 ft	Diameter: 3.80 inches	Volume: 62.84 bbl	Tool Weight: 1500.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 62.84 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 72000.00 lb
Depth to Top Packer:	4495.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	40.00 ft			
Tool Length:	64.00 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			4472.00	
Shut In Tool	5.00			4477.00	
Hydraulic tool	5.00			4482.00	
Jars	5.00			4487.00	
Safety Joint	3.00			4490.00	
Packer	5.00			4495.00	24.00 Bottom Of Top Packer
Packer - Shale	0.00			4495.00	
Stubb	1.00			4496.00	
Perforations	1.00			4497.00	
Change Over Sub	1.00			4498.00	
Drill Pipe	31.00			4529.00	
Change Over Sub	1.00			4530.00	
Recorder	0.00	8672	Inside	4530.00	
Recorder	0.00	6749	Outside	4530.00	
Bullnose	5.00			4535.00	40.00 Anchor Tool

**Total Tool Length: 64.00**



**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

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

**35-13s-29w Gove,KS**  
**Briggs #14A-35-1329**  
Job Ticket: 63841      **DST#: 3**  
Test Start: 2017.08.16 @ 22:13:15

**Mud and Cushion Information**

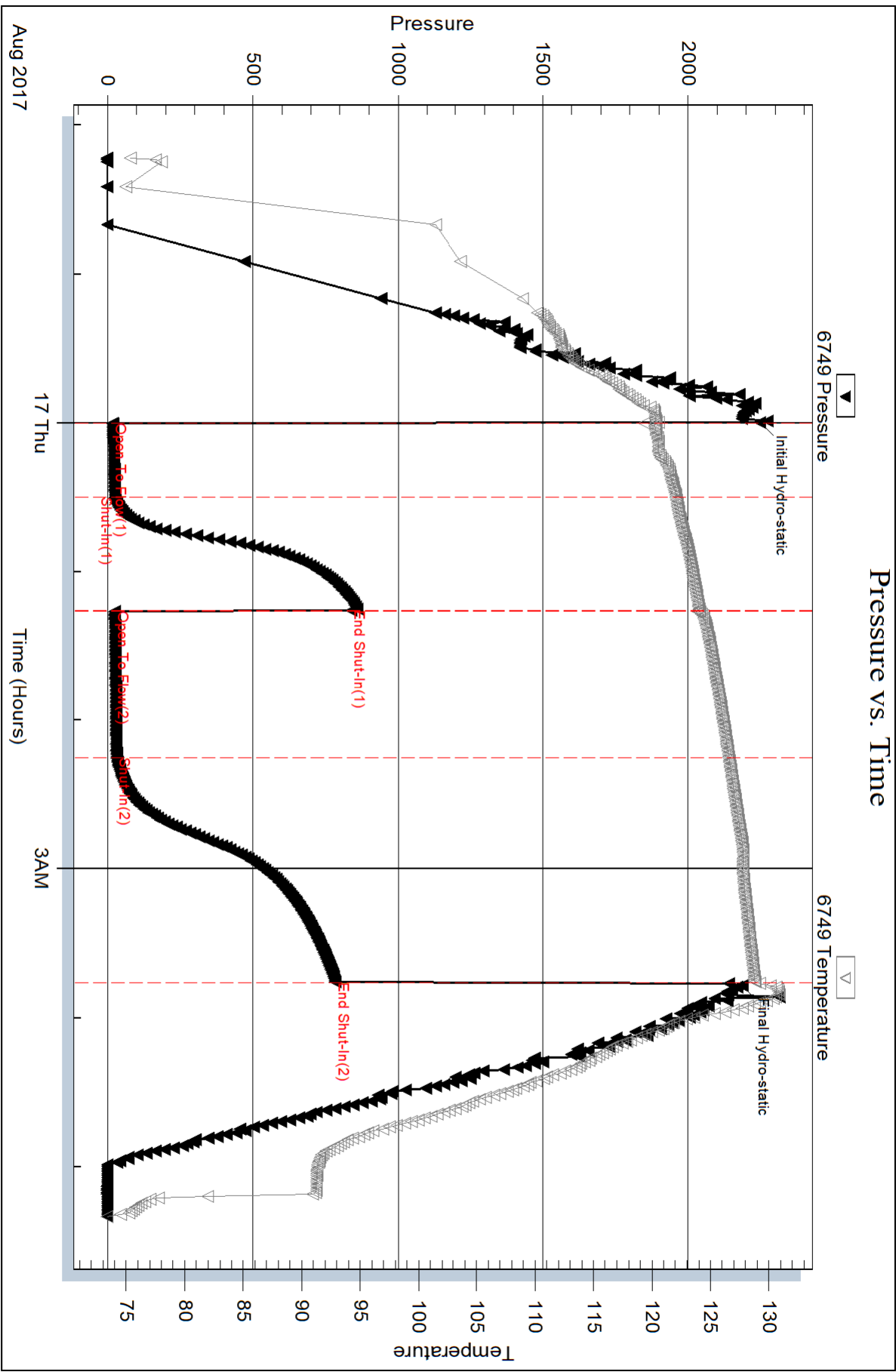
Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.97 in <sup>3</sup>	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 1500.00 ppm		
Filter Cake: 1.00 inches		

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
35.00	ocm 2%o 98%m	0.491

Total Length: 35.00 ft      Total Volume: 0.491 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



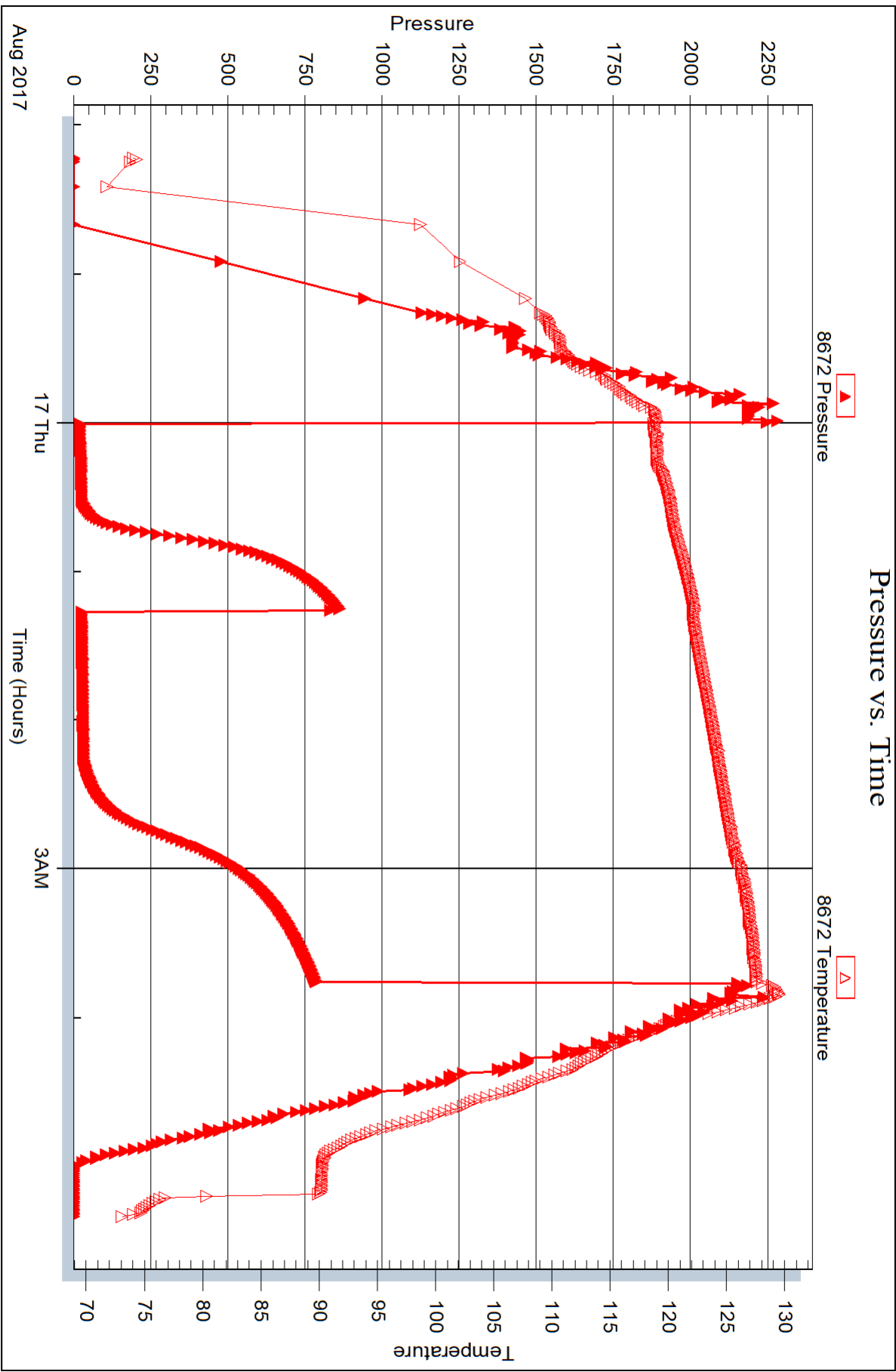
Serial #: 8672

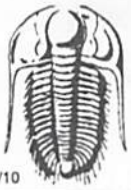
Inside

US Oil Resources LLC

Biggs #14A-35-1329

DST Test Number: 3





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **63839**

Well Name & No. Briggs #14-A-35-1329 Test No. 1 Date 8-14-17  
 Company US Oil Resources LLC Elevation ~~2963~~ 2971 KB ~~2963~~ 2963 GL  
 Address 6727 W. Prentice Ave Lakewood Co 80123  
 Co. Rep / Geo. Jim Musgrove Rig Duke 2  
 Location: Sec. 35 Twp. 13 Rge. 29 Co. Grove State KS

Interval Tested 3988-4010 Zone Tested D  
 Anchor Length 22 Drill Pipe Run 3974 Mud Wt. 8.8  
 Top Packer Depth 3983 Drill Collars Run 0 Vis 50  
 Bottom Packer Depth 3988 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4010 Chlorides 500 ppm System LCM 2  
 Blow Description IF: Built to Weak Surface Blow  
IS: No Return Blow  
FF: No Blow  
FS: No Return Blow

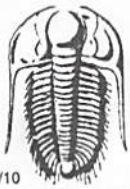
Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>MCW with oil spots</u>		<u>88</u>	<u>12</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10 BHT 123 Gravity — API RW 423 @ 93.9° F Chlorides 14000 ppm  
 (A) Initial Hydrostatic 1908  Test \$1150.00/- T-On Location 04:30  
 (B) First Initial Flow 12  Jars \$250.00/- T-Started 07:21  
 (C) First Final Flow 19  Safety Joint \_\_\_\_\_ T-Open 09:50  
 (D) Initial Shut-In 967  Circ Sub NC T-Pulled 12:05  
 (E) Second Initial Flow 20  Hourly Standby \_\_\_\_\_ T-Out 13:51  
 (F) Second Final Flow 25  Mileage 104RT = \$78.00/- Comments \_\_\_\_\_  
 (G) Final Shut-In 990  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1870  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_

Initial Open 30  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In ~~30~~ 30  Ruined Packer \_\_\_\_\_  
 Final Flow 30  Extra Copies \_\_\_\_\_  
 Final Shut-In 45 Sub Total 0  
 Total 1478  
 Sub Total \$1478.00/- MP/DST Disc't \_\_\_\_\_

Approved By Jim Musgrove Our Representative Mike Roberts  
 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. **63840**

Well Name & No. Briggs #14-A-35-1329 Test No. 2 Date 8-15-17  
 Company US Oil Resources LLC Elevation 2971 KB 2963 GL  
 Address 6727 W. Prentice Ave Lakewood Co 80123  
 Co. Rep / Geo. Jim Musgrove Rig Duke 2  
 Location: Sec. 35 Twp. 13 Rge. 29 Co. Grove State KS

Interval Tested 4053-4133 Zone Tested G-14  
 Anchor Length 80 Drill Pipe Run \_\_\_\_\_ Mud Wt. 8.9  
 Top Packer Depth 4048 Drill Collars Run 0 Vis 54  
 Bottom Packer Depth 4053 Wt. Pipe Run 0 WL 7.2  
 Total Depth 4133 Chlorides 500 ppm System LCM 2  
 Blow Description IF: Built to 2 1/4" Blow  
IS: NO Return Blow  
FF: Built to 1/4" Blow  
FS: NO Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>30</u>	<u>mcw oil skim</u>		<u>70</u>	<u>30</u>	
<u>64</u>	<u>wcm</u>		<u>10</u>	<u>84</u>	
____	____	____	____	____	____
____	____	____	____	____	____
____	____	____	____	____	____

Rec Total 94 BHT 124 Gravity — API RW 476 @ 78.7 °F Chlorides 14000 ppm  
 (A) Initial Hydrostatic 2011  Test A 1100.00/- T-On Location 03:30  
 (B) First Initial Flow 50  Jars B 250.00/- T-Started 04:05  
 (C) First Final Flow 72  Safety Joint \_\_\_\_\_ T-Open 05:55  
 (D) Initial Shut-In 1018  Circ Sub NC T-Pulled 08:40  
 (E) Second Initial Flow 70  Hourly Standby \_\_\_\_\_ T-Out 10:21  
 (F) Second Final Flow 90  Mileage 104 RT = \$78.00/- Comments \_\_\_\_\_  
 (G) Final Shut-In 1015  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 2013  Straddle \_\_\_\_\_  
 Initial Open 30  Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Extra Packer \_\_\_\_\_  
 Final Flow 45  Extra Recorder \_\_\_\_\_  
 Final Shut-In 60  Day Standby \_\_\_\_\_  
 Sub Total A 1478.00/-  Accessibility \_\_\_\_\_  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Copies \_\_\_\_\_  
 Sub Total 0  
 Total 1478  
 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Mike Roberts  
 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. **63841**

Well Name & No. Briggs #14-A-35-B29 Test No. 3 Date 8-16-17  
 Company US ORO Resources LLC Elevation 2971 KB 2963 GL  
 Address 6227 W Prentice Ave Lakewood Co 80123  
 Co. Rep / Geo. Jim Mergrove Rig Duke 2  
 Location: Sec. 35 Twp. 13 Rge. 29 Co. Grove State KS

Interval Tested 4495-4535 Zone Tested Miss  
 Anchor Length 40 Drill Pipe Run 4480 Mud Wt. 9.2  
 Top Packer Depth 4490 Drill Collars Run Ø Vis 55  
 Bottom Packer Depth 4495 Wt. Pipe Run Ø WL 8  
 Total Depth 4535 Chlorides 1500 ppm System LCM 3  
 Blow Description IF: Built to 1" Blow  
IS: No Return Blow  
FF: No Blow  
FS: No Return Blow

Rec	Feet of	%gas	%oil	%water	%mud
<u>35</u>	<u>OCM</u>	<u>2</u>		<u>98</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 35 BHT 129  
 (A) Initial Hydrostatic 2247  
 (B) First Initial Flow 17  
 (C) First Final Flow 25  
 (D) Initial Shut-In 839  
 (E) Second Initial Flow 25  
 (F) Second Final Flow 30  
 (G) Final Shut-In 784  
 (H) Final Hydrostatic 2185  
 Initial Open 30  
 Initial Shut-In 45  
 Final Flow 60  
 Final Shut-In 90

Gravity — API RW — @ — °F Chlorides — ppm  
 Test \$1150.00/-  
 Jars \$250.00/-  
 Safety Joint \$75.00/-  
 Circ Sub NC  
 Hourly Standby  
 Mileage  
 Sampler  
 Straddle  
 Shale Packer \$250.00/-  
 Extra Packer  
 Extra Recorder  
 Day Standby  
 Accessibility  
 Sub Total \$1728.00/-  
 T-On Location 20:30  
 T-Started 22:13  
 T-Open 12:00  
 T-Pulled 03:45  
 T-Out 05:20  
 Comments  
 Ruined Shale Packer  
 Ruined Packer  
 Extra Copies  
 Sub Total 0  
 Total 1728  
 MP/DST Disc't

Approved By \_\_\_\_\_ Our Representative Mike Roberts

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.





TICKET 30752

PAGE 1 OF 1

CHARGE TO: U.S. Oil Resources L.L.C.  
 ADDRESS:  
 CITY, STATE, ZIP CODE:

WELL PROJECT NO. #14A-35-B2A  
 CONTRACTOR Briggs  
 COUNTY/PARISH Gove  
 STATE KS  
 CITY Gove  
 DATE 8-18-17  
 OWNER Same

TICKET TYPE  
 SERVICE  
 SALES  
 WELL TYPE Oil  
 RIG NAME/NO. #2  
 SHIPPED VIA CT  
 DELIVERED TO Location  
 ORDER NO.  
 WELL LOCATION Gove 15-75, log by W/E

LEASE  
 WELL CATEGORY Development  
 JOB PURPOSE PTA  
 WELL PERMIT NO.

INVOICE INSTRUCTIONS

PRICE REFERENCE	SECONDARY REFERENCE/PART NUMBER	ACCOUNTING		DESCRIPTION	QTY.	U/M	QTY.	U/M	UNIT PRICE	AMOUNT
		LOC	ACCT							
575		1					50	mi.	5.00	250.00
576 P		1		MILEAGE			1	job	800.00	800.00
328-4		1		Pump Charge - PTA			255	hrs	10.25	2613.75
276		1		60/40 Pozomix (4% Sol)			50	lb	2.25	112.50
290		1		Floack			3	gal	42.00	126.00
410		1		D-Air			1	can	120.00	120.00
				Top Plug						
581		1		Service Charge Cement			255	hrs	1.50	382.50
583		1		Drillage			21429	lb	00.15	402.00

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

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

X *David Kuehn* TIME SIGNED 8-18-17 11:15  
 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?  
 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

PAGE TOTAL 4806.75

TOTAL 4806.75

CUSTOMER DID NOT WISH TO RESPOND

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

SWIFT OPERATOR *David Kuehn* APPROVAL

Thank You!



JOB LOG

SWIFT Services, Inc.

DATE 8-18-17 PAGE NO. 1

CUSTOMER U.S. Oil Resources WELL NO. 14A-35-1324 LEASE Briggs JOB TYPE PTA TICKET NO. # 30752

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	0530							on location DP- 4 1/2"
								RTD- 4675' LTD- 4673'
								255 sks 60/40 Pozmix 4% Gel 1/4" Flo
	0750	4 1/2	13		✓	200		mix 50 sks @ 2270'
		8	29		✓	100		Displace Cement w/ Mud
	0845	4 1/2	26		✓	150		mix 100 sks @ 1270'
		4 1/2	12		✓	100		Displace Cement
	0940	4 1/2	13		✓	100		mix 50 sks @ 310'
		4 1/2	1.2		✓	100		Displace Cement
	1045	2	2 1/2		✓			mix 10 sks @ 410'
	1055		8					Plug Rit - 30 sks
			4					Plug MH - 15 sks
	1100							well Plugged
								wash up truck *255 total sks*
	1130							Job Complete

Thank You  
Dave Preston Kirby



# Musgrove

Petroleum Geology  
212 Main Street, Claflin KS

## NOTES

Company: US Oil Resources, LLC.

Lease: Briggs # 14A-35-1329

Field: Hoffsmith

Location: NW-NE-SE-SW ( 1266' FSL & 2192' FWL)

Sec: 35 Twsp: 13S Rge: 29W

County: Gove State: Kansas

GL: 2791' KB: 2799'

Contractor: Duke Drilling, Inc. (Rig #2)

Spud: 08/09/2017 Comp: 08/18/2017

RTD: 4675' LTD: 4672'

Mud Up: 3500' Type Mud: Chemical

API #: 15-063-22313-00-00

Surface Casing: 8 5/8" @250'

Production Casing: None

Electronic Surveys by: Weatherford: MAI/MFE/CPD/CNM

Formation Testing: Trilobite Testing

Samples Saved From: 3600' to RTD

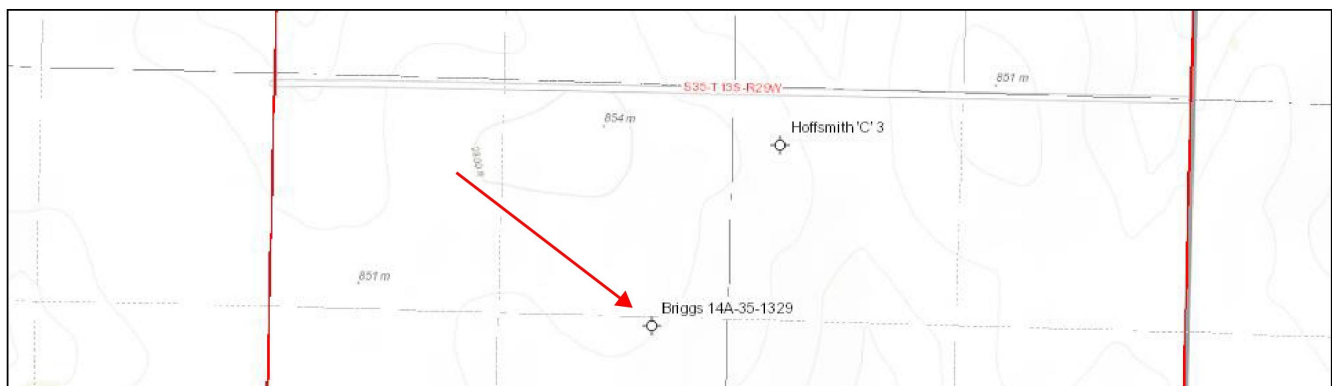
Drilling Time Kept From: 3600' to RTD

Samples Examined From: 3600' to RTD

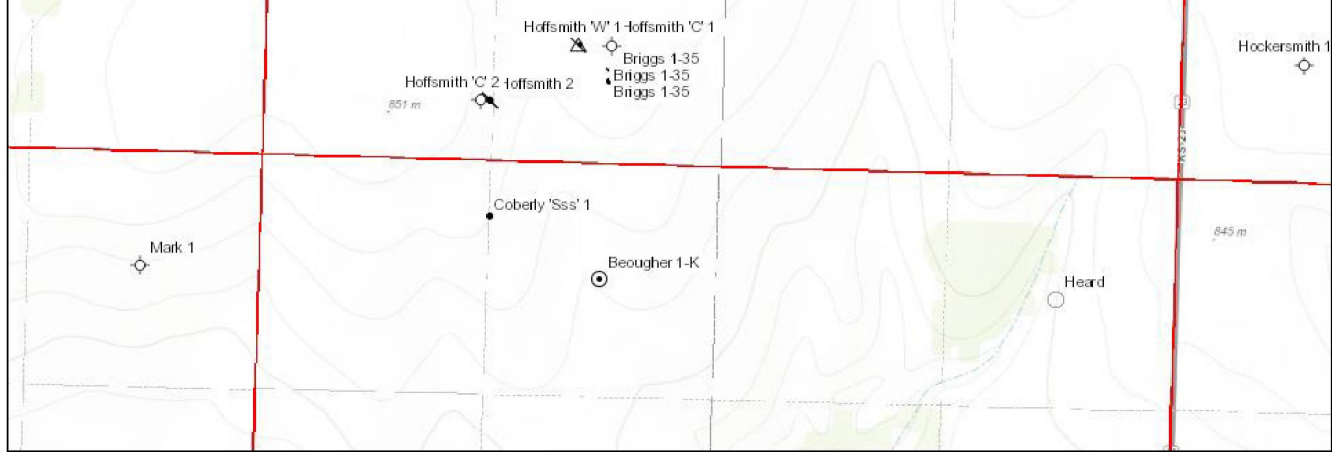
Geological Supervision from: 3600' to RTD

Geologist on Well: Jim Musgrove

## US OIL RESOURCES- BRIGGS 14-A-35-1329

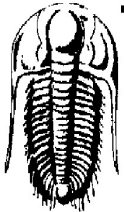






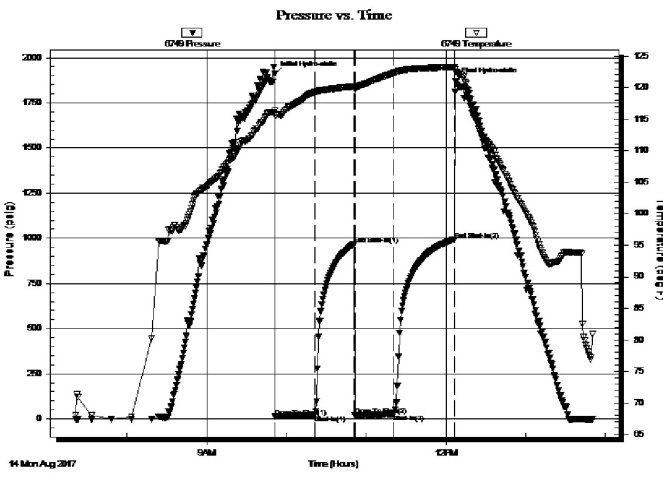
## US Oil Resources, LLC well comparison sheet

DRILLING WELL					COMPARISON WELL				COMPARISON WELL			
US Oil-Briggs 14-A-35-1329					ARRINGTON CJM-#1-35 BRIGGS				DONALD SLAWSON-#3 HOFFSMITH C			
NE-SE-SW 35-13S-29W					N2-S2-SE-SW 35-13S-29W				NW-NW-SE 35-13S-29W			
2799 KB					2795 KB				2793 KB			
					Structural Relationship				Structural Relationship			
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Anhydrite			2256	543	2250	545		-2	2257	536		7
B. Anhydrite			2289	510	2284	511		-1	2291	502		8
Heebner	3883	-1084	3880	-1081	3876	-1081	-3	0	3885	-1092	8	11
Toronto	3904	-1105	3901	-1102	3900	-1105	0	3	3904	-1111	6	9
Lansing	3918	-1119	3916	-1117	3913	-1118	-1	1	3923	-1130	11	13
Muncie Creek	4065	-1266	4062	-1263					4069	-1276	10	13
Stark	4158	-1359	4154	-1355	4152	-1357	-2	2	4156	-1363	4	8
Hushpuckney	4193	-1394	4187	-1388					4190	-1397	3	9
BKC	4219	-1420	4218	-1419	4215	-1420	0	1	4220	-1427	7	8
Marmaton	4248	-1449	4246	-1447	4246	-1451	2	4				
Pawnee	4326	-1527	4327	-1528	4323	-1528	1	0				
Myrick Station	4375	-1576	4374	-1575					4382	-1589	13	14
Fort Scott	4411	-1612	4408	-1609	4410	-1615	3	6	4411	-1618	6	9
Cherokee Shale	4434	-1635	4438	-1639	4442	-1647	12	8	4438	-1645	10	6
Miss. Spergen	4517	-1718	4518	-1719					4514	-1721	3	2
Miss. Warsaw	4571	-1772	4567	-1768								
Miss. Osage	4596	-1797	4592	-1793								
RTD	4675	-1876	4675	-1876	4494	-1699	-177	-177	4620	-1827	-49	-49
LTD	4672	-1873	4672	-1873	4470	-1675	-198	-198	4623	-1830	-43	-43

 <b>TRILOBITE TESTING, INC.</b>	<b>DRILL STEM TEST REPORT</b>	
	US Oil Resources LLC 6727 W. Prentice Ave. Lakewood Co. 80123 ATTN: Jim Musgrove	35-13-29 Gove Co KS Briggs #14-A-35-1329 Job Ticket: 63839      DST#: 1 Test Start: 2017.08.14 @ 07:21:15
<b>GENERAL INFORMATION:</b>		
Formation: <b>D</b> Deviated: No Whipstock:      ft (KB) Time Tool Opened: 09:51:15 Time Test Ended: 13:51:00	Test Type: Conventional Bottom Hole (Initial) Tester: Mike Roberts Unit No: 81	
Interval: <b>3988.00 ft (KB) To 4010.00 ft (KB) (TVD)</b> Total Depth: 4010.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Reference Elevations: 2971.00 ft (KB) 2963.00 ft (CF) KB to GR/CF: 8.00 ft	
<b>Serial #: 6749      Outside</b> Press@RunDepth: 25.53 psig @ 3989.00 ft (KB) Start Date: 2017.08.14      End Date: 2017.08.14	Capacity: 8000.00 psig Last Calib.: 2017.08.14	

Start Time: 07:21:15 End Time: 13:51:00 Time On Btm: 2017.08.14 @ 09:51:00  
 Time Off Btm: 2017.08.14 @ 12:07:30

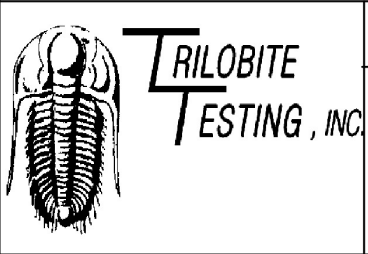
TEST COMMENT: IF:Built to weak surface blow  
 IS:No return blow  
 FF:No blow  
 FS:No return blow



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.56	116.32	Initial Hydro-static
1	12.99	115.71	Open To Flow (1)
30	19.27	119.30	Shut-In(1)
60	967.15	120.16	End Shut-In(1)
61	20.56	119.79	Open To Flow (2)
90	25.53	122.31	Shut-In(2)
136	990.25	123.25	End Shut-In(2)
137	1870.34	122.54	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	mcw With oil spots 12 %m 88%w	0.14

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

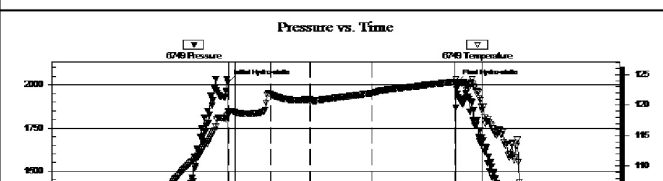


**DRILL STEM TEST REPORT**  
 US Oil Resources LLC **35-13-29 Gove Co KS**  
 6727 W. Prentice Ave. **Briggs #14-A-35-1329**  
 Lakewood Co. 80123 **Job Ticket: 63840 DST#: 2**  
 ATTN: Jim Musgrove **Test Start: 2017.08.15 @ 04:05:15**

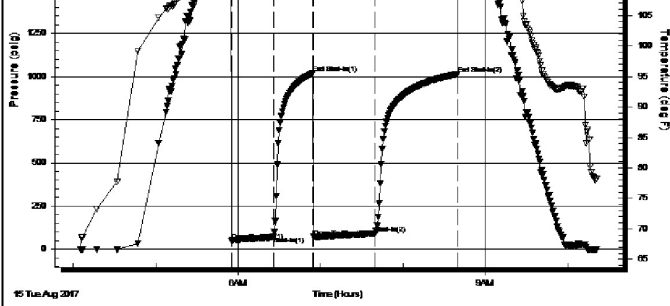
**GENERAL INFORMATION:**  
 Formation: **G-H**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 05:55:00  
 Time Test Ended: 10:21:30  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 81  
 Interval: **4053.00 ft (KB) To 4133.00 ft (KB) (TVD)**  
 Total Depth: 4133.00 ft (KB) (TVD)  
 Reference Elevations: 2971.00 ft (KB)  
 2963.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 8.00 ft

**Serial #: 6749 Outside**  
 Press@RunDepth: 90.88 psig @ 4128.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2017.08.15 End Date: 2017.08.15 Last Calib.: 2017.08.15  
 Start Time: 04:05:15 End Time: 10:21:30 Time On Btm: 2017.08.15 @ 05:54:45  
 Time Off Btm: 2017.08.15 @ 08:41:00

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



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2011.75	118.98	Initial Hydro-static
1	50.00	118.42	Open To Flow (1)
31	72.81	121.88	Shut-In(1)



60	1018.59	120.94	End Shut-In(1)
61	70.87	120.71	Open To Flow (2)
105	90.88	121.97	Shut-In(2)
166	1015.03	123.81	End Shut-In(2)
167	2013.70	123.81	Final Hydro-static

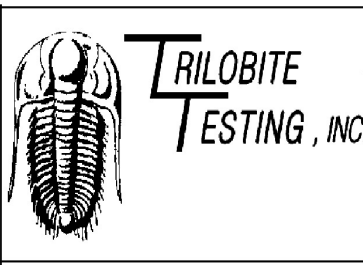
**Recovery**

Length (ft)	Description	Volume (bbl)
30.00	mcw with oil skim on top 30% m 70% w	0.42
64.00	w cm 16% w 84% m	0.90

\* Recovery from multiple tests

**Gas Rates**

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



**DRILL STEM TEST REPORT**

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

**35-13s-29w Gove,KS**  
**Briggs #14A-35-1329**  
 Job Ticket: 63841      **DST#: 3**  
 Test Start: 2017.08.16 @ 22:13:15

**GENERAL INFORMATION:**

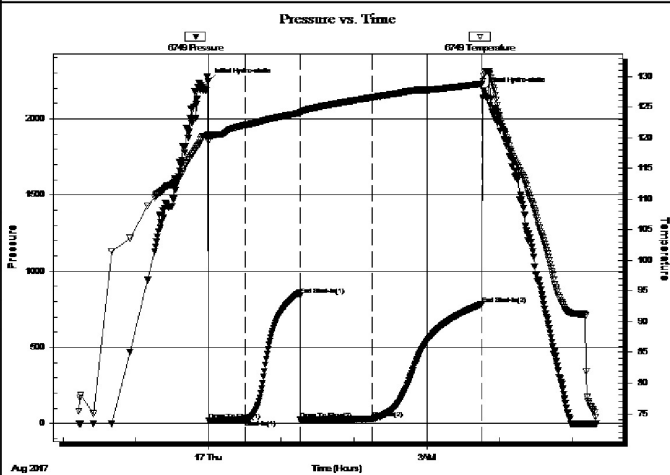
Formation: **Miss**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 00:00:00  
 Time Test Ended: 05:20:30  
 Interval: **4495.00 ft (KB) To 4535.00 ft (KB) (TVD)**  
 Total Depth: 4535.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Mike Roberts  
 Unit No: 81  
 Reference Elevations: 2971.00 ft (KB)  
 2963.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 6749**

**Outside**

Press@RunDepth: 25.04 psig @ 4530.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2017.08.16      End Date: 2017.08.17      Last Calib.: 2017.08.17  
 Start Time: 22:13:15      End Time: 05:20:30      Time On Btm: 2017.08.16 @ 23:59:45  
 Time Off Btm: 2017.08.17 @ 03:47:00

TEST COMMENT: IF: Built to 1" blow  
 IS: No return blow  
 FF: No blow  
 FS: No return blow



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2247.40	120.52	Initial Hydro-static
1	17.70	119.36	Open To Flow (1)
31	25.04	122.04	Shut-In(1)
76	839.27	124.04	End Shut-In(1)
76	25.50	123.83	Open To Flow (2)
136	30.78	126.56	Shut-In(2)
226	784.45	128.80	End Shut-In(2)
228	2185.79	130.13	Final Hydro-static

**Recovery**

**Gas Rates**

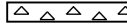









Length (ft)	Description	Volume (bbl)
35.00	ocm 2% o 98% m	0.49

\* Recovery from multiple tests

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

### ROCK TYPES

 Cht	 Lmst fw<7	 shale, gry	 shale, red
 Dolprim	 shale, grn	 Carbon Sh	 Ss

### OTHER SYMBOLS

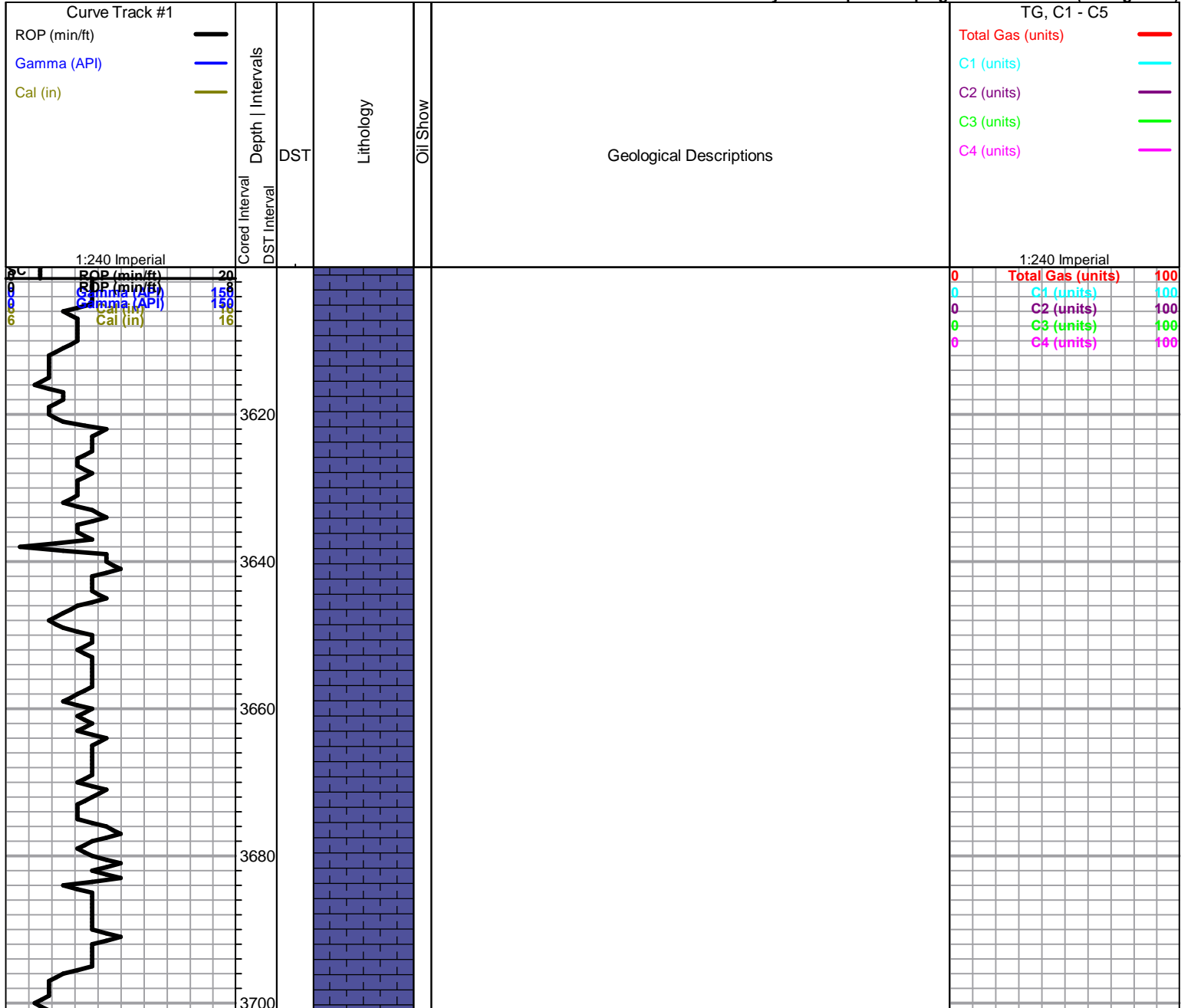
#### Oil Show

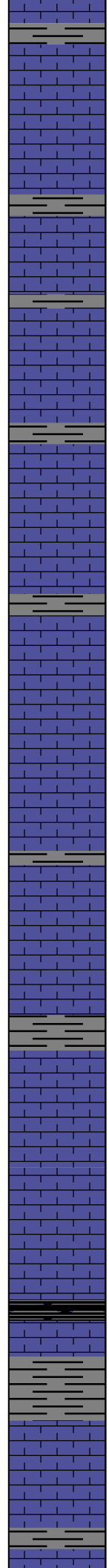
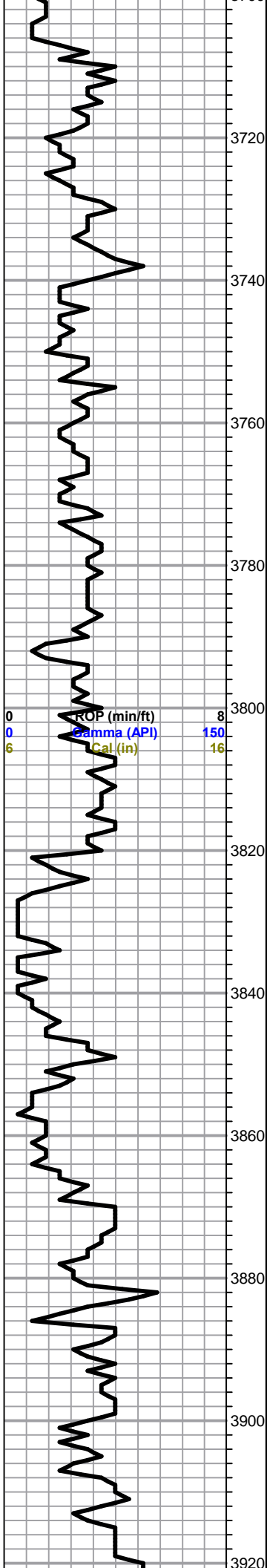
- Good Show
- Fair Show
- Poor Show
- Spotted or Trace
- Questionable Stn
- D Dead Oil Stn
- Fluorescence
- \* Gas

#### DST

-  DST Int
-  DST alt
-  Core
-  tail pipe

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





LS, tan, gry, slightly cherty, poor visible porosity, no shows

LS, white, fxl, suc. few dolomitic in pt no shows

LS, a/a, white, gry, fxl, chalky, LS, few white, fine vuggy type porosity, no shows

LS, a/a, chalky, cherty

ditto a/a, tr. tan, opaque cherts

LS, gry, foss/ool, chalky, oom, fair visible porosity, no shows, ( vuggy/ few oom)

LS, a/a, chalky

Tr. gry cherts

**Heebner 3883.0 (-1084.0)**

Sh. black carb shale

**Toronto 3904.0 (-1105.0)**

LS, gry, white, fxl, chalky, in pt, cherty, white, tan, foss, opaque cherts

**Lansing 3918.0 (-1119.0)**

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

Lansing 3976.0 (-1176.0)

LS, gry, white, fxl, ool, tr. gry cherts

LS, gry, buff, fxl, finely ool, chalky, poor visible porosity, tr. gry, white, cherts

Sh, gry, greenish

LS, gry, tan, ool, dense, poorly developed porosity

○ LS, white, gry, fxl, foss, chalky, tr. brn stain, tr. fo, ft, odor

○ LS, white, gry, a/a, fair p.p. porosity, brn stain, tr. fo, ft/fair odor, tr. clear calcite inclusions

LS, tan, gry, ool, chalky, tr. gry, white, opaque cherts

LS, gry, white, ool, oom, scattered oom porosity, plus white, ool, opaque cherts.  
tr. LS, white, & white, opaque, ool cherts

○ LS, gry, tan, ool, foss, poor/fair visible porosity, spty stain, tr. fo, odor in broken samples

LS, tan, cherty in pts (dense) no shows,

Muncie Creek 4065.0 (-1266.0)

Sh, black carb

○ LS, tan, fxl, scattered inxln porosity, chalky, poor stain, wk sfo, no odor

○ LS, tan, sub oom, chalky, poor golden brown stain, sfo, no odor

Tr. black carb sh

○ LS, white, fxl, fr-vuggy porsity, fair golden brown stain, scattered oom vuggy porosity, tr. fo, ??? odor

○ LS, tan, fxl, few med xln, foss, fair vuggy porosity, brn, dark brn stain, tr. fo, no odor

DST#1 3988-4010

30-60-90-130

1st Open:  
Weak surface blow

2nd Open:  
Dead

Recovery:  
10' mud

Pressures:  
ISIP 967 psi  
FSIP 990 psi  
IFP 12-19 psi  
FFP 20-25 psi  
HSH 1908-1870 psi

DST#2 4053-4133

30-30-45-60

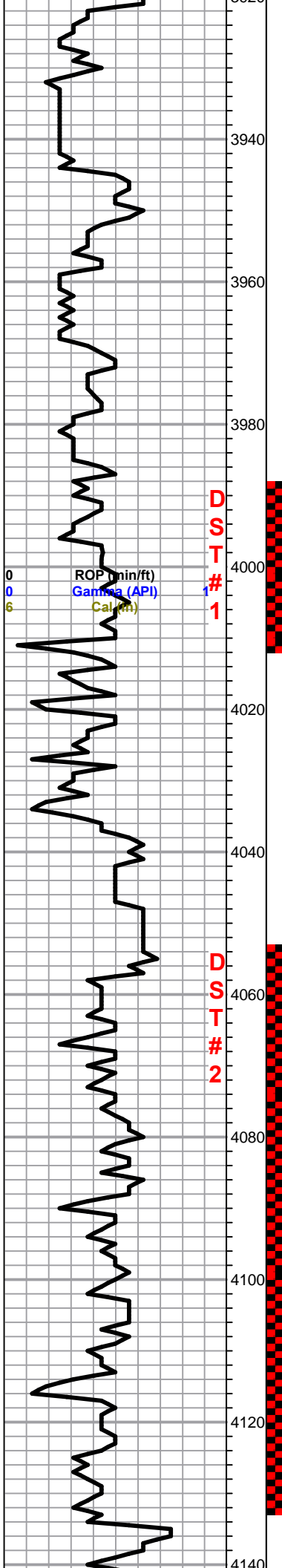
1st Open:  
Weak build 2.5"

2nd Open:  
Weak build 1/4"

Recovery:  
30' MCW w/ oil skim  
(30%M, 70%W)

64' WCM  
(16%W, 84%M)

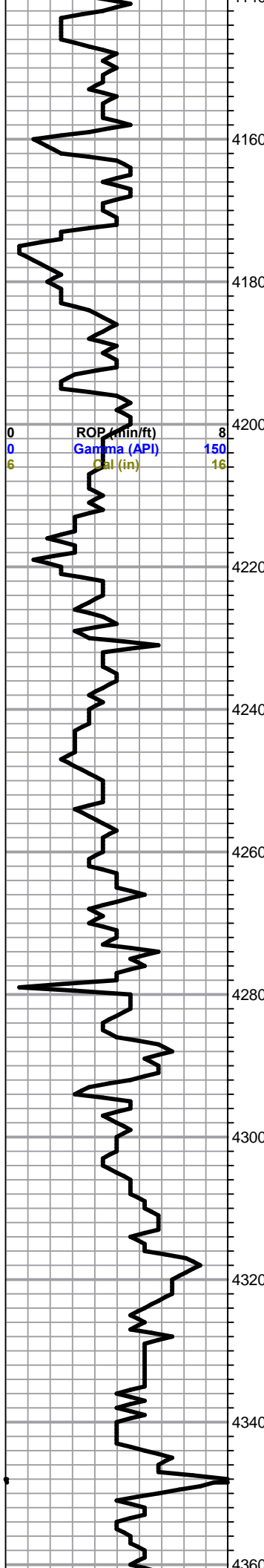
Pressures:  
ISIP 1018 psi  
FSIP 1015 psi  
IFP 50-72 psi  
FFP 70-90 psi  
HSH 2011-2013 psi



ROP (min/ft)  
Gamma (API)  
Cal (ppm)

D  
S  
T  
#  
1

D  
S  
T  
#  
2



0 ROP (min/ft) 8  
 0 Gamma (API) 150  
 6 Cal (in) 16

LS, white, gry, foss, chalky, poor visible porosity, tr. gry/ brn, spotty stain, tr. fo, no odor

**Stark 4158.0 (-1394.0)**

Sh, black carb

○ LS, tan, finely foss, scattered porosity, fine vuggy p.p. porosity, brown stain, sfo, odor

**Hushpuckney 4193.0 (-1394.0)**

Sh, black carb

LS, gry, white, fxl, chalky, foss in pt, + white chalk

**Base Kansas City 4219.0 (-1420.0)**

Sh, black carb

LS, white, gry, sandy, + gry, soft sh, + gry, vfg, cal, sand & gry sandy sh.

**Marmaton 4248.0 (-1449.0)**

○ LS, gry, tan, chalky, few cherty, tr. brn stain, nsfo, no odor

Slug maroon, soft shale, tr. gry black shale

a/a

LS, white, gry, chalky, dense

LS, tan, fxl, few med xln, foss, dense

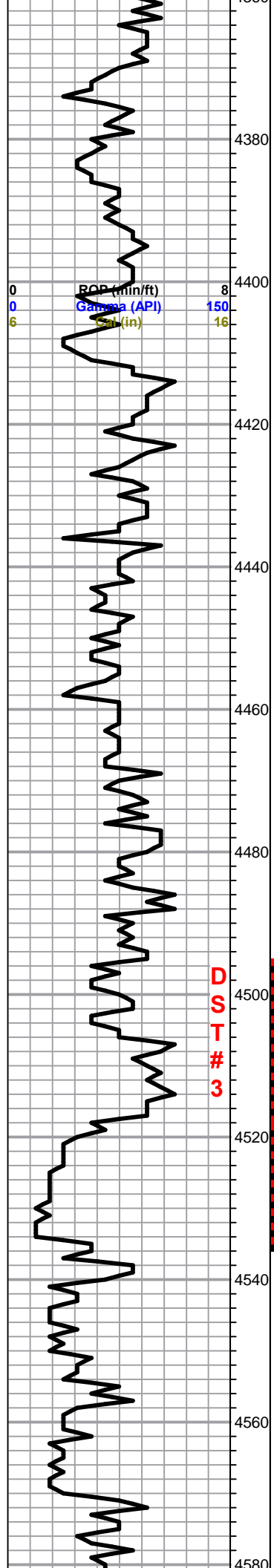
**Pawnee 4326.0 (-1529.0)**

LS, gry, white, chalky, + gry chert, tr. orange chert

LS, brn, gry, fxl, gran. chalky, no shows

LS, gry, dk gry, argill., "shaley"

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



**Myrick Station (US Oil) 4370.0 (-1571.0)**

Sh, black carb

**Myrick Station 4375.0 (-1576.0)**

○ LS, dk gry, brown, oom, brn stain, nsfo, no odor

LS, white, fxl, chalky in pts, no shows

**Ft. Scott (US Oil) 4401.0 (-1602.0)**

Slug black carb shale

**Ft. Scott 4411.0 (-1612.0)**

○ LS, white, cream, ool, chalky, poor visible porosity, tr. spty stain, nsfo, no odor

LS, tan, brown, dense, + gry, dk ool cherts

**Cherokee Shale 4434.0 (-1635.0)**

Sh, black carb

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

Sh, black carb, gry

LS, tan, gry, chalky, no shows

Sh, black carb, tr. pyrite

LS, gry, tan, chalky-cherty in pts

LS, a/a, few ool, no shows

Sh, gry, green,  
Tr. LS, gry, tan, tr. orange cherts

Sh, v.c. / v.c. chalky LS

Tr. sd. white, vfg, sub rounded, few glauc., cal. in pts, no shows

**Mississippian 4517.0 (-1718.0)**

○ Dol, tan, fxl, suc. cherty in pts, poor visible porosity, vuggy in pt, poor brn stain, tr. fo, no odor

○ Dol. a/a, increasing porsity, fair brn stain, sfo, no odor

○ Dol. tan, suc. slightly cherty, poorly developed, few vuggy porosity, brown stain, tr. fo, no odor

Dol white. oom, fxl, suc. poor visible porosity, no shows

Dol, white, fxl, suc. poor visible porosity, no shows

**Warsaw 4571.0 (-1712.0)**

LS, white, dolomitic, + white, gry, suc. dolomite, tr. white cherts

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

**DST#3 4495-4535**

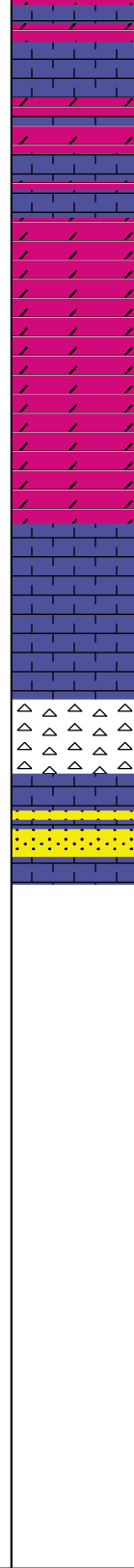
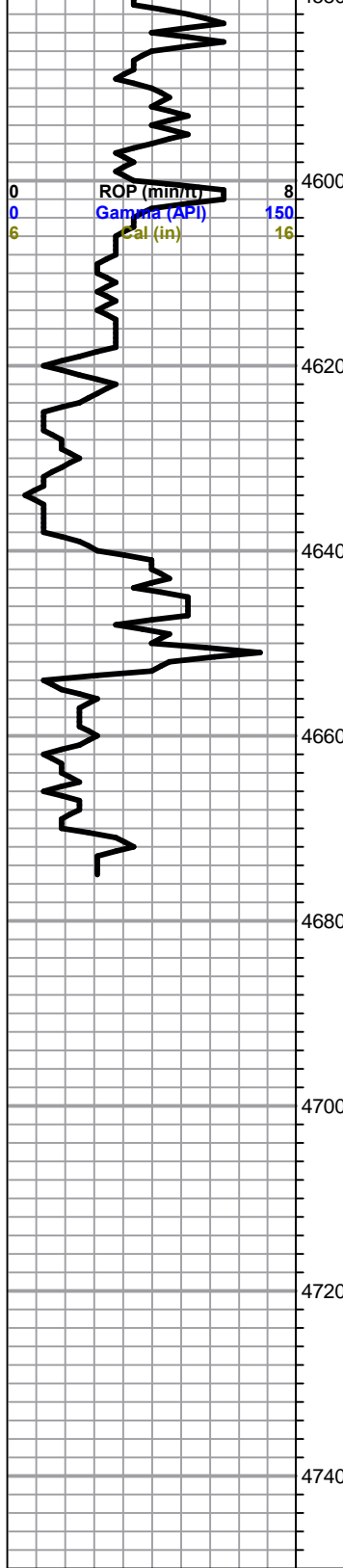
30-45-60-90

1st Open:  
Weak 1" build

2nd Open:  
No blow

Recovery:  
35' OCM  
(2%O, 98%M)

Pressures:  
ISIP 839 psi  
FSIP 784 psi  
IFP 17-25 psi  
FFP 25-30 psi  
HSH 2247-2185 psi



white cherts

LS, gry, foss, chalky in pts, tr. white chert

LS, gry, foss, dolomitic in pts, no shows  
Tr. gry, boney foss, opaque cherts

Slug white, boney cherts, + white, gry, foss, cherts

Dol. cream, white, suc. few chalky clusters

LS, gry, highly ool,  
LS, tan, fxl, chalky, cherty (dense) no shows

Chert, white, gry, trans, opaque

Tr. sd. white, clean vfg, friable in pt, no shows

**RTD 4675.0 (-1876.0)**

**LTD 4672.0 (-1873.0)**

0	<b>Total Gas (units)</b>	<b>100</b>
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100