

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

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

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

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

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

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

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

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

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

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

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

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

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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	JEL Resources, LLC
Well Name	BETTY HULLMAN ESTATE 2-9
Doc ID	1649098

All Electric Logs Run

CNDL
DIL
MEL
DT



**OPERATOR**

Company: JEL RESOURCES, LLC  
 Address: 6545 SOUTH RIVERIA WAY  
 AURORA, CO 80016

Contact Geologist: MICHAEL S. CONNELLY  
 Contact Phone Nbr: (303) 981-3461  
 Well Name: BETTY HULLMAN ESTATE #2-9  
 Location: S2 NW NW NW Sec. 9 - 22W - 13W  
 API: 15-185-24108  
 Pool:  
 State: Kansas

Field: BESTHORN  
 Country: USA

Scale 1:240 Imperial

Well Name: BETTY HULLMAN ESTATE #2-9  
 Surface Location: S2 NW NW NW Sec. 9 - 22W - 13W  
 Bottom Location:  
 API: 15-185-24108  
 License Number: 35528  
 Spud Date: 5/9/2022 Time: 3:00 PM  
 Region: STAFFORD COUNTY KANSAS  
 Drilling Completed: 5/17/2022 Time: 2:20 AM  
 Surface Coordinates: 390' FNL & 330' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 1899.00ft  
 K.B. Elevation: 1907.00ft  
 Logged Interval: 2750.00ft To: 3880.00ft  
 Total Depth: 3880.00ft  
 Formation: LANSING - KANSAS CITY; VIOLA; ARBUCKLE  
 Drilling Fluid Type: Chemical/Fresh Water Gel

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: -98.764998  
 Latitude: 38.158336  
 N/S Co-ord: 390' FNL  
 E/W Co-ord: 330' FWL

**LOGGED BY**

Company: BIG CREEK CONSULTING, INC  
 Address: 3504 DUNCAN ST  
 ST. JOE, MO 64507

Phone Nbr: (785) 259-3737  
 Logged By: Geologist

Name: JEFF LAWLER

**CONTRACTOR**

Contractor: DISCOVERY DRILLING  
 Rig #: 2  
 Rig Type: MUD ROTARY  
 Spud Date: 5/9/2022 Time: 3:00 PM  
 TD Date: 5/17/2022 Time: 2:20 AM  
 Rig Release: 5/17/2022 Time: 9:30 PM

### ELEVATIONS

K.B. Elevation: 1907.00ft  
K.B. to Ground: 8.00ft

Ground Elevation: 1899.00ft

### NOTES


DUE TO ECONOMICAL RECOVERY ON DST #4 DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING TO FURTHER EVALUATE ZONES OF INTEREST. THERE IS A 2' UPHOLE CORRECTION TO CORRELATE DRILL TIME TO POROSITY LOG

RESPECTFULLY SUBMITTED,  
JEFF LAWLER

### WELL COMPARISON SHEET

FORMATION	BETTY HULLMAN ESTATE #2-9				SE NW NE NW 9-22-13				P&A 10/1978				H				CHARTER ENERGY			
	BETTY HULLMAN ESTATE #1-9				SOEKEN - BESTHORN #2				PETROLEUM INC.				EL DARADO REFINING				LVM #1			
	1907				1899				1900				1907				1897			
	LOG TOPS	DATUM	DEPTH	DATUM	LOGS	LOG	SMPL.	LOG	SMPL.	LOG	SMPL.	LOG	SMPL.	LOG	SMPL.	LOG	SMPL.			
ANHYDRITE TOP	770	1137	772	1135	762	1142	- 5	- 7	760	1140	- 3	- 5	771	1136	+ 1	- 1	750	1147	- 10	- 12
BASE	788	1119	792	1115	784	1120	- 1	- 5	778	1122	- 3	- 7	795	1112	+ 7	+ 3	775	1122	- 3	- 7
TOPEKA	2869	-962	2871	-964	2867	-963	+ 1	- 1	2862	-962	+ 0	- 2	2878	-971	+ 9	+ 7				
HEEBNER	3250	-1343	3239	-1332	3242	-1338	- 5	+ 6	3241	-1341	- 2	+ 9	3260	-1353	+ 10	+ 21	3233	-1336	- 7	+ 4
TORONTO	3268	-1361	3255	-1348	3261	-1357	- 4	+ 9	3260	-1360	- 1	+ 12	3280	-1373	+ 12	+ 25	3258	-1361	+ 0	+ 13
DOUGLASH SHALE	3283	-1376	3272	-1365	3274	-1370	- 6	+ 5	3276	-1376	+ 0	+ 11	3293	-1386	+ 10	+ 21	3270	-1373	- 3	+ 8
BROWN LIME	3379	-1472	3378	-1471	3370	-1466	- 6	- 5	3368	-1468	- 4	- 3	3394	-1487	+ 15	+ 16	3360	-1463	- 9	- 8
LKC	3394	-1487	3393	-1486	3387	-1483	- 4	- 3	3387	-1487	+ 0	+ 1	3401	-1494	+ 7	+ 8	3376	-1479	- 8	- 7
STARK	3578	-1671	3581	-1674	3570	-1666	- 5	- 8					3596	-1689	+ 16	+ 15	3553	-1656	- 15	- 18
BKC	3618	-1711	3623	-1716	3609	-1705	- 6	- 11	3591	-1691	- 20	- 25	3634	-1727	+ 18	+ 11	3596	-1699	- 12	- 17
VIOLA	3688	-1781	3682	-1775	3674	-1770	- 11	- 5	3662	-1762	- 19	- 13	3699	-1792	+ 11	+ 17	3656	-1759	- 22	- 16
SIMPSON SHALE	3734	-1827	3726	-1819	3723	-1819	- 8	+ 0	3724	-1824	- 3	+ 5	3744	-1837	+ 10	+ 18	3712	-1815	- 12	- 4
SIMPSON SAND	3742	-1835	3732	-1825	3740	-1836	+ 1	+ 11	3741	-1841	+ 6	+ 16	3762	-1855	+ 20	+ 30	3725	-1828	- 7	+ 3
ARBUCKLE	3778	-1871	3779	-1872	3777	-1873	+ 2	+ 1	3780	-1880	+ 9	+ 8	3800	-1893	+ 22	+ 21	3760	-1863	- 8	- 9
TOTAL DEPTH	3880	-1973	3880	-1973	3870	-1966	- 7	- 7	3800	-1900	- 73	- 73	3825	-1918	- 55	- 55	3890	-1993	+ 20	+ 20

### DST #1 LKC D - F 3425' - 3466'

 <p style="font-size: 24px; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT
	<p>JEL Resources, LLC <span style="float: right;"><b>9/22/13</b></span></p> <p>6545 South Riviera Way <span style="float: right;"><b>Betty Hullman Estate</b></span> Auro, CO 80016 <span style="float: right;">Job Ticket: 68508 <b>DST#: 1</b></span></p> <p>ATTN: Jeff Lauler <span style="float: right;">Test Start: 2022.05.13 @ 19:52:00</span></p>

**GENERAL INFORMATION:**

Formation: **LKC D-F**  
 Deviated: No Whipstock: 1909.00 ft (KB)  
 Time Tool Opened: 22:18:32  
 Time Test Ended: 03:16:02

Interval: **3425.00 ft (KB) To 3466.00 ft (KB) (TVD)**  
 Total Depth: 3466.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Good

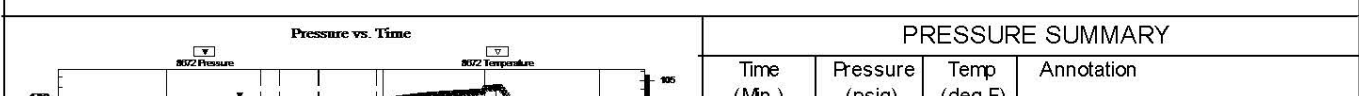
Test Type: Conventional Bottom Hole (Initial)  
 Tester: Chris Hagman  
 Unit No: 69

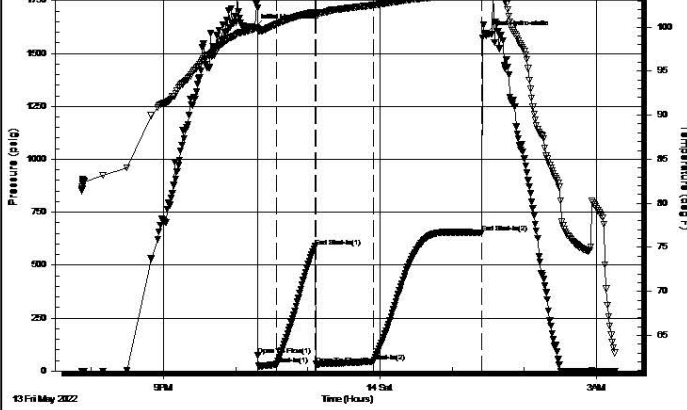
Reference Elevations: 1909.00 ft (KB)  
 1899.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8672** Inside

Press@RunDepth: 44.24 psig @ 3430.00 ft (KB) Capacity: psig  
 Start Date: 2022.05.13 End Date: 2022.05.14 Last Calib.: 1899.12.30  
 Start Time: 19:52:01 End Time: 03:16:02 Time On Btm: 2022.05.13 @ 22:16:17  
 Time Off Btm: 2022.05.14 @ 01:27:32

**TEST COMMENT:** IF: 15 min., BOB 4 min., strong building blow, 34 inches  
 IS: 30 min., no blow back  
 FF: 45 min., BOB 1 min., strong building blow, 79 inches  
 FS: 90 min., no blow back





(Min.)	(psig)	(deg F)	
0	1621.47	99.84	Initial Hydro-static
3	73.92	99.71	Open To Flow (1)
18	31.34	100.32	Shut-In(1)
50	588.06	101.68	End Shut-In(1)
51	31.89	101.57	Open To Flow (2)
99	44.24	102.48	Shut-In(2)
189	653.25	103.75	End Shut-In(2)
192	1591.10	104.15	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
70.00	oily gassy mud 20%O, 10%G, 70%M	0.71

**Gas Rates**

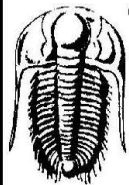
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 68508

Printed: 2022.05.14 @ 06:40:47

**DST #2 LKC H - J 3516' - 3580'**



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

JEL Resources, LLC  
 6545 South Riviera Way  
 Auro, CO 80016  
 ATTN: Jeff Lauler

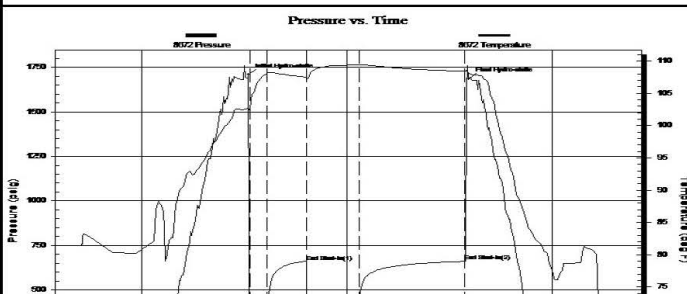
**9/22/13**  
**Betty Hullman Estate**  
 Job Ticket: 68509 **DST#: 2**  
 Test Start: 2022.05.14 @ 17:07:00

**GENERAL INFORMATION:**

Formation: **LKC H-J**  
 Deviated: No Whipstock: 1909.00 ft (KB)  
 Time Tool Opened: 19:34:32  
 Time Test Ended: 00:55:02  
 Interval: **3516.00 ft (KB) To 3580.00 ft (KB) (TVD)**  
 Total Depth: 3580.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Good  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Chris Hagman  
 Unit No: 69  
 Reference Elevations: 1909.00 ft (KB)  
 1899.00 ft (CF)  
 KB to GR/CF: 10.00 ft

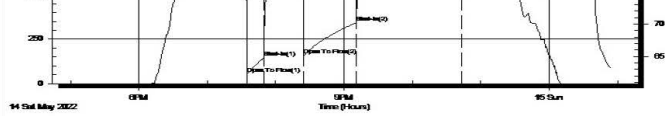
**Serial #: 8672 Inside**  
 Press@RunDepth: 342.80 psig @ 3518.00 ft (KB) Capacity: psig  
 Start Date: 2022.05.14 End Date: 2022.05.15 Last Calib.: 1899.12.30  
 Start Time: 17:07:00 End Time: 00:55:02 Time On Btm: 2022.05.14 @ 19:33:32  
 Time Off Btm: 2022.05.14 @ 22:47:02

**TEST COMMENT:** IF: 15 min., BOB 3 min., strong building blow , 29 inches  
 IS: 30 min., no blow back  
 FF: 45 min., BOB 4 min., strong building blow , 54 inches  
 FS: 90 min., no blow back



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.47	102.68	Initial Hydro-static
2	54.08	102.29	Open To Flow (1)
17	145.44	108.06	Shut-In(1)
51	657.29	107.46	End Shut-In(1)
51	161.00	107.32	Open To Flow (2)
98	342.80	109.38	Shut-In(2)
190	660.50	108.44	End Shut-In(2)
194	1685.15	108.02	Final Hydro-static



Recovery		
Length (ft)	Description	Volume (bbl)
693.00	gassy water 5%G, 95%W	9.45

Gas Rates		
Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)

Trilobite Testing, Inc

Ref. No: 68509

Printed: 2022.05.15 @ 01:24:22

### DST #3 VIOLA - SIMPSON SAND 3672' - 3740'

	<b>TRILOBITE TESTING, INC.</b>		<b>DRILL STEM TEST REPORT</b>	
	JEL Resources, LLC 6545 South Riviera Way Auro, CO 80016 ATTN: Jeff Lawler		<b>9/22/13</b> <b>Betty Hullman Estate</b> Job Ticket: 68510 <b>DST#: 3</b> Test Start: 2022.05.15 @ 18:15:00	

**GENERAL INFORMATION:**

Formation: **Viola**  
 Deviated: No Whipstock: 1909.00 ft (KB)  
 Time Tool Opened: 20:15:17  
 Time Test Ended: 01:03:02

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Chris Hagman  
 Unit No: 69

**Interval: 3672.00 ft (KB) To 3740.00 ft (KB) (TVD)**  
 Total Depth: 3740.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Good

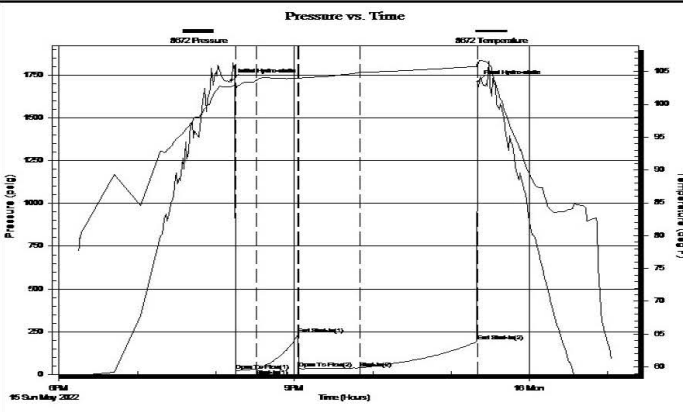
Reference Elevations: 1909.00 ft (KB)  
 1899.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8672 Inside**

Press@RunDepth: 37.68 psig @ 3674.00 ft (KB)  
 Start Date: 2022.05.15      End Date: 2022.05.16  
 Start Time: 18:15:00      End Time: 01:03:02

Capacity:      psig  
 Last Calib.: 1899.12.30  
 Time On Btm: 2022.05.15 @ 20:12:02  
 Time Off Btm: 2022.05.15 @ 23:20:32

**TEST COMMENT:** IF: 15 min., weak surface blow, 1 inch  
 IS: 30 min., no blow back  
 FF: 45 min., weak surface blow, .5 inches  
 FS: 90 min., no blow back




PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.24	102.70	Initial Hydro-static
4	21.19	102.08	Open To Flow (1)
20	30.35	103.70	Shut-In(1)
51	233.82	103.92	End Shut-In(1)
52	33.88	103.91	Open To Flow (2)
98	37.68	104.87	Shut-In(2)
188	193.10	105.79	End Shut-In(2)
189	1713.42	106.49	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
35.00	100%M	0.22

Gas Rates		
Choke (inches)	Pressure (psig)	Gas Rate (Mcfd)



**DST #4 ARBUCKLE 3721' - 3789'**

 <p><b>TRILOBITE TESTING, INC.</b></p>	<b>DRILL STEM TEST REPORT</b>	
	JEL Resources, LLC 6545 South Riviera Way Auro, CO 80016 ATTN: Jeff Lawler	9/22/13 <b>Betty Hullman Estate</b> Job Ticket: 68511 <b>DST#: 4</b> Test Start: 2022.05.16 @ 11:46:00

**GENERAL INFORMATION:**

Formation: **Arbuckle**  
 Deviated: No Whipstock: 1909.00 ft (KB)  
 Time Tool Opened: 13:52:32  
 Time Test Ended: 19:16:02

Test Type: Conventional Bottom Hole (Initial)  
 Tester: Chris Hagman  
 Unit No: 69

Interval: **3721.00 ft (KB) To 3789.00 ft (KB) (TVD)**  
 Total Depth: 3789.00 ft (KB) (TVD)  
 Hole Diameter: 7.80 inches Hole Condition: Good

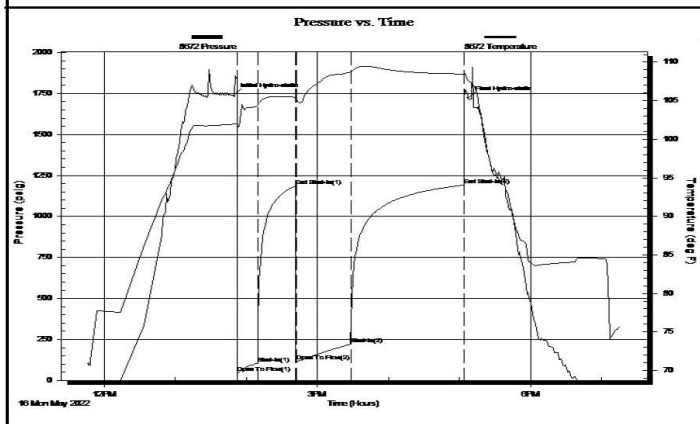
Reference Elevations: 1909.00 ft (KB)  
 1899.00 ft (CF)  
 KB to GR/CF: 10.00 ft

**Serial #: 8672 Inside**

Press@RunDepth: 221.12 psig @ 3723.00 ft (KB)  
 Start Date: 2022.05.16      End Date: 2022.05.16  
 Start Time: 11:46:00      End Time: 19:16:02

Capacity: \_\_\_\_\_ psig  
 Last Calib.: 1899.12.30  
 Time On Btm: 2022.05.16 @ 13:50:02  
 Time Off Btm: 2022.05.16 @ 17:07:32

**TEST COMMENT:** IF: 15 min., BOB 8 min., strong building blow, 17 inches  
 ISI: 30 min., blow back 5 min., weak surface blow  
 FF: 45 min., BOB 10 min., strong building blow, 33 inches  
 FSI: 90 min., blow back 5 min., 2.5 inches

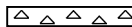











PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.27	101.97	Initial Hydro-static
3	46.12	101.44	Open To Flow (1)
20	104.20	104.36	Shut-In(1)
52	1185.53	105.41	End Shut-In(1)
53	118.76	105.13	Open To Flow (2)
99	221.12	108.71	Shut-In(2)
194	1192.11	108.48	End Shut-In(2)
198	1723.84	107.58	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
450.00	gassy oil 5%G,95%O	6.04
63.00	100%G	0.88

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

**ROCK TYPES**

 Cht	 Lmst fw7>	 Carbon Sh	 Ss
 Dolprim	 shale, grn	 shale, red	
 Dolsec	 shale, gry	 Shcol	

ACCESSORIES

MINERAL

▧ Euhed rhombs of dol or

STRINGER

▧ Sandstone

OTHER SYMBOLS

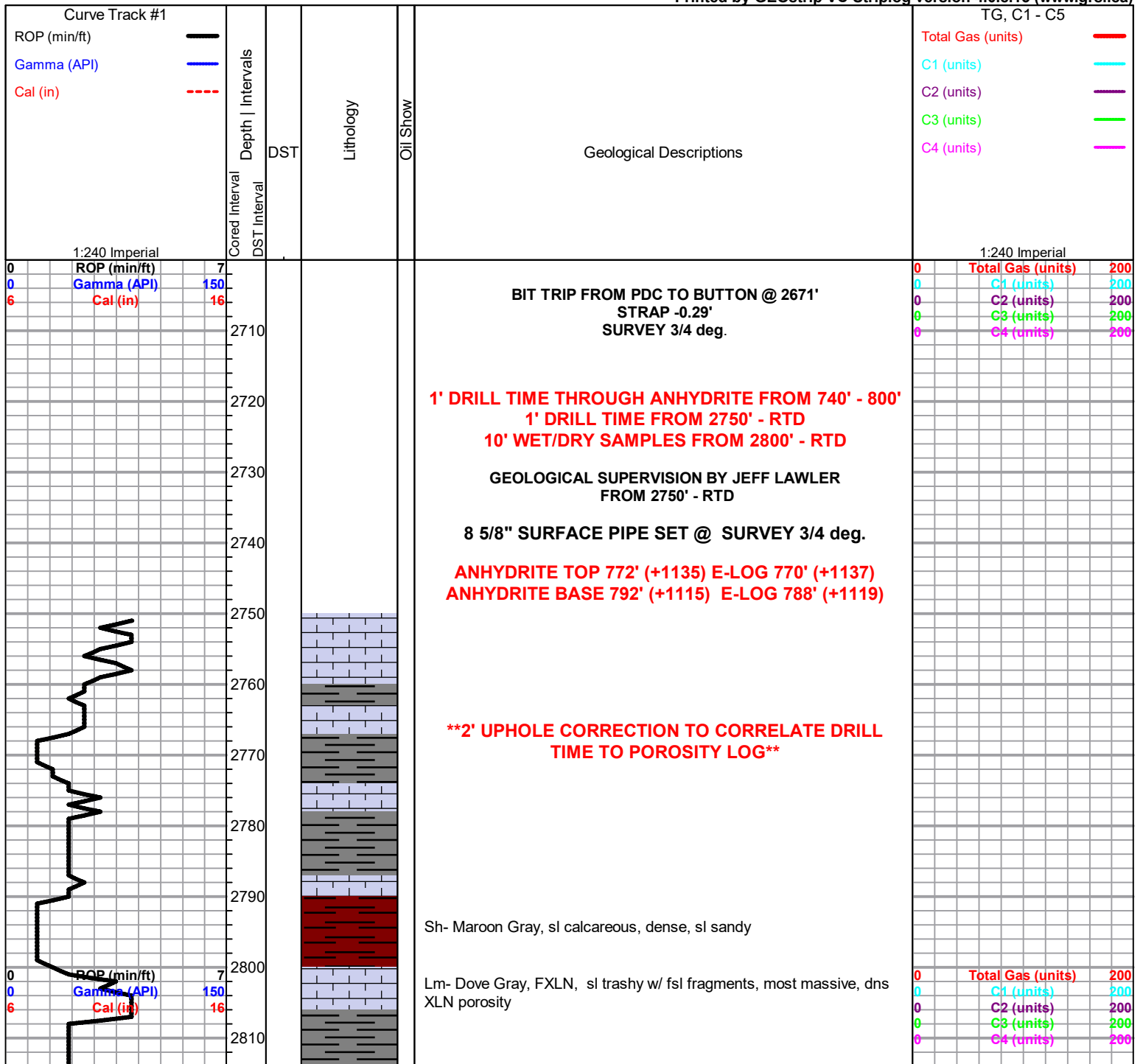
MISC

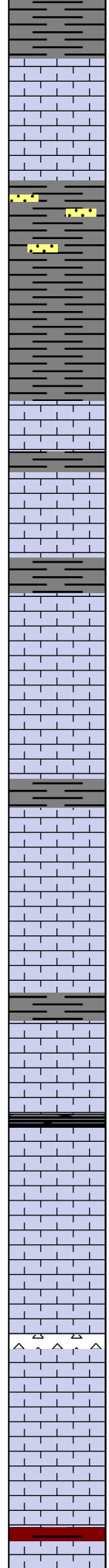
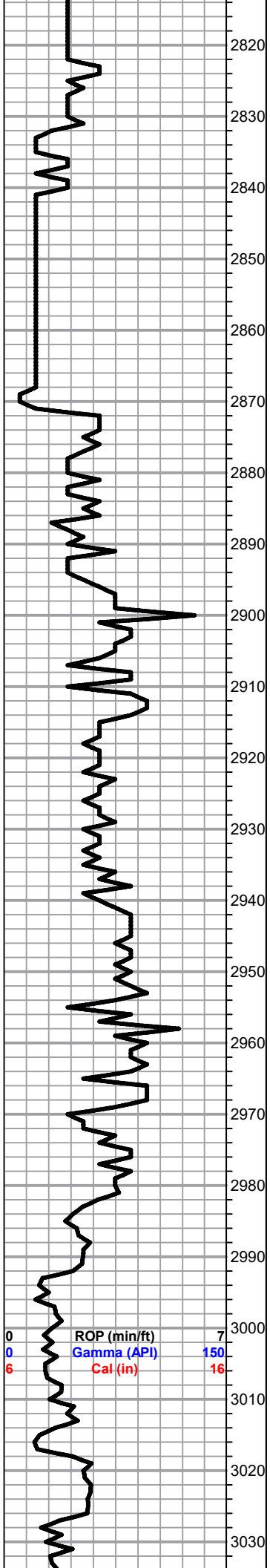
- Daily Report
- Digital Photo
- Document
- Folder
- Link
- Vertical Log File
- Horizontal Log File
- Core Log File
- Drill Cuttings Rpt

DST

- DST Int
- DST alt
- Core

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





Sh- Gray White, abundant argillaceous clumps

Lm- Off White, FXLN, sl oolitic & fsl, high-energy rip up clasts, dns XLN porosity

Lm- Cream, FXLN, oolitic, chalky in part, dns XLN porosity, massive, barren

Sh/Ss- Gray, micaceous, calcareous, Vf Grn, consolidated & well sorted, sub-angular, micaceous, barren

Sh- Dove Gray Green, calcareous, argillaceous, sl waxy

**TOPEKA 2871' (-964) E-LOG 2869' (-962)** Lm- Cream Buff, VF-FXLN, fsl, dns & well cemented, sctrd-dns XLN porosity

Lm- Brown Gray, FXLN, sl fsl, dns XLN porosity, hvy mottling, sl trashy

Lm- Cream Off White, FXLN, sl fsl, dns XLN & dns fractured secondary reXLN veins, sctrd mottling, barren

Lm- Buff Gray, VF-FXLN, well cemented, fsl w/ fusulinids, dns XLN porosity

Lm- Drk Gray, Vf Grn, loosely cemented arenaceous Ls

A/A w/ sandy calcareous drk gray shale

A/A & sl fsl

Lm- Cream Buff, VF-FXLN, dns & well cemented, sl fsl, mostly tight w/ dns XLN porosity

Lm- Cream Buff Tan, VF-FXLN, tight sl cherty Ls w/ sctrd XLN porosity, barren

Sh- Black, fissile & carbonaceous

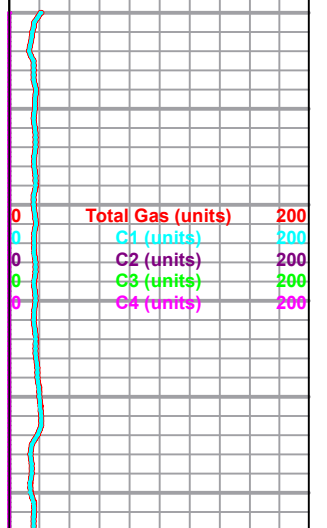
Lm- Cream, FXLN, fsl & oolitic, grainy, sl dolomitic, consistent fn ppt interXLN porosity, barren

Chert- Milky Gray, CryptoXLN, fsl vitreous fresh bedded

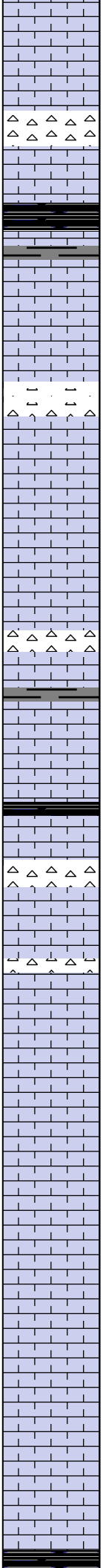
Lm- Cream, MedXLN, well dev. semi-castic, hvy fsl, dense XLN & fn ppt porosity, barren

Lm- Lt Gray, A/A, sl less developed, sl trashy, some chalk

Sh- Maroon Gray Black, earthy, calcareous, fissile



3040  
3050  
3060  
3070  
3080  
3090  
3100  
3110  
3120  
3130  
3140  
3150  
3160  
3170  
3180  
3190  
3200  
3210  
3220  
3230  
3240  
3250



Lm/Chert- Cream Gray, F-MEDXLN, fsl, hvy mottling, dense XLN & fn ppt porosity, massive, several pcs of fsl black cryptoXLN vitreous chert

Sh- Black, fissile & carbonaceous

Lm- Cream, VFXLN, tight & well cemented, no vis. porosity, several pcs of cherty Ls

Lm/Chert- Off White Cream, equal mix of fsl & oolitic/sl oomoldic dolomitic Ls w/ consistent XLN & fn ppt porosity & sl fsl fresh bedded chert w/ no vis porosity

A/A w/ milky gray fsl vitreous frsh bedded chert

Lm- Gray, Vf-Fn Grn, calcareous siltstone

Lm- Lt Gray, FXLN, fsl, sctrd mottling, dns XLN & secondary reXLN porosity, massive & well dev.

Sh- Black Maroon, fissile & carbonaceous, earthy

Lm- Buff, MEDXLN, fsl & oolitic, massive, consistent dns XLN & secondary reXLN porosity, mottled, abundant white chalk

A/A, sl influx of chalk

Lm/Chert- Cream, FXLN, dns well cemented dolomitic Ls w/ sctrd XLN porosity, soft white chalk, several pcs of sl fsl milky gray vitreous chert

Lm- Cream, FXLN, dolomitic oomoldic w/ sctrd fn ppt porosity, dns, barren

Lm- Cream, VF-FXLN, dns, well cemented, chalky in part, sctrd XLN porosity, barren, spotty mottling

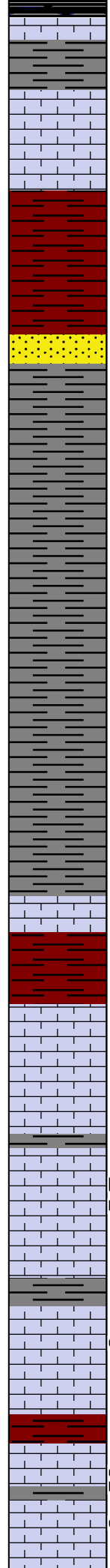
Lm- Tan Cream, VFXLN, dns cherty Ls w/o vis. porosity

**HEEBNER 3239' (-1332) E-LOG 3250' (-1343) Sh- Black Gray**

ROP (min/ft) 7  
Gamma (API) 150  
Cal (in) 16

Total Gas (units) 200  
C1 (units) 200  
C2 (units) 200  
C3 (units) 200  
C4 (units) 200

3260  
3270  
3280  
3290  
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3450  
3460  
3470



Maroon, carbonaceous, waxy, earthy

Sh- Gray, calcareous, argillaceous wash

**TORONTO 3255' (-1348) E-LOG 3268' (-1361)** Lm- Cream Off White, VF & MED XLN, mix of massive, sl fsl, dns scstrd clear reXLN, scstrd XLN porosity & tight cherty Ls w/o vis. porosity, all barren

**DOUGLAS SHALE 3272' (-1365) E-LOG 3280' (-1373)** Sh- Maroon, earthy

Sh- Maroon Gray, earthy, argillaceous wash, micaceous

A/A sandy shale

Ss- Frosted, Fn Grn, mod. cementation, micaceous, sub-rounded, consolidated & well sorted, barren

Sh- Gray, calcareous, micaceous, argillaceous wash

A/A, sl influx of sandy shale

A/A, trashy sub-rounded shaley sand

**BROWN LIME 3378' (-1471) E-LOG 3379' (-1472)** Lm- Brown Cream, FXLN, fsl & oolitic, scstrd XLN porosity

**LKC 3393' (-1486) E-LOG 3394' (-1487)** Lm- Cream Off White, FXLN, fsl, mod. well dev. w/ dns XLN porosity, barren

Lm/Chert- Cream mix of VFXLN cherty Ls w/ poor vis. por. & some fresh bedded chert, few pcs of dolomitic chert w/ dns XLN porosity, barren

Chert/Lm- oolitic mix of translucent & white vitreous fresh bedded chert & oolitic Lm w/ scstrd to dns XLN porosity, BLK EDGE STN, DO STN, FR ODR, TR FLOR.

Lm- Cream, VF-FXLN, sl fsl, mostly tight w/ scstrd XLN por, some soft white chalk, barren

Sh- Black Gray Maroon, fissile, soft, earthy

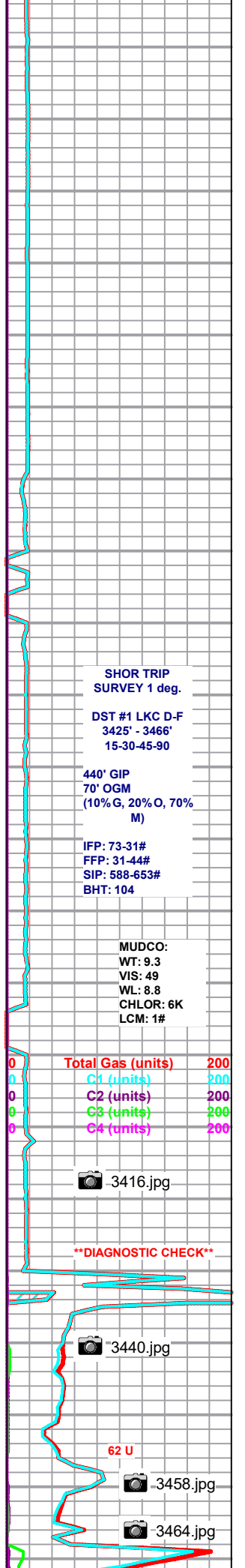
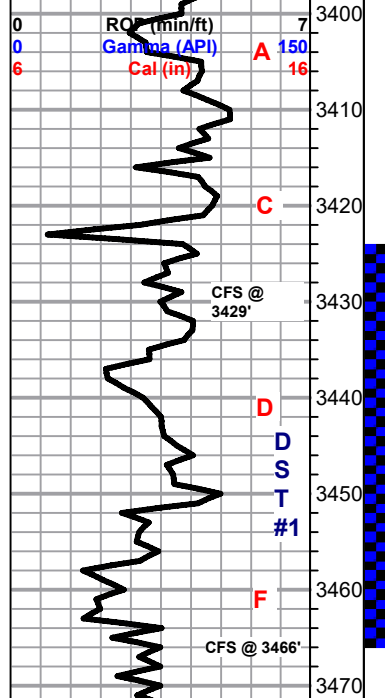
Lm- Cream, F-MED XLN, fsl, dns, scstrd XLN & ppt porosity, TR WK STN, NSFO, NO ODR, NO FLOR.

Lm- Cream Buff, VF-FXLN, dns, well cemented, sl fsl, poor to scstrd XLN porosity, scstrd secondary reXLN veins, barren

Lm- Brown, CrsXLN, sandy, grainy, dense fn ppt interparticle por, SUB-SAT DRK STN, FR SFO, GD ODR, INST. STRM WET CUT, YLW FLOR.

A/A increase in ppt por. & ST & FO, BLEEDING FO, GD ODR

Lm- Tan Buff, VF-FXLN, sl fsl mix, mostly tight, scstrd XLN porosity,



some dolomitic Lm & some cherty Lm

3480  
3490  
3500  
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3640  
3650  
3660  
3670  
3680  
3690

G

H

I

J

K

L

CFS @ 3535'

CFS @ 3580'

ROP (min/ft) 7  
Gamma (API) 150  
Cal (in) 16

Lm- Tan, FXLN, oolitic/oomoldic, sctrd XLN, fn ppt & vuggy porosity, barren

Lm- Cream, VF-FXLN, sl fsl, mostly tight w/ poor XLN por., some soft white chalk

A/A less chalk & several pcs of sl fsl fresh bedded tan chert w/ sctrd reXLN veins

Sh- Black Gray Green Maroon, soft, calcareous, waxy, earthy

Lm- Cream, FXLN, oolitic/oomoldic, sctrd-dns XLN & vuggy porosity, TR WK STN, TR FO, WK ODR, FEW W/ SLW STRM WET CUT UPON CRUSH

Lm- Off White, VFXLN, sctrd XLN por, mostly tight, some cherty Ls, vry clean & barren

Sh- Gray Green Maroon, sl calcareous, waxy, earthy

Lm- Cream, F-MedXLN, oolitic, few pcs of oolitic clusters, mostly consistent ppt inter oolite porosity, some sctrd reXNL porosity w/in voids, SCTRD LT STN, NSFO, FR ODR, INSTANT LT YLW FLOR

Lm- Tan, VFXLN, dns well cemented, oolitic cherty Ls w/ sctrd micro XLN porosity, barren

Lm- Off White, FXLN, densely packed small oolites, sctrd vry fn ppt porosity, SCTRD DRK STN, NSFO, WK ODR, LT YLW FLOR.

Sh- Gray Maroon, waxy, argillaceous, calcareous, earthy

Lm- White, F-Med XLN, fsl to sl oolitic, sctrd-dns XLN & sctrd-dns ppt porosity, some sl chalky in part, SCTRD-CONSISTENT DRK STN, TR FO, TR ODR, INST. BRT YLW FLOR.

Lm- Cream Buff, VF-FXLN, dns, well cemented, mostly tight w/ sctrd XLN porosity, some soft white chalk, barren

Sh- Gray Green Maroon, waxy, calcareous, earthy, argillaceous

Lm- Cream Buff, FXLN, sl fsl & oolitic, dns XLN, poorly dev. sctrd chlorite inclusions, barren

**BKC 3623' (-1716) E-LOG 3618" (-1711)** Sh- Gray Green, calcareous & waxy, some sandy

Lm- Cream w/ Lt Green Tint Tan, VFXLN, dns, well cemented, tight w/ poor vis. porosity

Sh- Gray Green Maroon, waxy

A/A

Chert- White Tan Salmon, vitreous detrital chert, 1-2 pcs dolomitic chert w/ dns vry fn ppt porosity, SCTRD LT STN, TR FO, TR ODR

**VIOLA 3682' (-1775) E-LOG 3679' (-1772)** Chert- White Cream, mix of vitreous fresh bedded & dolomitic chert w/ consistent vry fn ppt porosity, SCTRD BLK TO SAT DRK BRWN STN, NSFO, WK ODR, BRT YLW FLOR.

MUC-CO:  
WT: 8.9  
VIS: 65  
WL: 9  
CHLOR: 5500  
LCM: 1/2#

DST #2 LKC H-J  
3516' - 3580'  
15-30-45-90

693' GSY W  
(5% G, 95% W)

IFP: 54-145#  
FFP: 161-343'  
SIP: 657-661#  
BHT: 108 deg.

3530.jpg

3543.jpg

3562.jpg

3590.jpg

Total Gas (units) 200  
C1 (units) 200  
C2 (units) 200  
C3 (units) 200  
C4 (units) 200

MUD-CO:  
WT: 9.2  
VIS: 44  
WL: 9.2  
CHLOR: 10K  
LCM: 2#

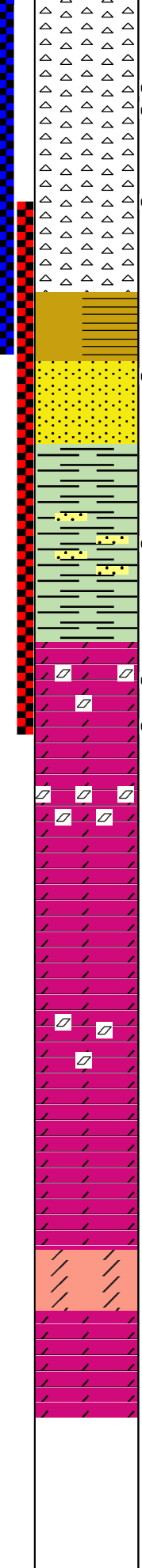
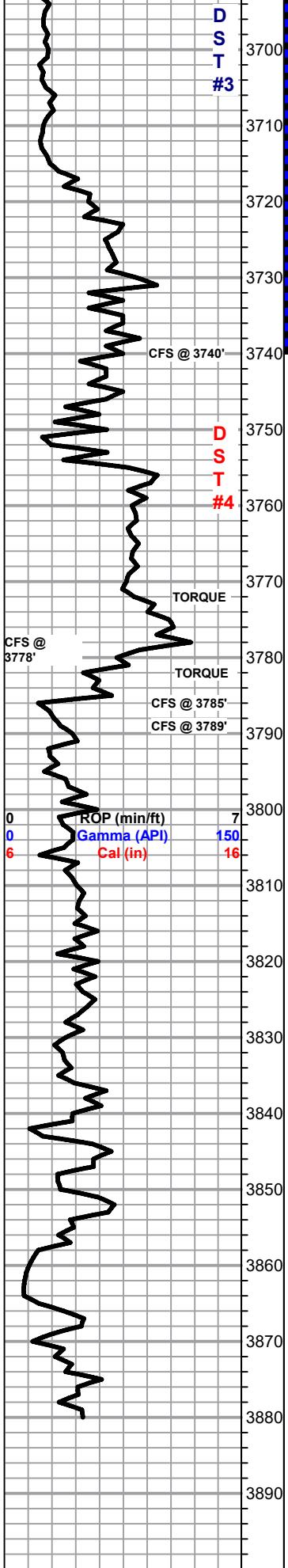
SHORT TRIP  
CTCH 1.5 hr.

DST #3 VIOLA -  
SIMPSON  
SAND  
3672' - 3740'  
15-30-45-90

35' MUD

IFP: 21-30#  
FFP: 34-38#  
SIP: 234-193#  
BHT: 106

3690.jpg



Chert- Bone White, CryptoXLN vitreous fresh bedded, barren

● Chert- Bone White, mix of A/A (60%) & massive dolomitic chert w/ consistent vry fn ppt porosity throughout, SCTRD TO SAT DRK BRWN STN, NSFO, TR ODR, INSTANT BRT YLW & WK STRM WET CUT

● A/A w/ fresh bedded limey chert w/ consistent microXLN porosity, SAT BRWN STN, NSFO, TR ODR, WK YLW FLOR

**SIMPSON SHALE 3726' (-1819) E-LOG 3734' (-1827)** Sh- Gray Maroon Purple

● **SIMPSON SAND 3732' (-1825) E-LOG 3742'(-1835)** Sand-Clear, Fn-Med Grn, friable, mature, mod. sorted, consolidated, SCTRD DRK STN, TR FO, NO ODR, WK STRM WET CUR

Sh- Gray Green Purple, waxy

● Sh/Ss- Sh A/A, Ss- Frosted, Fn Grn, consolidated & mod. sorted, sub-rounded, lightly cemented, some barren w/ glauconite inclusions, most SAT DRK STN, TR FO, WK ODR, INSTANT YLW FLOR.

Sh- Green Mustard Yellow Gray, waxy & dns, some argillaceous

● **ARBUCKLE 3779' (-1872) E-LOG 3778' (-1871)** Dol- White Cream Lt Pink, VF-CrsXLN, mix of tight w/ micro XLN & barren, MedXLN, sucrosic, rhombic, consistent ppt interXLN por, DRK SUB-SAT STN, SOME BLEEDING, GD ODR, INSTANT BRT YLW FLOR.

● **40"**- Dol- Chream Off White, VF-FXLN, dns, well cemented, microXLN por throughout, barren

**3789'**- Dol- Cream, Med-Crs XLN, sucrosic, rhombic, consist ppt interparticle por, SUB SAT-BLEEDING STN, GD FO, STRONG ODR

Dol- Cream, F-Med XLN, sucrosic, consistent XLN porosity throughout, mix of loosely cemented-well cemented, barren

Dol- Cream Off White, F-Med XLN, well cemented, dns, semi sucrosic to sucrosic, dns XLN & fn ppt por, few pcs of Crs XLN w/ consistent ppt por throughout, barren

Dol- White Cream, Med-Crs XLN, sucrosic, some rhombic, dns fn ppt to ppt pro throughout, barren, some soft white chalk

A/A

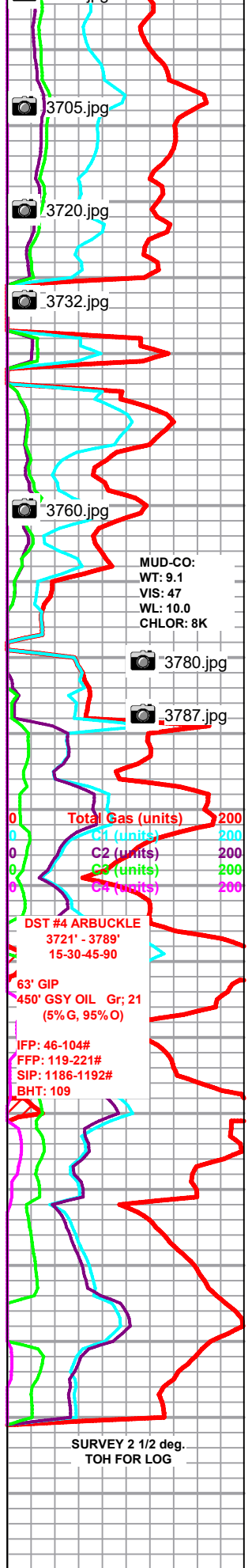
A/A

Dol-Tan, VF-FXLN, dns, well cemented, several pcs of oolitic chert/chrty Dol, micro XLN porosity, barren

Dol- Off White, VFXLN, dns, well cemented oomoldic w/ sctrd vuggy porosity, otherwise tight, barren

Dol- Tan, F-Med XLN, massive, sucrosic, fn ppt to ppt por, barren

**RTD 3880' (-1973) LTD 3880' (-1973) @ 02:20 MAY 17, 2022**







3440.jpg

A002 1280x1024 2022/05/13 13:03:55



3440'

3458.jpg

A003 1280x1024 2022/05/13 14:19:14



3458'

3464.jpg



3464'

3530.jpg

A005 1280x1024 2022/05/14 11:27:55



3530'























# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 2021

Date	5.10.22	Sec.	9	Twp.	02	Range	13	County	Stafford	State	KS	On Location		Finish	1045 AM		
Lease								Well No.		Owner							
Quality Hullman Estate								2-9		To Quality Oilwell Cementing, Inc.							
Contractor								Discipline #2		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Type Job								Surface		Charge To							
Hole Size								12 1/4"		T.D.		351'				JEL Resources	
Csg.								9 3/4"		Depth		350.97'				Street	
Tbg. Size										Depth						City State	
Tool										Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								15'		Shoe Joint		15'				Cement Amount Ordered	
Meas Line								Displace		2 1/4 Pcs				1/2 B.F.H. - Spol			
<b>EQUIPMENT</b>												Common					
Pumptrk		16	No.	Cementer		David						Poz. Mix					
Bulktrk		21	No.	Driver		Jordan						Gel.					
Bulktrk		00	No.	Driver		Rick						Calcium					
<b>JOB SERVICES &amp; REMARKS</b>												Hulls					
Remarks								Cement did Circulate				Salt					
Rat Hole												Flowseal					
Mouse Hole												Kol-Seal					
Centralizers												Mud CLR 48					
Baskets												CFL-117 or CD110 CAF 38					
D/V or Port Collar												Sand					
												Handling					
												Mileage					
<b>FLOAT EQUIPMENT</b>																	
												Guide Shoe					
												Centralizer					
												Baskets					
												AFU Inserts					
												Float Shoe					
												Latch Down					
												Pumptrk Charge					
												Mileage					
												Tax					
												Discount					
												Total Charge					
Signature																	

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

Home Office P.O. Box 32 Russell, KS 67665

No. 2829

Cell 785-324-1041

Date	5-17-22	Sec.	Twp.	Range	County	State	On Location	Finish
Lease					Location		8.30 PM	
Contractor					Well No.		Owner	
Type Job					T.D.		Charge To	
Hole Size					Depth		Street	
Csg.					Depth		City	
Tbg. Size					Depth		State	
Tool					Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.					Shoe Joint		Cement Amount Ordered	
Meas Line					Displace		Cement Amount Ordered	
<b>EQUIPMENT</b>					Common			
Pumptrk	No.	Cementer			Poz. Mix			
Bulktrk	No.	Driver			Gel.			
Bulktrk	No.	Driver			Calcium			
<b>JOB SERVICES &amp; REMARKS</b>					Hulls			
Remarks:					Salt			
Rat Hole					Flowseal			
Mouse Hole					Kol-Seal			
Centralizers					Mud CLR 48			
Baskets					CFL-117 or CD110 CAF 38			
D/V or Port Collar					Sand			
					Handling			
					Mileage			
					<b>FLOAT EQUIPMENT</b>			
					Guide Shoe			
					Centralizer			
					Baskets			
					AFU Inserts			
					Float Shoe			
					Latch Down			
					Pumptrk Charge			
					Mileage			
					Tax			
					Discount			
					Total Charge			
Signature								



## DRILL STEM TEST REPORT

Prepared For: **JEL Resources, LLC**

6545 South Riviera Way  
Auro, CO 80016

ATTN: Jeff Lawler

**9-22s-13wStafford,KS**

**Betty Hullman Estate #2-9**

Start Date: 2022.05.13 @ 19:52:00

End Date: 2022.05.14 @ 03:16:02

Job Ticket #: 68508                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.05.19 @ 13:54:45



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

JEL Resources, LLC  
6545 South Riviera Way  
Auro, CO 80016  
ATTN: Jeff Lawler

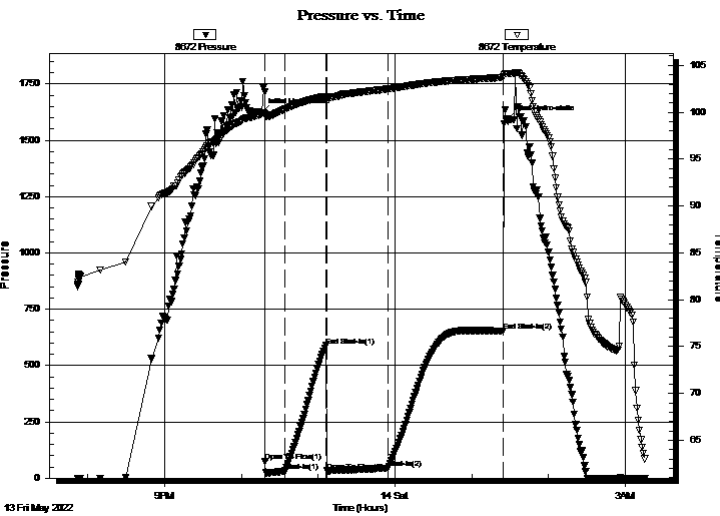
**Betty Hullman Estate #2-9**  
**9-22s-13wStafford,KS**  
Job Ticket: 68508 **DST#: 1**  
Test Start: 2022.05.13 @ 19:52:00

## GENERAL INFORMATION:

Formation: **LKC D - F**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 22:18:32  
Time Test Ended: 03:16:02  
Interval: **3425.00 ft (KB) To 3466.00 ft (KB) (TVD)**  
Total Depth: 3466.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Chris Hagman  
Unit No: 69  
Reference Elevations: 1909.00 ft (KB)  
1899.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8672** **Inside**  
Press@RunDepth: 44.24 psig @ 3430.00 ft (KB) Capacity: psig  
Start Date: 2022.05.13 End Date: 2022.05.14 Last Calib.: 2022.05.13  
Start Time: 19:52:01 End Time: 03:16:02 Time On Btm: 2022.05.13 @ 22:16:17  
Time Off Btm: 2022.05.14 @ 01:27:32

**TEST COMMENT:** IF: 15 min., BOB 4 min., strong building blow , 34 inches  
IS: 30 min., no blow back  
FF: 45 min., BOB 1 min., strong building blow , 79 inches  
FS: 90 min., no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1621.47	99.84	Initial Hydro-static
3	73.92	99.71	Open To Flow (1)
18	31.34	100.32	Shut-In(1)
50	588.06	101.68	End Shut-In(1)
51	31.89	101.57	Open To Flow (2)
99	44.24	102.48	Shut-In(2)
189	653.25	103.75	End Shut-In(2)
192	1591.10	104.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
70.00	oily gassy mud 20%O, 10%G, 70%M	0.71

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

JEL Resources, LLC

**Betty Hullman Estate #2-9**

6545 South Riviera Way  
Auro, CO 80016

**9-22s-13wStafford,KS**

ATTN: Jeff Lawler

Job Ticket: 68508

**DST#: 1**

Test Start: 2022.05.13 @ 19:52:00

## Tool Information

Drill Pipe:	Length: 3382.00 ft	Diameter: 3.80 inches	Volume: 47.44 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 47.59 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 44000.00 lb
Depth to Top Packer:	3425.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	41.00 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
------------------	-------------	------------	----------	------------	----------------

Shut In Tool	5.00			3400.00	
Hydraulic tool	5.00			3405.00	
Isolator Sub	3.00			3408.00	
Jars	5.00			3413.00	
Safety Joint	3.00			3416.00	
Packer	5.00			3421.00	30.00 Bottom Of Top Packer
Packer	4.00			3425.00	
Stubb	1.00			3426.00	
Perforations	3.00			3429.00	
Change Over Sub	1.00			3430.00	
Recorder	0.00	8672	Inside	3430.00	
Recorder	0.00	6751	Outside	3430.00	
Drill Pipe	32.00			3462.00	
Change Over Sub	1.00			3463.00	
Bullnose	3.00			3466.00	41.00 Bottom Packers & Anchor

**Total Tool Length: 71.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

JEL Resources, LLC

**Betty Hullman Estate #2-9**

6545 South Riviera Way  
Auro, CO 80016

**9-22s-13wStafford,KS**

Job Ticket: 68508

**DST#: 1**

ATTN: Jeff Lawler

Test Start: 2022.05.13 @ 19:52:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 49.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.78 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
70.00	oily gassy mud 20%O, 10%G, 70%M	0.709

Total Length: 70.00 ft      Total Volume: 0.709 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

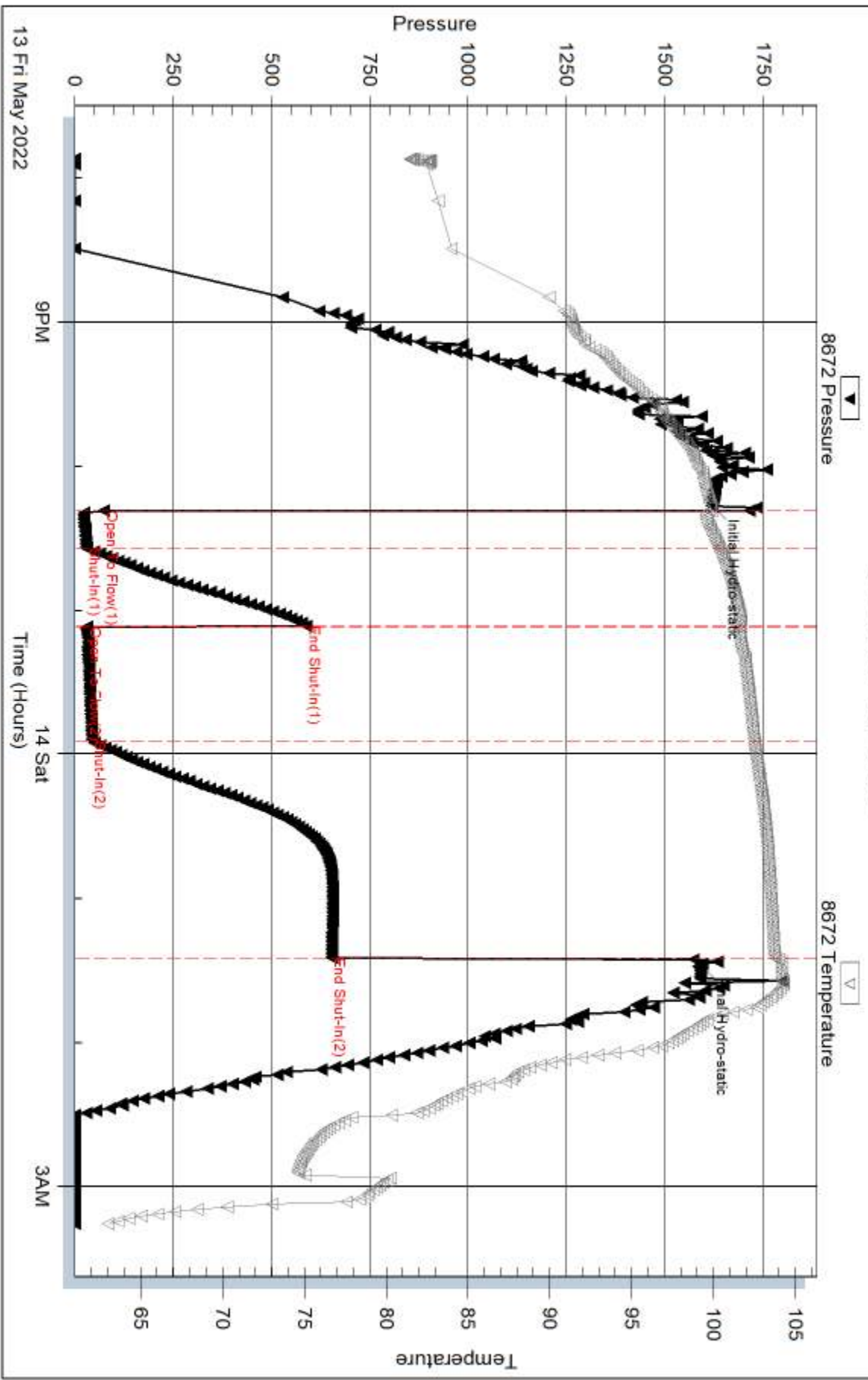
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 440' GIP

### Pressure vs. Time

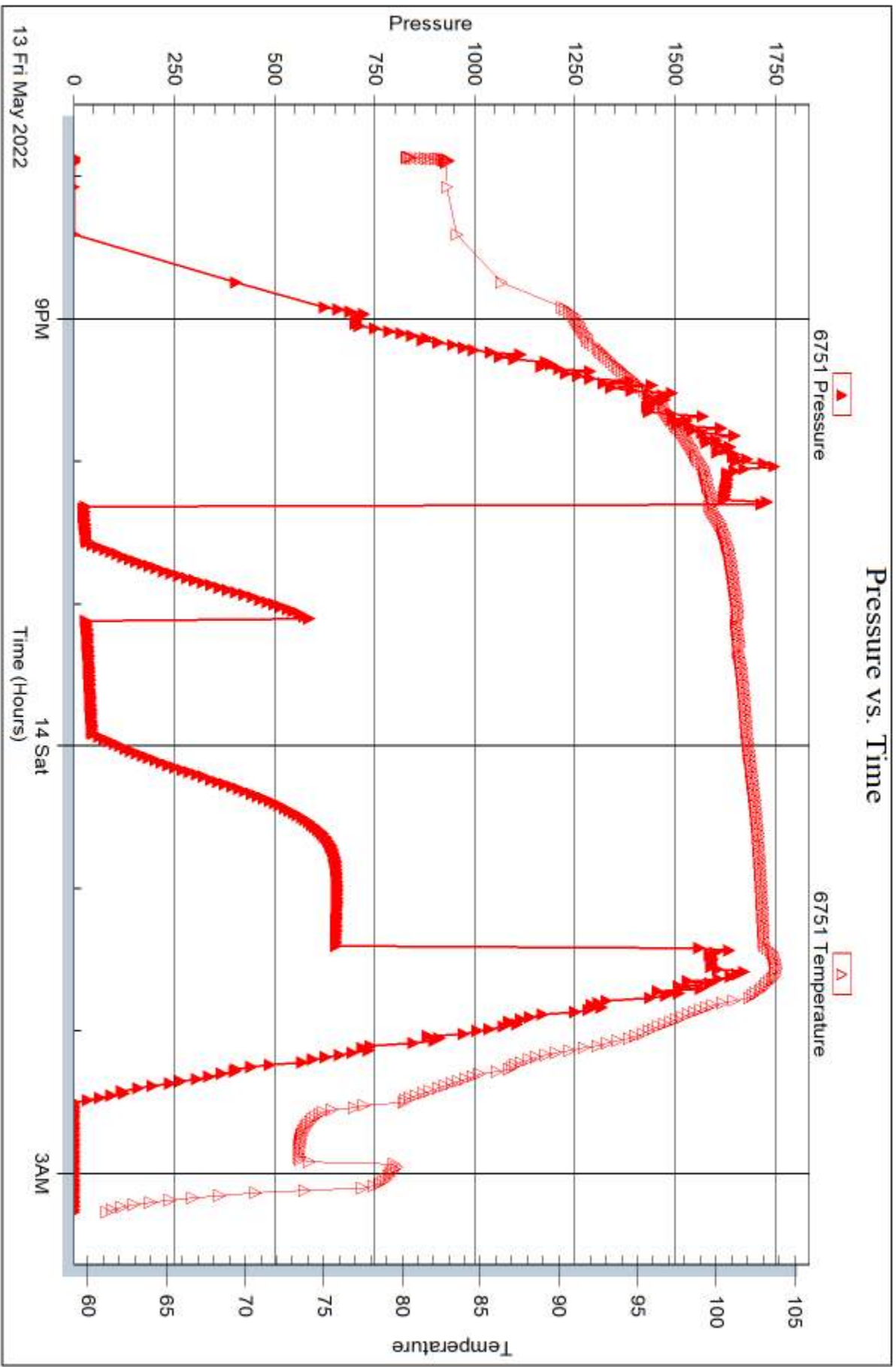


Serial #: 6751

Outside JEL Resources, LLC

9-22s-13w Stafford, KS

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68508

Printed: 2022.05.19 @ 13:54:49



## DRILL STEM TEST REPORT

Prepared For: **JEL Resources, LLC**

6545 South Riviera Way  
Auro, CO 80016

ATTN: Jeff Lawler

**9-22s-13wStafford,KS**

**Betty Hullman Estate #2-9**

Start Date: 2022.05.14 @ 17:07:00

End Date: 2022.05.15 @ 00:55:02

Job Ticket #: 68509                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.05.19 @ 13:53:38



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

JEL Resources, LLC  
6545 South Riviera Way  
Auro, CO 80016  
ATTN: Jeff Lawler

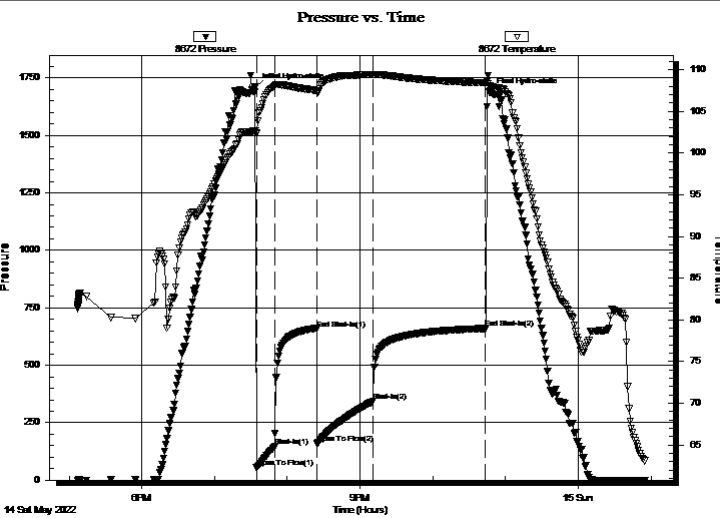
**Betty Hullman Estate #2-9**  
**9-22s-13wStafford,KS**  
Job Ticket: 68509 **DST#: 2**  
Test Start: 2022.05.14 @ 17:07:00

## GENERAL INFORMATION:

Formation: **LKC H - J**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 19:34:32  
Time Test Ended: 00:55:02  
Interval: **3516.00 ft (KB) To 3580.00 ft (KB) (TVD)**  
Total Depth: 3580.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Chris Hagman  
Unit No: 69  
Reference Elevations: 1909.00 ft (KB)  
1899.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 8672** **Inside**  
Press@RunDepth: 342.80 psig @ 3518.00 ft (KB) Capacity: psig  
Start Date: 2022.05.14 End Date: 2022.05.15 Last Calib.: 2022.05.14  
Start Time: 17:07:01 End Time: 00:55:02 Time On Btm: 2022.05.14 @ 19:33:32  
Time Off Btm: 2022.05.14 @ 22:47:02

**TEST COMMENT:** IF: 15 min., BOB 3 min., strong building blow , 29 inches  
IS: 30 min., no blow back  
FF: 45 min., BOB 4 min., strong building blow , 54 inches  
FS: 90 min., no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1710.47	102.68	Initial Hydro-static
2	54.08	102.29	Open To Flow (1)
17	145.44	108.06	Shut-In(1)
51	657.29	107.46	End Shut-In(1)
51	161.00	107.32	Open To Flow (2)
98	342.80	109.38	Shut-In(2)
190	660.50	108.44	End Shut-In(2)
194	1685.15	108.02	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
693.00	gassy water 5%G, 95%W	9.45

## Gas Rates

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







**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

JEL Resources, LLC

**Betty Hullman Estate #2-9**

6545 South Riviera Way  
Auro, CO 80016

**9-22s-13wStafford,KS**

Job Ticket: 68509

**DST#: 2**

ATTN: Jeff Lawler

Test Start: 2022.05.14 @ 17:07:00

## Tool Information

Drill Pipe:	Length: 3477.00 ft	Diameter: 3.80 inches	Volume: 48.77 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 48.92 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3516.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	64.00 ft			
Tool Length:	94.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3491.00	
Hydraulic tool	5.00			3496.00	
Isolator Sub	3.00			3499.00	
Jars	5.00			3504.00	
Safety Joint	3.00			3507.00	
Packer	5.00			3512.00	30.00 Bottom Of Top Packer
Packer	4.00			3516.00	
Stubb	1.00			3517.00	
Perforations	1.00			3518.00	
Recorder	0.00	8672	Inside	3518.00	
Recorder	0.00	6751	Outside	3518.00	
Pickup sub perf	5.00			3523.00	
Perforations	20.00			3543.00	
Change Over Sub	1.00			3544.00	
Drill Pipe	32.00			3576.00	
Change Over Sub	1.00			3577.00	
Bullnose	3.00			3580.00	64.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>94.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

JEL Resources, LLC

**Betty Hullman Estate #2-9**

6545 South Riviera Way  
Auro, CO 80016

**9-22s-13wStafford,KS**

Job Ticket: 68509

**DST#: 2**

ATTN: Jeff Lawler

Test Start: 2022.05.14 @ 17:07:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

26000 ppm

Viscosity: 65.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5500.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
693.00	gassy water 5%G, 95%W	9.448

Total Length: 693.00 ft      Total Volume: 9.448 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

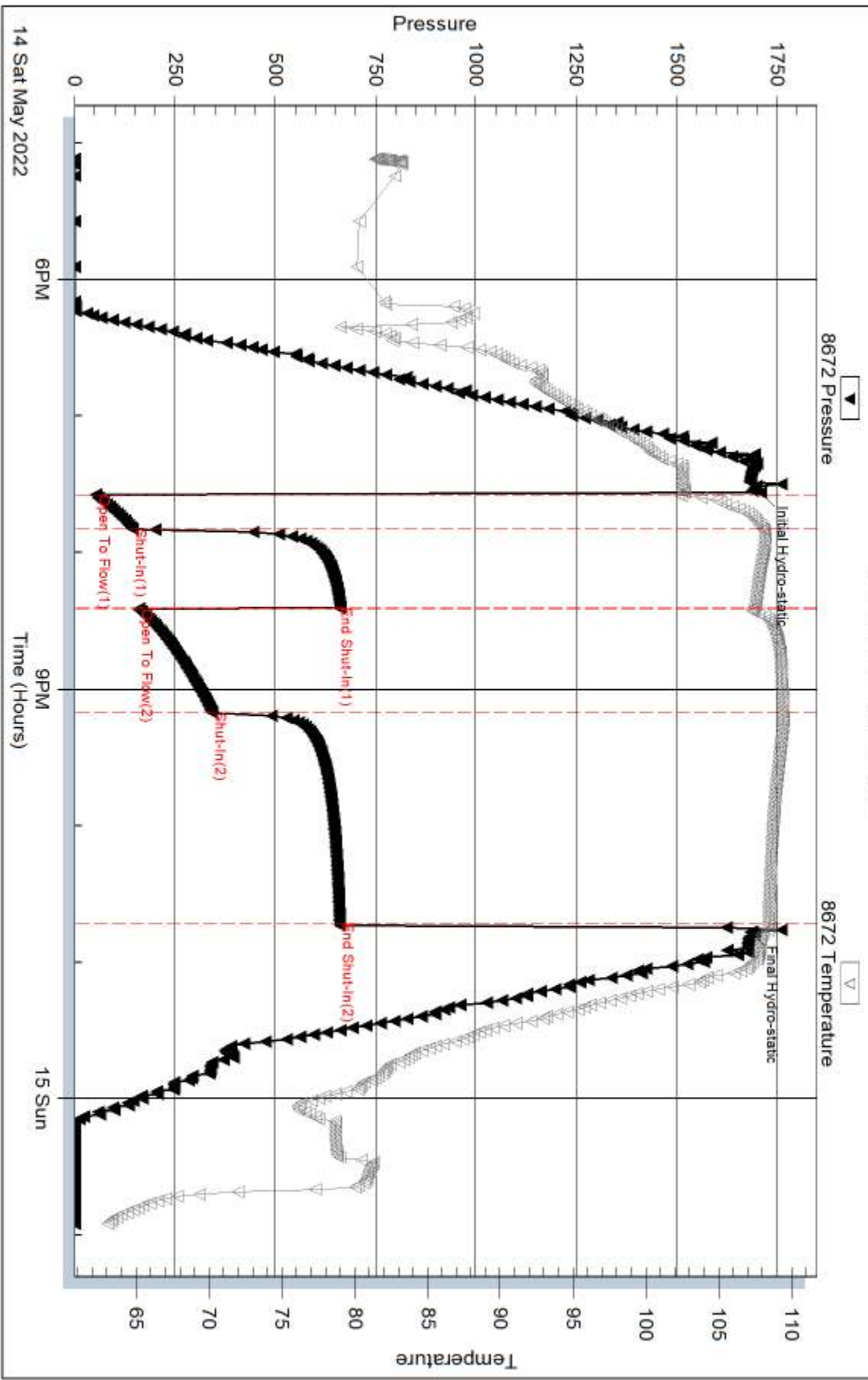
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rw=.260@73F=26000

### Pressure vs. Time

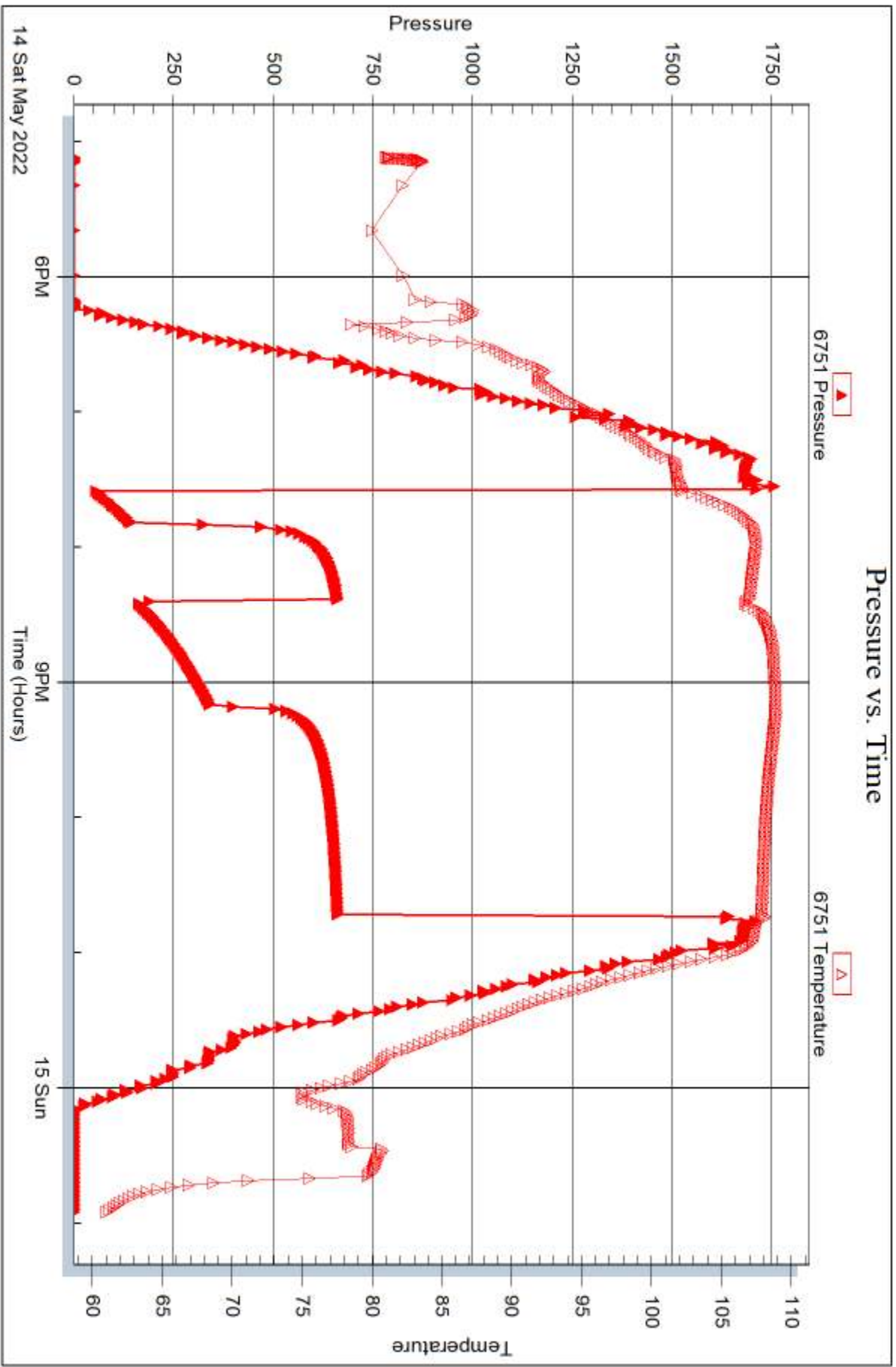


Serial #: 6751

Outside JEL Resources, LLC

9-22s-13w Stafford, KS

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **JEL Resources, LLC**

6545 South Riviera Way  
Auro, CO 80016

ATTN: Jeff Lawler

**9-22s-13wStafford,KS**

**Betty Hullman Estate #2-9**

Start Date: 2022.05.15 @ 18:15:00

End Date: 2022.05.16 @ 01:03:02

Job Ticket #: 68510                      DST #: 3

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.05.19 @ 13:53:00



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

JEL Resources, LLC  
6545 South Riviera Way  
Auro, CO 80016  
ATTN: Jeff Lawler

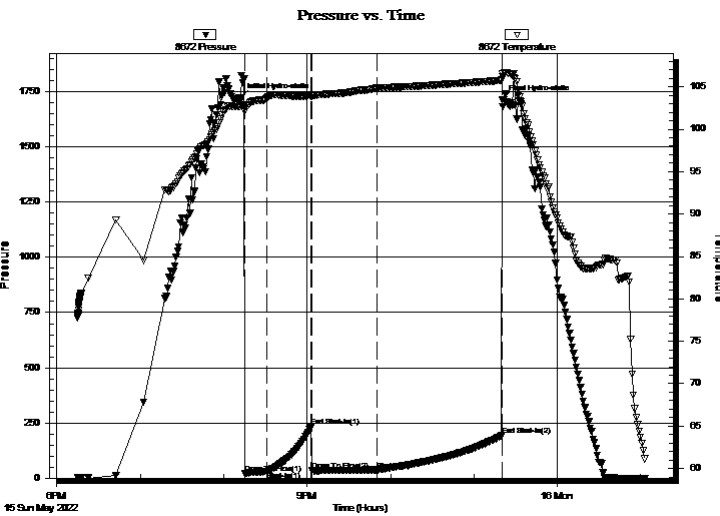
**Betty Hullman Estate #2-9**  
**9-22s-13wStafford,KS**  
Job Ticket: 68510      **DST#: 3**  
Test Start: 2022.05.15 @ 18:15:00

## GENERAL INFORMATION:

Formation: **Viola**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 20:15:17  
Time Test Ended: 01:03:02  
Interval: **3672.00 ft (KB) To 3740.00 ft (KB) (TVD)**  
Total Depth: 3740.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Good  
Reference Elevations: 1909.00 ft (KB)  
1899.00 ft (CF)  
KB to GR/CF: 10.00 ft  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Chris Hagman  
Unit No: 69

**Serial #: 8672      Inside**  
Press@RunDepth: 37.68 psig @ 3674.00 ft (KB)      Capacity:                      psig  
Start Date: 2022.05.15      End Date: 2022.05.16      Last Calib.: 2022.05.15  
Start Time: 18:15:01      End Time: 01:03:02      Time On Btm: 2022.05.15 @ 20:12:02  
Time Off Btm: 2022.05.15 @ 23:20:32

**TEST COMMENT:** IF: 15 min., weak surface blow , 1 inch  
IS: 30 min., no blow back  
FF: 45 min., weak surface blow , .5 inches  
FS: 90 min., no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1720.24	102.70	Initial Hydro-static
4	21.19	102.08	Open To Flow (1)
20	30.35	103.70	Shut-In(1)
51	233.82	103.92	End Shut-In(1)
52	33.88	103.91	Open To Flow (2)
98	37.68	104.87	Shut-In(2)
188	193.10	105.79	End Shut-In(2)
189	1713.42	106.49	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	Mud 100%M	0.22

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

JEL Resources, LLC  
6545 South Riviera Way  
Auro, CO 80016  
ATTN: Jeff Lawler

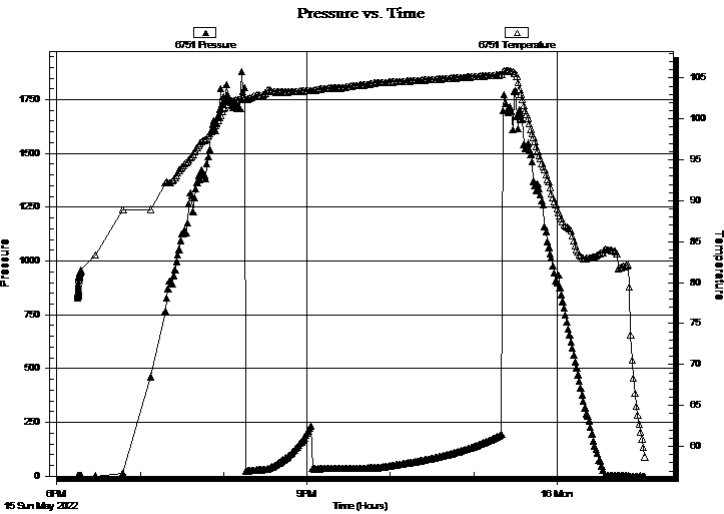
**Betty Hullman Estate #2-9**  
**9-22s-13wStafford,KS**  
Job Ticket: 68510      **DST#: 3**  
Test Start: 2022.05.15 @ 18:15:00

## GENERAL INFORMATION:

Formation: **Viola**  
Deviated: No Whipstock:                      ft (KB)  
Time Tool Opened: 20:15:17  
Time Test Ended: 01:03:02  
Interval: **3672.00 ft (KB) To 3740.00 ft (KB) (TVD)**  
Total Depth: 3740.00 ft (KB) (TVD)  
Hole Diameter: 7.80 inches Hole Condition: Good  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Chris Hagmam  
Unit No: 69  
Reference Elevations: 1909.00 ft (KB)  
1899.00 ft (CF)  
KB to GR/CF: 10.00 ft

**Serial #: 6751      Outside**  
Press@RunDepth:                      psig @ 3674.00 ft (KB)      Capacity:                                      psig  
Start Date: 2022.05.15      End Date: 2022.05.16      Last Calib.: 1899.12.30  
Start Time: 18:15:01      End Time: 01:03:02      Time On Btm:  
Time Off Btm:

**TEST COMMENT:** IF: 15 min., weak surface blow , 1 inch  
IS: 30 min., no blow back  
FF: 45 min., weak surface blow , .5 inches  
FS: 90 min., no blow back



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

Recovery		
Length (ft)	Description	Volume (bbl)
35.00	Mud 100%M	0.22

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

JEL Resources, LLC

**Betty Hullman Estate #2-9**

6545 South Riviera Way  
Auro, CO 80016

**9-22s-13wStafford,KS**

ATTN: Jeff Lawler

Job Ticket: 68510

**DST#: 3**

Test Start: 2022.05.15 @ 18:15:00

## Tool Information

Drill Pipe:	Length: 3635.00 ft	Diameter: 3.80 inches	Volume: 50.99 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 51.14 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3672.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3647.00	
Hydraulic tool	5.00			3652.00	
Isolator Sub	3.00			3655.00	
Jars	5.00			3660.00	
Safety Joint	3.00			3663.00	
Packer	5.00			3668.00	30.00 Bottom Of Top Packer
Packer	4.00			3672.00	
Stubb	1.00			3673.00	
Perforations	1.00			3674.00	
Recorder	0.00	8672	Inside	3674.00	
Recorder	0.00	6751	Outside	3674.00	
Pickup sub perf	5.00			3679.00	
Perforations	24.00			3703.00	
Change Over Sub	1.00			3704.00	
Drill Pipe	32.00			3736.00	
Change Over Sub	1.00			3737.00	
Bullnose	3.00			3740.00	68.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>98.00</b>				





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

JEL Resources, LLC

**Betty Hullman Estate #2-9**

6545 South Riviera Way  
Auro, CO 80016

**9-22s-13wStafford,KS**

Job Ticket: 68510

**DST#: 3**

ATTN: Jeff Lawler

Test Start: 2022.05.15 @ 18:15:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 44.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.18 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 10000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	Mud 100%M	0.218

Total Length: 35.00 ft      Total Volume: 0.218 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

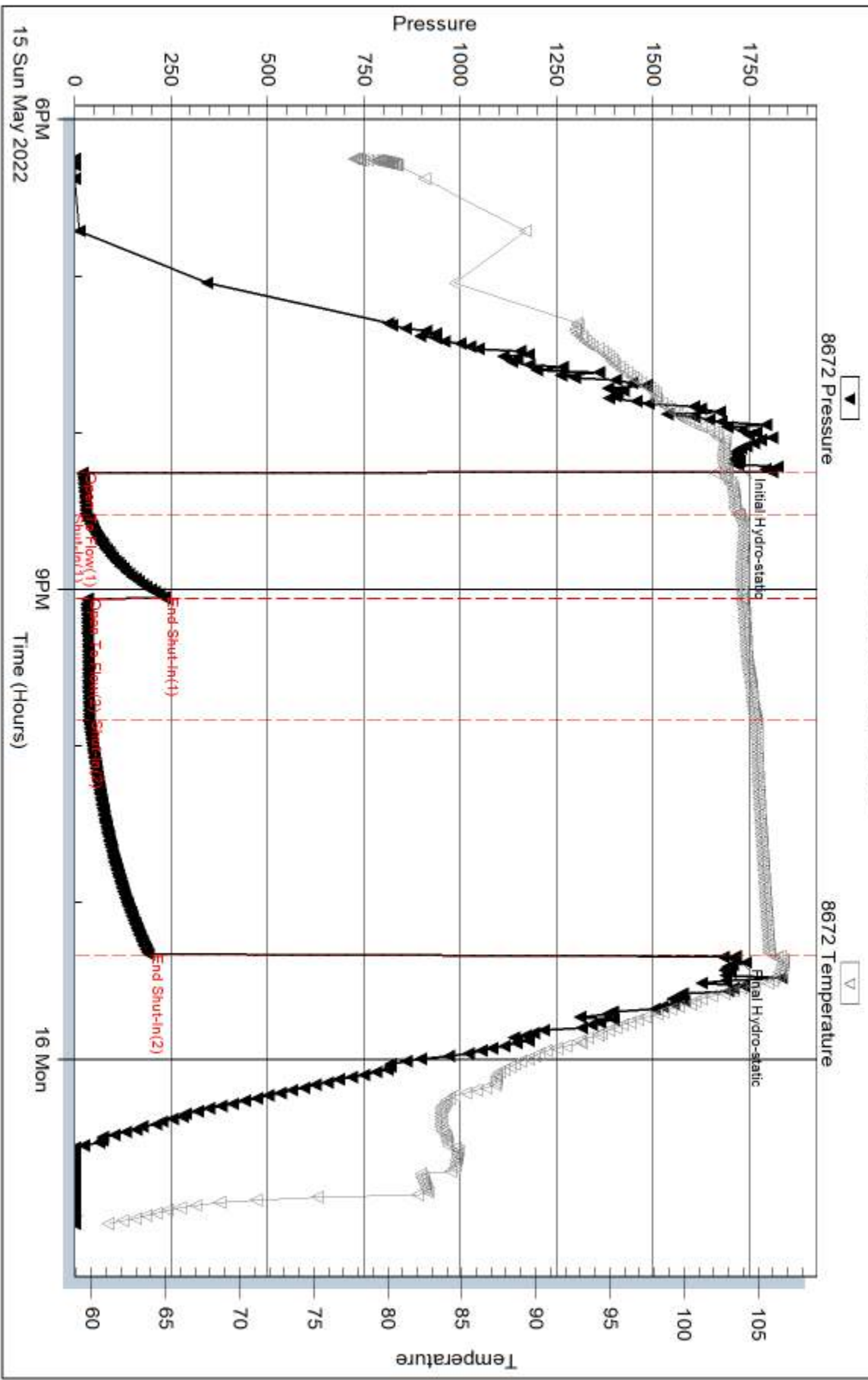
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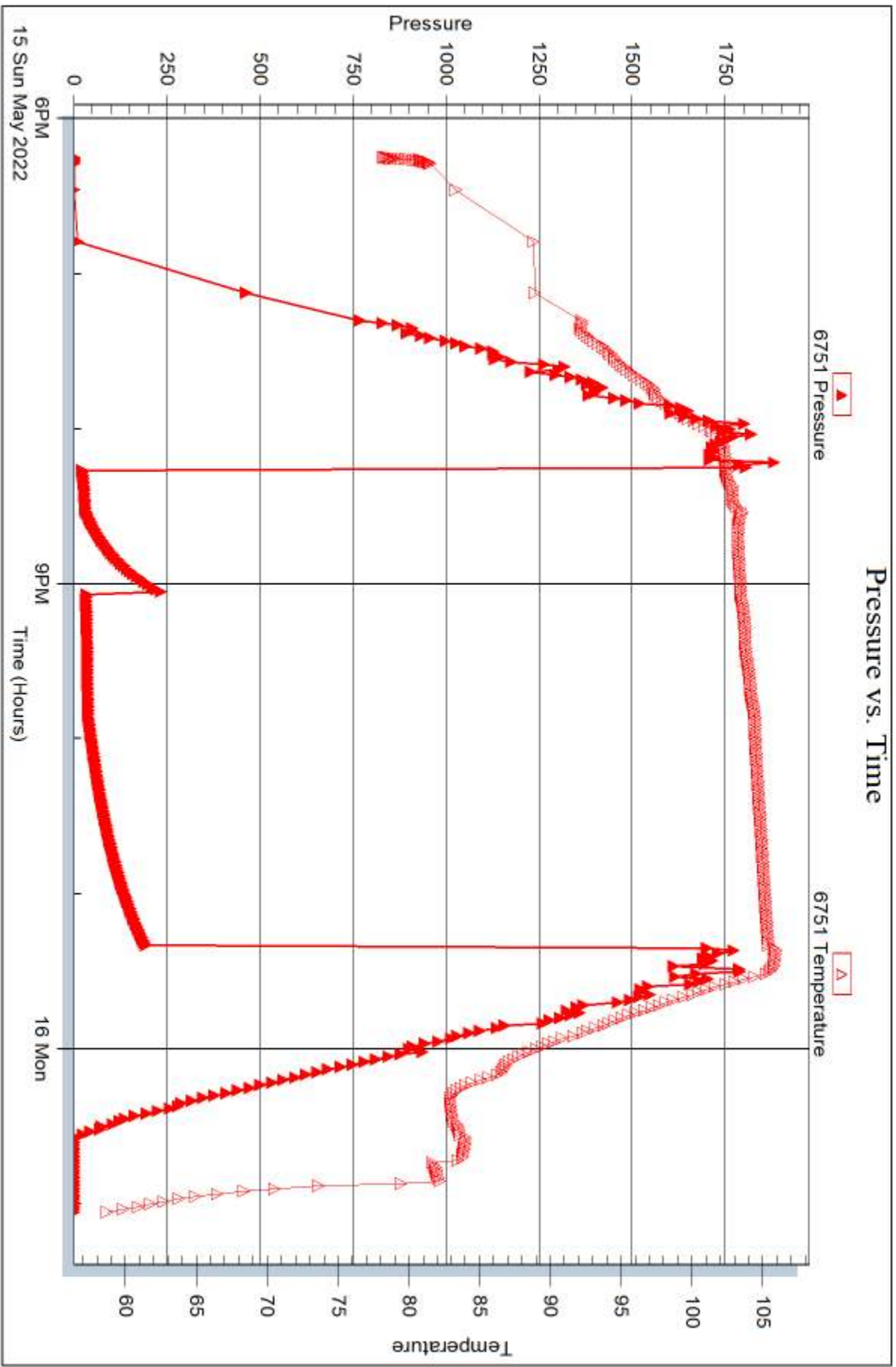
Laboratory Name:

Laboratory Location:

Recovery Comments:

### Pressure vs. Time







## DRILL STEM TEST REPORT

Prepared For: **JEL Resources, LLC**

6545 South Riviera Way  
Auro, CO 80016

ATTN: Jeff Lawler

**9-22s-13wStafford,KS**

**Betty Hullman Estate #2-9**

Start Date: 2022.05.16 @ 11:46:00

End Date: 2022.05.16 @ 19:16:02

Job Ticket #: 68511                      DST #: 4

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.05.19 @ 12:09:30



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

JEL Resources, LLC  
6545 South Riviera Way  
Auro, CO 80016  
ATTN: Jeff Lawler

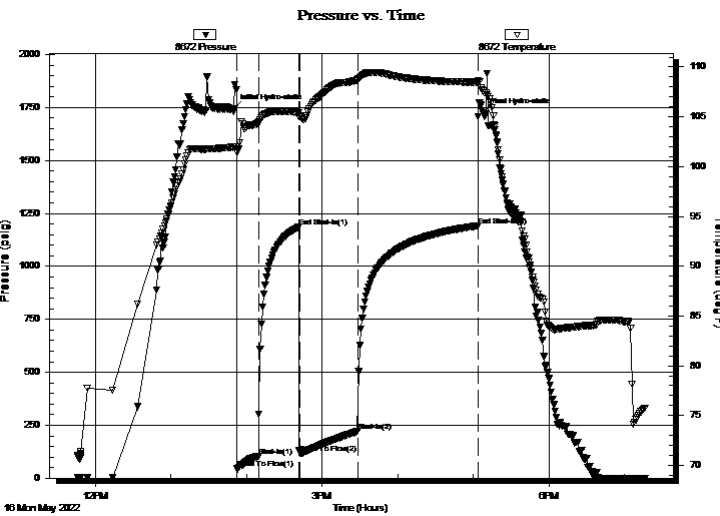
**Betty Hullman Estate #2-9**  
**9-22s-13wStafford,KS**  
Job Ticket: 68511 **DST#: 4**  
Test Start: 2022.05.16 @ 11:46:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 13:52:32  
Time Test Ended: 19:16:02  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Chris Hagman  
Unit No: 69  
Interval: **3721.00 ft (KB) To 3789.00 ft (KB) (TVD)**  
Reference Elevations: 1909.00 ft (KB)  
Total Depth: 3789.00 ft (KB) (TVD)  
1899.00 ft (CF)  
Hole Diameter: 7.80 inches Hole Condition: Good  
KB to GR/CF: 10.00 ft

**Serial #: 8672** **Inside**  
Press@RunDepth: 221.12 psig @ 3723.00 ft (KB) Capacity: psig  
Start Date: 2022.05.16 End Date: 2022.05.16 Last Calib.: 2022.05.16  
Start Time: 11:46:01 End Time: 19:16:02 Time On Btm: 2022.05.16 @ 13:50:02  
Time Off Btm: 2022.05.16 @ 17:07:32

**TEST COMMENT:** IF: 15 min., BOB 8 min., strong building blow, 17 inches  
IS: 30 min., blow back 5 min., weak surface blow  
FF: 45 min., BOB 10 min., strong building blow, 33 inches  
FSI: 90 min., blow back 5 min., 2.5 inches



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1745.27	101.97	Initial Hydro-static
3	46.12	101.44	Open To Flow (1)
20	104.20	104.36	Shut-In(1)
52	1185.53	105.41	End Shut-In(1)
53	118.76	105.13	Open To Flow (2)
99	221.12	108.71	Shut-In(2)
194	1192.11	108.48	End Shut-In(2)
198	1723.84	107.58	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
450.00	gassy oil 5%G,95%O	6.04
0.00	63' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

JEL Resources, LLC  
6545 South Riviera Way  
Auro, CO 80016  
ATTN: Jeff Lawler

**Betty Hullman Estate #2-9**  
**9-22s-13wStafford,KS**  
Job Ticket: 68511 **DST#: 4**  
Test Start: 2022.05.16 @ 11:46:00

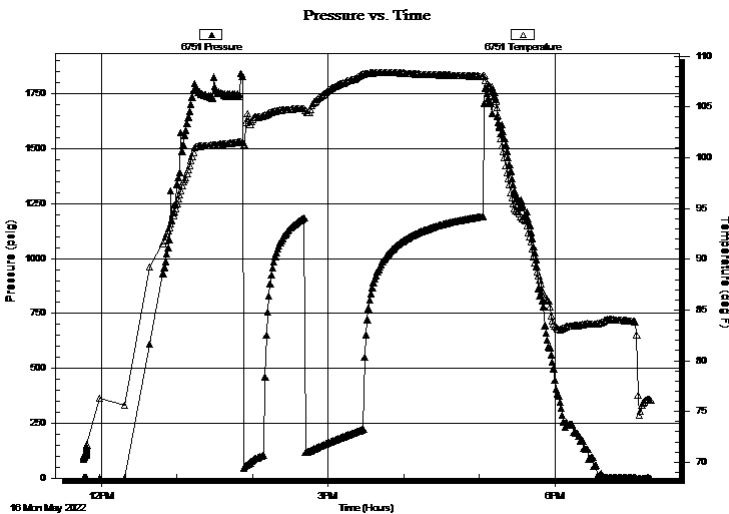
## GENERAL INFORMATION:

Formation: **Arbuckle**  
Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
Time Tool Opened: 13:52:32 Tester: Chris Hagman  
Time Test Ended: 19:16:02 Unit No: 69  
**Interval: 3721.00 ft (KB) To 3789.00 ft (KB) (TVD)** Reference Elevations: 1909.00 ft (KB)  
Total Depth: 3789.00 ft (KB) (TVD) 1899.00 ft (CF)  
Hole Diameter: 7.80 inches Hole Condition: Good KB to GR/CF: 10.00 ft

## Serial #: 6751 Outside

Press@RunDepth: psig @ 3723.00 ft (KB) Capacity: psig  
Start Date: 2022.05.16 End Date: 2022.05.16 Last Calib.: 1899.12.30  
Start Time: 11:46:01 End Time: 19:16:02 Time On Btm:  
Time Off Btm:

TEST COMMENT: IF: 15 min., BOB 8 min., strong building blow, 17 inches  
IS: 30 min., blow back 5 min., weak surface blow  
FF: 45 min., BOB 10 min., strong building blow, 33 inches  
FS: 90 min., blow back 5 min., 2.5 inches



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
450.00	gassy oil 5%G,95%O	6.04
0.00	63' GIP	0.00

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

JEL Resources, LLC

**Betty Hullman Estate #2-9**

6545 South Riviera Way  
Auro, CO 80016

**9-22s-13wStafford,KS**

Job Ticket: 68511

**DST#: 4**

ATTN: Jeff Lawler

Test Start: 2022.05.16 @ 11:46:00

## Tool Information

Drill Pipe:	Length: 3666.00 ft	Diameter: 3.80 inches	Volume: 51.42 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 51.57 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3721.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	68.00 ft			
Tool Length:	98.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut In Tool	5.00			3696.00	
Hydraulic tool	5.00			3701.00	
Isolator Sub	3.00			3704.00	
Jars	5.00			3709.00	
Safety Joint	3.00			3712.00	
Packer	5.00			3717.00	30.00 Bottom Of Top Packer
Packer	4.00			3721.00	
Stubb	1.00			3722.00	
Perforations	1.00			3723.00	
Recorder	0.00	8672	Inside	3723.00	
Recorder	0.00	6751	Outside	3723.00	
Pickup sub perf	5.00			3728.00	
Perforations	24.00			3752.00	
Change Over Sub	1.00			3753.00	
Drill Pipe	32.00			3785.00	
Change Over Sub	1.00			3786.00	
Bullnose	3.00			3789.00	68.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>98.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

JEL Resources, LLC

**Betty Hullman Estate #2-9**

6545 South Riviera Way  
Auro, CO 80016

**9-22s-13wStafford,KS**

Job Ticket: 68511

**DST#: 4**

ATTN: Jeff Lawler

Test Start: 2022.05.16 @ 11:46:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

21 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 47.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.98 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 8000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
450.00	gassy oil 5%G,95%O	6.039
0.00	63' GIP	0.000

Total Length: 450.00 ft      Total Volume: 6.039 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

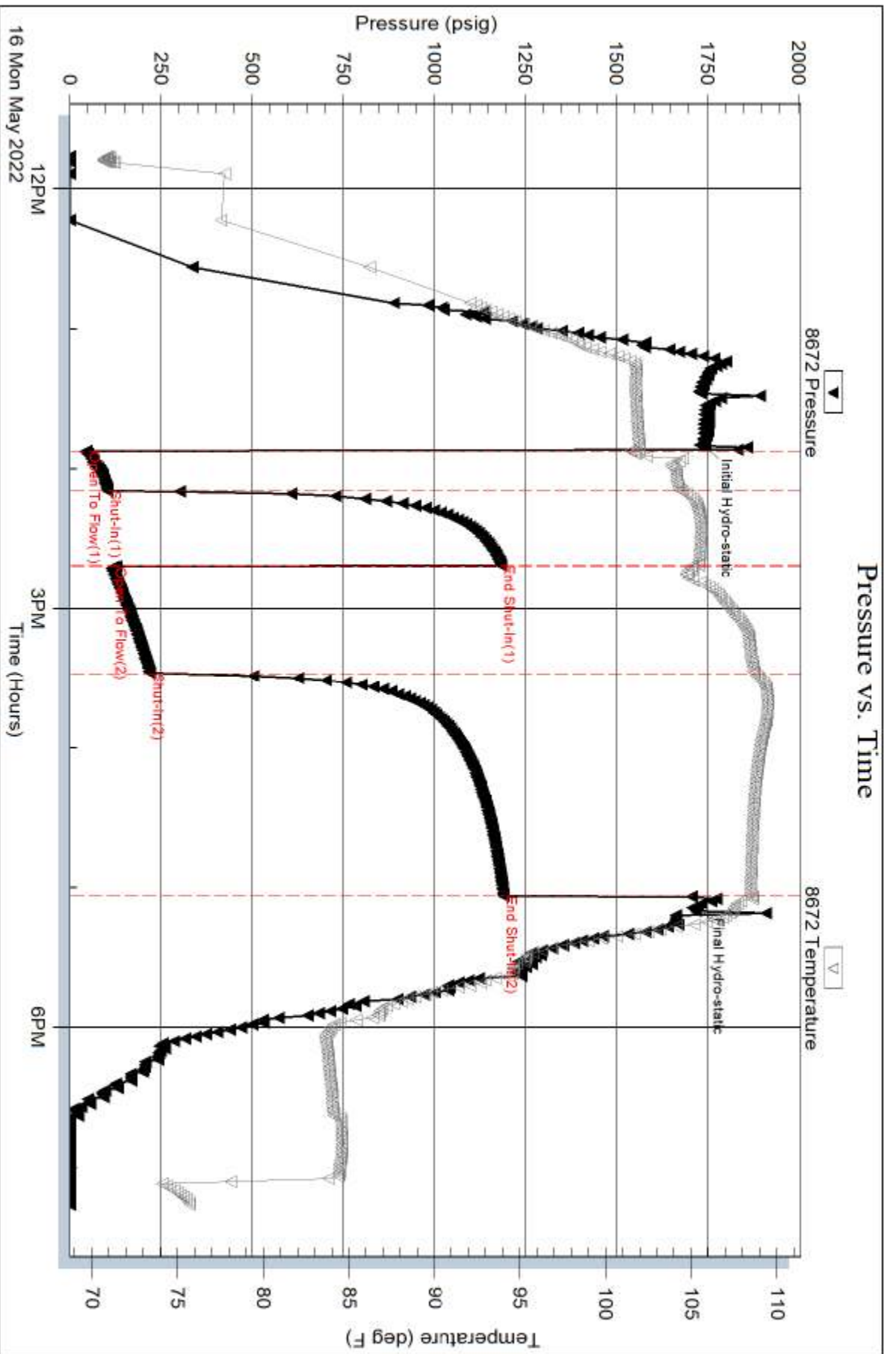
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: API=23@80F=21



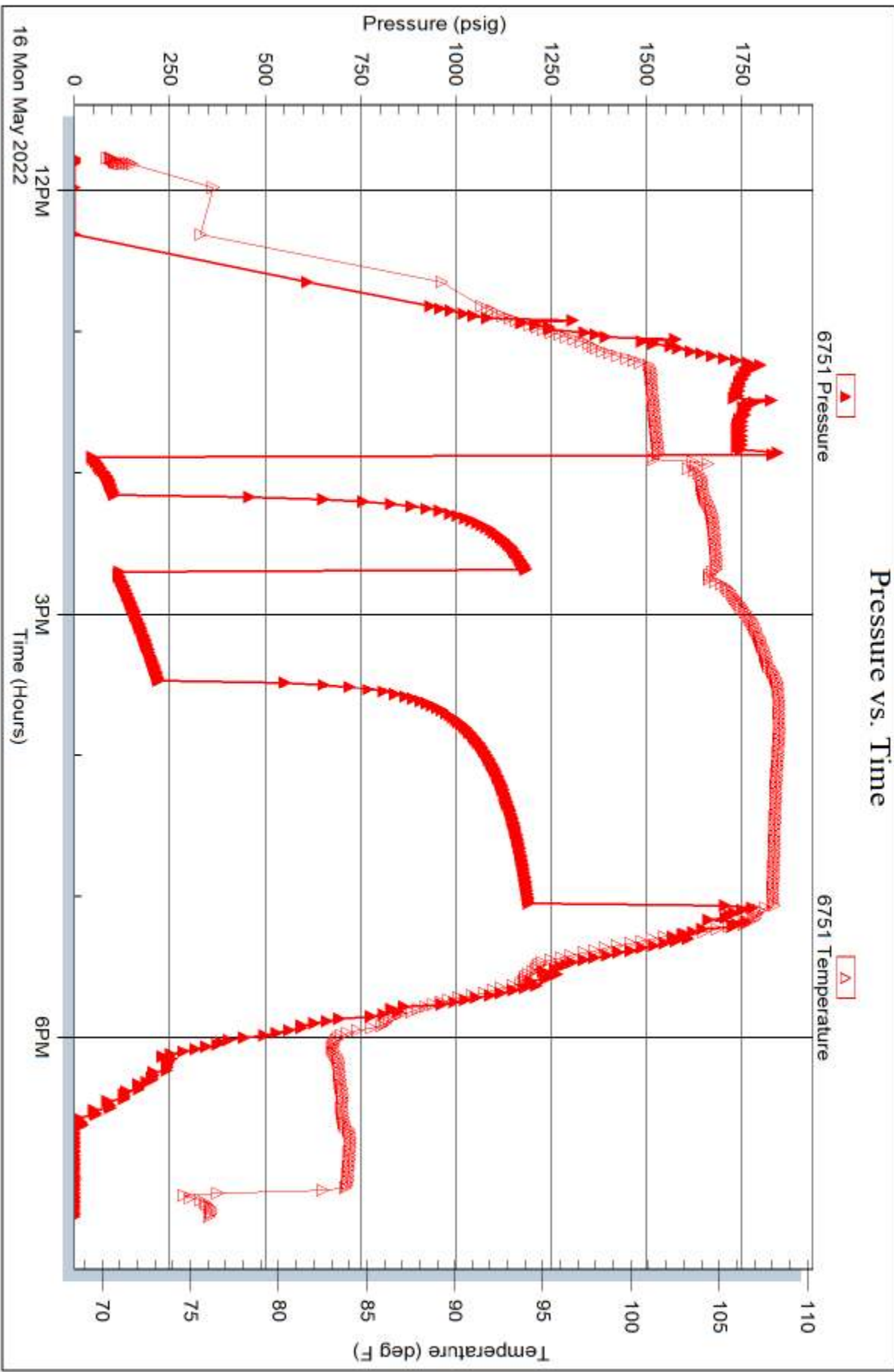


Serial #: 6751

Outside JEL Resources, LLC

9-22s-13w Stafford, KS

DST Test Number: 4



16 Mon May 2022

3PM  
Time (Hours)

6PM



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68508**

Well Name & No. Betty Hullman Estate 2-9 Test No. 1 Date 5-13-22  
 Company JEL Resources, LLC Elevation 1909 KB 1899 GL  
 Address 6545 South Riviera Way Aurora, CO 80016  
 Co. Rep / Geo. Jeff Lawler Rig Southwind #1  
 Location: Sec. 9 Twp 22 Rge. 13 Co. Stafford State KS

Interval Tested 3425-3466 Zone Tested LISC D-F  
 Anchor Length 41' Drill Pipe Run 3382 Mud Wt. 9.3  
 Top Packer Depth 3420 Drill Collars Run 30 Vis 49  
 Bottom Packer Depth 3425 Wt. Pipe Run N.A. WL 8.8  
 Total Depth 3466 Chlorides 6000 ppm System LCM 1#

Blow Description IF: 15 min., BOB 4 min., strong building blow, 34 inches  
PSB: 30 min., no blow back  
FP: 45 min., BOB 1 min., strong building blow, 79 inches  
PSB: 90 min., no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>70</u>	<u>oily gassy mud</u>	<u>10</u>	<u>20</u>	<u>70</u>	<u>70</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>440' GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 70 BHT 104 Gravity API RW @ °F Chlorides ppm

(A) Initial Hydrostatic 1621  Test conv. 1800 T-On Location 1730  
 (B) First Initial Flow 74  Jars 300 T-Started 2000  
 (C) First Final Flow 31  Safety Joint \_\_\_\_\_ T-Open 2220  
 (D) Initial Shut-In 588  Circ Sub \_\_\_\_\_ T-Pulled 0120  
 (E) Second Initial Flow 32  Hourly Standby \_\_\_\_\_ T-Out 0315  
 (F) Second Final Flow 44  Mileage 70rt 105 Comments bats on @ 1952  
 (G) Final Shut-In 653  Sampler \_\_\_\_\_ EM @ 1750  
 (H) Final Hydrostatic 1591  Straddle \_\_\_\_\_  EM Tool good -350

Initial Open 15  Ruined Shale Packer \_\_\_\_\_  
 Initial Shut-In 30  Ruined Packer \_\_\_\_\_  
 Final Flow 45  Extra Copies \_\_\_\_\_  
 Final Shut-In 90  Extra Recorder \_\_\_\_\_ Sub Total 0  
 Extra Packer \_\_\_\_\_ Total 1855  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2205 MP/DST Disc'l \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Chris Hagan

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. 68509

Well Name & No. Betty Hullman Estates 29 Test No. 2 Date 5-14-22  
 Company JEL Resources, LLC Elevation 1909 KB 1899 GL  
 Address 6545 S Riverside Way Aurora, CO 80016  
 Co. Rep / Geo. Jeff Lawler Rig Discovery #2  
 Location: Sec. 9 Twp 22 Rge. 13 Co. Stafford State KS

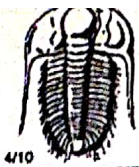
Interval Tested 3516-3580 Zone Tested LKC H-J  
 Anchor Length 64' Drill Pipe Run 3477 Mud Wt. 8.9  
 Top Packer Depth 3511 Drill Collars Run 30 Vis 65  
 Bottom Packer Depth 3516 Wt. Pipe Run N.A. WL 9.0  
 Total Depth 3580 Chlorides 5500 ppm System LCM .5 #  
 Blow Description IF: 15 min, BOB 3 min, strong building blow, 29 inches  
ISR: 30 min, no blow back  
FF: 45 min, BOB 4 min, strong building blow, 54 inches  
FSR: 90 min, no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>693</u>	<u>gassy water</u>	<u>5</u>		<u>95</u>	<u>5</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 693 BHT 108 Gravity API RW 260 @ 73 °F Chlorides 26,000 ppm  
 (A) Initial Hydrostatic 1710  Test COM 1800 T-On Location 1630  
 (B) First Initial Flow 54  Jars 300 T-Started 1730  
 (C) First Final Flow 145  Safety Joint \_\_\_\_\_ T-Open 1935  
 (D) Initial Shut-In 657  Circ Sub \_\_\_\_\_ T-Pulled 2235  
 (E) Second Initial Flow 161  Hourly Standby \_\_\_\_\_ T-Out \_\_\_\_\_  
 (F) Second Final Flow 343  Mileage 70 miles 105 Comments Bats @ 1707  
 (G) Final Shut-In 661  Sampler \_\_\_\_\_ EM @ 1700  
 (H) Final Hydrostatic 1685  Straddle \_\_\_\_\_  EM Tool good  
 Ruined Shale Packer \_\_\_\_\_  
 Ruined Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  
 Day Standby \_\_\_\_\_  
 Accessibility \_\_\_\_\_  
 Sub Total 2205 Sub Total 2205 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Chris Heggen

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68510**

Well Name & No. Betty Hallman Estate 2-9 Test No. 3 Date 5-15-22  
 Company JEL Resources LLC Elevation 1909 KB 1899 GL  
 Address 6545 S Riviera Way Aurora, CO 80015  
 Co. Rep / Geo. Jeff Lawler Rig Discovery #2  
 Location: Sec. 9 Twp 22 Rge. 13 Co. Stafford State KS

Interval Tested 3672-3740 Zone Tested Urtica  
 Anchor Length 68' Drill Pipe Run 3635 Mud Wt. 9.2  
 Top Packer Depth 3667 Drill Collars Run 30 Vis 44  
 Bottom Packer Depth 3672 Wt. Pipe Run W.A. WL 9.2  
 Total Depth 3740 Chlorides 10,000 ppm System LCM 2H

Blow Description IF: 15 min., weak surface blow, 1 inch  
ISB: 30 min., no blow back  
PF: 45 min., weak surface blow, .5 inches  
FSB: 90 min., no blow back

Rec	Feet of	%gas	%oil	%water	%mud
35	mud				100

Rec Total 35 BHT 106 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1720  Test Conv. 1800 T-On Location 1800  
 (B) First Initial Flow 21  Jars 300 T-Started 1815  
 (C) First Final Flow 30  Safety Joint \_\_\_\_\_ T-Open 2015  
 (D) Initial Shut-In 234  Circ Sub \_\_\_\_\_ T-Pulled 2315  
 (E) Second Initial Flow 34  Hourly Standby \_\_\_\_\_ T-Out ~~2015~~ 0100  
 (F) Second Final Flow 38  Mileage X 70 <sup>105</sup> Comments bats on @ 1815  
 (G) Final Shut-In 193  Sampler \_\_\_\_\_ EM @ 1806  
 (H) Final Hydrostatic 1713  Straddle \_\_\_\_\_  EM Tool good  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 2205  
 Sub Total 2205 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative Chris Hogden

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# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **68511**

Well Name & No. Betty Hullman Estates 2-9 Test No. 4 Date 5-16-20  
 Company JEL Resources, LLC Elevation 1909 KB 1899 GL  
 Address 6545 S Riviera Way Aurora, CO 80016  
 Co. Rep / Geo. Jeff Lawler Rig Discovery #2  
 Location: Sec. 9 Twp 22 Rge. 13 Co. Stefford State KS

Interval Tested 3721-3789 Zone Tested Airbuckle  
 Anchor Length 68' Drill Pipe Run 3666 Mud Wt. 9.1  
 Top Packer Depth 3716 Drill Collars Run 30 Vis 47  
 Bottom Packer Depth 3721 Wt. Pipe Run N.A. WL 10  
 Total Depth 3789 Chlorides 8000 ppm System LCM 1.5

Blow Description IF: 15 min., BOB 8 min, strong building blow, 17 inches  
IS: 30 min., blow back 5 min., weak surface  
FP: 45 min., BOB 10 min, strong building blow, 33 inches  
FS: 90 min., blow back 5 min., 2.5 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>450</u>	<u>gassy oil</u>	<u>5</u>	<u>95</u>		
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of <u>63' GIP</u>	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 450 BHT 109 Gravity 21 API 23 @ 80 °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic <u>1745</u>	<input checked="" type="checkbox"/> Test <u>conv.</u> 1800	T-On Location <u>1145</u>
(B) First Initial Flow <u>46</u>	<input checked="" type="checkbox"/> Jars <u>300</u>	T-Started <u>1200</u>
(C) First Final Flow <u>104</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>1355</u>
(D) Initial Shut-In <u>1186</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1655</u>
(E) Second Initial Flow <u>119</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>1930</u>
(F) Second Final Flow <u>221</u>	<input checked="" type="checkbox"/> Mileage <u>x 70</u> 105	Comments <u>bits on @ 1146</u>
(G) Final Shut-In <u>1192</u>	<input type="checkbox"/> Sampler _____	<u>EM @ 1148</u>
(H) Final Hydrostatic <u>1724</u>	<input type="checkbox"/> Straddle _____	<input checked="" type="checkbox"/> EM Tool <u>-350</u>
Initial Open <u>15</u>	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>45</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>-350</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Day Standby _____	Total <u>1855</u>
	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____
	Sub Total <u>2205</u>	

Approved By \_\_\_\_\_ Our Representative Chris Hegman

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