

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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OPERATOR

Company: JEL RESOURCES, LLC
 Address: 6545 S RIVERIA WAY
 AURORA, CO 80202

Contact Geologist: MICHAEL S CONNELLY
 Contact Phone Nbr: (303) 981-34661
 Well Name: BETTY HULLMAN ESTATE 31-10
 Location: NE SE SW SW Sec. 10 - 22S - 13W
 API: 15-185-24088
 Pool:
 State: KANSAS

Field: SILVER BELL
 Country: USA

Scale 1:240 Imperial

Well Name: BETTY HULLMAN ESTATE 31-10
 Surface Location: NE SE SW SW Sec. 10 - 22S - 13W
 Bottom Location:
 API: 15-185-24088
 License Number: 35528
 Spud Date: 9/29/2021 Time: 8:15 PM
 Region: STAFFORD COUNTY, KS
 Drilling Completed: 10/7/2021 Time: 12:06 PM
 Surface Coordinates: 380' FSL & 1270' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1888.00ft
 K.B. Elevation: 1896.00ft
 Logged Interval: 2900.00ft To: 3885.00ft
 Total Depth: 3885.00ft
 Formation: LANSING-KANSAS CITY; VIOLA; ARBUCKLE
 Drilling Fluid Type: Chemical/Fresh Water Gel

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: -98.743245
 Latitude: 38.145678
 N/S Co-ord: 380' FSL
 E/W Co-ord: 1270' 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: 9/29/2021 Time: 8:15 PM
 TD Date: 10/7/2021 Time: 12:06 PM
 Rig Release: 10/8/2021 Time: 8:00 AM

ELEVATIONS

K.B. Elevation: 1896.00ft
K.B. to Ground: 8.00ft

Ground Elevation: 1888.00ft

NOTES


DUE TO ECONOMICAL RECOVERY ON DST #5 IT WAS DECIDED TO RUN 5 1/2" PRODUCTION CASING & FURTHER EVALUATE THE ARBUCKLE WITH PERFORATION.

RESPECTFULLY SUBMITTED,
JEFF LAWLER

WELL COMPARISON SHEET

FORMATION	BETTY HULLMAN ESTATE #1-10				FARAGO #1				CURTIS #1-16				BOILEAU #1				SOEKEN #1			
	1896		1888		1895		1895		1895		1897		1890		1890		1890			
	LOG TOPS	SAMPLE TOPS	LOGS	LOG	SMPL.	COMP. CARD	LOG	SMPL.	COMP. CARD	LOG	SMPL.	PLUGGING REPORT	LOG	SMPL.	LOG	SMPL.	LOG	SMPL.		
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.
ANHYDRITE TOP	751	1145	763	1133	752	1143	+ 2	- 10	755	1140	+ 5	- 7	747	1150	- 5	- 17	740	1150	- 5	- 17
BASE	767	1129	780	1116	778	1117	+ 12	- 1	778	1117	+ 12	- 1	772	1125	+ 4	- 9				
TOPEKA	2948	-1052	2947	-1051	2947	-1052	+ 0	+ 1	2965	-1070	+ 18	+ 19								
HEEBNER SHALE	3244	-1348	3245	-1349	3246	-1351	+ 3	+ 2	3264	-1369	+ 21	+ 20	3237	-1340	- 8	- 9	3244	-1354	+ 6	+ 5
TORONTO	3264	-1368	3267	-1371	3269	-1374	+ 6	+ 3	3285	-1390	+ 22	+ 19	3259	-1362	- 6	- 9				
DOUGLAS SHALE	3279	-1383	3278	-1382	3282	-1387	+ 4	+ 5	3300	-1405	+ 22	+ 23	3273	-1376	- 7	- 6				
BROWN LIME	3371	-1475	3368	-1472	3373	-1478	+ 3	+ 6	3394	-1499	+ 24	+ 27	3366	-1469	- 6	- 3	3371	-1481	+ 6	+ 9
LKC	3391	-1495	3389	-1493	3394	-1499	+ 4	+ 6	3414	-1519	+ 24	+ 26	3385	-1488	- 7	- 5	3391	-1501	+ 6	+ 8
STARK	3572	-1676	3571	-1675	3577	-1682	+ 6	+ 7	3590	-1695	+ 19	+ 20								
BKC	3602	-1706	3602	-1706	3615	-1720	+ 14	+ 14	3620	-1725	+ 19	+ 19	3618	-1721	+ 15	+ 15				
VIOLA	3684	-1788	3684	-1788	3696	-1801	+ 13	+ 13	3721	-1826	+ 38	+ 38	3686	-1789	+ 1	+ 1	3681	-1791	+ 3	+ 3
SIMPSON SHALE	3731	-1835	3731	-1835	3740	-1845	+ 10	+ 10	3754	-1859	+ 24	+ 24	3724	-1827	- 8	- 8	3731	-1841	+ 6	+ 6
SIMPSON SAND	3733	-1837	3738	-1842	3764	-1869	+ 32	+ 27	3774	-1879	+ 42	+ 37								
ARBUCKLE	3784	-1888	3781	-1885	3792	-1897	+ 9	+ 12	3806	-1911	+ 23	+ 26	3787	-1890	+ 2	+ 5	3780	-1890	+ 2	+ 5
TOTAL DEPTH	3885	-1989	3885	-1989	3805	-1910	- 79	- 79	3940	-2045	+ 56	+ 56	3850	-1953	- 36	- 36	3815	-1925	- 64	- 64

DST #1 LKC I - J 3527' - 3570'

 <p style="font-size: 24px; font-weight: bold; margin: 0;">TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT
	JEL Resources, LLC 6545 S. Riviera Way Aurora, Co. 80202 ATTN: Jeff Lawler

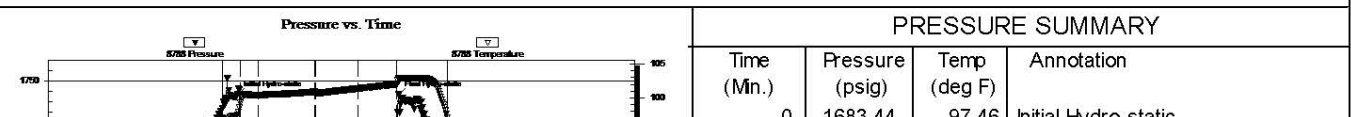
GENERAL INFORMATION:

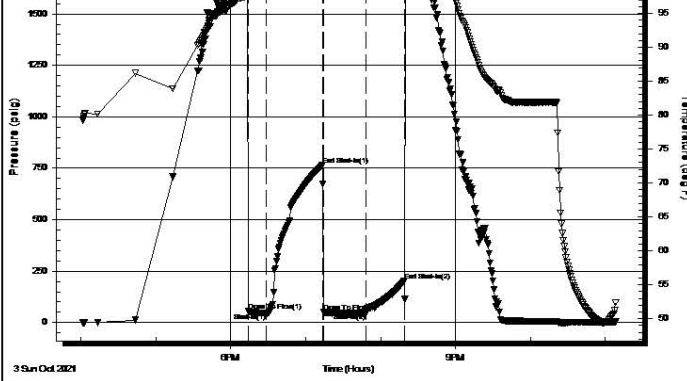
Formation: LKC "I-J" Deviated: No Whipstock: ft (KB) Time Tool Opened: 18:14:13 Time Test Ended: 23:08:28	Test Type: Conventional Bottom Hole (Initial) Tester: Matt Smith Unit No: 68
Interval: 3527.00 ft (KB) To 3570.00 ft (KB) (TVD) Total Depth: 3570.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Reference Elevations: 1896.00 ft (KB) 1888.00 ft (CF) KB to GR/CF: 8.00 ft

Serial #: 8788 Inside

Press@RunDepth: 45.19 psig @ 3528.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2021.10.03 End Date: 2021.10.03	Last Calib.: 2021.10.03
Start Time: 16:01:33 End Time: 23:08:27	Time On Btm: 2021.10.03 @ 18:11:58
	Time Off Btm: 2021.10.03 @ 20:20:58

TEST COMMENT: IF: Weak Blow . Built to 3 1/4". (15)
 ISI: No Blow . (45)
 FF: No Blow . Flushed Tool after 5 Mins. No Blow . (30)
 FSI: No Blow . (30)





0	1883.44	97.48	Initial Hydro-static
3	55.77	99.23	Open To Flow (1)
17	45.70	100.42	Shut-In(1)
62	765.17	100.91	End Shut-In(1)
63	51.73	100.69	Open To Flow (2)
97	45.19	101.37	Shut-In(2)
128	203.68	102.01	End Shut-In(2)
129	1683.14	102.86	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
47.00	DM 100%m	0.47

Gas Rates


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

Trilobite Testing, Inc

Ref. No: 67582

Printed: 2021.10.04 @ 07:28:04

DST #2 LKC I-L 3525' - 3610'

	DRILL STEM TEST REPORT	
	JEL Resources, LLC 6545 S. Riviera Way Aurora, Co. 80202 ATTN: Jeff Lawler	10-22s-13w Stafford Co Ks Betty Hullman 1-10 Job Ticket: 67583 DST#: 2 Test Start: 2021.10.04 @ 09:31:28

GENERAL INFORMATION:

Formation: **LKC "I-L"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:25:28
 Time Test Ended: 17:26:13

Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68

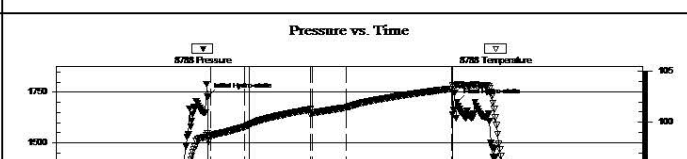
Interval: **3525.00 ft (KB) To 3610.00 ft (KB) (TVD)**
 Total Depth: 3610.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1896.00 ft (KB)
 1888.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8788 Inside

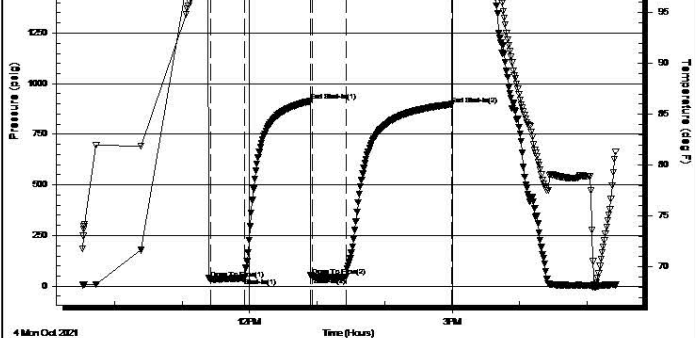
Press@RunDepth: 46.24 psig @ 3526.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2021.10.04 End Date: 2021.10.04	Last Calib.: 2021.10.04
Start Time: 09:31:33 End Time: 17:26:12	Time On Btm: 2021.10.04 @ 11:22:28
	Time Off Btm: 2021.10.04 @ 15:04:28

TEST COMMENT: IF: Weak Blow . Built to 1.96". (30)
 IS: No Blow . (60)
 FF: Weak Blow . Built to 1.28". (30)
 FS: No Blow . (90).



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1726.86	98.88	Initial Hydro-static
3	34.73	98.67	Open To Flow (1)



34	40.16	99.54	Shut-In(1)
92	914.07	101.26	End Shut-In(1)
93	50.57	100.95	Open To Flow (2)
123	46.24	101.44	Shut-In(2)
217	898.19	103.28	End Shut-In(2)
222	1702.26	103.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	GOSM 2%g 98% m	0.44

* Recovery from multiple tests

Gas Rates


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

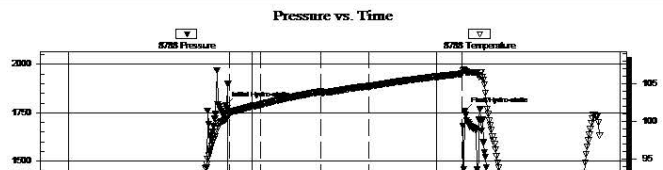
Trilobite Testing, Inc

Ref. No: 67583

Printed: 2021.10.04 @ 21:12:44

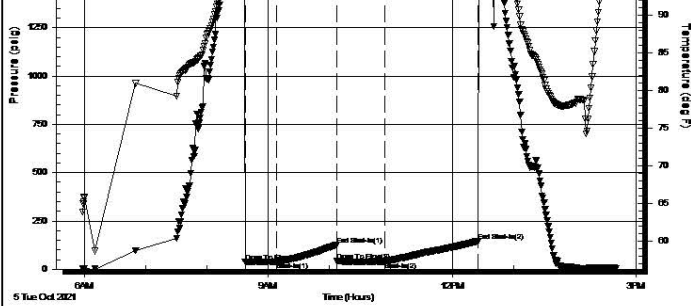
DST #3 CONGLOMERATE - VIOLA 3640' - 3740'

	<h3>DRILL STEM TEST REPORT</h3>
<p>JEL Resources, LLC</p> <p>6545 S. Riviera Way Aurora, Co. 80202</p> <p>ATTN: Jeff Lawler</p>	<p>10-22s-13w Stafford Co Ks</p> <p>Betty Hullman 1-10</p> <p>Job Ticket: 67584 DST#: 3</p> <p>Test Start: 2021.10.05 @ 05:58:15</p>
<p>GENERAL INFORMATION:</p> <p>Formation: Conglomerate-Viola</p> <p>Deviated: No Whipstock: ft (KB)</p> <p>Time Tool Opened: 08:37:30</p> <p>Time Test Ended: 14:40:15</p> <p>Interval: 3640.00 ft (KB) To 3740.00 ft (KB) (TVD)</p> <p>Total Depth: 3570.00 ft (KB) (TVD)</p> <p>Hole Diameter: 7.88 inches Hole Condition: Fair</p> <p>Reference Elevations: 1896.00 ft (KB)</p> <p> 1888.00 ft (CF)</p> <p> KB to GR/CF: 8.00 ft</p>	
<p>Serial #: 8788 Inside</p> <p>Press@RunDepth: 40.08 psig @ 3641.00 ft (KB)</p> <p>Start Date: 2021.10.05 End Date: 2021.10.05</p> <p>Start Time: 05:58:20 End Time: 14:40:15</p> <p>Capacity: 8000.00 psig</p> <p>Last Calib.: 2021.10.05</p> <p>Time On Btm: 2021.10.05 @ 08:34:15</p> <p>Time Off Btm: 2021.10.05 @ 12:28:15</p>	
<p>TEST COMMENT: IF: Weak Blow . Built to 1 3/4". (30)</p> <p> ISI: No Blow . (60)</p> <p> FF: Weak Blow . Built to 1 1/4". (45)</p> <p> FSI: No Blow . (90)</p>	



PRESSURE SUMMARY

Time (Mn.)	Pressure (psig)	Temp (deg F)	Annotation
0	1787.00	100.26	Initial Hydro-static
4	39.15	101.23	Open To Flow (1)
34	38.09	102.25	Shut-In(1)



93	127.00	103.98	End Shut-In(1)
93	41.58	103.91	Open To Flow (2)
140	40.08	104.69	Shut-In(2)
231	145.33	106.34	End Shut-In(2)
234	1756.87	106.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
34.00	GOSM 1%g 99%m	0.28
0.00	26" GIP	0.00

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 67584

Printed: 2021.10.05 @ 16:06:49

DST #4 SIMPSON SAND - ARBUCKLE 3725' - 3790'

	DRILL STEM TEST REPORT	
	JEL Resources, LLC 6545 S. Riviera Way Aurora, Co. 80202 ATTN: Jeff Lawler	10-22s-13w Stafford Co Ks Betty Hullman 1-10 Job Ticket: 67585 DST#: 4 Test Start: 2021.10.06 @ 01:13:50

GENERAL INFORMATION:

Formation: **Simpson Sand - Arbuc**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:39:35
 Time Test Ended: 10:07:20

Interval: **3725.00 ft (KB) To 3790.00 ft (KB) (TVD)**
 Total Depth: 3790.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

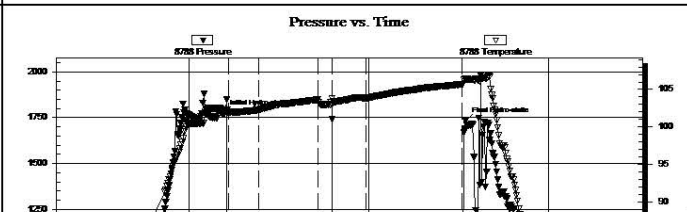
Test Type: Conventional Bottom Hole (Reset)
 Tester: Matt Smith
 Unit No: 68

Reference Elevations: 1896.00 ft (KB)
 1888.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8788 Inside

Press@RunDepth:	58.67 psig @	3726.00 ft (KB)	Capacity:	8000.00 psig	
Start Date:	2021.10.06	End Date:	2021.10.06	Last Calib.:	2021.10.06
Start Time:	01:13:55	End Time:	10:07:20	Time On Btm:	2021.10.06 @ 03:35:05
				Time Off Btm:	2021.10.06 @ 07:37:05

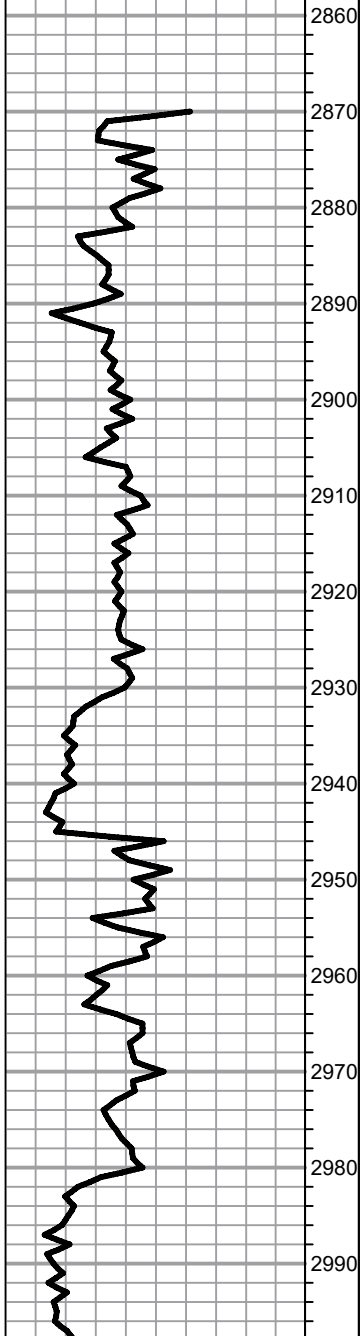
TEST COMMENT: IF: Weak Blow . Built to 1.46". (30)
 IS: No Blow . (60)
 FF: Weak Blow . Built to 1.30". (45)
 FS: No Blow . (90)



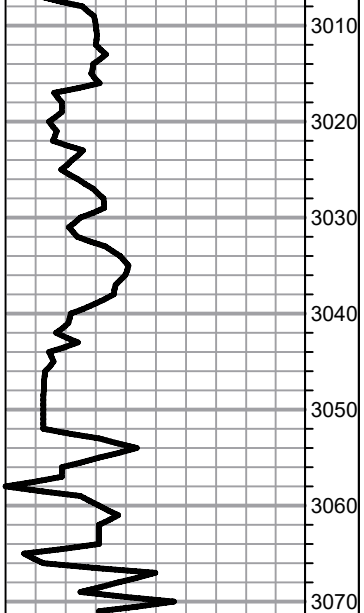
PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1772.42	102.30	Initial Hydro-static
5	49.72	101.97	Open To Flow (1)
35	49.29	102.27	Shut-In(1)
95	943.27	103.64	End Shut-In(1)

0 Gamma (API) 150
 6 Cal (in) 16



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



1' DRILL TIME THROUGH THE ANHYDRITE FROM 740' - 790'

**10' DRILL TIME FROM 2870' - TD
 10' WET/DRY SAMPLES FROM 2920' - RTD**

GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 2870' - RTD

8 5/8" SURFACE PIPE SET @ 444' SURVEY 1/2 deg.

**ANHYDRITE TOP 763' (+1133) E-LOG 71' (+1145)
 ANHYDRITE BASE 780' (+1116) E-LOG 767' (+1129)**

Sh- Gray Black

TOPEKA 2947' (-1051) E-LOG 2948' (-1052) Lm- Buff Gray, FXLN, sl fsl, dense, well cemented, sctrd XLN porosity

Sh- Gray Green

Lm- Cream Off White, FXLN, loosely cemented, granular, dense XLN porosity, barren, some soft white chalk

Lm- Cream, FXLN, fsl, well cemented, dense XLN porosity

Lm- Off White, FXLN, granular, loosely cemented, fsl, dense intergranular porosity, chalky in part w/ some soft white chalk, barren

Lm- Cream, FXLN, massive sl dolomitic & cherty Ls w/ dense XLN porosity, barren

Sh- Gray Maroon

Chert- Dove Gray, fsl fresh bedded crytpXLN

Lm- Off White Cream, Vf Grn, chalky mud supported matrix & abundant soft white chalk

Sh- Black Maroon, fissile & carbonaceous, gritty & earthy

Lm- Cream Off White, FXLN, fsl, w/ fusulinids, dense XLN porosity, barren, some soft white chalk

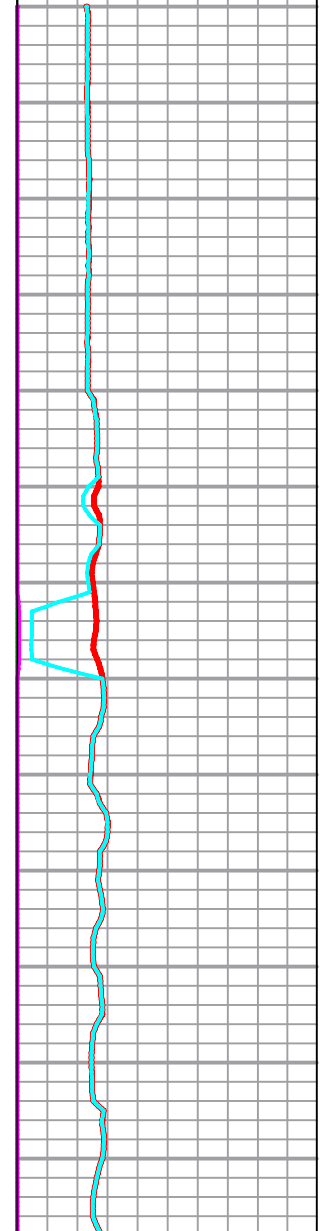
Lm- Off White Buff, FXLN, dense, well to loosely cemented, trashy w/ fsl fragments, dense XLN porosity, barren

Sh- Black Green Gray, fisile & carbonaceous, waxy, soft gummy clumps

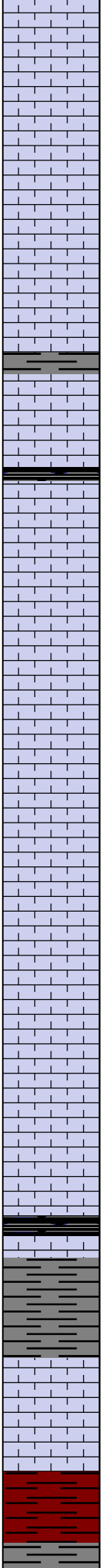
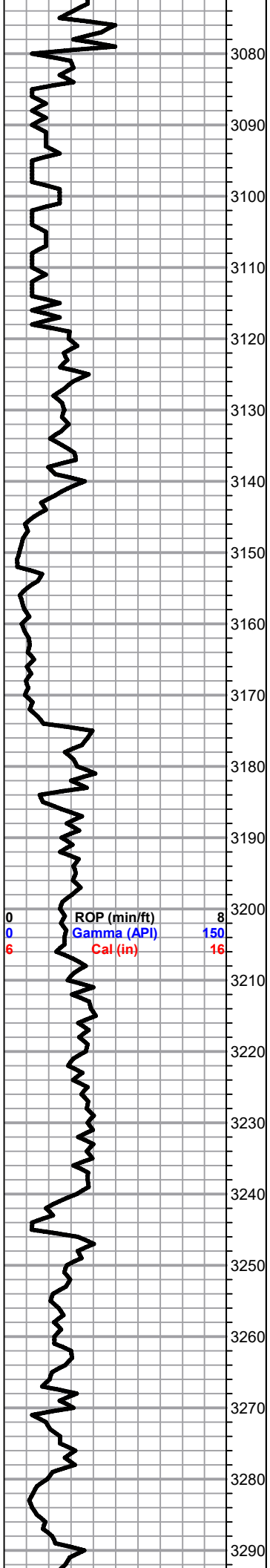
Lm- Buff, VF-FXLN, dense, well cemented, & tight w/ poor vis. porosity,

0 C1 (units) 400
 0 C2 (units) 400
 0 C3 (units) 400
 0 C4 (units) 400

**BIT TRIP @ 2862'
 SURVEY 1/2 deg.**



0 Total Gas (units) 400
 0 C1 (units) 400
 0 C2 (units) 400
 0 C3 (units) 400
 0 C4 (units) 400



barren

Lm- Cream Off White, FXLN, massive, well dev. w/ consistent interXLN porosity, some sctrd clear replacement cementation, some chalk/chalky in part

A/A some sl dolomitic

Lm- Cream Off White, FXLN, sl fsl, sctrd XLN porosity, some soft white chalk

Sh- Gray, semi-waxy, silty & micaceous

Sh- Black Gray, fissile & carbonaceous, silty, some gummy clumps

Lm- Tan, MED XLN, massive, well dev. & granular w/ consistent XLN & fn ppt porosity, barren, much soft white chalk

Lm- A/A

Lm- Off White Buff, VF-FXLN, dense cherty Ls w/ min. vis. porosity

Lm- Buff Tan, VF-FXLN, dense, well cemented, poorly dev. w/ min.-sctrd XLN porosity, barren

A/A

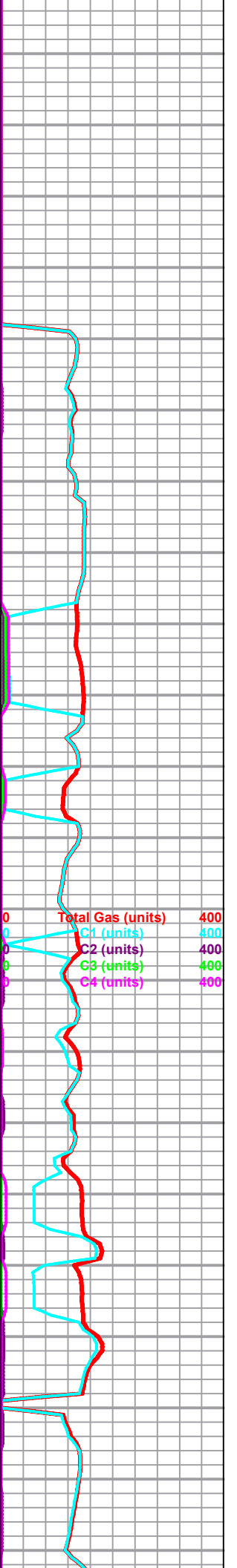
Lm- Tan, VFXLN, dense & tight w/ poor vis. porosity, cherty Ls

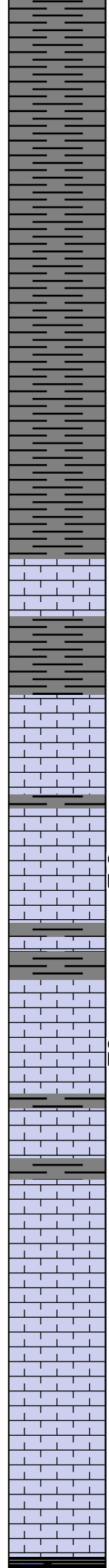
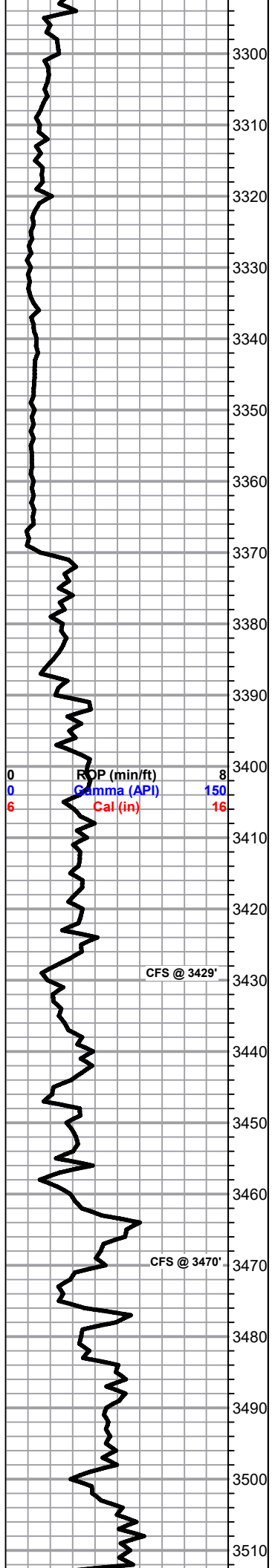
Lm- Cream Off White, FXLN, sl mottled, sctrd XLN porosity & some secondary reXLN porosity, barren

HEEBNER 3245' (-1349) E-LOG 3244' (-1348) Sh- Black Gray, fissile & carbonaceous, silty, argillaceous clumps

TORONTO 3267' (-1371) E-LOG 3264' (-1368) Lm- Off White, FXLN, fsl & oolitic, w/ sctrd XLN porosity, celan & barren, several pcs of sl dolomitic Ls, w/ more consistent XLN porosity, barren

DOUGLAS SHALE 3278' (-1382) E-LOG 3279' (-1383) Sh- Maroon, gritty & earthy





Sh- Gray Maroon Brown, semi-waxy, gritty & earthy, few sl sandy

Sh- Gray, silty, sl calcareous, influx of gummy clumps

Sh- A/A

BROWN LIME 3368' (-1472) E-LOG 3271' (-1375) Lm- Brown, VF-FXLN, mix of tight cryptoXLN & fsl w/ dense XLN porosity, possible fracturing

LKC 3389' (-1493) E-LOG 3391' (-1495) Lm- Cream Buff, FXLN, fsl, sl dolomitic w/ sctrd to dense XLN & secondary reXLN porosity, clean & barren

Lm- Off White, FXLN, sl fsl, sctrd XLN porosity, barren

Lm- Off White, FXLN, oolitic & sl fsl, dense XLN to sctrd fn ppt interoolite porosity, FEW PCS W/ WK LT STN, NO SFO, FR ODR, MOST STN OF DEAD RESIDUAL OIL

CFS @ 3429'

Lm- Cream Off White, FXLN, mix of well to loosely cemented, dense consistent XLN porosity, sctrd clear reXLN, LT SCTRD DRK & BLK DO STN, WK ODR

Lm- Brown, FXLN, dense XLN porosity, fsl w/ fragments, sl trashy, barren

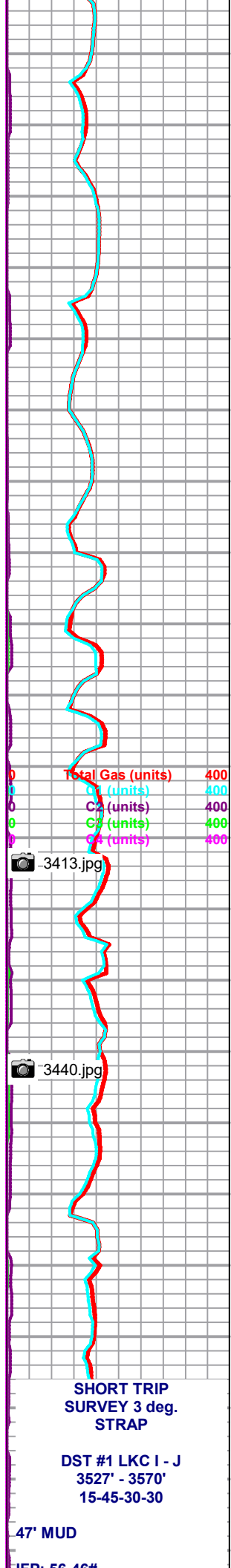
Lm- Off White, F-MedXLN, fsl & sl oolitic, dense XLN porosity, loosley cemented, sctrd clear reXLN & cementation, clean & barren

CFS @ 3470'

Lm- Tan Semitranslucent, FXLN, oolitic oolitic, dense, well cemented, tight w/ poor vis. matrix porosity, some w/ sctrd castic vugs, clear replacement cementation, sctrd XLN porosity, clean & barren

Lm- Cream Tan, VFXLN, vry competent, tight w/ poor vis. porosity, barren

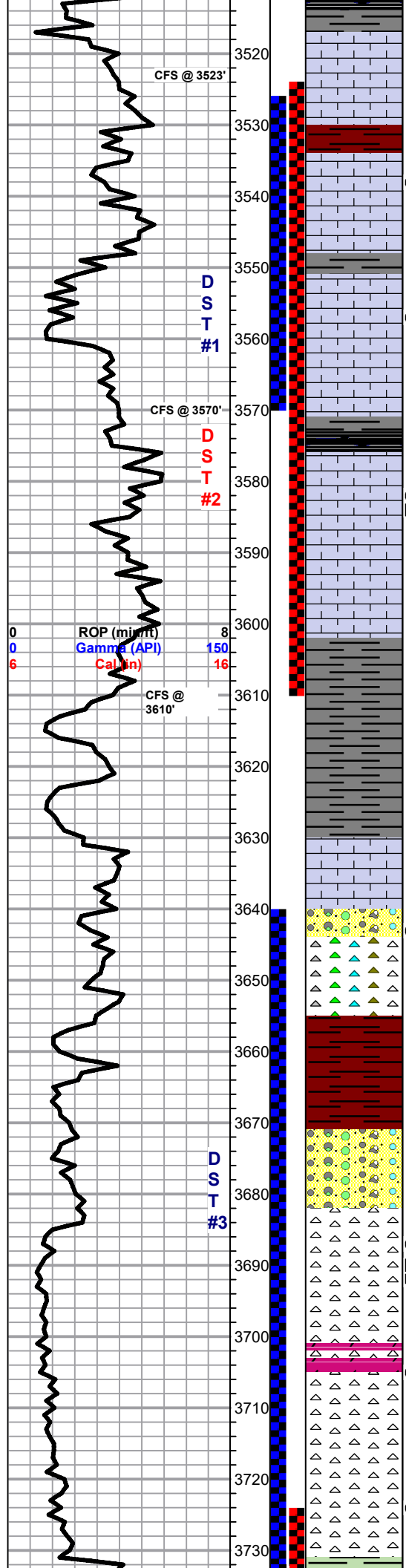
Sh- Black Green Gray carbonaceous, waxy & dense, striated



SHORT TRIP SURVEY 3 deg. STRAP

DST #1 LKC I - J 3527' - 3570' 15-45-30-30

47' MUD



Sh- Black Green Gray, carbonaceous, waxy & dense, striated

Lm/Chert- Tan Milky Gray, CryptoXLN, fresh bedded w/o vis. porosity,

Lm- Tan Brown, VFXLN, oolitic mix, some trashy & clastic, all tight & poorly dev., some sctrd XLN porosity, barren, several oomoldic pcs w/ dense XLN porosity, barren

Lm- Cream Off White, F-MED XLN, oolitic, varying from sl fsl & oolitic w/ sctrd/dense XLN porosity to well dev. oolitic clusters w/ ppt interoolitic porosity, ALL W/ SCTRD DRK STN, OILY SHEEN, TR FRO, FR ODR, STRM FLOR

Lm- Off White, F-MEDXLN, fsl & oolitic, sctrd reXLN, dense XLN & ppt inter fsl porosity, SCTRD DRK STN, 2-3 W/ BLEEDING FO SHW, FR ODR

Lm/Chert- Cream Milky White, VFXLN, dense & tight w/ min. vis. porosity, fresh bedded crypto XLN chert

Sh- Black Gray Maroon, fissile & carbonaceous, gritty & earthy

Lm- Off White, FXLN, hvy fsl, sctrd XLN porosity, SCTRD DRK & DO STN, NSFO, TO ODR??

Lm- Tan, cryptoXLN, tight w/ min. vis. porosity, barren

Lm- Tan, FXLN, hvy fsl w/ small fusulinds, tight w/ min. vis. porosity, barren

BKC 3602' (-1706) E-LOG 3602' (-1706) Sh- Maroon Gray Green

Sh- A/A

Sh- A/A w/ abundant agrillaceous wash

Cherty Conglomerate- Brown Tan Milky White Cream, mix of fresh bedded & detrital chert, SCTRD-SAT BLK STN, NSFO, WK ODR

A/A w/ influx of Tan Lt Green detrital chert, massive w/ micro XLN porosity throughout, barren

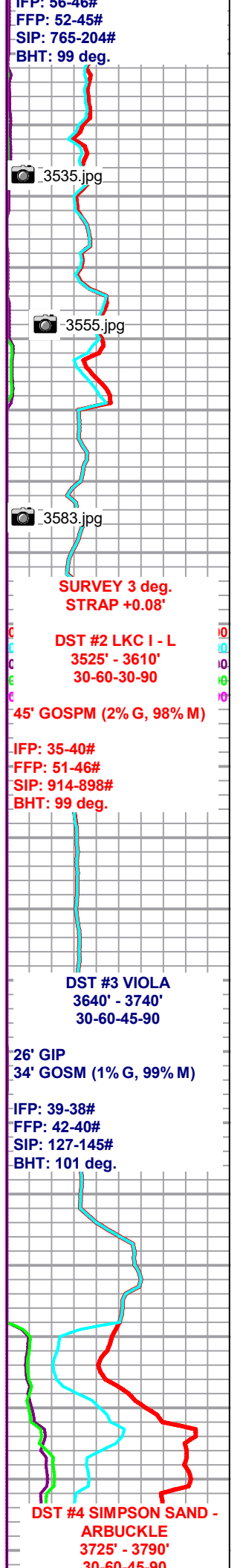
Chert- A/A w/ interbedded gritty & earthy maroon shale

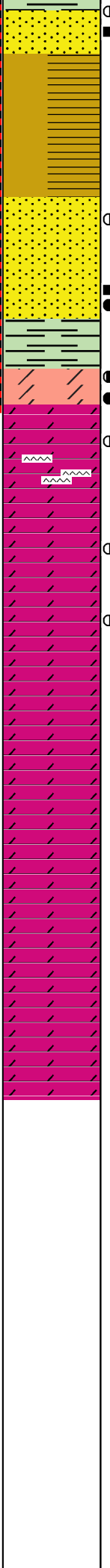
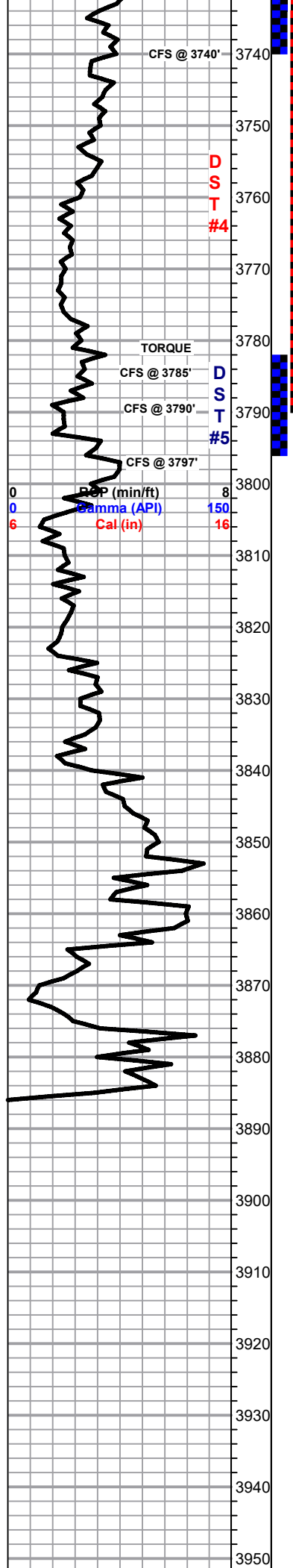
VIOLA 3684' (-1788) E-LOG 3684' (-1788) Chert- Milky White Cream Orange Buff Lt Yellow, mix of fresh bedded & tripolitic chert, sctrd to dense micro XLN to fn ppt porosity, SCTRD TO SAT DRK STN, SOME GILSONITE, NSFO, YLW FLOR, GD ODR

Chert- A/A w/ influx of white cream cryptoXLN fresh bedded chert & cream dolomitic chert w/ consistent XLN porosity throughout, SAT BRWN STN, NSFO, GD ODR

Chert- A/A w/ STN A/A

SIMPSON SHALE 3731' (-1835) E-LOG 3731' (-1835) Sh- Mint & Lt Green, dense & waxy





Sand- Clear Semi-Frosted, Fn Grn, sub-rounded to rounded, fn grn, well consolidated & sorted, semi-friable, SCTRD DRK STN, NSFO, WK ODR, WK YLW FLOR

Sh- Mustard Yellow, dense & waxy, sub-rounded fn grn qtz. inclusions, few pcs of vitreous mustard yellow cryptoXLN chert

Sh/Ss- Mint & Light Green Gray, dense & waxy, semi-calcarous, dense & waxy, sl gummy clumps Ss- Frosted Clear, F-Med Grn, mod. consolidated & sorted, loosely cemented Ca cementation, some w/ glauconite/chlorite inclusions, SEVERAL CLUSTERS W/ DRK STN, NSFO, NO ODR, NO FLOR.

Sh/Ss- A/A w/ influx of waxy mint green shale, Ss-Frosted, Fn Grn, sub-rounded, consolidated & well sorted, friable, DRK SUB-SAT/SAT STN, TR BLEEDING OIL, LT FLOR, TR ODR, some pyrite

ARBUCKLE 3781' (-1885) E-LOG 3784' (-1788) Chert/Dol- Bone White, CryptoXLN & massive sl dolomitic chert w/ sctrd/dense XLN porosity, some throughout, SCTRD DRK ST, TR FRO, FR SULPHURIC ODR, Dol- Cream, FXLN, well cemented, mostly w/ consistent micro XLN porosity throughout, SCTRD DRK STN, TR FRO, ODR A/A

3790' 20"- Dol-Tan, F-MedXLN, sub-sucrosic/sucrosic, consistent XLN to fn ppt porosity throughout, few w/ vis. rhombs, SAT DRK STN, SEVERAL W/ BLEEDING FO, STRNG SULPHURIC ODR

40"- Dol- Cream Buff, M-Crs XLN, well dev., mostly sucroic, several w/ vis. rhombs, few pcs w/ sub-rounded qtz. inclusions, SUB-SAT DRK STN, MANY W/ BLEEDING DRK OIL, STRNG SULPHURIC ODR

60"- Dol- A/A w/ FXLN, semi-friable w/ consistent XLN porosity throughout, mostly barren

3797' 20"- Dol/Chert- mix of MedXLN oolitic dolomite w/ sctrd vugs, friable, consistent XLN porosity throughout

Chert- White vitreous oolitic cryptoXLN w/o vis. porosity, several pcs oolitic in part w/ sctrd connectivity, ALL W/ SCTRD/SUB-SAT/SAT DRK STN, TR FO, FR SULPHURIC ODR

40"- A/A w/ influx of oolitic/oolitic dolomite A/A & few pcs of sl cherty dolomite A/A

60"- A/A

**** POOR SAMPLE QUALITY ****

3810'- Dol- White Cream, F-MEDXLN, sucrosic & friable, vis. rhombs, consistent interXLN porosity, SCTRD DRK STN, SHW FO, FR SULPHURIC ODR

3820'- Dol- White, CRS XLN, sucrosic w/ vis. rhombs, consistent ppt interXLN porosity, SCTRD DRK STN, SHW FO, FR SULPHURIC ODR, few w/ fn cubic pyrite inclusions

3836'- Dol- Off White, FN-MED XLN, semi-sucrosic/sucrosic, mix of mod to well cemented, dense micro XLN to dense ppt porosity, all clean & barren

3850'- Dol- Off White, VF-Med XLN, dense tight mix, well cemented, few vis. rhombs, micro XLN, few pcs of sl cherty dol. clean & barren

3857'- Dol/Chert- Off White Cream, VF-Med XLN, dense tight mix, few w/ vis. rhombs, micro XLN to sctrd ppt porosity, influx of cream cherty dolomite Chert- Bone White, F-MED XLN, well cemented, few pcs sl oolitic, cryptoXLN, clean & barren

3866'- Dol- Tan, FXLN, mix of dense well cemented w/ dense XLN porosity w/ sctrd clear reXLN & massive MedXLN, dense XLN & sctrd ppt porosity, all clean & barren

3875'- Dol- Off White, mix of VF XLN, dense, tight w/ consistent micro XLN porosity at best, vry clean & barren & massive Med XLN, consistent vuggy & XLN porosity, clean & barren

40"- Dol- Cream Off White, F-MED XLN, well cemented & tight w/ consistent micro XLN porosity, clean & barren, few vis rhombs w/in cementation

60"- Dol- A/A



RTD 3885' (-1999) LTD @ 3885' (-1989) 12:06 10/7/2021
SURVEY 2 1/2 deg.

	3960		
	3970		
	3980		
	3990		

3413.jpg



3413'

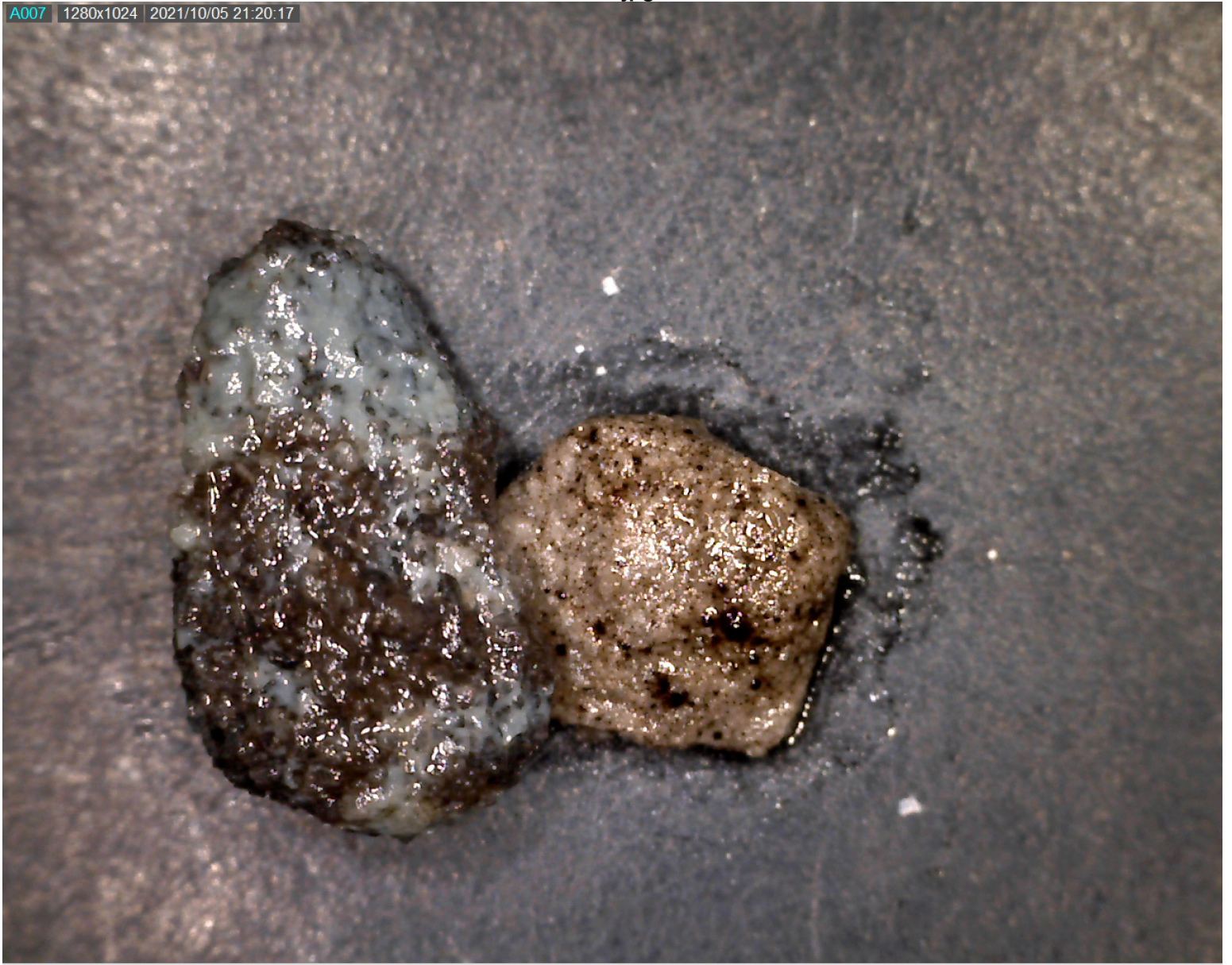










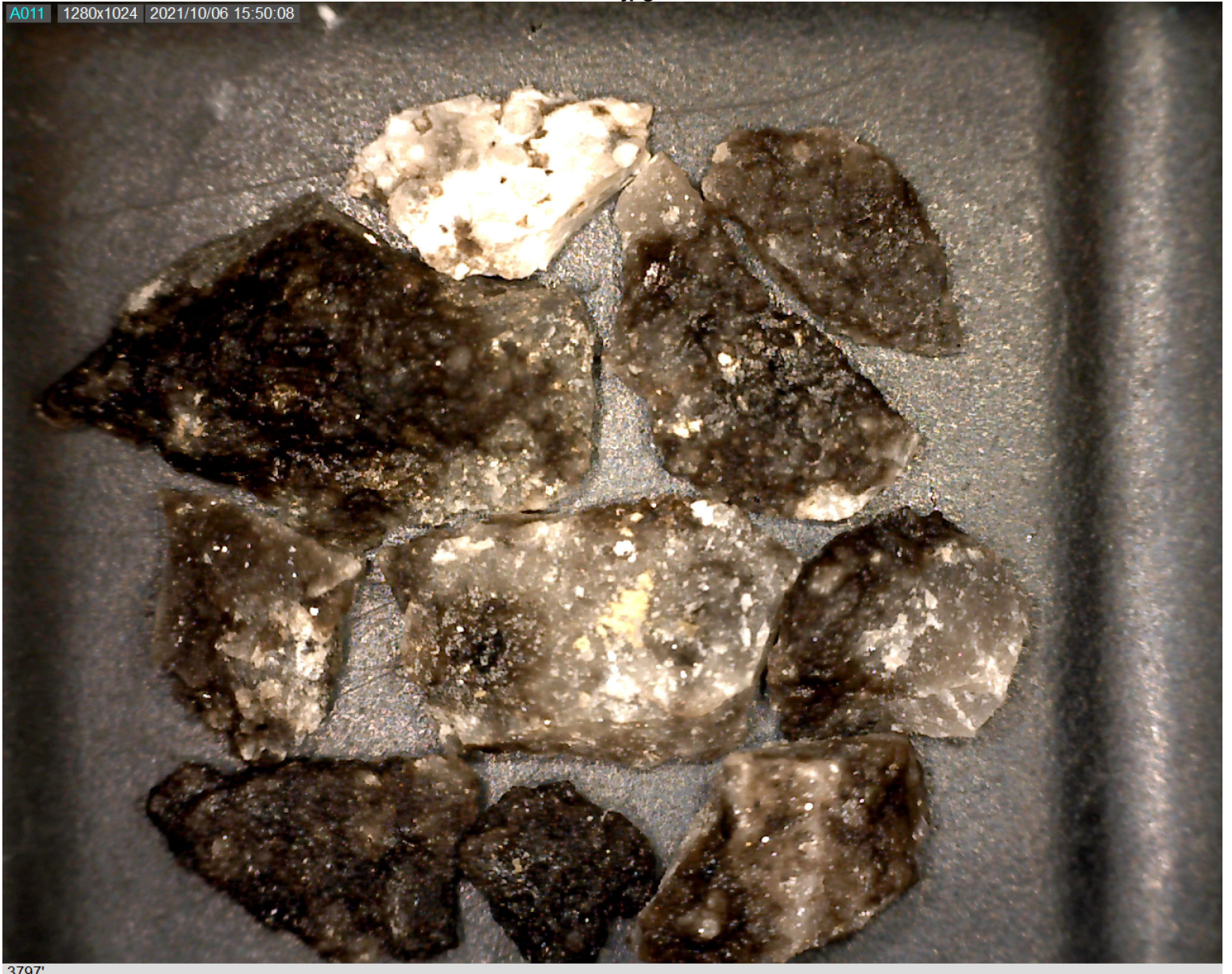









3790 - 40"

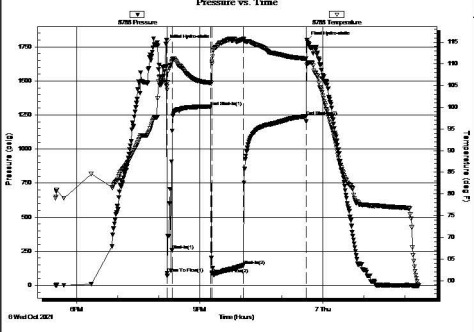


DST 5.jpg

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT
JEL Resources, LLC 6545 S. Riviera Way Aurora, Co. 80202 ATTN: Jeff Lawler	10-22s-13w Stafford Co Ks Betty Hullman 1-10 Job Ticket: 67586 DST#: 5 Test Start: 2021.10.06 @ 17:29:38

GENERAL INFORMATION:	
Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 20:12:23 Time Test Ended: 02:20:23	Test Type: Conventional Bottom Hole (Reset) Tester: Matt Smith Unit No: 68
Interval: 3783.00 ft (KB) To 3797.00 ft (KB) (TVD) Total Depth: 3797.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair	Reference Elevations: 1896.00 ft (KB) 1888.00 ft (CF) KB to GR/CF: 8.00 ft

Serial #: 8788 Inside Press@RunDepth: 147.60 psig @ 3784.00 ft (KB) Start Date: 2021.10.06 End Date: 2021.10.07 Start Time: 17:29:43 End Time: 02:20:23	Capacity: 8000.00 psig Last Calib.: 2021.10.07 Time On Btm: 2021.10.06 @ 20:10:53 Time Off Btm: 2021.10.06 @ 23:36:53
TEST COMMENT: IF: Weak Blow . Built to 3.20". (15) IST: No Blow . (45) FF: Strong Blow . B.O.B. in 24 mins. Built to 21.72". (45) FSI: Weak Blow . Surface to .60". (90)	



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1771.53	105.16	Initial Hydro-static
2	89.42	103.96	Open To Flow (1)
9	257.75	110.64	Shut-In(1)
65	1312.44	105.71	End Shut-In(1)
68	83.82	110.52	Open To Flow (2)
113	147.60	115.74	Shut-In(2)
205	1242.21	111.22	End Shut-In(2)
206	1796.84	109.76	Final Hydro-static

Recovery			Gas Rates		
Length (ft)	Description	Volume (bbl)	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
189.00	GMCHO 20%g 5%h 75%ho	2.46			
116.00	GHOCM 15%g 35%ho 50%h	1.63			
0.00	41' GIP 100%g	0.00			

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 67586

Printed: 2021.10.07 @ 07:00:39







QUALITY OILWELL CEMENTING, INC.

PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone:785-324-1041 fax:785-483-1087
 Email: cementing@ruraltel.net

Date: 9/29/2021
 Invoice # 2376

P.O.#:
 Due Date: 10/29/2021
 Division: Russell

Invoice

Contact:
 JEL RESOURCES
 Address/Job Location:

6545 S. Riviera Way
 Aurora CO 80016-2688

Reference:
 BERRY HOFFMAN ESTATE 1-10 SEC 10-~~22~~-13

Description of Work:
 SURFACE JOB

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 684.02	No				
Common-Class A	360	\$ 5,685.60	Yes				
Calcium Chloride	16	\$ 686.93	Yes				
POZ Mix-Standard	90	\$ 483.00	Yes				
Flo Seal	225	\$ 345.00	Yes				
Bulk Truck Matl-Material Service Charge	474	\$ 363.40	No				
Premium Gel (Bentonite)	8	\$ 177.87	Yes				
8 5/8" Top Rubber Plug	1	\$ 93.53	Yes				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 58.65	No				
Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$ 45.62	No				

Invoice Terms:

Net 30

SubTotal: \$ 8,623.62
 Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (215.59)

SubTotal for Taxable Items:	\$ 7,285.14
SubTotal for Non-Taxable Items:	\$ 1,122.89
Total:	\$ 8,408.03
Tax:	\$ 546.39

7.50% Stafford County Sales Tax

Thank You For Your Business!

Amount Due: \$ 8,954.42
Applied Payments:
Balance Due: \$ 8,954.42

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 2376

Date	Sec.	Twp.	Range	County	State	On Location	Finish		
9-29-21	10	22	13	Stafford	KS		9:15pm		
Lease <u>Berry Hoffman Estate</u>				Location <u>2811 Hwy 19 1/2 NE Vinto</u>					
Contractor <u>Discovery #2</u>				Owner <u>To Quality Oilwell Cementing, Inc.</u>					
Type Job <u>Surface</u>				You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Hole Size <u>12 1/4</u>		T.D. <u>445</u>		Charge To <u>JBL Resources</u>					
Csg. <u>8 5/8</u>		Depth <u>444</u>		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. <u>30</u>		Shoe Joint <u>30</u>		Cement Amount Ordered <u>450 @ 20 3/4 2/4 2/4 2/4</u>					
Meas Line		Displace <u>26 BCL</u>		<u>1/2 # FLO</u>					
EQUIPMENT				Common <u>360</u>					
Pumptrk <u>17</u>		No. Cementer <u>Craig</u>		Poz. Mix <u>90</u>					
Bulktrk		No. Driver <u>David</u>		Gel. <u>8</u>					
Bulktrk <u>19</u>		No. Driver <u>Doug</u>		Calcium <u>16</u>					
JOB SERVICES & REMARKS				Hulls					
Remarks:				Salt					
Rat Hole				Flowseal <u>225 #</u>					
Mouse Hole				Kol-Seal					
Centralizers				Mud CLR 48					
Baskets				CFL-117 or CD110 CAF 38					
D/V or Port Collar				Sand <u>474</u>					
<u>8 5/8 on bottom Est. Circulation -</u>				Handling					
<u>Mix 450SK + Displace</u>				Mileage					
<u>Cement Circulator</u>				FLOAT EQUIPMENT					
				Guide Shoe					
				Centralizer					
				Baskets					
				AFU Inserts					
				Float Shoe					
				Latch Down					
				Pumptrk Charge <u>Surface</u>					
				Mileage <u>17</u>					
X Signature <u>[Signature]</u>				Thanks <u>[Signature]</u>				Tax	
								Discount	
								Total Charge	



QUALITY OILWELL CEMENTING, INC.
 PO Box 32 - 740 West Wichita Ave, Russell KS 67665
 Phone: 785-324-1041 fax: 785-483-1087
 Email: cementing@ruraltel.net

Date: 10/8/2021
 Invoice # 2559

P.O.#:
 Due Date: 11/7/2021
 Division: Russell

Invoice

Contact:
 JEL RESOURCES
Address/Job Location:

6545 S. Riviera Way
 Aurora CO 80016-2688

Reference:
 BETTY HULLMAN 110 SEC 10-22-13

Description of Work:
 PROD STRING

Services / Items Included:	Quantity	Price	Taxable	Item	Quantity	Price	Taxable
Labor		\$ 684.02	No				
Pro-C Cement	175	\$ 3,220.00	Yes	Bulk Truck Mileage-Job to Nearest Bulk Plant	17	\$45.62	No
Gilsonite	800	\$ 920.00	Yes				
Mud Clear	500	\$ 559.67	Yes				
5 1/2" Turbolizer	7	\$ 386.40	Yes				
Auto Fill Float Shoe, 5 1/2"	1	\$ 257.60	Yes				
5 1/2" Basket	1	\$ 214.67	Yes				
Latch Down Plug & Baffle, 5 1/2"	1	\$ 203.93	Yes				
Salt (Fine)	15	\$ 150.65	Yes				
Bulk Truck Matl-Material Service Charge	198	\$ 151.80	No				
Pump Truck Mileage-Job to Nearest Camp	17	\$ 58.65	No				

SubTotal: \$ 6,898.79

Invoice Terms:

Net 30

Discount Available ONLY if Invoice is Paid & Received within listed terms of invoice: \$ (172.47)

SubTotal for Taxable Items: \$ 5,809.73

SubTotal for Non-Taxable Items: \$ 916.58

Total: \$ 6,726.32

Tax: \$ 435.73

7.50% Stafford County Sales Tax

Amount Due: \$ 7,162.05

Applied Payments:

Balance Due: \$ 7,162.05

Thank You For Your Business!

Past Due Invoices are subject to a service charge (annual rate of 24%)
 This does not include any applicable taxes unless it is listed.
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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. 2559

Date	Sec.	Twp.	Range	County	State	On Location	Finish
10-8-21	10	22	13	Stafford	Ks		6:00 Am

Location G + Bend 145 1E 2S

Lease	Betty Hullman	Well No.	1-10	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor					
Type Job	Long String			Charge To	JEL Resources LLC
Hole Size	7 7/8	T.D.	3885-	Street	
Csg.	5 1/2 15.5 ft	Depth	3881.73	City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered	175 M QPRO-C - 20 bbl KCL
Cement Left in Csg.	21.55	Shoe Joint		10% Salt 5% Gil 500gal Flush	
Meas Line		Displace	91.87	Common	175 Qpro-C

EQUIPMENT

Pumptrk	17	No.	Cementer Helper	Bill	Poz. Mix
Bulktrk		No.	Driver	Craig	Gel.
Bulktrk	9	No.	Driver	Duke	Calcium

JOB SERVICES & REMARKS

Remarks:		Hulls	KCL 2 gal
Rat Hole	20	Salt	15
Mouse Hole	30	Flowseal	
Centralizers		Kol-Seal	800#
Baskets		Mud CLR 48	500 gal
D/V or Port Collar		CFL-117 or CD110 CAF 38	
Pipe set c	3881.73	Sand	
Shoe Jt	21.55	Handling	198
Insert c	3860.18	Mileage	

FLOAT EQUIPMENT

pump	500gal Flush	Guide Shoe	
Cemnt w/	1254	Centralizer	- 2
pump plug w/	9 1/2 bbls wala	Baskets	- 1
hand plug c	1300#	AFU Inserts	
Float did hold		Float Shoe	- 1
		Latch Down	- 1

Pumptrk Charge Prod String
Mileage 17

Thanks

X Signature

Tax
Discount
Total Charge