

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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JUSTIN D. CARTER

CONSULTING GEOLOGIST

Scale 1:240 (5"=100') Imperial
Measured Depth Log

Well Name: LYDA RUTTI 1-9
Well Id:
Location: N/2, SE, SW, SW Sec. 9 - 22S - 13W Stafford Co., KS
License Number: 15-185-24067-0000
Spud Date: 02/06/20
Surface Coordinates: 600' FSL, 990' FWL
Region: Besthorn
Drilling Completed: 02/14/20

Bottom Hole Coordinates: 437': 1/2 DEG, 3590': 1/2 DEG, 3905': 1/2 DEG
Ground Elevation (ft): 1895' K.B. Elevation (ft): 1903'
Logged Interval (ft): 3100' To: 3905' Total Depth (ft): 3905'
Formation: L/KC, VIOLA, SIMPSON, ARBUCKLE
Type of Drilling Fluid: Chemical Mud

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: JEL RESOURCES, LLC
Address: 1801 Broadway, Suite 200
Denver, CO 80202
Co. Geo.: Mr. Michael Connelly

GEOLOGIST

Name: Justin D. Carter
Company: Consulting Geologist
Address: 1640 N. Roosevelt Ave.
Liberal, KS 67901
Phone: 620-655-1187

Comments

Drilling Contractor: Discovery Drilling Rig #2
Tool Pusher: Terry Wickham

8 5/8" surface casing set at 437'

Mud: MudCo
Engineer: Jason Whiting

Gas Detector: Blue Stem

DSTs: Trilobite Testing
Tester: Ken Swinney

Open-Hole Loggers: ELI Wireline



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

JEL Resources LLC
 1801 Broadway
 Suite 200
 Denver CO 80202
 ATTN: Justin Carter

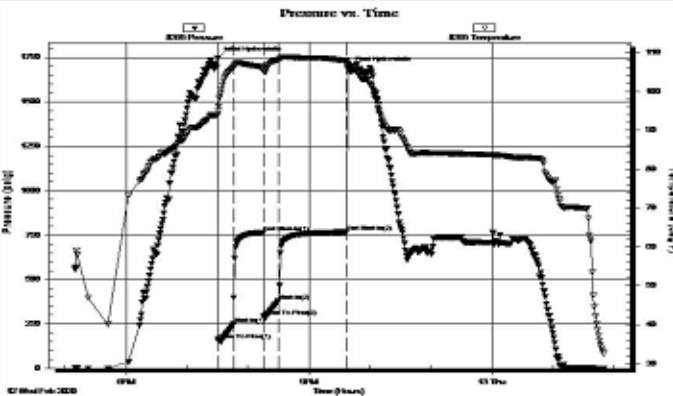
9/22S/13W/Stafford
Lyda Rutti 1-9
 Job Ticket: 66231 **DST#: 1**
 Test Start: 2020.02.12 @ 17:10:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
 Deviated: No Whipstock ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:30:47
 Tester: Ken Swinney
 Time Test Ended: 01:50:02
 Unit No: 72 Great Bend/ 32
 Interval: **3533.00 ft (KB) To 3590.00 ft (KB) (TVD)**
 Reference Elevations: 1903.00 ft (KB)
 Total Depth: 3590.00 ft (KB) (TVD)
 1895.00 ft (CF)
 Hole Diameter: 7.80 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 8365 Inside
 Press@RunDepth: 378.75 psig @ 3534.00 ft (KB) Capacity: psig
 Start Date: 2020.02.12 End Date: 2020.02.13 Last Calib.: 2020.02.12
 Start Time: 17:10:01 End Time: 01:50:02 Time On Btm: 2020.02.12 @ 19:30:02
 Time Off Btm: 2020.02.12 @ 21:38:32

TEST COMMENT: IF 15 Minutes/ Blow to BOB in 30 seconds/ Gas to surface in 13 minutes
 ISI 30 Minutes/ Blow back built to 27 inches
 FF 15 Minutes/ Blow to BOB in 40 seconds/ Gas to light to guage
 FSI 60 Minutes/ Blow back built to 160 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1748.86	93.94	Initial Hydro-static
1	157.69	94.86	Open To Flow (1)
16	249.71	105.13	Shut-in(1)
45	766.57	105.03	End Shut-In(1)
46	295.35	105.28	Open To Flow (2)
60	378.75	108.10	Shut-in(2)
128	768.81	107.83	End Shut-In(2)
129	1690.14	105.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMO / G50% O 40% M 10%	1.74
1426.00	GO / G 60% O 40%	20.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

JEL Resources LLC
 1801 Broadway
 Suite 200
 Denver CO 80202
 ATTN: Justin Carter

9/22S/13W/Stafford

Lyda Rutti 1-9

Job Ticket: 66233

DST#: 3

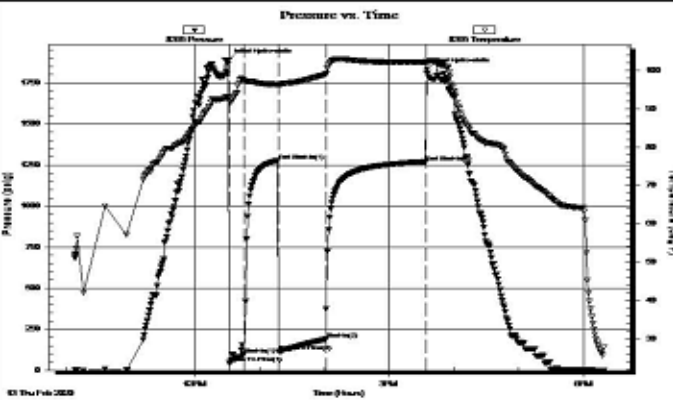
Test Start: 2020.02.13 @ 10:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:31:47
 Time Test Ended: 18:19:02
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Great Bend / 32
 Interval: **3748.00 ft (KB) To 3820.00 ft (KB) (TVD)**
 Total Depth: 3820.00 ft (KB) (TVD)
 Reference Elevations: 1903.00 ft (KB)
 Hole Diameter: 7.80 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: **8365** Inside
 Press@RunDepth: 190.32 psig @ 3749.00 ft (KB) Capacity: psig
 Start Date: 2020.02.13 End Date: 2020.02.13 Last Calib.: 2020.02.13
 Start Time: 10:09:01 End Time: 18:19:02 Time On Btm: 2020.02.13 @ 12:31:02
 Time Off Btm: 2020.02.13 @ 15:35:17

TEST COMMENT: IF 15 Minutes/ Blow built to 11 inches
 ISI 30 Minutes/ 1/2 inch blow back
 FF 45 Minutes/ Blow to BOB in 16 minutes/ Total build 37 inches
 FSI 90 Minutes/ 6 1/2 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1892.00	93.07	Initial Hydro-static
1	43.90	92.64	Open To Flow (1)
15	98.78	97.36	Shut-in(1)
46	1278.58	96.36	End Shut-In(1)
47	115.73	96.22	Open To Flow (2)
91	190.32	99.06	Shut-in(2)
183	1270.43	102.19	End Shut-In(2)
185	1834.51	102.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	MO Emulsified/ O 70% M 30%	4.35
107.00	GO / G 10% O 90%	1.50

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

JEL Resources LLC
1801 Broadway
Suite 200
Denver CO 80202
ATTN: Justin Carter

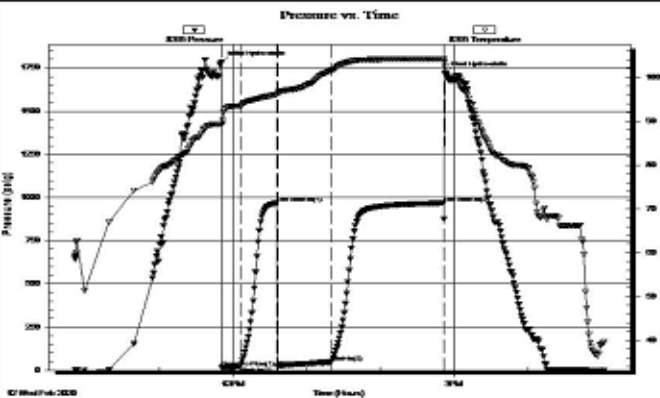
9/22S/13W/Stafford
Lyda Rutti 1-9
Job Ticket: 66232 **DST#: 2**
Test Start: 2020.02.12 @ 09:52:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:51:17
Time Test Ended: 17:02:02
Test Type: Conventional Bottom Hole (Initial)
Tester: Ken Swinney
Unit No: 72 Great Bend/ 36
Interval: **3592.00 ft (KB) To 3620.00 ft (KB) (TVD)**
Total Depth: 3620.00 ft (KB) (TVD)
Reference Elevations: 1903.00 ft (KB)
1895.00 ft (CF)
Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8365 Inside
Press@RunDepth: 49.67 psig @ 3593.00 ft (KB) Capacity: psig
Start Date: 2020.02.12 End Date: 2020.02.12 Last Calib.: 2020.02.12
Start Time: 09:52:01 End Time: 17:02:02 Time On Btm: 2020.02.12 @ 11:50:47
Time Off Btm: 2020.02.12 @ 14:52:32

TEST COMMENT: IF 15 Minutes/ Blow built to BOB in 6 1/2 minutes / Total build 29 inches
ISI 30 Minutes/ 1/2 inch blow back
FF 45 Minutes/ Blow to BOB in 10 seconds / Total build 96 1/2 inches
FSI 90 Minutes/ 6 1/2 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.90	89.21	Initial Hydro-static
1	16.56	89.21	Open To Flow (1)
16	21.83	93.45	Shut-In(1)
46	968.34	96.08	End Shut-In(1)
46	20.50	96.50	Open To Flow (2)
90	49.67	101.46	Shut-In(2)
181	968.24	104.16	End Shut-In(2)
182	1719.42	103.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GO / G 30% O 70%	1.26
0.00	1026 feet GIP	0.00

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 66232

Printed: 2020.02.12 @ 17:22:10

Remarks

After careful review of the sample log, electric logs, and DST reports, the decision was made to run 5 1/2" casing to do further testing of the L/KC "D", "H", "I", "J", & Arbuckle zones in the Lyda Rutti #1-9.

Respectfully submitted,

Justin D. Carter
Consulting Geologist

ROCK TYPES

- Anhy
- Bent
- Brec
- Cht
- Clyst
- Coal
- Congl
- Dol

- Gyp
- Igne
- Lmst
- Meta
- Mrst
- Salt
- Shale
- Shcol

- Shgy
- Sltst
- Ss
- Till
- Carb sh
- Dol
- Dtd
- Gry sh

- Sandylms
- Shale
- Sltstn
- Shlyslts
- Sltys
- Lms

ACCESSORIES

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom
- Fuss
- Oomold

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Brecfrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau
- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr

- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff
- Chlorite
- Dol
- Sand
- Sltly

- Dol
- Grysh
- Gryslt
- Lms
- Sandylms
- Sh
- Sltstn

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Sltstrg
- Ssstrg
- Carbsh
- Clystn

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackst

OTHER SYMBOLS

INTERVALS

- Core
- Dst

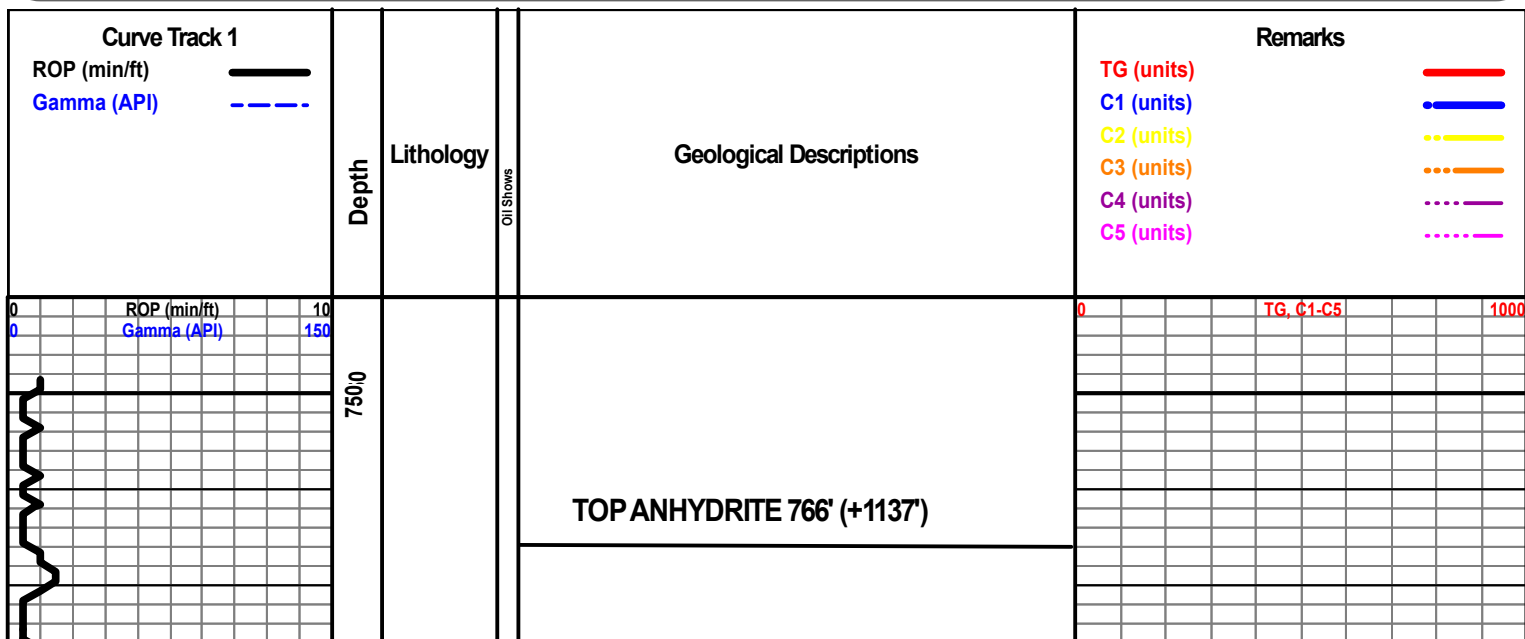
- Dst

OIL SHOWS

- Even
- Spotted

Ques

- Dead
- Gas show



BASE ANHYDRITE 785' (+1118')

ROP (min/ft) 10
Gamma (API) 150

80000

DEPTH BREAK

3050

BIT #2
HUGHES 778"
GX-20C
S/N: 5303080
3/14s
IN @437

DISPLACE HOLE @2934'

GEOLOGIST ON LOCATION 8:30 A.M. 02/10/20

3100

WT 8.6
VIS 55
LCM 1#
RPM 80
WOB 20K
PP 650

LS- CRM, HRD DNS TO BRITT IP, MD/F-XLN, GRNST, IMBED SH IP, NO FLO, PR/FR INTER-XLN POR IP, NS

LS- GY CRM, HRD TO BRITT IP, VF-XLN, GRNST, IMBED FOSS FRAGS IP, NO FLO, TR INTER-FOSS POR TO TR INTER-XLN POR, NS

8:30 A.M. 02/10/20

CN

3150

LS- BFF, HRD DNS, VF-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

ZERO GAS

CN

LS- GY OFF WHT CRM, MOTT, BRITT, F-XLN, GRNST IP TO SUB-CHLKY IP, NO FLO, PR INTER-XLN POR IP, NS

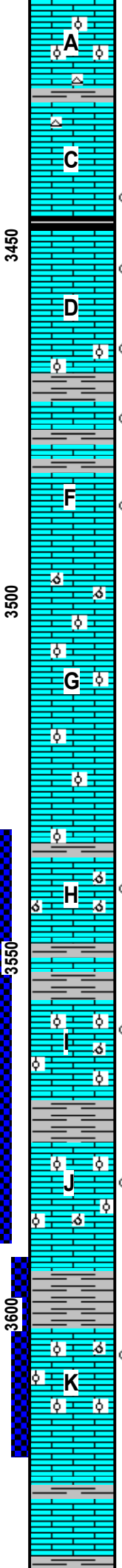
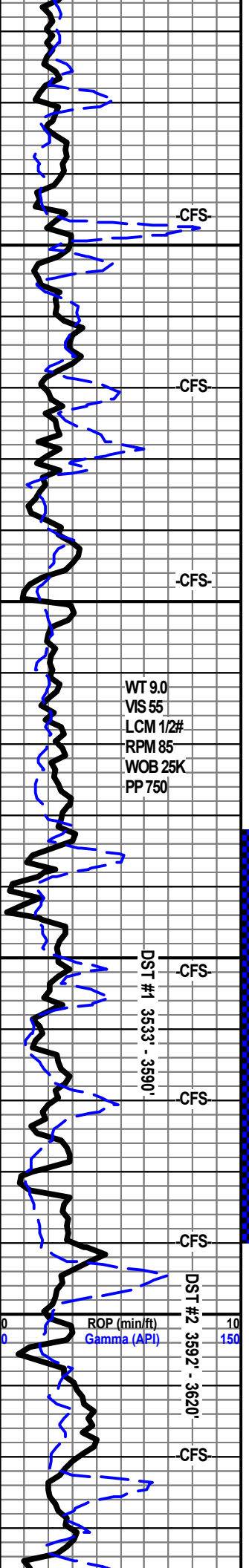
MUD CHECK @3175'

LS- GY, HRD DNS, VF-XLN, RE-XLN MTRX THRU, IMBED FOSS FRAGS THRU, NO FLO, PR INTER-FOSS POR THRU, NS

WT 8.7
VIS 53
LCM 1#
PV 14
YP 15
PH 10.0
FIL 8.0
CAL 10
CHL 6,800

CN

TG, C1-C5 1000



LS- LT CRM, HRD DNS, VF-XLN, RE-XLN MTRX THRU, TR IMBED OOL, NO FLO, TR INTER-OOL POR TO NO VIS POR IP, NS

LS- CRM TN, HRD DNS, F/VF-XLN, GRSNT IP TO RE-XLN MTRX IP, SCAT BRIT YEL GLD FLO, FAINT FLUSH TO FAINT SLO BLU STRM CUT, TR INTER-XLN POR, TR BLK STAIN, FAINT ODOR, TR GAS BUBBLS, NSFO

LS- BFF, HRD DNS, F/CRYPTO-XLN, RE-XLN MTRX THRU, TR VUGS, YEL GLD FLO IN 30%, FAINT FLUSH TO PR SLO BLU STRM CUT, TR VUG POR, BLK RESID STAIN IP, FAINT ODOR, NSFO

LS- BFF LT GY, HRD DNS, F/VF-XLN, RE-XLN MTRX THRU TO TR SUB-CHLKY, TR YEL GLD FLO, FAINT SLO BLU STRM CUT, TR INTER-XLN POR, TR BLK RESID STAIN, FAINT ODOR

LS- WHT LT GY, HRD DNS, MD/VF-XLN, RE-XLN MTRX THRU TO TR GRNST, TR SFT WHT CHLK, TR YEL GLD FLO, V/FAINT SLO BLU STRM CUT, TR INTER-XLN POR, BLK RESID STAIN IP, FAINT ODOR

LS- CRM LT TN, HRD TO BRIT IP, F-XLN, GRNST TO TR RE-XLN MTRX, BRIT YEL GLD FLO THRU, FR FLUSH TO FR BLU STRM CUT, FR INTE-XLN POR THRU TO TR MICRO PP POR, TN STAIN SCAT THRU, FAINT ODOR, NSFO

LS- LT CRM, BRIT, F-XLN, GRNST, OOL IP, NO FLO, PR INTER-OOL POR IP TO TR OOMLD, NS

LS- LT TN BFF, HRD, VF-XLN, GRNST IP TO RE-XLN MTRX IP, TR OOL, NO FLO, NO VIS POR

LS- CRM, HRD TO BRIT IP, F/VF-XLN, GRNST, TR OOL, BRIT YEL GLD FLO IN 20%, FAINT SLO BLU STRM CUT, PR OOMLD POR IP TO TR MICRO PP POR, TR BLK RESID STAIN, V/FAINT ODOR, NSFO

LS- LT CRM, BRIT, F/VF-XLN, GRNST, OOL SCAT THRU, YEL GLD FLO THRU, FR FLUSH TO FR FAST BLU STRM CUT, PR/FR INTER-OOL POR IP TO TR OOMLD POR TO TR MICRO PP POR, TN STAIN IN 30%, FAINT ODOR, NSFO

LS- CRM, HRD DNS, F/VF-XLN, GRNST, IMBED OOL IP, YEL GLD FLO IN 80%, FR FLUSH TO FR BLU STRM CUT, FR INTER-OOL POR IP TO TR OOMLD POR, TN STAIN IN 30%, FAINT ODOR, NSFO

LS- CRM, BRIT TO HRD IP, MD/VF-XLN, GRNST, IMBED OOL IP, DLL YEL FLO THRU TO BRIT YEL GLD FLO IN 30%, PR FLUSH TO FR SLO BLU STRM CUT, PR/FR INTER-OOL POR IP TO TR OOMLD POR TO TR INTER-XLN POR, LIVE TN STAIN IN 30%, FR ODOR, TR FREE OIL

LS- BFF LT GY, HRD DNS, VF-XLN, RE-XLN MTRX THRU, TR SFT WHT CHLK, NO FLO, NO VIS POR

BKC 3623' (-1720')

WT 9.0
VIS 55
LCM 1/2#
RPM 85
WOB 25K
PP 750

DST #1 3533' - 3590'

DST #2 3592' - 3620'

ROP (min/ft)
Gamma (API)

12:00 A.M. 02/11/20

MUD CHECK @ 3513'
WT 8.9
VIS 58
LCM TR
PV 15
YP 13
PH 9.5
FIL 8.8
CAL 10
CHL 8,400

12:00 A.M. 02/12/20

MUD CHECK @ 3620'
WT 8.8
VIS 58
LCM TR
PV 15
YP 15

CN

CN

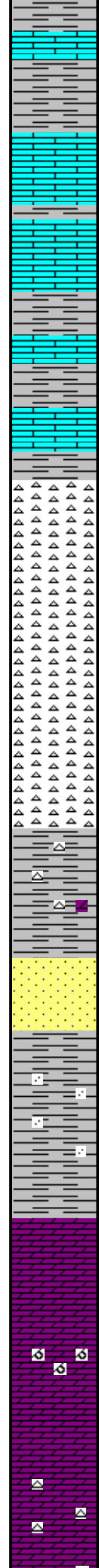
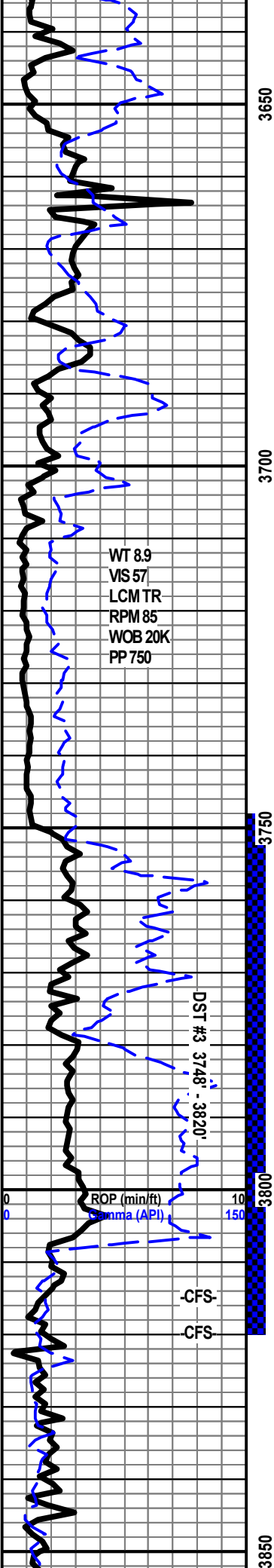
CN

CN

CN

CN

CN



SH- GY, SFT, BLKY, SLTY

○ LS- OFF WHT, BRITT, VF-XLN, SUB-CHLKY MTRX THRU, TR DLL YEL FLO, V/FAINT SLO BLU STRM CUT, NO VIS POR, TR STAIN, FAINT ODOR

○ LS- CRM, HRD, VF-XLN, RE-XLN MTRX IP TO TR GRNST, TR YEL FLO, FAINT SLO BLU STRM CUT, NO VIS POR, TR STAIN, NO ODOR

LS- LT GRN GY, HRD DNS, VF-XLN, RE-XLN MTRX THRU, TR SNDY LS, NO FLO, NO VIS POR

VIOLA 3702' (-1799')

○ CHRT- WHT LT YEL, HRD DNS, ANG, BRIT YEL GLD FLO IN 20%, PR FLUSH TO PR SLO BLU STRM CUT, NO VIS POR TO POSS FRAC POR, BLK LIVE OIL STAIN IP, FR ODOR, TR FREE OIL

○ CHRT- WHT, HRD DNS, ANG, TR DOLO, YEL GLD FLO SCAT THRU, PR FLUSH TO PR SLO BLU STRM CUT, NO VIS POR TO POSS FRAC POR, FR/STRNG ODOR, GD SH FREE OIL

○ CHRT- CRM WHT, HRD DNS, ANG, TR TRIPO CHRT, YEL GLD FLO IN 60%, FAINT FLUSH TO PR/FR SLO BLU STRM CUT, POSS FRAC POR, TN STAIN IP TO TR BLK LIVE OIL STAIN, FR ODOR, GD SH FREE OIL

SIMPSON 3750' (-1847')

SH- LT GRN, FRM TO HRD, BLKY, ARG, CHRT IP, TR DOLO

○ SS- WHT BLK TN, TT, F-GRNS, FR SRT, SUB-ANG GRNS, SILI CMNT, IMBED GLAUC IP, DLL YEL GLD FLO IN 30%, FR FLUSH TO PR SLO BLU STRM CUT, FR INTER-GRN POR THRU, BLK/TN STAIN IN 90%, FR ODOR, TR FREE OIL

SH- GRN RD GY TURQ, FRM, LMY, TR SLTST

ARBUCKLE 3805' (-1902')

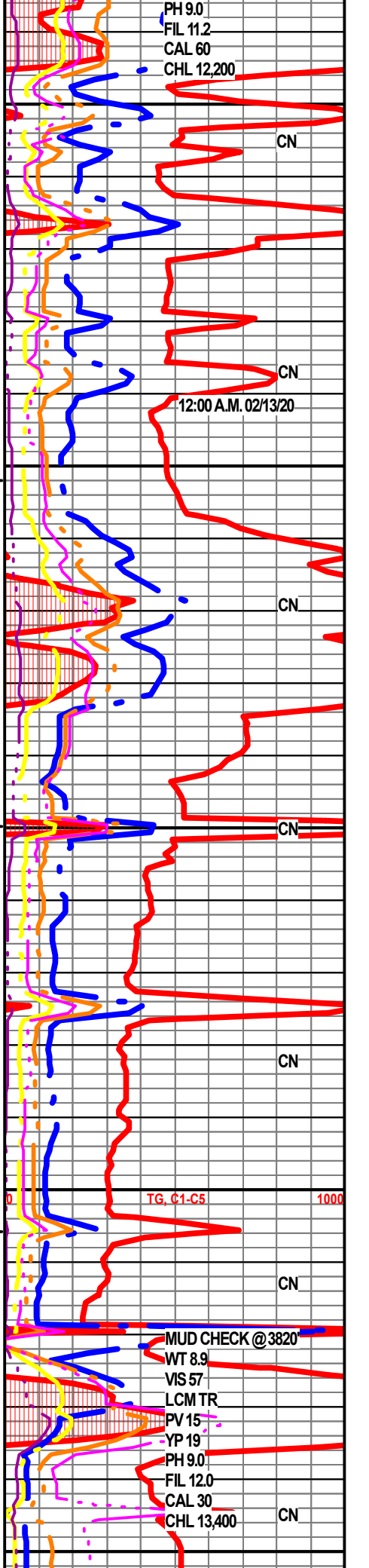
○ DOLO- TN, HRD DNS, V/F-XLN, SUCRO MTRX THRU, IMBED PYR IP, BLEED GAS BUBBLS, TR BRIT YEL GLD FLO, FR FLUSH TO FR SLO BLU STRM CUT, PR/FR INTER-XLN POR THRU, LIVE STAIN THRU, FR ODOR, GD SH FREE OIL

● 3818' DOLO- TN BRN, HRD DNS, VF/MD-XLN, SUCRO MTRX THRU, TR YEL FLO, FR FLUSH TO GD HMY BLU STRM CUT, FR INTER-XLN POR THRU, LIVE STAIN THRU, GD ODOR, GD SH FREE OIL

○ 3824' DOLO- BLK TN, BRITT, MD/F-XLN, SUCRO MTRX THRU, YEL GLD FLO IN 90%, FR FLUSH TO GD BLU STRM CUT, FR OOMLD POR IP TO FR INTER-XLN POR, BLK LIVE STAIN, STRNG ODOR, GD SH FREE OIL

○ 3832' DOLO- BLK DK TN, HRD, MD-XLN, SUCRO MTRX, TR YEL GLD FLO, GD FLUSH TO FR/GD BLU STRM CUT, PR/FR INTER-XLN POR THRU, BLK LIVE STAIN THRU, STRNG ODOR, GD SHOW FREE OIL

DOLO- CRM, HRD, CORSE/F-XLN, RE-XLN MTRX IP TO SUCRO MTRX IP, SFT WHT CHLK IP, GLAUC IP, NO FLO, FR INTE-XLN



POR THRU, NO VIS CUT, TR FREE OIL, STRNG ODOR

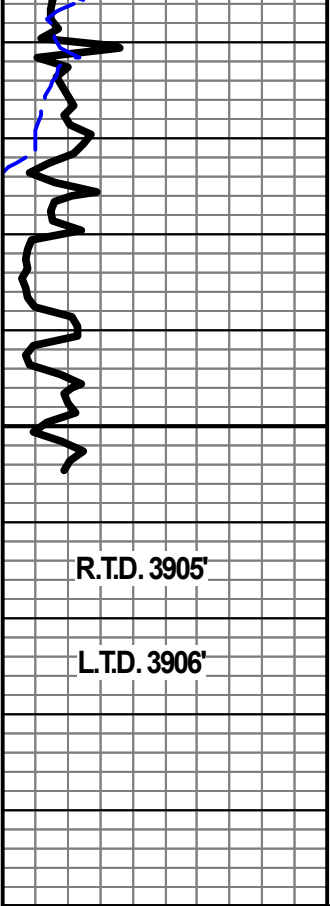
DOLO- CRM, HRD DNS, CORSE/MD-XLN, RE-XLN MTRX THRU,
TR SFT WHT CHLK, NO FLO, NO VIS CUT, FR INTER-XLN POR
THRU, STRNG ODOR

DOLO- BFF CRM, HRD DNS, CORSE/F-XLN, RE-XLN MTRX
THRU TO TR SUCRO MTRX, NO FLO, NO VIS CUT, PR/FR
INTER-XLN POR THRU, FR ODOR,

FINISH E-LOGS @ 7:00 A.M. 02/14/20

12:15 A.M. 02/14/20

CN

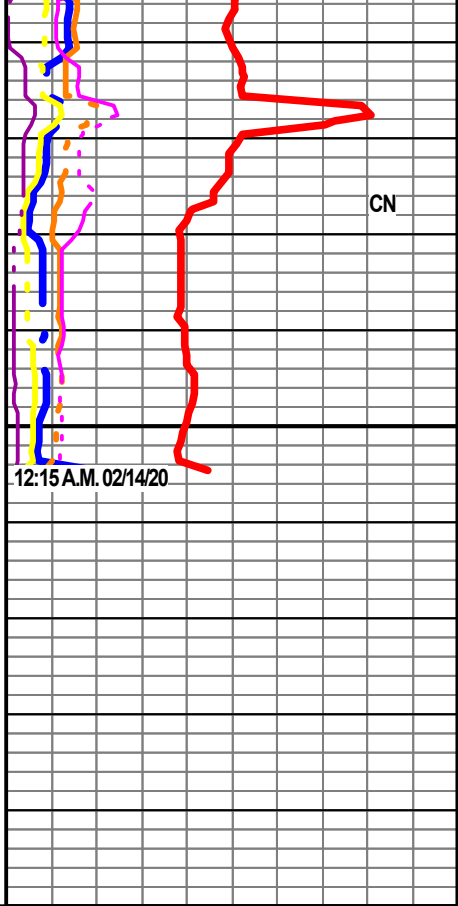


3900

50

R.T.D. 3905'

L.T.D. 3906'





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

JEL Resources LLC
 1801 Broadway
 Suite 200
 Denver CO 80202
 ATTN: Justin Carter

9/22S/13W/Stafford

Lyda Rutti 1-9

Job Ticket: 66231

DST#: 1

Test Start: 2020.02.12 @ 17:10:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:30:47

Time Test Ended: 01:50:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/ 32

Interval: **3533.00 ft (KB) To 3590.00 ft (KB) (TVD)**

Reference Elevations: 1903.00 ft (KB)

Total Depth: 3590.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 8365

Inside

Press@RunDepth: 378.75 psig @ 3534.00 ft (KB)

Capacity: psig

Start Date: 2020.02.12

End Date:

2020.02.13

Last Calib.:

2020.02.12

Start Time: 17:10:01

End Time:

01:50:02

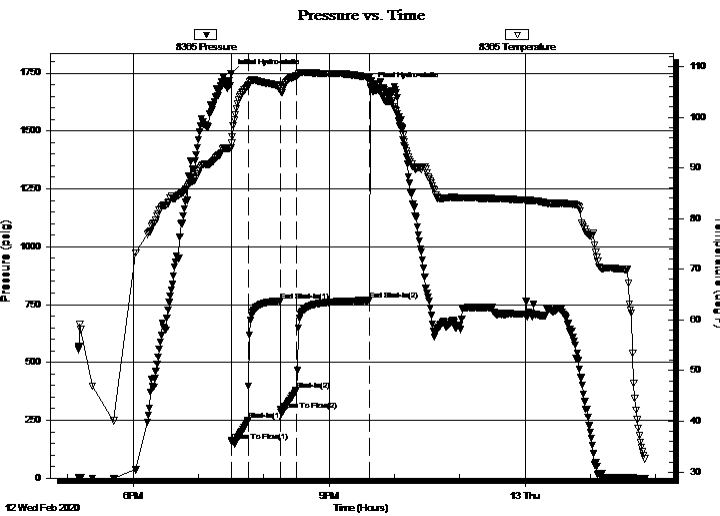
Time On Btm:

2020.02.12 @ 19:30:02

Time Off Btm:

2020.02.12 @ 21:38:32

TEST COMMENT: IF 15 Minutes/ Blow to BOB in 30 seconds/ Gas to surface in 13 minutes
 ISI 30 Minutes/ Blow back built to 27 inches
 FF 15 Minutes/ Blow to BOB in 40 seconds/ Gas to light to guage
 FSI 60 Minutes/ Blow back built to 160 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1748.86	93.94	Initial Hydro-static
1	157.69	94.86	Open To Flow (1)
16	249.71	106.13	Shut-In(1)
45	766.57	106.03	End Shut-In(1)
46	295.35	105.28	Open To Flow (2)
60	378.75	108.10	Shut-In(2)
128	768.81	107.83	End Shut-In(2)
129	1690.14	106.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMO / G50% O 40% M 10%	1.74
1426.00	GO / G 60% O 40%	20.00

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

JEL Resources LLC
 1801 Broadway
 Suite 200
 Denver CO 80202
 ATTN: Justin Carter

9/22S/13W/Stafford

Lyda Rutti 1-9

Job Ticket: 66231

DST#: 1

Test Start: 2020.02.12 @ 17:10:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:30:47

Time Test Ended: 01:50:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/ 32

Interval: **3533.00 ft (KB) To 3590.00 ft (KB) (TVD)**

Reference Elevations: 1903.00 ft (KB)

Total Depth: 3590.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6755 Outside

Press@RunDepth: 766.70 psig @ 3535.00 ft (KB)

Capacity: psig

Start Date: 2020.02.12

End Date:

2020.02.13

Last Calib.:

2020.02.12

Start Time: 17:10:01

End Time:

01:50:02

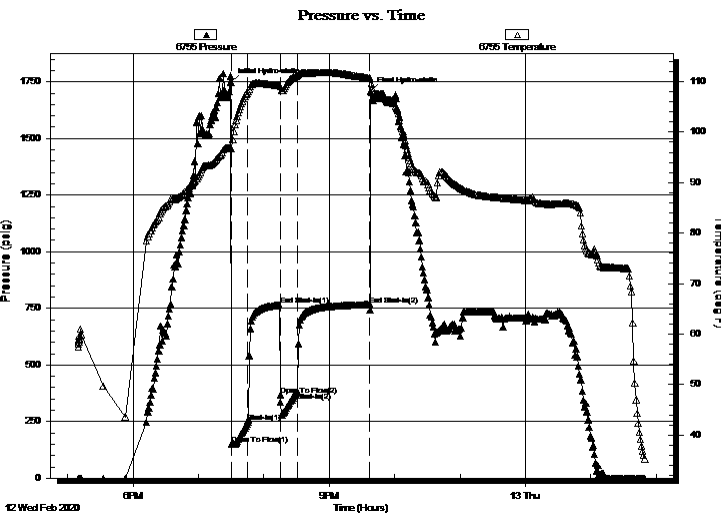
Time On Btm:

2020.02.12 @ 19:29:47

Time Off Btm:

2020.02.12 @ 21:38:02

TEST COMMENT: IF 15 Minutes/ Blow to BOB in 30 seconds/ Gas to surface in 13 minutes
 ISI 30 Minutes/ Blow back built to 27 inches
 FF 15 Minutes/ Blow to BOB in 40 seconds/ Gas to light to guage
 FSI 60 Minutes/ Blow back built to 160 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1746.09	96.93	Initial Hydro-static
1	150.80	96.66	Open To Flow (1)
16	246.19	107.96	Shut-In(1)
45	764.77	109.22	End Shut-In(1)
46	368.01	109.00	Open To Flow (2)
61	381.40	111.19	Shut-In(2)
128	766.70	110.70	End Shut-In(2)
129	1708.84	110.54	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
124.00	GMO / G50% O 40% M 10%	1.74
1426.00	GO / G 60% O 40%	20.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

JEL Resources LLC
1801 Broadway
Suite 200
Denver CO 80202
ATTN: Justin Carter

9/22S/13W/Stafford
Lyda Rutti 1-9
Job Ticket: 66231 **DST#: 1**
Test Start: 2020.02.12 @ 17:10:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 8400.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

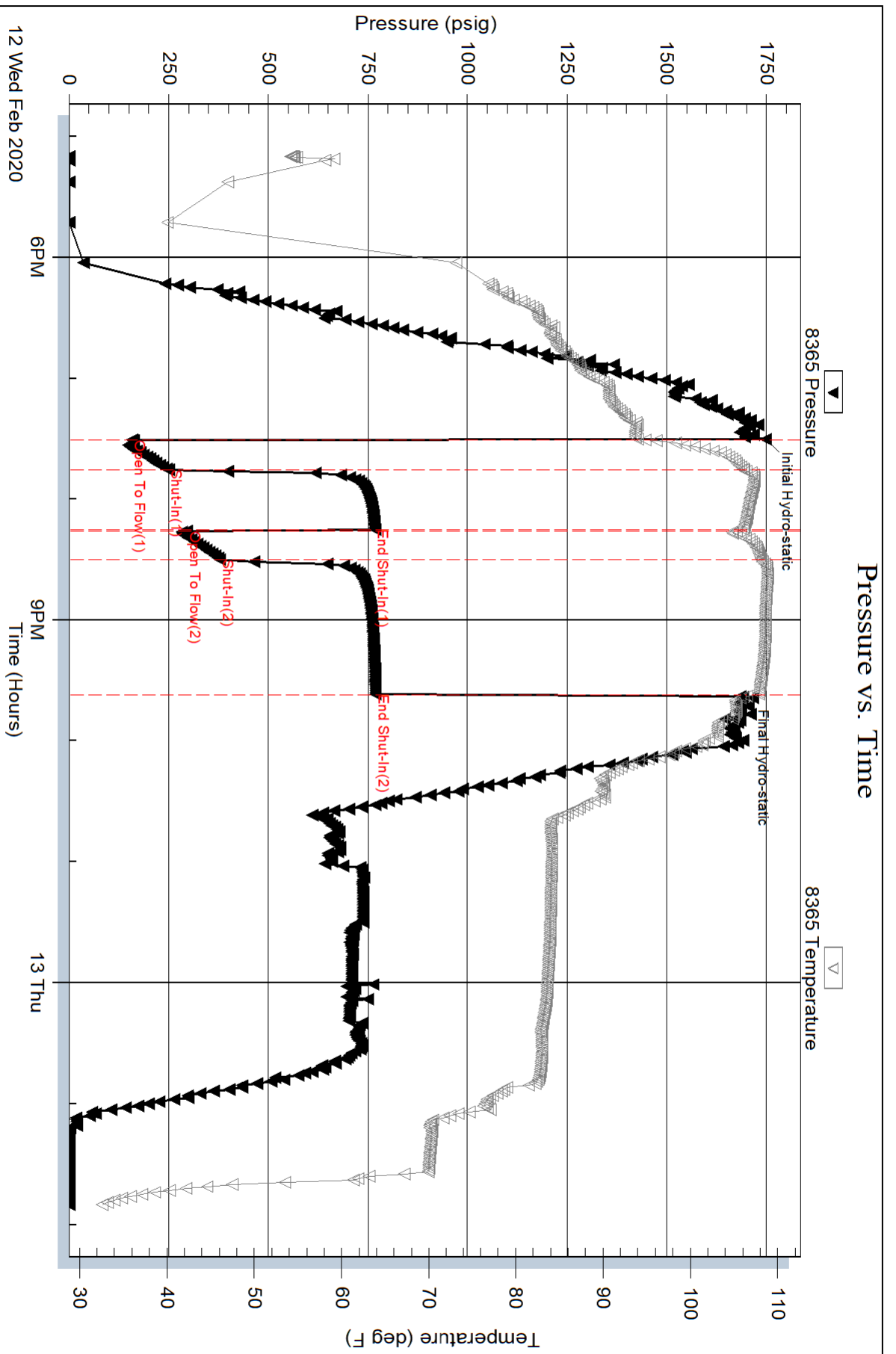
Length ft	Description	Volume bbl
124.00	GMO / G50% O 40% M 10%	1.739
1426.00	GO / G 60% O 40%	20.003

Total Length: 1550.00 ft Total Volume: 21.742 bbl

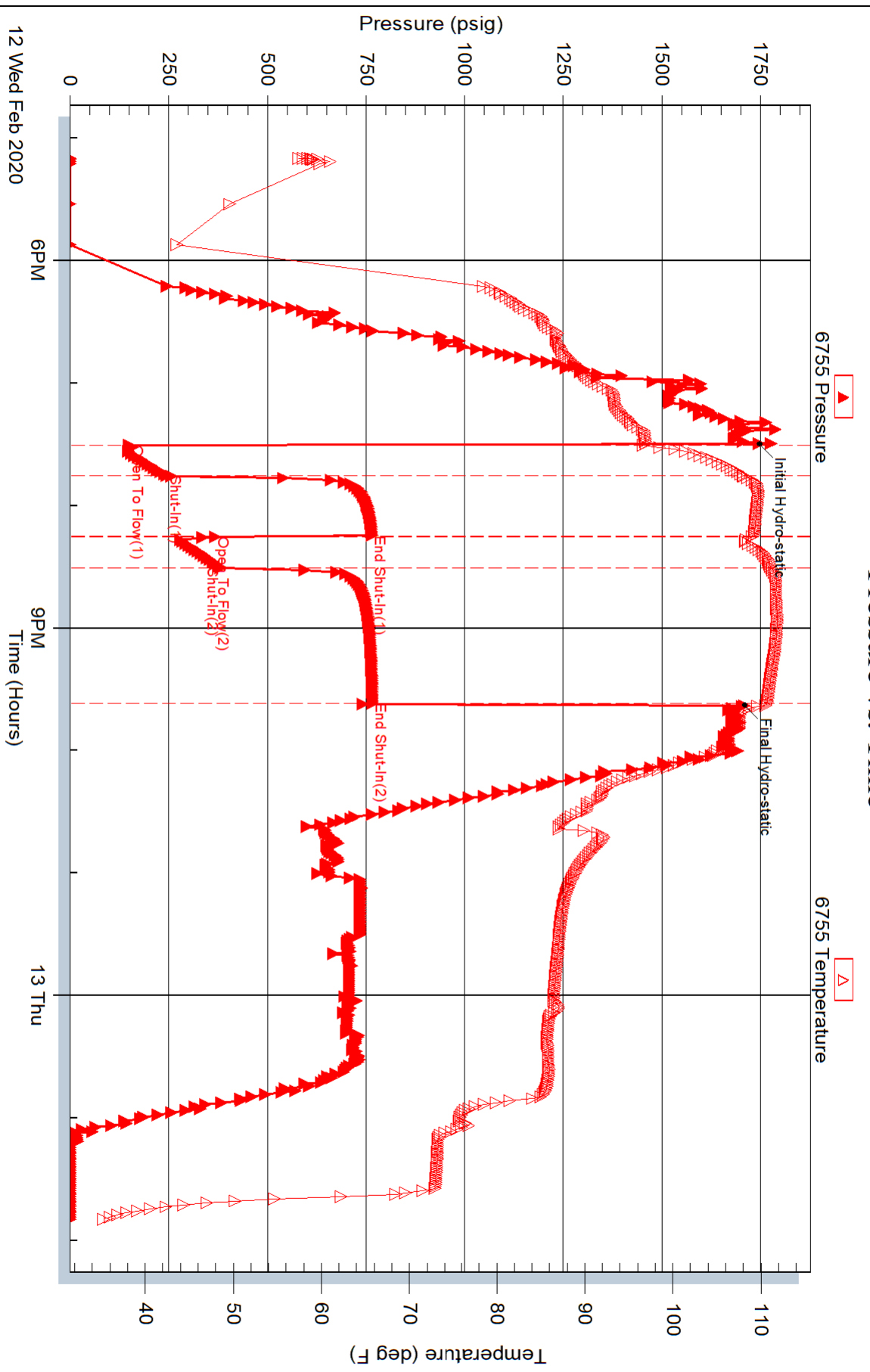
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

JEL Resources LLC
 1801 Broadway
 Suite 200
 Denver CO 80202
 ATTN: Justin Carter

9/22S/13W/Stafford

Lyda Rutti 1-9

Job Ticket: 66232

DST#: 2

Test Start: 2020.02.12 @ 09:52:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:51:17

Time Test Ended: 17:02:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/ 36

Interval: **3592.00 ft (KB) To 3620.00 ft (KB) (TVD)**

Reference Elevations: 1903.00 ft (KB)

Total Depth: 3620.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: **8365**

Inside

Press@RunDepth: 49.67 psig @ 3593.00 ft (KB)

Capacity: psig

Start Date: 2020.02.12

End Date: 2020.02.12

Last Calib.: 2020.02.12

Start Time: 09:52:01

End Time: 17:02:02

Time On Btm: 2020.02.12 @ 11:50:47

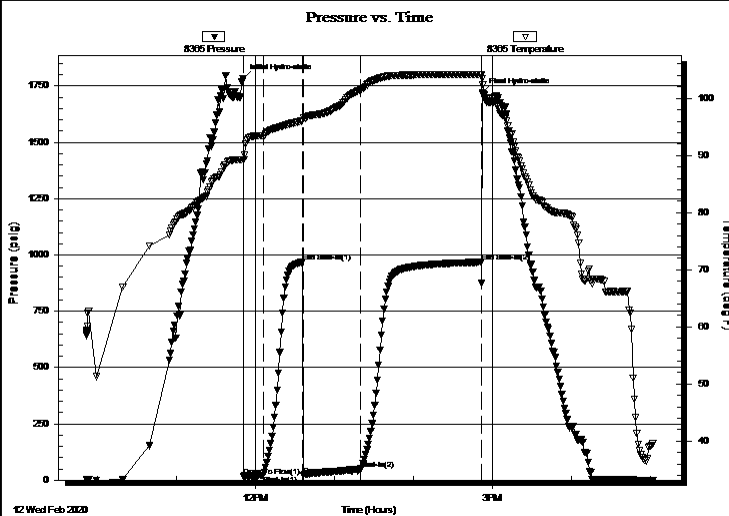
Time Off Btm: 2020.02.12 @ 14:52:32

TEST COMMENT: IF 15 Mintues/ Blow built to BOB in 6 1/2 minutes / Total build 29 inches

ISI 30 Minutes/ 1/2 inch blow back

FF 45 Minutes/ Blow to BOB in 10 seconds / Total build 96 1/2 inches

FSI 90 Minutes/ 6 1/2 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.90	89.21	Initial Hydro-static
1	16.56	89.21	Open To Flow (1)
16	21.83	93.45	Shut-In(1)
46	968.34	96.08	End Shut-In(1)
46	20.50	96.50	Open To Flow (2)
90	49.67	101.46	Shut-In(2)
181	968.24	104.16	End Shut-In(2)
182	1719.42	103.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GO / G 30% O 70%	1.26
0.00	1026 feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

JEL Resources LLC
1801 Broadway
Suite 200
Denver CO 80202
ATTN: Justin Carter

9/22S/13W/Stafford

Lyda Rutti 1-9

Job Ticket: 66232

DST#: 2

Test Start: 2020.02.12 @ 09:52:00

GENERAL INFORMATION:

Formation: **Lansing/Kansas City**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:51:17

Time Test Ended: 17:02:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Ken Swinney

Unit No: 72 Great Bend/ 36

Interval: 3592.00 ft (KB) To 3620.00 ft (KB) (TVD)

Reference Elevations: 1903.00 ft (KB)

Total Depth: 3620.00 ft (KB) (TVD)

1895.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6755 Outside

Press@RunDepth: 966.37 psig @ 3594.00 ft (KB)

Capacity: psig

Start Date: 2020.02.12

End Date: 2020.02.12

Last Calib.: 2020.02.12

Start Time: 09:52:01

End Time: 17:02:02

Time On Btm: 2020.02.12 @ 11:50:32

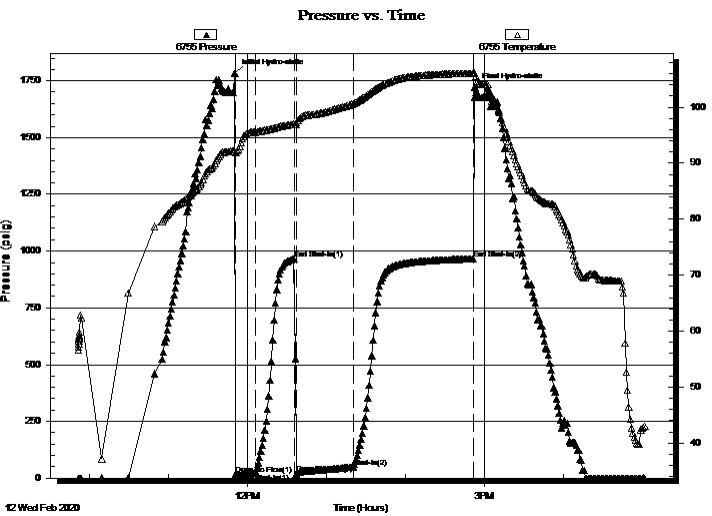
Time Off Btm: 2020.02.12 @ 14:52:32

TEST COMMENT: IF 15 Mintues/ Blow built to BOB in 6 1/2 minutes / Total build 29 inches

ISI 30 Minutes/ 1/2 inch blow back

FF 45 Minutes/ Blow to BOB in 10 seconds / Total build 96 1/2 inches

FSI 90 Minutes/ 6 1/2 inch blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1782.70	92.15	Initial Hydro-static
1	16.52	91.90	Open To Flow (1)
16	21.76	95.56	Shut-In(1)
45	965.82	96.96	End Shut-In(1)
47	19.52	96.94	Open To Flow (2)
90	49.41	100.63	Shut-In(2)
181	966.37	106.08	End Shut-In(2)
182	1721.31	106.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	GO / G 30% O 70%	1.26
0.00	1026 feet GIP	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

JEL Resources LLC
1801 Broadway
Suite 200
Denver CO 80202
ATTN: Justin Carter

9/22S/13W/Stafford

Lyda Rutti 1-9

Job Ticket: 66232

DST#: 2

Test Start: 2020.02.12 @ 09:52:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 11.19 in³
Resistivity: ohm.m
Salinity: 12200.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: 32 deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	GO / G 30% O 70%	1.262
0.00	1026 feet GIP	0.000

Total Length: 90.00 ft Total Volume: 1.262 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

JEL Resources LLC
 1801 Broadway
 Suite 200
 Denver CO 80202
 ATTN: Justin Carter

9/22S/13W/Stafford

Lyda Rutti 1-9

Job Ticket: 66233

DST#: 3

Test Start: 2020.02.13 @ 10:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:31:47
 Tester: Ken Swinney
 Time Test Ended: 18:19:02
 Unit No: 72 Great Bend / 32
 Interval: **3748.00 ft (KB) To 3820.00 ft (KB) (TVD)**
 Reference Elevations: 1903.00 ft (KB)
 Total Depth: 3820.00 ft (KB) (TVD)
 1895.00 ft (CF)
 Hole Diameter: 7.80 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

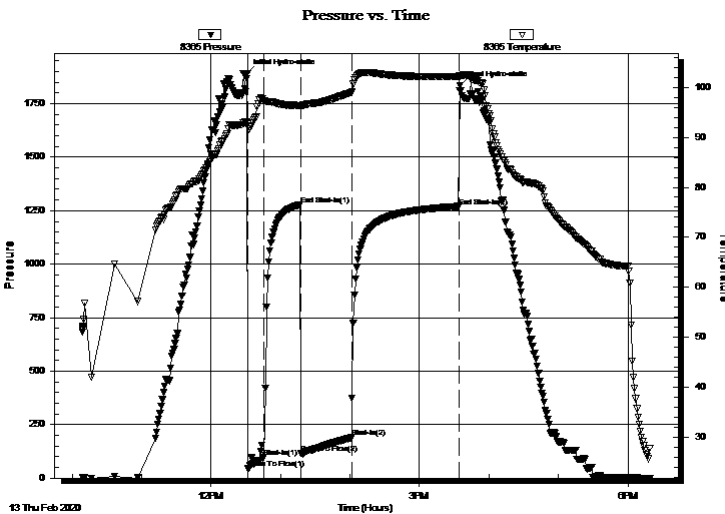
Serial #: 8365

Inside

Press@RunDepth: 190.32 psig @ 3749.00 ft (KB) Capacity: psig
 Start Date: 2020.02.13 End Date: 2020.02.13 Last Calib.: 2020.02.13
 Start Time: 10:09:01 End Time: 18:19:02 Time On Btm: 2020.02.13 @ 12:31:02
 Time Off Btm: 2020.02.13 @ 15:35:17

TEST COMMENT: IF 15 Minutes/ Blow built to 11 inches
 ISI 30 Minutes/ 1/2 inch blow back
 FF 45 Minutes/ Blow to BOB in 16 minutes/ Total build 37 inches
 FSI 90 Minutes/ 6 1/2 inch blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1892.00	93.07	Initial Hydro-static
1	43.90	92.64	Open To Flow (1)
15	98.78	97.36	Shut-In(1)
46	1278.58	96.36	End Shut-In(1)
47	115.73	96.22	Open To Flow (2)
91	190.32	99.06	Shut-In(2)
183	1270.43	102.19	End Shut-In(2)
185	1834.51	102.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	MO Emulsified/ O 70% M 30%	4.35
107.00	GO / G 10% O 90%	1.50

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

JEL Resources LLC
 1801 Broadway
 Suite 200
 Denver CO 80202
 ATTN: Justin Carter

9/22S/13W/Stafford

Lyda Rutti 1-9

Job Ticket: 66233

DST#: 3

Test Start: 2020.02.13 @ 10:09:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:31:47
 Time Test Ended: 18:19:02
 Interval: **3748.00 ft (KB) To 3820.00 ft (KB) (TVD)**
 Total Depth: 3820.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ken Swinney
 Unit No: 72 Great Bend / 32
 Reference Elevations: 1903.00 ft (KB)
 1895.00 ft (CF)
 KB to GR/CF: 8.00 ft

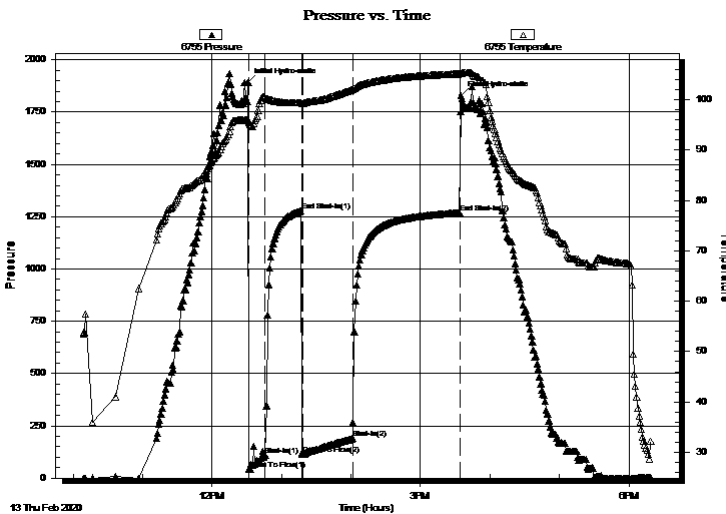
Serial #: 6755

Outside

Press@RunDepth: 1268.95 psig @ 3750.00 ft (KB) Capacity: psig
 Start Date: 2020.02.13 End Date: 2020.02.13 Last Calib.: 2020.02.13
 Start Time: 10:09:01 End Time: 18:19:02 Time On Btm: 2020.02.13 @ 12:31:02
 Time Off Btm: 2020.02.13 @ 15:35:02

TEST COMMENT: IF 15 Minutes/ Blow built to 11 inches
 ISI 30 Minutes/ 1/2 inch blow back
 FF 45 Minutes/ Blow to BOB in 16 minutes/ Total build 37 inches
 FSI 90 Minutes/ 6 1/2 inch blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.77	95.95	Initial Hydro-static
1	40.66	95.59	Open To Flow (1)
15	108.89	100.38	Shut-In(1)
46	1277.42	99.44	End Shut-In(1)
47	113.89	99.28	Open To Flow (2)
91	189.39	102.07	Shut-In(2)
183	1268.95	105.15	End Shut-In(2)
184	1829.37	105.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
310.00	MO Emulsified/ O 70% M 30%	4.35
107.00	GO / G 10% O 90%	1.50

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

JEL Resources LLC
1801 Broadway
Suite 200
Denver CO 80202
ATTN: Justin Carter

9/22S/13W/Stafford
Lyda Rutti 1-9
Job Ticket: 66233 **DST#: 3**
Test Start: 2020.02.13 @ 10:09:00

Mud and Cushion Information

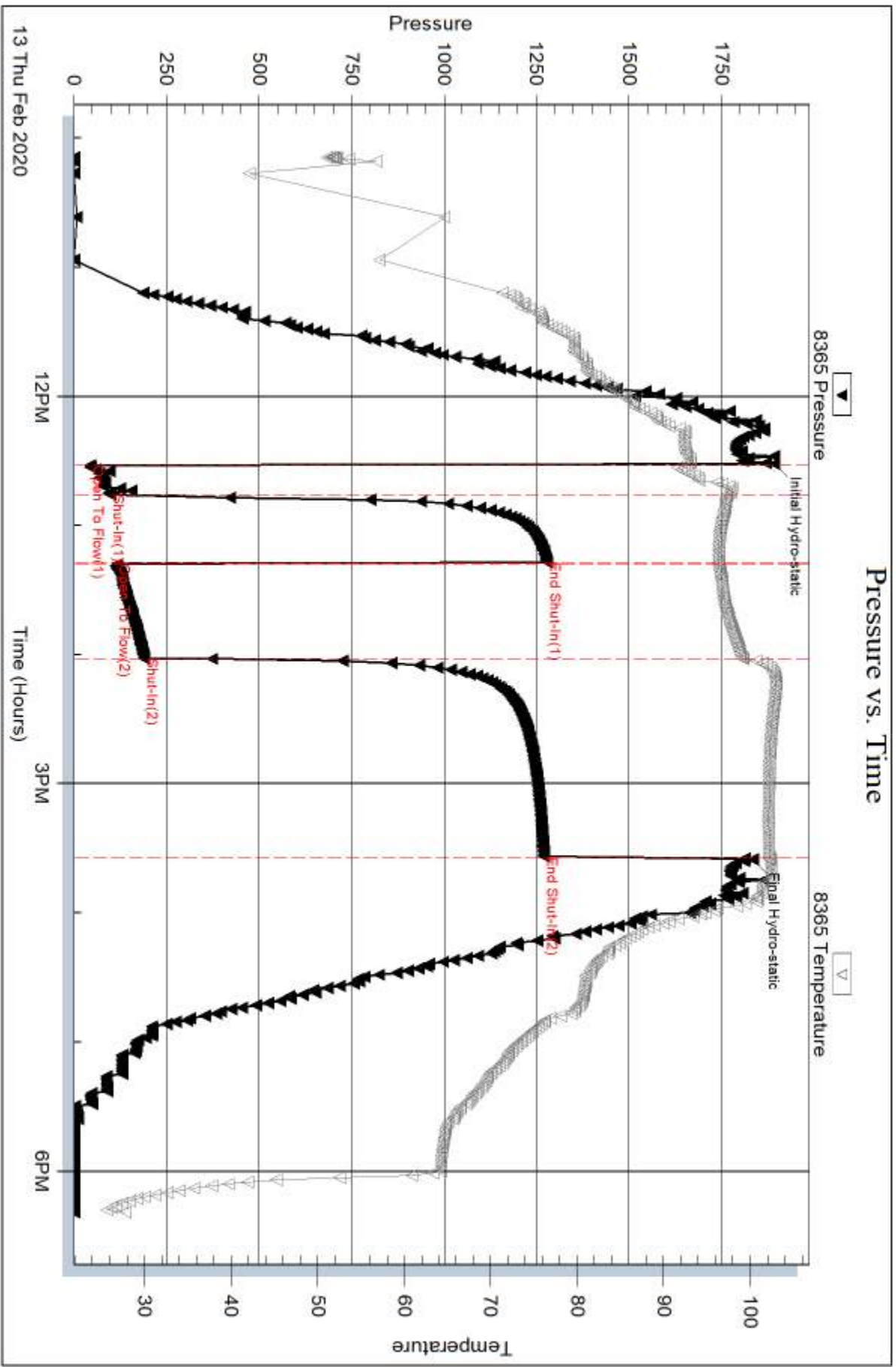
Mud Type: Gel Chem	Cushion Type:	Oil API: 34 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl	
Water Loss: 11.99 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	
Salinity: 13400.00 ppm		
Filter Cake: 1.00 inches		

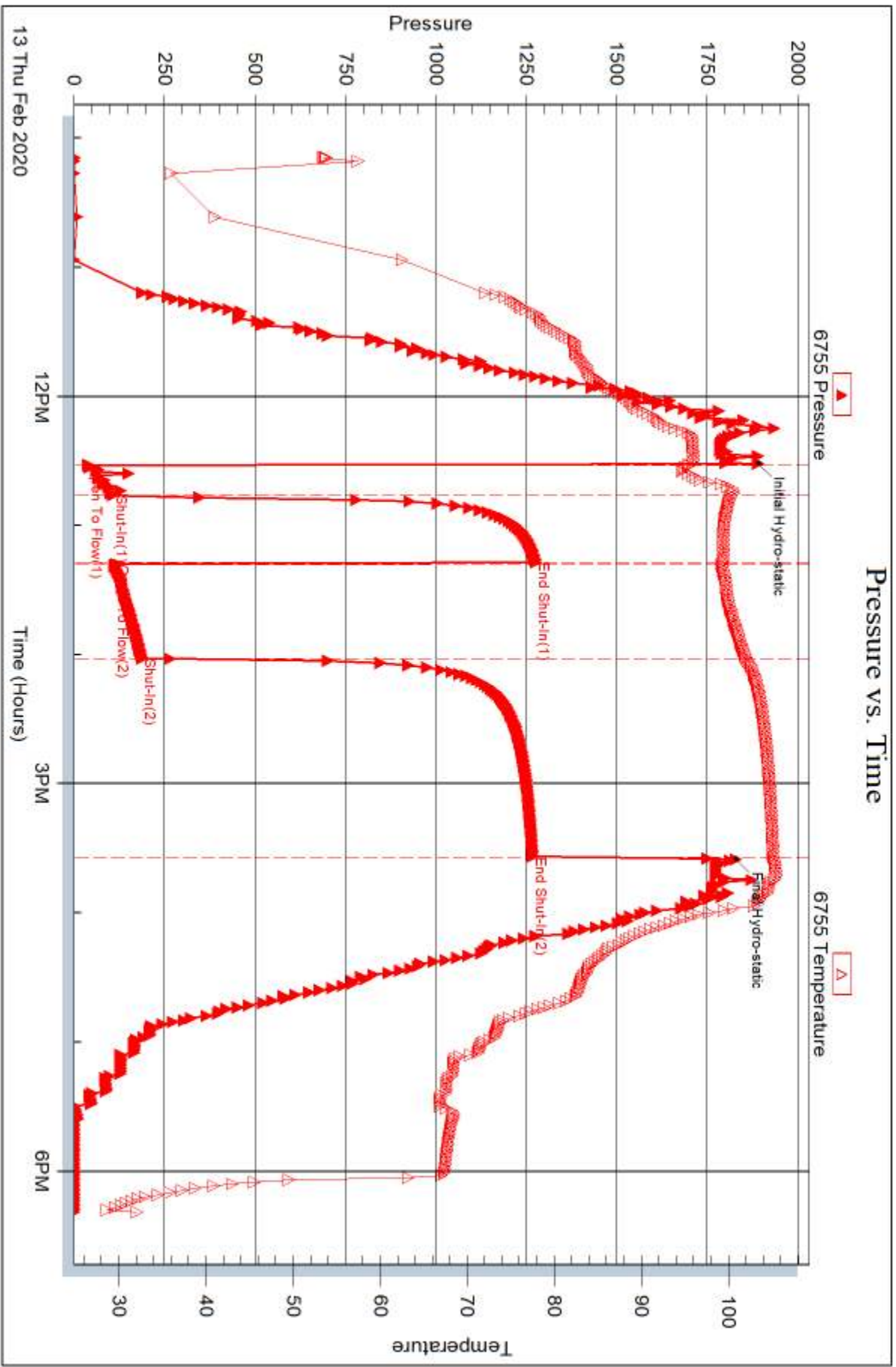
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
310.00	MO Emulsified/ O 70% M 30%	4.348
107.00	GO / G 10% O 90%	1.501

Total Length: 417.00 ft Total Volume: 5.849 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:





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. 1942

Date	2-14-20	Sec.	9	Twp.	22	Range	13	County	Stafford KS	State	KS	On Location		Finish	639
------	---------	------	---	------	----	-------	----	--------	-------------	-------	----	-------------	--	--------	-----

Location 2819 19 Hwy 1 W 3/4 S Binto

Lease	Lxda Rott	Well No.	1-9	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	Discovery #2				
Type Job	Production String				
Hole Size	7 7/8	T.D.	3905	Charge To	JBL Resources
Csg.	5 1/2 1550	Depth	3900	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.	42.80	Shoe Joint	42.80	Cement Amount Ordered	175 Q-Pro-C JBL KCL
Meas Line		Displace	9 1/4 BCL	W/Salt 5 1/2 Gilsontc 500gal mud clear	

EQUIPMENT

Pumptrk	20	No.	Cementer	2019	Poz. Mix
			Helper		
Bulktrk		No.	Driver	11/11	Gel.
			Driver		
Bulktrk	15	No.	Driver	Lance	Calcium
			Driver		

JOB SERVICES & REMARKS

Remarks:	
Rat Hole	395K
Mouse Hole	265K
Centralizers	
Baskets	
D/V or Port Collar	
5 1/2 spx @ 3900; Baffle @ 3857.	
Est. Circulation - Pump 500gal mud clear	
Phy Rathole 305K mouse hole 155K	
Cement 5 1/2 with 1305K	
Clear lines + Displace Phy. 1st JBL	
KCL	
Phy landed @ 1505K	
L.H. pressure 800*	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	8
Baskets	/
AFU Inserts	
Float Shoe	/
Latch Down	/

Pumptrk Charge	
Mileage	
Tax	
Discount	
Total Charge	

X Signature 

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. 1886

Date	2-7-20	Sec.	9	Twp.	22	Range	13	County	Stafford	State	Ks	On Location		Finish	8:45 AM
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Location **281 + K-19, 1W, 7/8 S, E / Into**

Lease	Lyda Rutt		Well No.	1-9	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	Discovery #2					
Type Job	Surface					
Hole Size	12 1/4"	T.D.	437'	Charge To	JEL Resources	
Csg.	8 5/8"	Depth	436'	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.	20'	Shoe Joint	20'	Cement Amount Ordered 455 80/20 3% CC 2% Gel		
Meas Line		Displace	26 1/2 Bbl	1/2 # Flowseal		

EQUIPMENT

Pumptrk	16	No.		Cementer		Common
				Helper	David	
Bulktrk	21	No.		Driver	Tony	Poz. Mix
				Driver		Gel.
Bulktrk	P.U.	No.		Driver	Rick	Calcium
				Driver		Hulls

JOB SERVICES & REMARKS

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

FLOAT EQUIPMENT

		Guide Shoe
		Centralizer
		Baskets
		AFU Inserts
		Float Shoe
		Latch Down

		Pumptrk Charge
		Mileage
		Tax
		Discount
		Total Charge

X Signature **[Handwritten Signature]**