

Confidentiality Requested:

Yes  No

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

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

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

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

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

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

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

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

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

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

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

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

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

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

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

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

**Drilling Fluid Management Plan**

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

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

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

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (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 1-8  
Well Id:  
Location: SE, SW, SW Sec. 8 - 22S - 13W Stafford Co., KS  
License Number: 15-185-24040-0000  
Spud Date: 11/24/18  
Surface Coordinates: 330' FSL, 990' FWL  
Region: Wildcat  
Drilling Completed: 12/01/18

Bottom Hole Coordinates: 306': 1 DEG, 3485': 2 DEG, 3900': 2.5 DEG  
Ground Elevation (ft): 1906' K.B. Elevation (ft): 1914'  
Logged Interval (ft): 3100' To: 3900' Total Depth (ft): 3900'  
Formation: L/KC, VIOLA, SIMPSON  
Type of Drilling Fluid: Chemical Mud

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### OPERATOR

Company: JEL RESOURCES, LLC  
Address: 6545 S. Riviera Way  
Aurora, CO 80016-2688  
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 305'

Mud: MudCo  
Engineer: Rick Hughes

Gas Detector: Blue Stem

DSTs: Diamond Testing  
Tester: Jacob McCallie

Open-Hole Loggers: ELI Wireline



**Company: JEL Resources, LLC**  
**Lease: Lyda Rutti #1-8**

Tester: Jacob McCallie  
 On-Site Contact: Justin Carter

SEC: 8 TWIN: 22W RING: 133  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc - Rig 2  
 Elevation: 1911 EGL  
 Field Name: N/A  
 Pool: WILDCAT  
 Job Number: 290

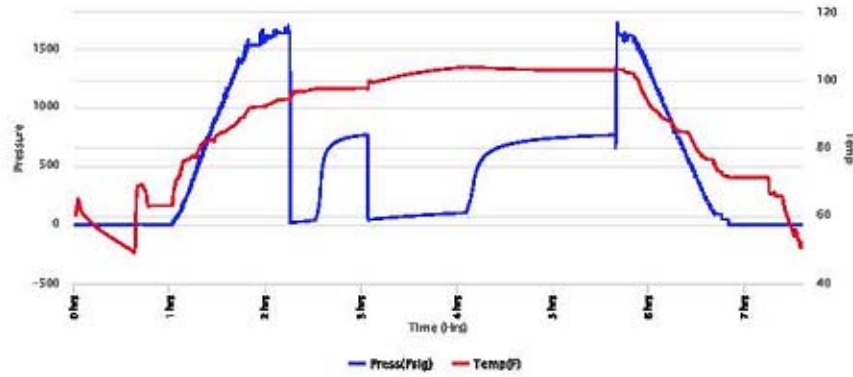
**Operation:**  
 Test Complete

**DATE**  
 November  
 28  
 2018

**DST #1**      **Formation: LKC C-D**      **Test Interval: 3464 - 3485'**      **Total Depth: 3485'**  
 Time On: 19:22 11/28      Time On: 02:45 11/28  
 Time On Bottom: 21:58 11/28      Time Off Bottom: 00:48 11/28

Electronic Volume Estimate:  
 494'

1st Open	1st Close	2nd Open	2nd Close
Minutes: 16	Minutes: 30	Minutes: 80	Minutes: 90
Current Reading: 10.1" at 16 min	Current Reading: .1" at 30 min	Current Reading: 32.7" at 80 min	Current Reading: 1.3" at 90 min
Max Reading: 10.1"	Max Reading: .1"	Max Reading: 32.7"	Max Reading: 1.3"



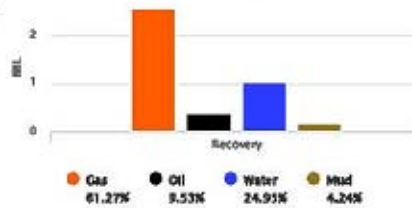
Foot	BSLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
286	2.6706019	G	100	0	0	0
30	0.2228	SLMCWCO	0	80	23	17
83	0.48748	MCWCO	0	66	26	20
128	0.93482	SLOCSLMCW	0	1	94	6

Total Recovered: 504 ft  
 Total Barrels Recovered: 4.1958819

Reversed Out  
 NO

Initial Hydrostatic Pressure	1834	PSI
Initial Flow	16 to 37	PSI
Initial Closed In Pressure	788	PSI
Final Flow Pressure	44 to 103	PSI
Final Closed In Pressure	786	PSI
Final Hydrostatic Pressure	1828	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	0.4	%

**Recovery at a glance**



**BUCKET MEASUREMENT:**

Diesel in Bucket  
 1st Open: 1" blow - built to 11.5 in 16 mins  
 1st Close: Wobb  
 2nd Open: 1" blow - built to be in 14 mins.  
 2nd Close: 1.5" bb

**REMARKS:**

Tool Sample: 0% Gas 96% Oil 6% Water 0% Mud

Phi: 8

Measured RW: .4 @ 31 degrees °F

RW at Formation Temp: 0.138 @ 104 °F



**Company: JEL Resources, LLC**

**Lease: Lyda Rutti #1-8**

Tester: Jacob McCallie  
On-Site Contact: Justin Carter

SEC- 8 TWIN: 22 S RING: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Discovery Drilling Company, Inc - Rig 2  
Elevation: 1911 EGL  
Field Name: N/A  
Pool: WILDCAT  
Job Number: 290

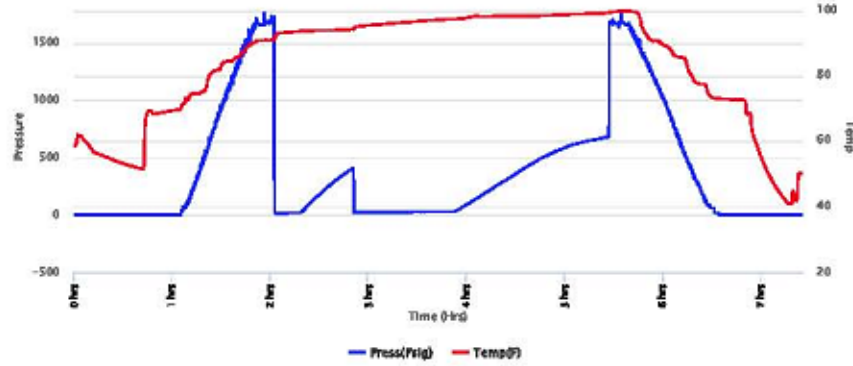
**Operation:**  
Test Complete

**DATE**  
November  
29  
2018

**DST #2**      **Formation: LKC I-J**      **Test Interval: 3579 - 3815'**      **Total Depth: 3815'**  
Time On: 18:21 11/28      Time On Bottom: 20:20 11/28      Time Off: 01:34 11/28      Time Off Bottom: 22:35 11/28

Electronic Volume Estimate:  
673'

1st Open	1st Close	2nd Open	2nd Close
Minutes: 15	Minutes: 30	Minutes: 50	Minutes: 50
Current Reading: 13.7" at 15 min	Current Reading: .1" at 30 min	Current Reading: 60.4" at 50 min	Current Reading: 0" at 50 min
Max Reading: 13.7"	Max Reading: .1"	Max Reading: 60.4"	Max Reading: 0"



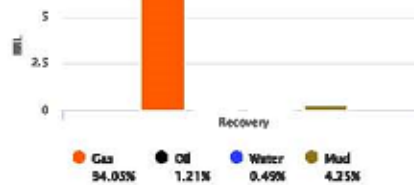
Recovered	Est	EBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
672	6.8649119		G	100	0	0	0
68	0.43038		SLGCSLWCOOM	2	20	8	70

Total Recovered: 830 ft  
Total Barrels Recovered: 7.0852719

**Reversed Out**  
NO

Initial Hydrostatic Pressure	1877	PSI
Initial Flow	12 to 17	PSI
Initial Closed In Pressure	412	PSI
Final Flow Pressure	19 to 30	PSI
Final Closed In Pressure	863	PSI
Final Hydrostatic Pressure	1877	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



**BUCKET MEASUREMENT:**  
1st Open: 1" blow - bb in 11 1/4 mins  
1st Close: Wobb  
2nd Open: Eb instant  
2nd Close: NoRB

**REMARKS:**

Tool Sample: 10% Gas 36% Oil 2% Water 63% Mud



# Company: JEL Resources, LLC

## Lease: Lyda Rutti #1-8

Tester: Jacob McCallie  
On-Site Contact: Justin Carter

SEC: 8 TWN: 22 S R1G: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc - Rig 2  
Elevation: 1911 EGL  
Field Name: N/A  
Pool: WILDCAT  
Job Number: 290

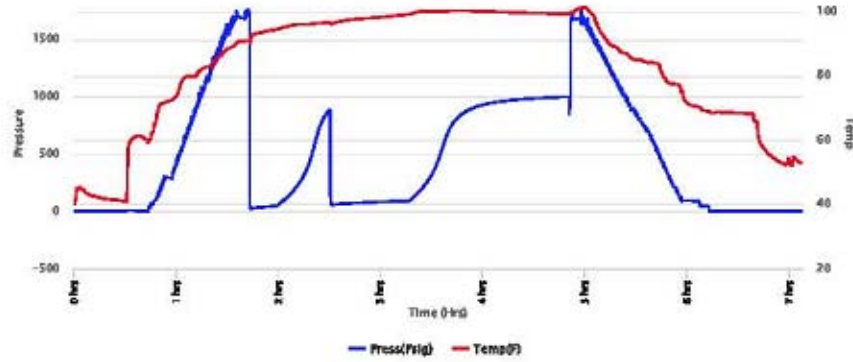
**Operation:**  
Test Complete

**DATE**  
November  
30  
2018

**DST #3      Formation: L/KC "K"      Test Interval: 3818 - 3842"      Total Depth: 3842"**  
Time On: 0808 H:00      Time On Bottom: 0850 H:30      Time Off: 1604 H:00      Time Off Bottom: 12:00 H:00

Electronic Volume Estimate:  
1820'

1st Open	1st Close	2nd Open	2nd Close
Minutes: 16	Minutes: 30	Minutes: 46	Minutes: 90
Current Reading: 36" at 16 min	Current Reading: 2.8" at 30 min	Current Reading: 133.1" at 46 min	Current Reading: 12.2" at 90 min
Max Reading: 36"	Max Reading: 2.8"	Max Reading: 133.1"	Max Reading: 12.2"

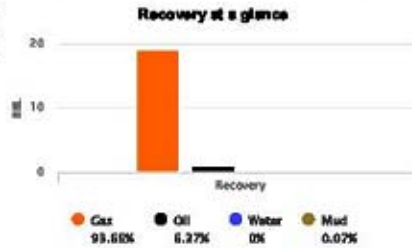


Barrel	EBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
1444	19.0834719	G	100	0	0	0
131	0.97202	O	0	100	0	0
83	0.48748	SILMCH-KGCCO	30	67	0	3

Total Recovered: 1638 ft  
Total Barrels Recovered: 20.5029519

Reversed Out  
NO

Initial Hydrostatic Pressure	1889	PSI
Initial Flow	27 to 45	PSI
Initial Closed In Pressure	887	PSI
Final Flow Pressure	68 to 92	PSI
Final Closed In Pressure	1993	PSI
Final Hydrostatic Pressure	1884	PSI
Temperature	101	°F
Pressure Change Initial Close / Final Close	0.0	%



### BUCKET MEASUREMENT:

Diagnosed in Bucket

1st Oper: 1 1/2 in blow building. BOB in 4 1/2 mins.

1st Close: 3 in. blow back.

2nd Oper: BOB immediately.

2nd Close: BOB blow back in 43 mins.

### REMARKS:

Oil carried gas during sample. Gas broke out before grind out.

Tool Sample: 0% Gas 70% Oil 0% Water 30% Mud

Gravity: 20.2 @ 80 °F

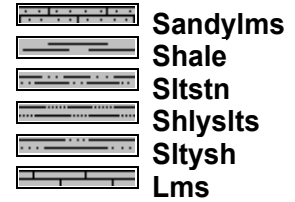
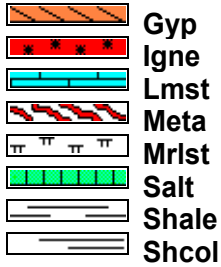
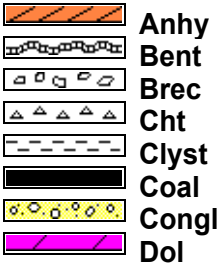
### Remarks

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 "K" zone in the Lyda Rutti #1-8.

Respectfully submitted,

Justin D. Carter  
Consulting Geologist

### ROCK TYPES

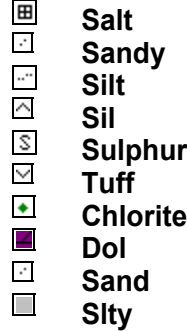


### ACCESSORIES

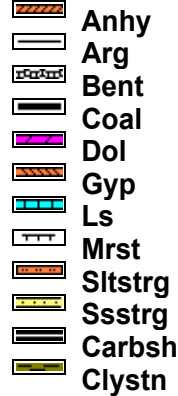
#### FOSSIL



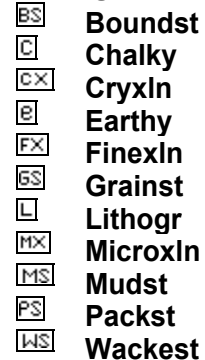
#### MINERAL



#### STRINGER

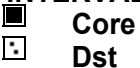


#### TEXTURE

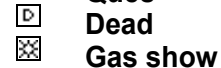
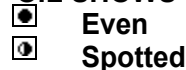


### OTHER SYMBOLS

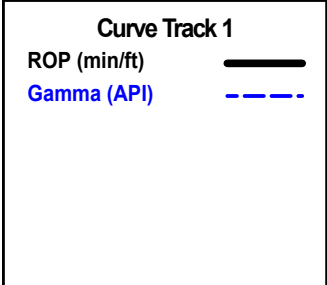
#### INTERVALS



#### OIL SHOWS

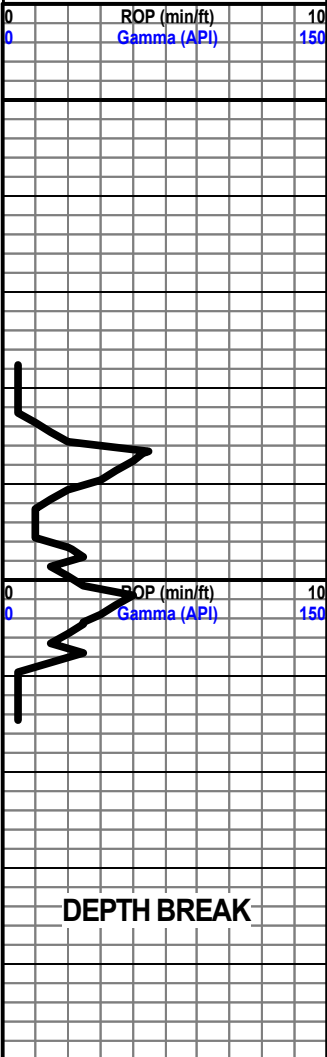
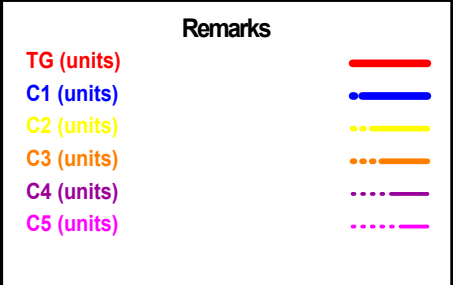






Depth  
 Lithology  
 Oil Shows

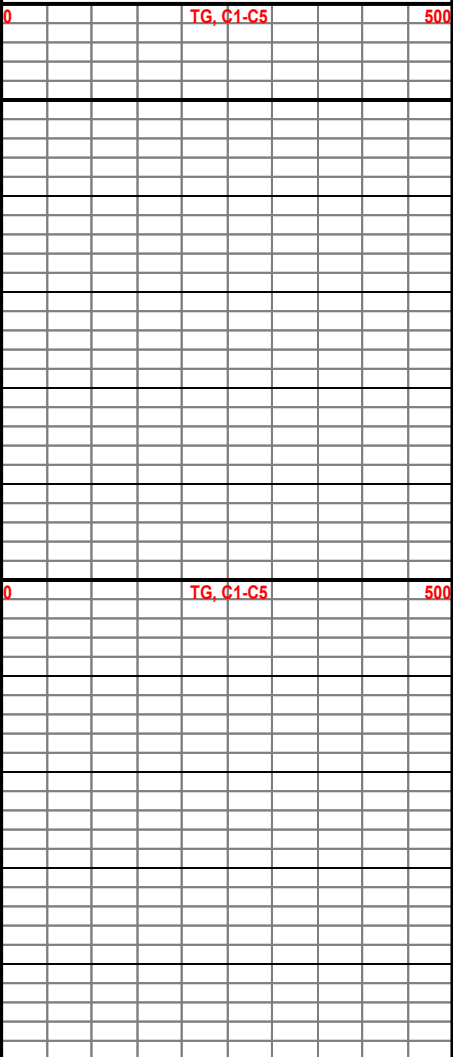
Geological Descriptions



7500  
 8000  
 3050

TOP ANHYDRITE 784' (+1130')

BASE ANHYDRITE 809' (+1105')



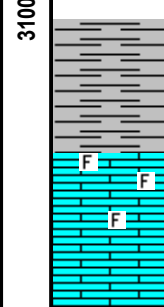
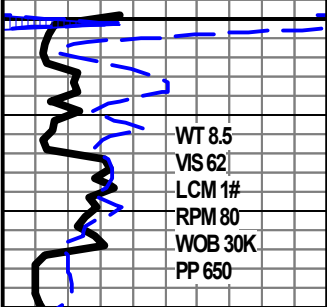
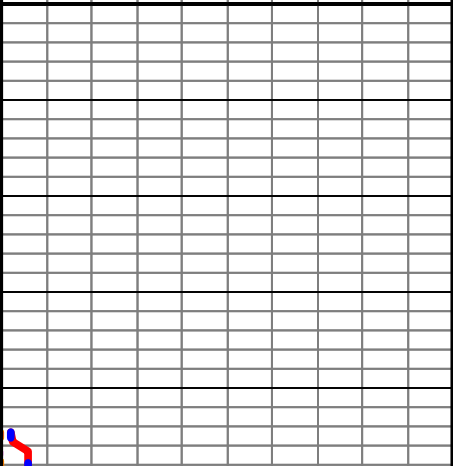
**DEPTH BREAK**

BIT #2  
 BAKER HUGHES 7 7/8"  
 GX-20C  
 S/N: 5287368  
 3/14s  
 IN @ 305'

3100

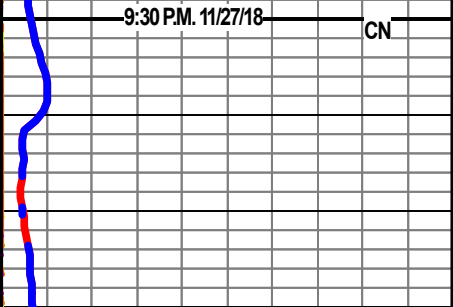
DISPLACE HOLE @ 2869'

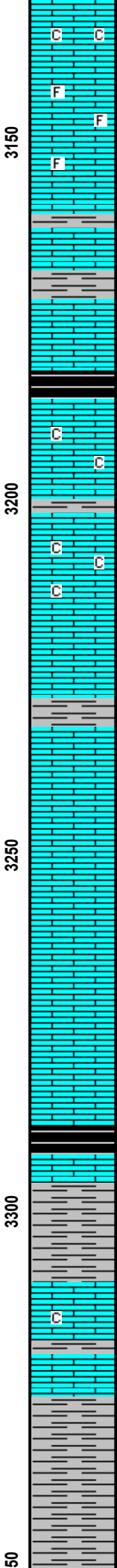
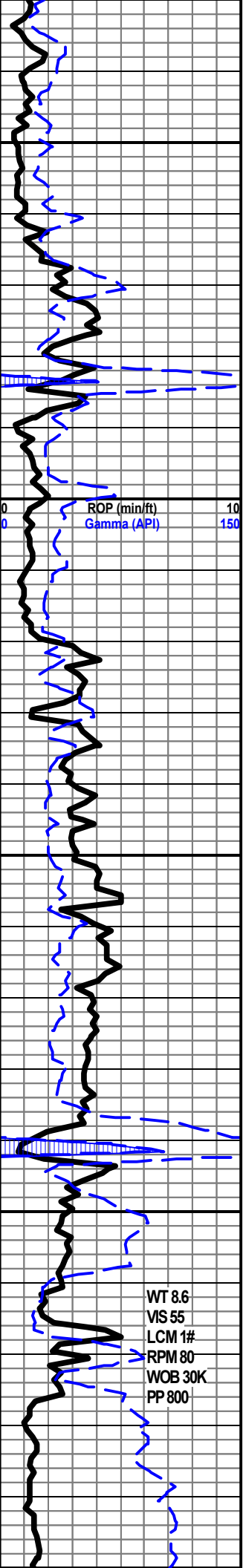
GEOLOGIST ON LOCATION 2:00 P.M. 11/27/18



SH- GY, FRM, BLKY, LMY W/ WXY TEXT

LS- CRM TN, HRD DNS, VF- XLN, RE- XLN MTRX THRU, IMBED LG FOSS FRAGS SCAT THRU, TR INTER-FOSS POR, NS





LS- CRM, HRD, F/VF-XLN, SUB-SUCRO MTRX THRU, TR SFT WHT CHLK, TR IMBED FOSS FRAGS, TR INTER-XLN POR, NS

LS- CRM TN, HRD TO BRITT IP, F-XLN, SUCRO MTRX SCAT THRU, IMBED BLK SH IP, TR IMBED FOSS FRAGS, NO FLO, PR INTER-XLN POR IP TO TR INTER-FOSS POR, NS

LS- LT TN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, TR IMBED SH, NO FLO, NO VIS POR

LS- OFF WHT, BRITT TO HRD IP, MD/F-XLN, SUCROMTRX THRU, SFT WHT CHLK IP, NO FLO, PR INTER-XLN POR IP, NS

LS- BFF, HRD TO BRITT IP, F-XLN, RE-XLN MTRX IPTO SUCRO MTRX IP, TR SFT WHT CHLK, NO FLO, PR INTER-XLN POR SCAT THRU, NS

LS- BRN, HRD DNS, MD/VF-XLN, SUCRO MTRX IP TO RE-XLN MTRX IP, NO FLO, PR INTER-XLN POR IP, NS

LS- LT CRM, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

LS- LT BRN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

**HEEBNER 3288' (-1374')**

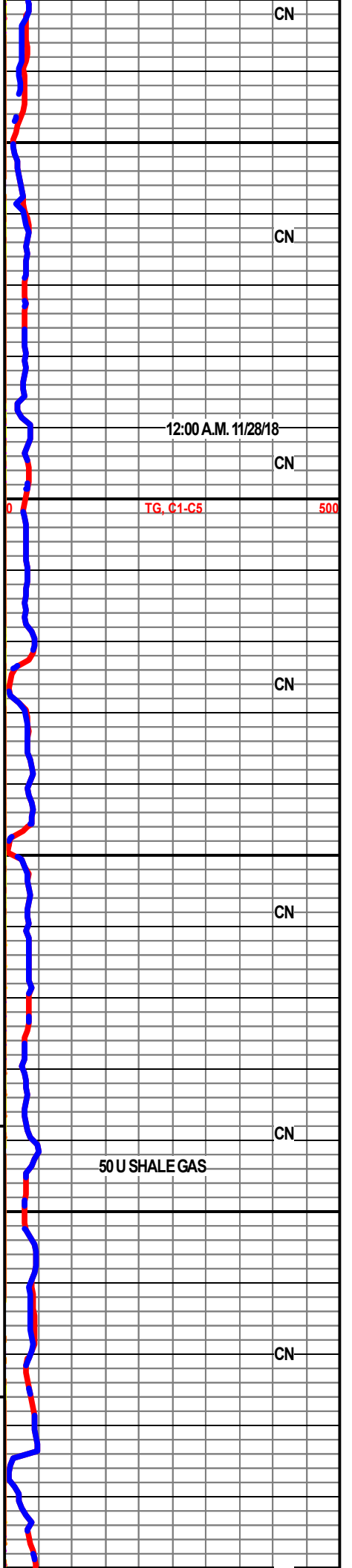
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LS- OFF WHT BFF, HRD TO BRITT IP, F/VF-XLN, RE-XLN MTRX IP TO TR SUB-CHLKY, TR SFT WHT CHLK, NO FLO, NO VIS POR

**DOUGLAS 3326' (-1412')**

SH- RD, SFT, LMY IP TO SLTY IP, OXIDIZ

SH- GY LT GRN, FRM, BLKY, ARG IP TO SLTY IP



CN

CN

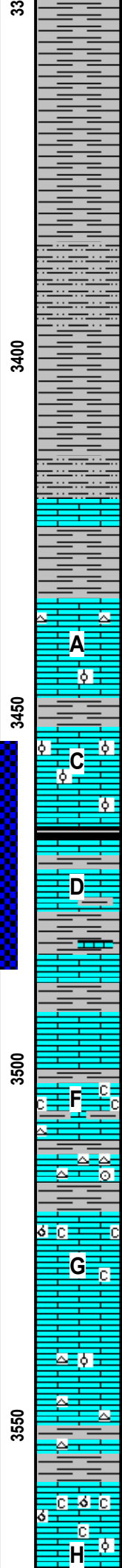
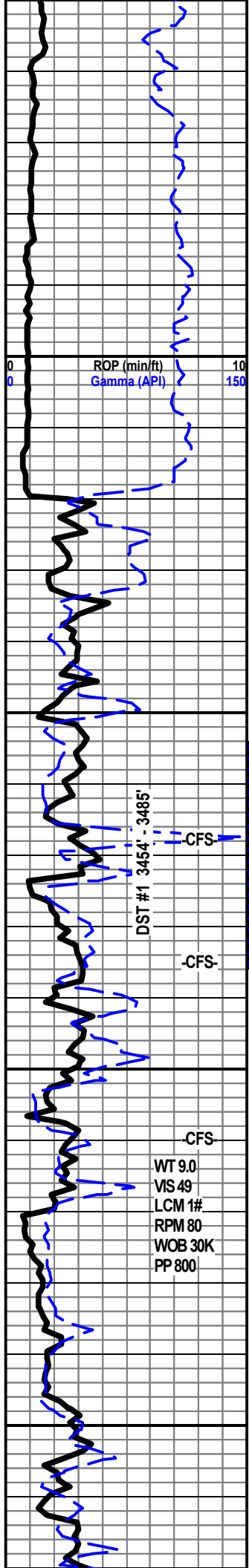
CN

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CN

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CN



SH- GY, SFT, SLTY TO SLI GMMY IP

SLTST- GY, FRM, VF-GRN, MICABLK SH SCAT THRU, NO VIS POR, NS

SH- DK GY, FRM, BLKY, SLTY TO TR SLTST IP

**BROWN LIME 3420' (-1506')**

**LANSING 3434' (-1520')**

LS- LT CRM, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, TR OPQ CHRT, TR IMBED OOL, NO FLO, NO VIS POR, NS

LS- BFF LT GY, HRD DNS, VF-XLN, RE-XLN MTRX IP TO TR GRNST TO TR SUB-CHLKY, IMBED DK GY OOL IP, NO FLO, TR INTER-OOL POR, TR RESID STAIN, NO ODOR

LS- TN, HRD, F-XLN, GRNST, TR IMBED OOL, TR BRIT YEL GLD FLO, GD FLUSH TO FR FAST BLU STRM CUT, PR INTER-XLN POR SCAT THRU, DK TN STAIN, SCAT THRU, FAINT ODOR, TR FREE OIL, TR GAS BUBBLS

LS- TN WHT, HRD TO BRITT IP, MD/VF-XLN, GRNST TO TR RE-XLN MTRX, TR SFT WHT CHLK, YEL GLD FLO SCAT THRU, FR FLUSH TO PR BLU STRM CUT, TR VUG POR TO FR INTER-XLN POR IP, SCAT TN STAIN THRU, FAINT ODOR, NSFO

STRAP OUT @3485', 0.7' LONG TO BOARD

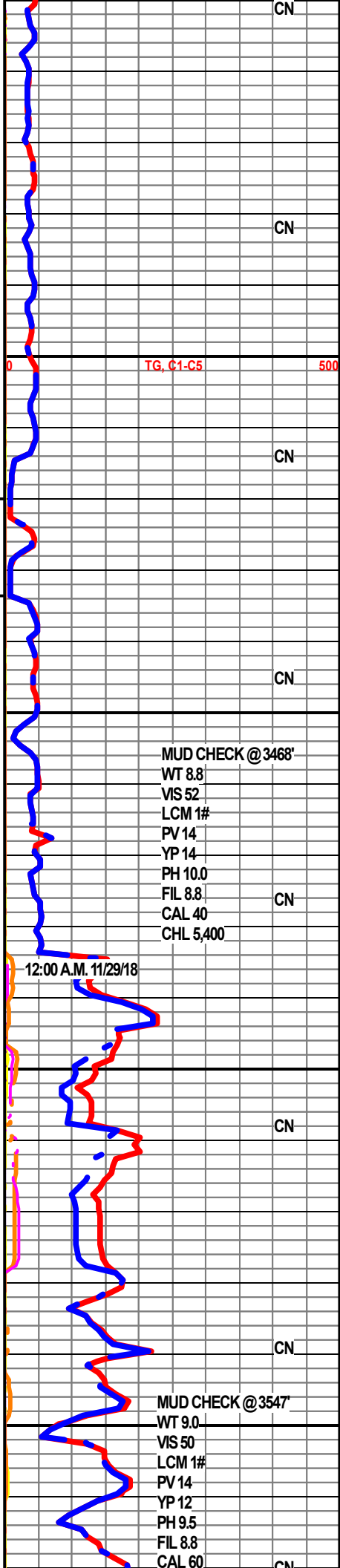
LS- LT TN, HRD DNS, VF-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

LS- OFF WHT, BRITT, F-XLN, SUB-CHLKY MTRX THRU, TR SFT WHT CHLK, TR MD LIME GRNS, TR BRIT YEL GLD FLO, NO VIS CUT, NO VIS POR, NO ODOR

LS- CRM TN, BRITT TO HRD IP, F-XLN, SUB-CHLKY MTRX IP TO SUCRO MTRX IP, SFT WHT CHLK SCAT THRU, NO FLO, TR INTER-XLN POR TO TR OOMLD POR, NS

LS- WHT, BRITT, F/VF-XLN, GRNST TO SUB-CHLKY MTRX IP, SFT WHT CHLK SCAT THRU, OPQ CHRT IP, IMBED OOL IP, NO FLO, TR INTER-XLN POR TO TR INTER-OOL POR, NS

LS- WHT BFF, BRITT TO HRD IP, MD/F-XLN, GRNST IPTO SUB-CHLKY MTRX IP, SFT WHT CHLK IP, TR IMBED OOL, NO FLO, PR OOMLD POR TO TR INTER-XLN POR, NS



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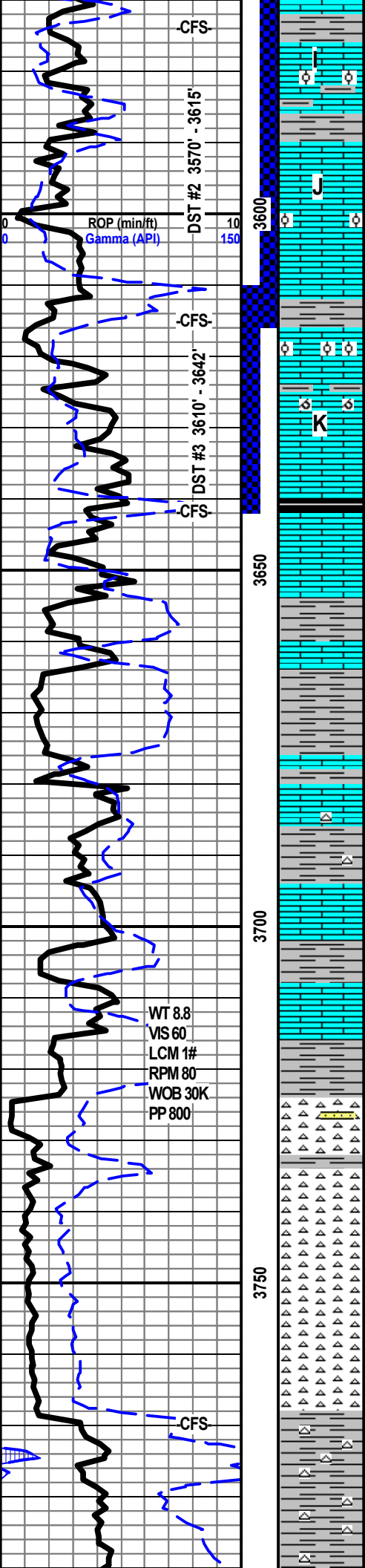
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TG, C1-C5 500



LS- CRM OFF WHT, BRITT TO HRD IP, VF-XLN, GRNST, ABDT OOL THRU, DLL YEL FLO THRU, GD FLUSH TO FAINT BLU STRM CUT, PR/FR INTER-OOL POR THRU, LIVE OIL STAIN SCAT THRU, FAINT ODOR

LS- WHT, BRITT TO HRD IP, VF-XLN, GRNST, ABDT OOL THRU, DLL YEL GLD FLO THRU, GD FLUSH TO FR BLU STRM CUT, FR INTER-OOL POR THRU, LIVE OIL STAIN SCAT THRU, TR TARRY FREE OIL, FAINT ODOR

LS- WHT, BRITT TO HRD IP, F-XLN, GRNST, IMBED OOL IP, YEL GLD FLO IN 90%, GD FLUSH CUT TO GD FAST BLU STRM CUT, FR INTER-XLN POR IP TO PR/FR INTER-OOL POR IP, LIVE OIL STAIN SCAT THRU, GD SHOW FREE OIL, GAS BUBBLS

**BKC 3640' (-1726')**

LS- BFF CRM, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

SH- LT GY, FRM, BLKY, LMY

LS- LT CRM, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

SH- GY, FRM, BLKY, SLTY IP TO LMYIP

LS- CRM, HRD DNS, F/VF-XLN, GRNST IP TO RE-XLN MTRX IP, TR LT RD CHRT, NO FLO, NO VIS CUT, TR INTER-XLN POR TO NO VIS POR THRU, TR BLK STAIN, NO ODOR

LS- LT GY BFF, HRD DNS, VF-XLN, SUCRO MTRX THRU, SLI SNDY THRU, NO FLO, NO VIS POR

LS- TN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

**VIOLA 3724' (-1810')**

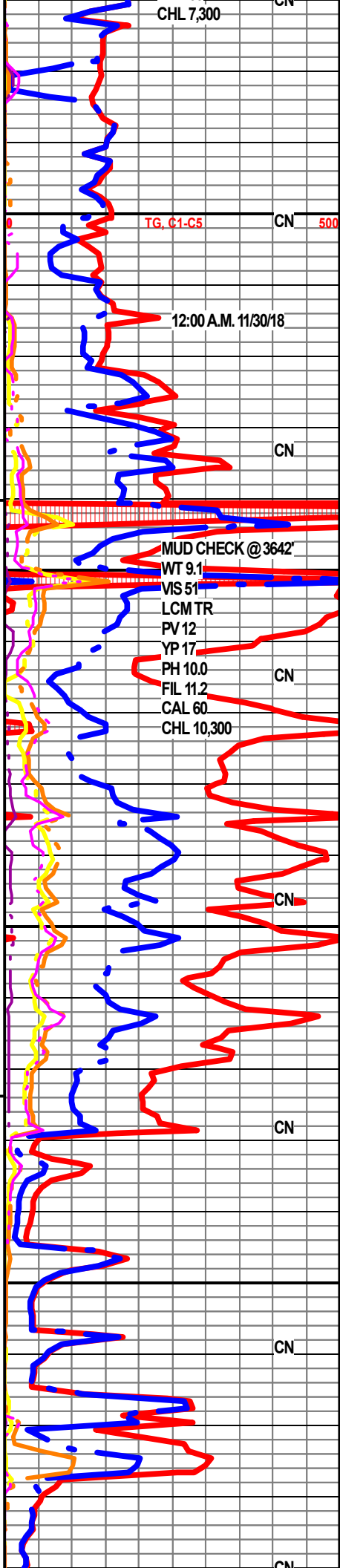
CHRT- WHT OPQ, HRD DNS, DEAD BLK STAIN IP  
SS- BRN, FRI TO TT IP, F/VF-GRN, PR SRT, MUDSTN, TR BRIT YEL GLD FLO, NO FLUSH TO FAINT SLO BLU STRM CUT, PR INTER-GRN POR THRU, TR STAIN, NO ODOR

CHRT- WHT YEL OPQ, HRD DNS, BRIT YEL GLD FLO IN 30%, FAINT FLUSH CUT, TR INTER-XLN POR, TR DEAD BLK STAIN, NO ODOR

CHRT- WHT RDISH OPQ, HRD DNS, NO FLO, NO VIS CUT, TR INTER-XLN POR, DEAD STAIN IP

SH- GRN GY PRPLE RD, FRM, BLKY, WXY TEXT, ABDT CHRT THRU

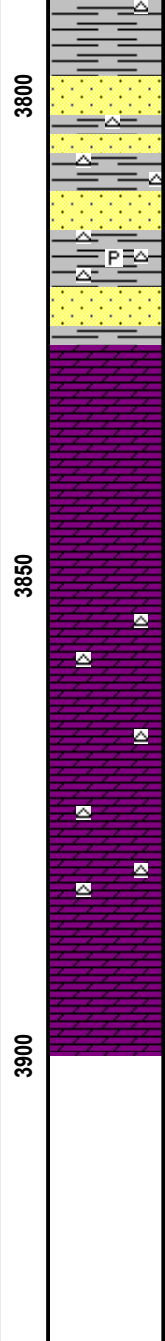
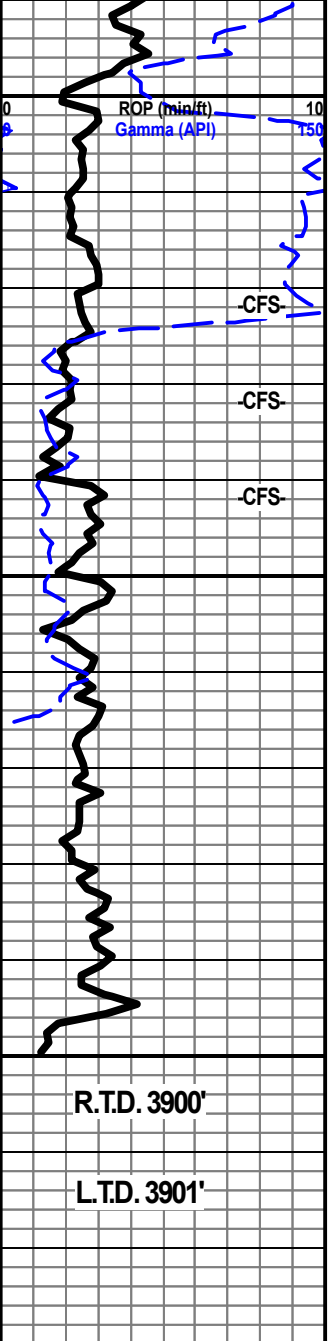
SH- GRN RD FRM TO SET IP TR GMMYTOI MYTHRU ABDT



ROP (min/ft)  
Gamma (API)

WT 8.8  
VIS 60  
LCM 1#  
RPM 80  
WOB 30K  
PP 800

MUD CHECK @ 3642'  
WT 9.1  
VIS 51  
LCM TR  
PV 12  
YP 17  
PH 10.0  
FIL 11.2  
CAL 60  
CHL 10,300



CHRT THRU

SS- TN CLR, FRI TO TT IP, FVF-GRN, PR SRT, SUB-ANG TO SUB-RND GRNS, SILI CMNT, BRIT YEL GLD FLO IN 70%, FR FLUSH TO FR BLU STRM CUT, FR INTER-GRN POR THRU, STAIN THRU, FREE OIL, FAINT ODOR

SS- TN FRSTY, FRI TO TT IP, MD/VF-GRN, SUB-RND TO SUB-ANG GRNS, SILI, TR ARG, DLL YEL GLD FLO THRU, FR FLUSH TO PR SLO BLU STRM CUT, FR INTER-GRN POR THRU, STAIN THRU, FAINT ODOR, FREE OIL

**ARBUCKLE 3825' (-1911')**

DOLO- CRM, HRD TO BRIT IP, F-XLN, SUCRO MTRX THRU, TR VUGS, DLL YEL FLO THRU, NO VIS CUT, PR/FR INTER-XLN POR THRU TO TR VUG POR, BARREN, NS

DOLO- CRM PINK, HRD DNS, MD/F-XLN, SUCRO MTRX THRU, DLL YEL FLO THRU, NO VIS CUT, FR INTER-XLN POR THRU, NS

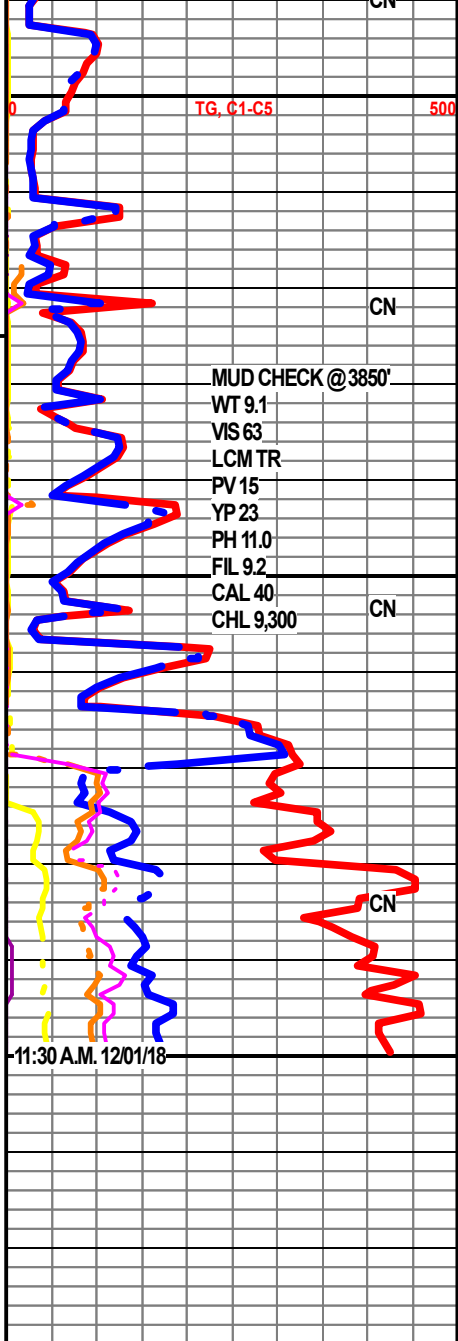
DOLO- CRM LT PINK, HRD DNS, MD/VF-XLN, SUCRO MTRX THRU, DLL YEL GLD FLO THRU, NO VIS CUT, FR INTER-XLN POR THRU, TR FREE OIL, FAINT ODOR

DOLO- LT CRM, HRD, F-XLN, SUCRO MTRX THRU, NO FLO, TR SFT WHT CHLK, TR WHT CHRT, NO FLO, FR INTER-XLN POR, NS

DOLO- BFF LT CRM, HRD DNS, FVF-XLN, SUCRO MTRX THRU, WHT CHRT IP, NO FLO, PR/FR INTER-XLN POR THRU, NS

DOLO- CRM, HRD DNS, MD/F-XLN, SUCRO MTRX THRU, NO FLO, NO VIS CUT, FR INTER-XLN POR THRU, NS

FINISH E-LOGS 9:30 P.M. 12/01/18



R.T.D. 3900'

L.T.D. 3901'

MUD CHECK @ 3850'

WT 9.1

VIS 63

LCM TR

PV 15

YP 23

PH 11.0

FIL 9.2

CAL 40

CHL 9,300

-11:30 A.M. 12/01/18

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

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

No. 1072

Date	11-24-18	Sec.	8	Twp.	22	Range	13	County	Stafford	State	Ks	On Location		Finish	2:00
								Location	Sewer 12 1/2 in Einto						

Lease	1/2a Rutti	Well No.	1-8	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	D. Sigmon #2			Charge To	JBL RESOURCES										
Type Job	Surface			Street											
Hole Size	12 1/4	T.D.	306	City	State										
Csg.	8 5/8	Depth	305	The above was done to satisfaction and supervision of owner agent or contractor.											
Tbg. Size		Depth		Cement Amount Ordered 450 #/20 3/4 2/4 6oz											
Tool		Depth		Meas Line Displace 18 BCL 1/2 # 5/10											
Cement Left in Csg.	15'	Shoe Joint													

**EQUIPMENT**

Pumptrk	20	No.	Cementer	360	Common	360									
			Helper	90	Poz. Mix	90									
Bulktrk		No.	Driver	9	Gel.	9									
			Driver	15	Calcium	15									
Bulktrk	19	No.	Driver												
			Driver												

**JOB SERVICES & REMARKS**

Remarks:	Hulls										
Rat Hole	Salt										
Mouse Hole	Flowseal 225#										
Centralizers	Kol-Seal										
Baskets	Mud CLR 48										
D/V or Port Collar	CFL-117 or CD110 CAF 38										
	Sand										
	Handling 484										
	Mileage										

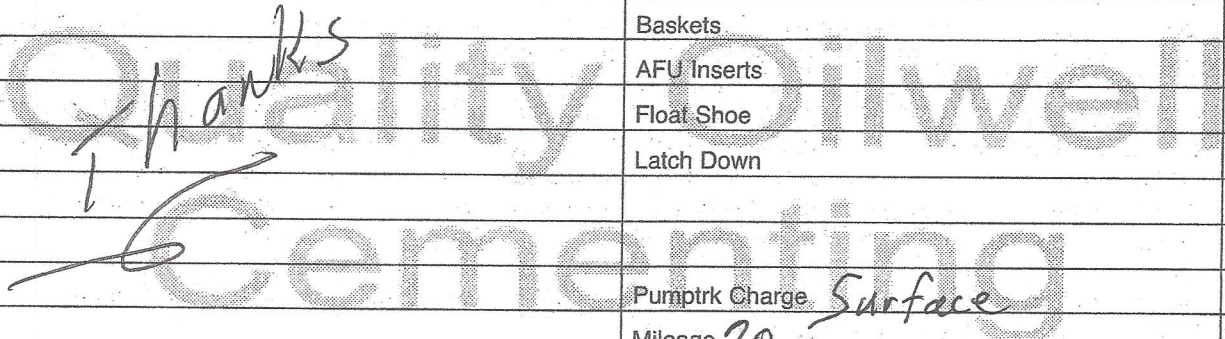
**FLOAT EQUIPMENT**

	Guide Shoe										
	Centralizer										
	Baskets										
	AFU Inserts										
	Float Shoe										
	Latch Down										

Pumptrk Charge Surface  
Mileage 20

X Signature *[Handwritten Signature]*

Tax  
Discount  
Total Charge



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

Cell 785-324-1041

No. 1152

Date	12-2-15	Sec.	8	Twp.	22	Range	13	County	Stafford	State	Ks	On Location		Finish	9:45 AM
------	---------	------	---	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	---------

Lease Lyda Ruth Location 281 + K 19 - 2W, 15, 1/4 E, N 1/2

Well No.	1-5	Owner	To: Quality Oilwell Cementing, Inc.
Contractor	D. [unclear]	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	Logstring	Charge To	JEL Resources
----------	-----------	-----------	---------------

Hole Size	7 7/8"	T.D.	3900'	Street	
-----------	--------	------	-------	--------	--

Csg.	5 1/2 New 15.50'	Depth	3596' 29"	City		State	
------	------------------	-------	-----------	------	--	-------	--

Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
-----------	--	-------	--	--	--	--

Tool		Depth		Cement Amount Ordered	175 @ 100 C
------	--	-------	--	-----------------------	-------------

Cement Left in Csg.	20.55'	Shoe Joint	20.58'	Cement 5 w gal mud (Clear 4)	
---------------------	--------	------------	--------	------------------------------	--

Meas Line		Displace	92 1/4 Bls	Common	
-----------	--	----------	------------	--------	--

**EQUIPMENT**

Pumptrk	20	No.	Cementor	
			Helper	
Bulktrk	15	No.	Driver	Jack
			Driver	
Bulktrk	20	No.	Driver	Rick
			Driver	

Poz. Mix	
Gel.	
Calcium	

**JOB SERVICES & REMARKS**

Remarks:  
 Rat Hole 1 30 SX  
 Mouse Hole 20 SX  
 Centralizers 1, 3, 5, 7, 9, 11, 13, 15  
 Baskets 6  
 DV or Port Collar pipe on bottom break  
 Circulation pump 5 w gal mud (Clear 4)  
 45' plug bath + Marshall Hub  
 to 50' casing + mix 12.55' cement  
 Shut down work pump + 10 cc  
 Displace plug w/ 92 1/4 Bls 1120  
 Released + hold.  
 Lift pressure 800 #  
 Load plug to 1500 #

Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	
Mileage	

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	8
Baskets	1
AFU Inserts	
Float Shoe	1
Latch Down	1

Pumptrk Charge	
Mileage	

Signature [Signature] [Signature]

Tax	
Discount	
Total Charge	



**Company: JEL Resources, LLC**  
**Lease: Lyda Rutti #1-8**

SEC: 8 TWN: 22W RNG: 13S  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc. - Rig 2  
 Elevation: 1911 EGL  
 Field Name: N/A  
 Pool: WILDCAT  
 Job Number: 290

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**28**  
 2018

**DST #1    Formation: LKC C-D    Test Interval: 3454 - 3485'    Total Depth: 3485'**

Time On: 19:22 11/28    Time Off: 02:45 11/29  
 Time On Bottom: 21:33 11/28    Time Off Bottom: 00:48 11/29

Electronic Volume  
 Estimate:  
 484'

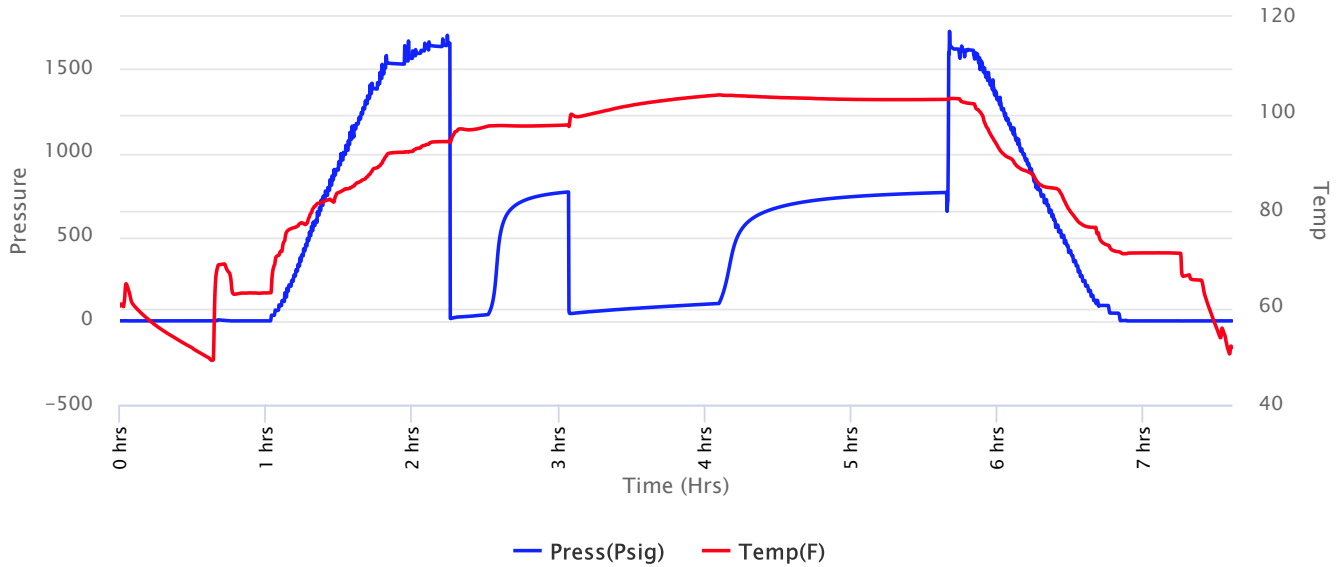
1st Open  
 Minutes: 15  
 Current Reading:  
 10.1" at 15 min  
 Max Reading: 10.1"

1st Close  
 Minutes: 30  
 Current Reading:  
 .1" at 30 min  
 Max Reading: .1"

2nd Open  
 Minutes: 60  
 Current Reading:  
 32.7" at 60 min  
 Max Reading: 32.7"

2nd Close  
 Minutes: 90  
 Current Reading:  
 1.3" at 90 min  
 Max Reading: 1.3"

Inside Recorder







**Company: JEL Resources, LLC**  
**Lease: Lyda Rutti #1-8**

SEC: 8 TWN: 22W RNG: 13S  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc. - Rig 2  
 Elevation: 1911 EGL  
 Field Name: N/A  
 Pool: WILDCAT  
 Job Number: 290

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**28**  
 2018

**DST #1 Formation: LKC C-D Test Interval: 3454 - 3485' Total Depth: 3485'**

Time On: 19:22 11/28 Time Off: 02:45 11/29  
 Time On Bottom: 21:33 11/28 Time Off Bottom: 00:48 11/29

Recovered

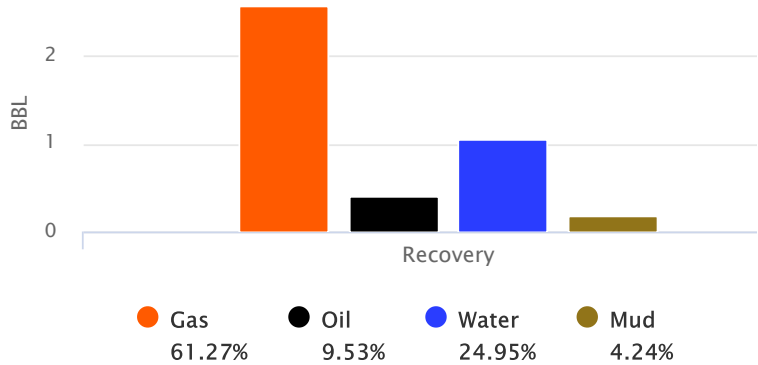
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
285	2.5709019	G	100	0	0	0
30	0.2226	SLMCWCO	0	60	23	17
63	0.46746	MCWCO	0	55	25	20
126	0.93492	SLOCMLCW	0	1	94	5

Total Recovered: 504 ft  
 Total Barrels Recovered: 4.1958819

Reversed Out  
 NO

Initial Hydrostatic Pressure	1634	PSI
Initial Flow	15 to 37	PSI
<b>Initial Closed in Pressure</b>	<b>768</b>	<b>PSI</b>
Final Flow Pressure	44 to 103	PSI
<b>Final Closed in Pressure</b>	<b>765</b>	<b>PSI</b>
Final Hydrostatic Pressure	1628	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	0.4	%

**Recovery at a glance**





**Company: JEL Resources, LLC**  
**Lease: Lyda Rutti #1-8**

SEC: 8 TWN: 22W RNG: 13S  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 1911 EGL  
Field Name: N/A  
Pool: WILDCAT  
Job Number: 290

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**28**  
2018

**DST #1      Formation: LKC C-D      Test Interval: 3454 -      Total Depth: 3485'**  
**3485'**  
Time On: 19:22 11/28      Time Off: 02:45 11/29  
Time On Bottom: 21:33 11/28      Time Off Bottom: 00:48 11/29

**BUCKET MEASUREMENT:**

*Diesel in Bucket*

1st Open: 1" blow - built to 11.5 in 15 mins

1st Close: Wsbb

2nd Open: 1" blow - built to be in 14 mins.

2nd Close: 1.5" bb

**REMARKS:**

Tool Sample: 0% Gas 95% Oil 5% Water 0% Mud

Ph: 8

Measured RW: .4 @ 31 degrees °F

RW at Formation Temp: 0.136 @ 104 °F



**Company: JEL Resources, LLC**  
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SEC: 8 TWN: 22W RNG: 13S  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc. - Rig 2  
 Elevation: 1911 EGL  
 Field Name: N/A  
 Pool: WILDCAT  
 Job Number: 290

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**28**  
 2018

**DST #1      Formation: LKC C-D      Test Interval: 3454 - 3485'      Total Depth: 3485'**  
 Time On: 19:22 11/28      Time Off: 02:45 11/29  
 Time On Bottom: 21:33 11/28      Time Off Bottom: 00:48 11/29

**Down Hole Makeup**

<b>Heads Up:</b> 18.68 FT	<b>Packer 1:</b> 3449 FT
<b>Drill Pipe:</b> 3222.1 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3454 FT
<b>Weight Pipe:</b> 218.01 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3438.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3456 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 31	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 0 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 30 FT <i>4 1/2-FH</i>	



**Company: JEL Resources, LLC**  
**Lease: Lyda Rutti #1-8**

SEC: 8 TWN: 22W RNG: 13S  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 1911 EGL  
Field Name: N/A  
Pool: WILDCAT  
Job Number: 290

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**28**  
2018

**DST #1**      **Formation: LKC C-D**      **Test Interval: 3454 - 3485'**      **Total Depth: 3485'**

Time On: 19:22 11/28      Time Off: 02:45 11/29  
Time On Bottom: 21:33 11/28      Time Off Bottom: 00:48 11/29

**Mud Properties**

**Mud Type:** Chem      **Weight:** 8.8      **Viscosity:** 52      **Filtrate:** 8.8      **Chlorides:** 5400 ppm



**Company: JEL Resources, LLC**  
**Lease: Lyda Rutti #1-8**

SEC: 8 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc. - Rig 2  
 Elevation: 1911 EGL  
 Field Name: N/A  
 Pool: WILDCAT  
 Job Number: 290

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**30**  
 2018

**DST #3**      **Formation: LKC K**      **Test Interval: 3610 - 3642'**      **Total Depth: 3642'**  
 Time On: 08:09 11/30      Time Off: 15:04 11/30  
 Time On Bottom: 09:50 11/30      Time Off Bottom: 12:50 11/30

Electronic Volume  
 Estimate:  
 1620'

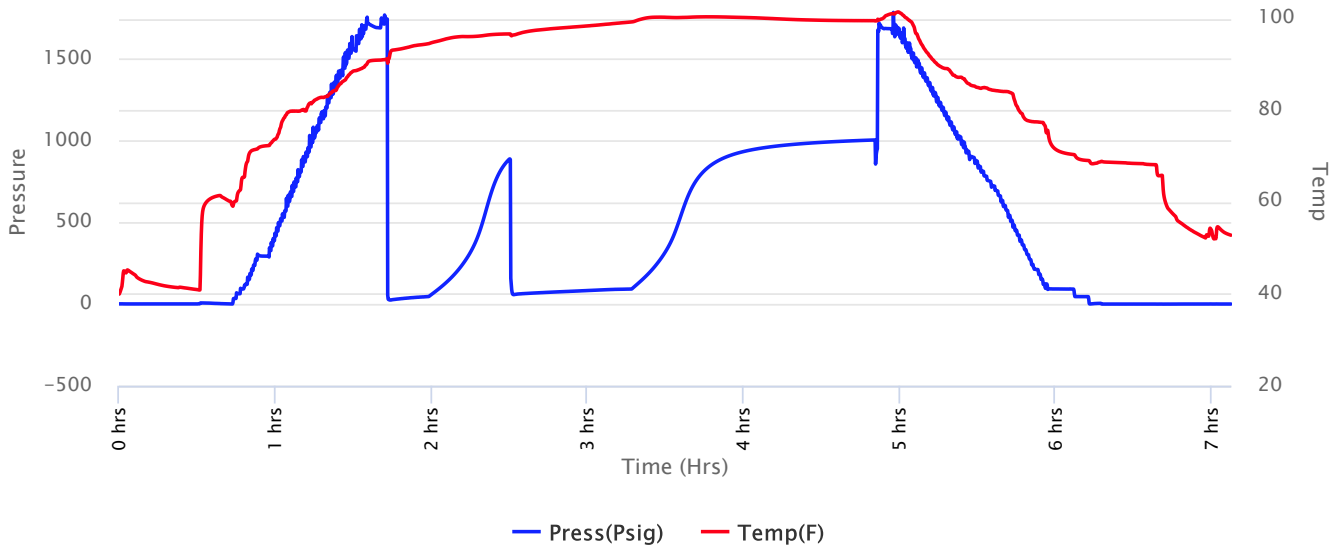
1st Open  
 Minutes: 15  
 Current Reading:  
 35" at 15 min  
 Max Reading: 35"

1st Close  
 Minutes: 30  
 Current Reading:  
 2.8" at 30 min  
 Max Reading: 2.8"

2nd Open  
 Minutes: 45  
 Current Reading:  
 133.1" at 45 min  
 Max Reading: 133.1"

2nd Close  
 Minutes: 90  
 Current Reading:  
 12.2" at 90 min  
 Max Reading: 12.2"

Inside Recorder





**Company: JEL Resources, LLC**  
**Lease: Lyda Rutti #1-8**

SEC: 8 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc. - Rig 2  
 Elevation: 1911 EGL  
 Field Name: N/A  
 Pool: WILDCAT  
 Job Number: 290

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**30**  
 2018

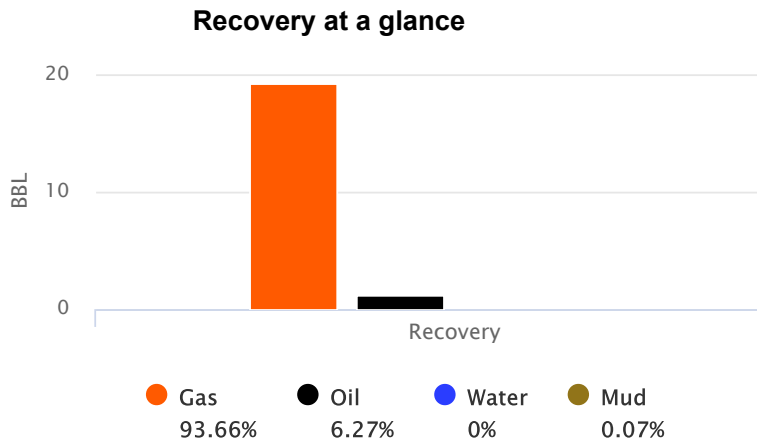
**DST #3**      **Formation: LKC K**      **Test Interval: 3610 - 3642'**      **Total Depth: 3642'**  
 Time On: 08:09 11/30      Time Off: 15:04 11/30  
 Time On Bottom: 09:50 11/30      Time Off Bottom: 12:50 11/30

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
1444	19.0634719	G	100	0	0	0
131	0.97202	O	0	100	0	0
63	0.46746	SLMCHGCO	30	67	0	3

Total Recovered: 1638 ft  
 Total Barrels Recovered: 20.5029519

Reversed Out  
 NO

Initial Hydrostatic Pressure	1689	PSI
Initial Flow	27 to 45	PSI
<b>Initial Closed in Pressure</b>	<b>887</b>	<b>PSI</b>
Final Flow Pressure	58 to 92	PSI
<b>Final Closed in Pressure</b>	<b>1003</b>	<b>PSI</b>
Final Hydrostatic Pressure	1684	PSI
Temperature	101	°F
Pressure Change Initial Close / Final Close	0.0	%





**Company: JEL Resources, LLC**  
**Lease: Lyda Rutti #1-8**

SEC: 8 TWN: 22S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Discovery Drilling  
Company, Inc. - Rig 2  
Elevation: 1911 EGL  
Field Name: N/A  
Pool: WILDCAT  
Job Number: 290

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
November  
**30**  
2018

**DST #3**      **Formation: LKC K**      **Test Interval: 3610 - 3642'**      **Total Depth: 3642'**  
Time On: 08:09 11/30      Time Off: 15:04 11/30  
Time On Bottom: 09:50 11/30      Time Off Bottom: 12:50 11/30

**BUCKET MEASUREMENT:**

*Diesel in Bucket*

1st Open: 1 1/2" blow - built to bb in 4 1/2 mins

1st Close: 3" blow back

2nd Open: Bb instant

2nd Close: Bbbb in 43 mins

**REMARKS:**

Oil carried gas during sample. Gas broke out before grind out.

Tool Sample: 0% Gas 70% Oil 0% Water 30% Mud

Gravity: 20.2 @ 60 °F



**Company: JEL Resources, LLC**  
**Lease: Lyda Rutti #1-8**

SEC: 8 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Discovery Drilling  
 Company, Inc. - Rig 2  
 Elevation: 1911 EGL  
 Field Name: N/A  
 Pool: WILDCAT  
 Job Number: 290

**Operation:**  
 Uploading recovery &  
 pressures

**DATE**  
 November  
**30**  
 2018

**DST #3**      **Formation: LKC K**      **Test Interval: 3610 - 3642'**      **Total Depth: 3642'**  
 Time On: 08:09 11/30      Time Off: 15:04 11/30  
 Time On Bottom: 09:50 11/30      Time Off Bottom: 12:50 11/30

**Down Hole Makeup**

<b>Heads Up:</b> 19.78 FT	<b>Packer 1:</b> 3605 FT
<b>Drill Pipe:</b> 3379.2 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3610 FT
<b>Weight Pipe:</b> 218.01 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3594.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3612 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 32	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3 1/2</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 31 FT <i>4 1/2-FH</i>	





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Company, Inc. - Rig 2  
Elevation: 1911 EGL  
Field Name: N/A  
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Job Number: 290

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**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.0      **Viscosity:** 50      **Filtrate:** 8.8      **Chlorides:** 7300 ppm



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**29**  
 2018

**DST #2**      **Formation: LKC I-J**      **Test Interval: 3570 - 3615'**      **Total Depth: 3615'**  
 Time On: 18:21 11/29      Time Off: 01:34 11/30  
 Time On Bottom: 20:20 11/29      Time Off Bottom: 23:35 11/29

Electronic Volume  
 Estimate:  
 673'

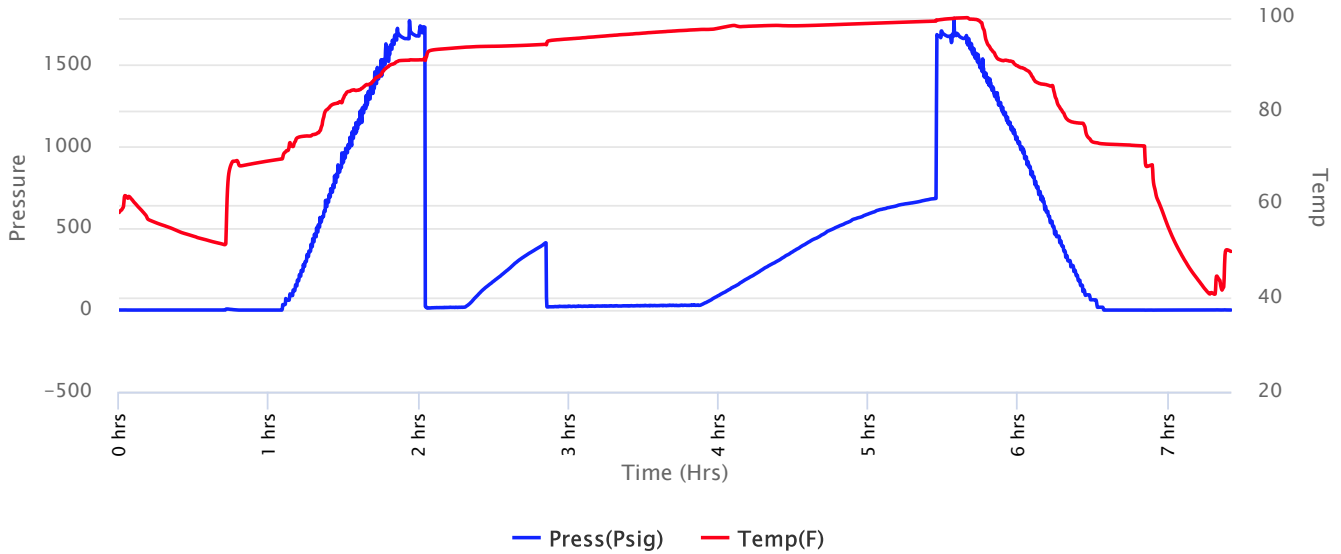
1st Open  
 Minutes: 15  
 Current Reading:  
 13.7" at 15 min  
 Max Reading: 13.7"

1st Close  
 Minutes: 30  
 Current Reading:  
 .1" at 30 min  
 Max Reading: .1"

2nd Open  
 Minutes: 60  
 Current Reading:  
 50.4" at 60 min  
 Max Reading: 50.4"

2nd Close  
 Minutes: 90  
 Current Reading:  
 0" at 90 min  
 Max Reading: 0"

Inside Recorder





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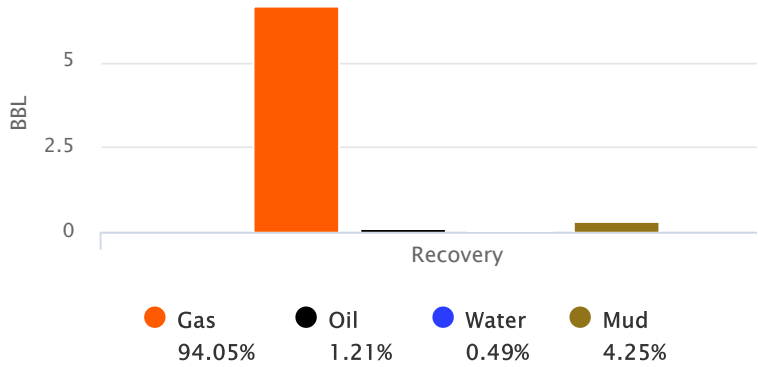
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
572	6.6549119	G	100	0	0	0
58	0.43036	SLGCSLWCOCM	2	20	8	70

Total Recovered: 630 ft  
 Total Barrels Recovered: 7.0852719

Reversed Out  
 NO

Initial Hydrostatic Pressure	1677	PSI
Initial Flow	12 to 17	PSI
<b>Initial Closed in Pressure</b>	<b>412</b>	<b>PSI</b>
Final Flow Pressure	19 to 30	PSI
<b>Final Closed in Pressure</b>	<b>683</b>	<b>PSI</b>
Final Hydrostatic Pressure	1677	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**





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**3615'**  
Time On: 18:21 11/29      Time Off: 01:34 11/30  
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**BUCKET MEASUREMENT:**

1st Open: 1" blow - bb in 11 1/4 mins  
1st Close: Wsbb  
2nd Open: Bb instant  
2nd Close: NoBB

**REMARKS:**

Tool Sample: 10% Gas 35% Oil 2% Water 53% Mud



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**Down Hole Makeup**

<b>Heads Up:</b> 27.52 FT	<b>Packer 1:</b> 3565.24 FT
<b>Drill Pipe:</b> 3347.18 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3570.24 FT
<b>Weight Pipe:</b> 218.01 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3554.66 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3572 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 44.76	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 8 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 31.26 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 3 FT <i>4 1/2-FH</i>	



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