

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

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

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

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

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

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

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

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

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

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

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

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

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

**Drilling Fluid Management Plan**

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

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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PRESSURE PUMPING LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

TICKET NUMBER 54311

LOCATION #180

FOREMAN Austin

### FIELD TICKET & TREATMENT REPORT CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-8-18		T. Wiebe 31-5	31	23	5	Butler
CUSTOMER <u>EnturaSCO Energy</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			816	Austin		
CITY			103	JAROB		
STATE			510	JAMES		
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 216 CASING SIZE & WEIGHT 2 5/8  
 CASING DEPTH 208 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 12.25 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: (Safety) injection hooked up to 2 5/8 surface pipe then pumped 10 bbl water then 135 sks cement then displaced 12.25 bbl water sheet in table

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	1500.00
CE0002	20	MILEAGE	7.15	143.00
CE0211	1	new bulk delivery	110.00	110.00
CC5891	135	Surface Blend II	23.00	3105.00
CC6075	75	Poly Flare	2.00	150.00
				5358.00
				1945.30
			SALES TAX	
			ESTIMATED TOTAL	3612.70

AUTHORIZATION \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



PRESSURE PUMPING LLC

PO Box 884, Chanute, KS 66720  
620-431-9210 or 800-467-8676

TICKET NUMBER 54309

LOCATION F1 Dorado, Ks

FOREMAN Brad Butler / Jacob Storm

**FIELD TICKET & TREATMENT REPORT  
CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
11-12-18	5033	T. Wiebe #31-5	31	23s	5E	Butler
CUSTOMER <u>ENTRANSO Energy LLC</u>			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS <u>P.O. Box 578</u>			<u>760</u>	<u>Jud</u>		<u>Fuzzy</u>
CITY <u>Dewey</u>	STATE <u>OK</u>	ZIP CODE <u>74029</u>	<u>775</u>	<u>Coy</u>		<u>Jacob</u>
			<u>702</u>	<u>Brad</u>		<u>James</u>
				<u>Chance</u>		<u>Austin</u>

JOB TYPE Longstring HOLE SIZE 7 7/8" HOLE DEPTH 2620 K.B. CASING SIZE & WEIGHT 5 1/2" - 15.5lb.  
 CASING DEPTH 2608' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER 7' Landing Joint  
 SLURRY WEIGHT 14.4lb. SLURRY VOL 60 Bbls WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 0'  
 DISPLACEMENT 62 Bbls DISPLACEMENT PSI 850 MIX PSI \_\_\_\_\_ RATE 5.78 bpm

REMARKS: Safety Meeting: Rig up to 5 1/2" casing, pumped 5 Bbls water ahead, 5 Bbl Calcium Chloride water, 10 Bbl Sodium Metasilicate water, 5 Bbl water spaces, Mixed 220 SKS Regular cement w/ 4% gel, 2% GCL, 5lb. per SK of KOL-SEAL and 1/2 lb per SK of Pheno SEAL @ 14.4 lb per gal. Shutdown - washout dump lines Release Plug, displace Plug with 62 Bbls water. Circal pumping @ 850 psi - Land Plug with 1350 psi Wait a few minutes - Release Pressure, Float Hold - close casing w/ 0 psi during Job procedure we had good circulation. Job complete - Teardown

Note: Plug R.H. with 10 SKS cement "THANK you"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE 0451	1	PUMP CHARGE	1900.00	1900.00
CE 0002	20	MILEAGE	7.15	143.00
CE 0711	M/C	Bulk Truck charge	660.00	660.00
CE 1200	1	5 1/2" Plug container	350.00	350.00
CC 5800A	220 SACKS	Regular - class A cement	20.00	4400.00
CC 5325	400 lbs	Calcium Chloride 2%	1.25	500.00
CC 5965	850 lbs	GCL 4%	.30	255.00
CC 6077	1100 lbs	KOL-SEAL 5lb. per SK	.50	550.00
CC 6079	120 lbs	Pheno SEAL 1/2 lb per SK	1.35	162.00
CC 5970	100 lbs	Sodium Metasilicate -> Flush Ahead	2.55	255.00
CC 5325	50 lbs	Calcium Chloride	1.25	62.50
CP 8179	1	5 1/2" Top Rubber Plug	125.00	125.00
				9362.50
		Discount		-3276.87
		Sub TOTAL		6085.63
		SALES TAX		
		ESTIMATED TOTAL		

Ravin 3737 AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form

# GEOLOGICAL REPORT

Entranco Energy, LLC  
T. Wiebe #31-5

N/2 NW NE Section 31-T23S-R5E

Butler County, Kansas

COMMENCED: 11-08-18  
COMPLETED: 11-12-18  
CONTRACTOR: C & G Drilling Co.  
SIZE OF HOLE: 7 7/8"  
SURFACE PIPE: 8 5/8"  
CEMENTED WITH: N/A  
LONG STRING: 5 1/2"  
CEMENTED WITH: N/A  
R.T.D.: 2620'

STATUS: Oil  
A.P.I. #: 15-015-24111  
OPERATOR LIC.: 35018  
FIELD: Hazlett  
ELEVATION: 1463 K.B.  
LOGS: CNT LDT MLT PIT  
MUD SYSTEM: Chemical  
OTHER:  
William M. Stout  
Geologist

## FORMATION TOPS

1457 G.L. 1463 K.B.

	Sample	Log
Kansas City	2076-613	2075-612
Base Kansas City	2212-749	2211-748
Altamont	2338-875	2336-873
Cherokee	2422-974	2419-971
Conglomerate Sand	2437-974	2433-970
Mississippi Chert	2472-1009	2472-1009
Mississippi Lime	2567-1104	2565-1102
Total Depth	2620-1157	2618-1155

## SAMPLE DESCRIPTIONS

**Conglomerate 2437 (-974)**  
2437' - 2446'  
Sandstone - light brown, clear, fine to coarse, some friable, fair odor, light brown, show free oil, scattered porosity, good fluorescence.

**Mississippi 2472' (-1009)**  
2472' - 2500'  
Chert - white, light brown, opaque to translucent, mostly weathered, fair to good odor, light stain, show free oil with gas bubbles, pin point and vugular porosity with fluorescence 70%. Covered by DST #1.

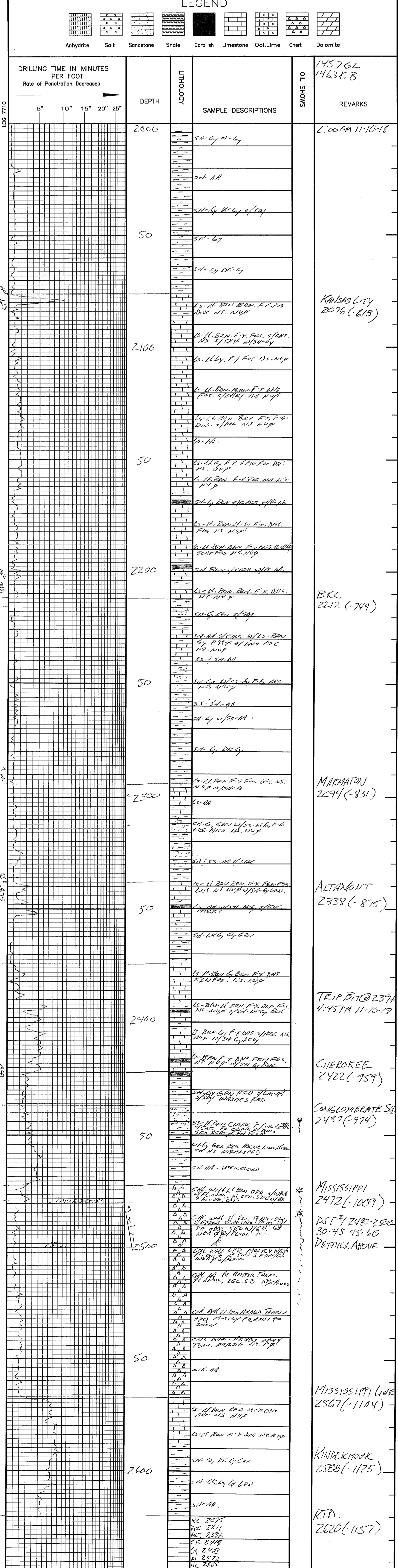
**DST #1 2480' - 2500'**  
Open tool 30 min. had 3/4 inch blow building to bottom of bucket in 7 Close tool 45 min. had 3/4 inch blow back. Open tool 45 min. had 1 1/4 inch blow building to bottom of bucket in 10 min. Close tool 60 min. had 2 1/4 inch blow back. Recovered 592' TF, 118" GIP, 58" CO gravity 39 degree, 48' SLWCHMCO (50% O, 15% W, 35% M), 96' SLGCSLWCOCM (5% G, 20% O, 15% W, 60% M), 96' SLOCHMCW (5% O, 50% W, 45% M), 176' SLGCMCW (5% G, 75% W, 20% M).  
IFP: 20 - 127# FFP: 130 - 212#  
ISIP: 728# FSP: 730#  
HP: 1197 - 1197#  
Temp. 96 degrees Chlorides 23,000 ppm

**2500' - 2520'**  
Chert - white, some amber, translucent to opaque, faint odor, mostly weathered, light stain, slight show free oil, few gas bubbles, scattered vugular and pin point porosity with fluorescence 20%.

**2520' - 2567'**  
Chert - white, light brown, amber, translucent to opaque, fresh, no show, poor porosity.

## CONCLUSIONS

Because of the good sample shows and positive drill stem test the decision was made to set and cement casing to further evaluate the Mississippian.





# Company: Entranco Energy, LLC

## Lease: T. Wiebe #31-5

SEC: 31 TWN: 23S RNG: 5E  
County: BUTLER  
State: Kansas  
Drilling Contractor: C & G Drilling  
Company - Rig 1  
Elevation: 1457 EGL  
Field Name: Hazlett  
Pool: Infield  
Job Number: 254

**Operation:**  
Uploading recovery & pressures

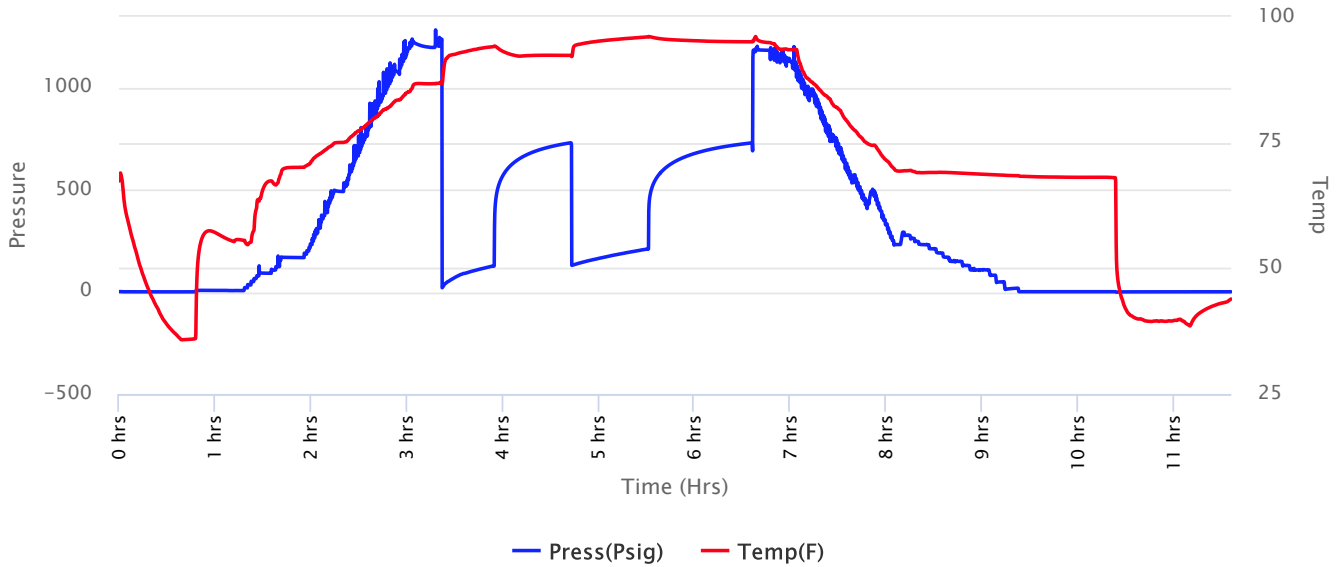
**DATE**  
November  
**11**  
2018

**DST #1**      **Formation: Miss**      **Test Interval: 2480 - 2500'**      **Total Depth: 2500'**  
Time On: 05:16 11/11      Time Off: 16:33 11/11  
Time On Bottom: 08:34 11/11      Time Off Bottom: 11:34 11/11

Electronic Volume Estimate:  
558'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 37.5" at 30 min	Current Reading: .6" at 45 min	Current Reading: 38.5" at 45 min	Current Reading: 2.2" at 60 min
Max Reading: 37.5"	Max Reading: .8"	Max Reading: 38.5"	Max Reading: 2.3"

Inside Recorder





**Company: Entransco Energy, LLC**

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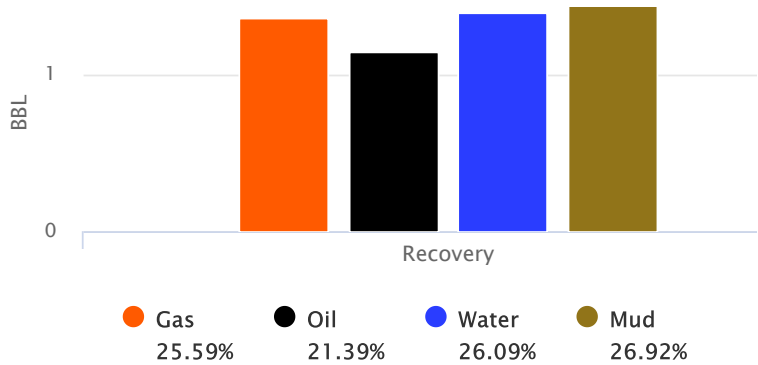
Recovered			Gas %	Oil %	Water %	Mud %
Foot	BBLs	Description of Fluid				
118	1.27912	G	100	0	0	0
58	0.62872	O	0	100	0	0
48	0.52032	SLWCHMCO	0	50	15	35
96	1.04064	SLGCSLWCOCM	5	20	15	60
96	1.0354304	SLOCHMCW	0	5	50	45
176	0.86592	SLGCMCW	5	0	75	20

Total Recovered: 592 ft  
 Total Barrels Recovered: 5.3701504

**Reversed Out**  
 NO

Initial Hydrostatic Pressure      1197      PSI  
 Initial Flow      20 to 127      PSI  
**Initial Closed in Pressure**      **728**      **PSI**  
 Final Flow Pressure      130 to 212      PSI  
**Final Closed in Pressure**      **730**      **PSI**  
 Final Hydrostatic Pressure      1197      PSI  
 Temperature      96      °F  
  
 Pressure Change Initial      0.0      %  
 Close / Final Close

**Recovery at a glance**







**Company: Entransco Energy,  
LLC**

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**BUCKET MEASUREMENT:**

*Diesel in Bucket*

1st Open: 3/4" Blow. BOB in 7 mins

1st Close: 3/4" Blow Back

2nd Open: 1 1/4". BOB in 10 mins

2nd Close: 2 1/4" Blow Back

**REMARKS:**

Tool Sample: 0% Gas 100% Oil 0% Water 0% Mud

Gravity: 40.5 @ 60 °F

Ph: 7

Measured RW: .49 @ 39 degrees °F

RW at Formation Temp: 0.218 @ 96 °F

Chlorides: 23,000 ppm



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### Down Hole Makeup

<b>Heads Up:</b> 31.15 FT	<b>Packer 1:</b> 2475 FT
<b>Drill Pipe:</b> 2301.7 FT <i>ID-3</i>	<b>Packer 2:</b> 2480 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 2464.42 FT
<b>Collars:</b> 176.88 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 2482 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> 20	<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</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 19 FT <i>4 1/2-FH</i>	



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**Mud Properties**

**Mud Type:** Chem      **Weight:** 9.3      **Viscosity:** 52      **Filtrate:** 10.4      **Chlorides:** 1400 ppm



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### Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
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Time	Orifice	PSI	MCF/D
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