

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 Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No.: \_\_\_\_\_

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

**Drilling Fluid Management Plan**

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

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

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

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

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

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

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

TUBING RECORD:	Size:	Set At:	Packer At:	
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PRESSURE PUMPING LLC  
 PO Box 884, Chanute, KS 66720  
 620-431-9210 or 800-467-8676

TICKET NUMBER 54257  
 LOCATION El Dorado Ks  
 FOREMAN Brad Butler

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-25-18	5033	T. Wiebe # 31-2	31	23s	5E	Butler
CUSTOMER ENTRANSCO Energy, LLC			TRUCK #			
MAILING ADDRESS			DRIVER		TRUCK #	
CITY			DRIVER		TRUCK #	
STATE			DRIVER		TRUCK #	
ZIP CODE			DRIVER		TRUCK #	

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 216" CASING SIZE & WEIGHT 8 5/8"  
 CASING DEPTH 211" DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER 9' Landing Joint  
 SLURRY WEIGHT \_\_\_\_\_ SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING \_\_\_\_\_  
 DISPLACEMENT 12.95 Bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 8 5/8" casing break circulation with 5 Bbls water.  
Mixed 135 sks Regular cement w/ 22 gal 3% CaCl2, 15 lb P4/sk of Poly-Flake, 5 lb P4/sk of Pheno SEAL  
Displaced cement with 12 3/4 Bbls water. Shut down - closed casing in with good cement returns.  
Job complete - Tear down  
"Thank you"

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
CE 0711	M/C	Bulk Truck charge	660.00	660.00
CC5800A	135 SACKS	Regular - class A cement	20.00	2700.00
CC5325	380 lbs	GAKium Chloride 3%	1.25	475.00
CC5965	250 lbs	Gel 2%	.30	75.00
CC6075	70 lbs	Poly-Flake 1/2 lb P4/sk	2.00	140.00
CC6079	70 lbs	Pheno-SEAL 1/2 lb P4/sk	1.35	94.50
CP8653	1	8 5/8" cement BASKET (reciprocating)	510.00	510.00
				6297.50
		Discount 35%		2204.12
		Sub Total		4093.38
		SALES TAX		
		ESTIMATED TOTAL		

Ravin 3737

AUTHORIZATION Call by Chris w/ CIG Drilling 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 54258  
LOCATION El Dorado, KS  
FOREMAN Brad Butler

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-29-18	5033	T. Wiche # 31-2	31	23s	5E	Butter
CUSTOMER Entranco Energy, LLC			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS P.O. Box 578			760	Jud		
CITY Dewey			667	James		
STATE OK			702	Brad		
ZIP CODE 74029						

JOB TYPE Longstring HOLE SIZE 7 7/8" HOLE DEPTH 2600' KB CASING SIZE & WEIGHT 5 1/2" - 15.5lb used  
 CASING DEPTH 2589' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER 7' Landing Joint  
 SLURRY WEIGHT 14.0 to 14.2 SLURRY VOL 42 Bbls WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 0'  
 DISPLACEMENT 61.78 Bbls DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting: Rig up to 5 1/2" casing, pumped 5 Bbl water ahead, 12 Bbl Mud Flush followed with 5 Bbl water spacer. Mixed 165 sks. 65/35 Pozmix cement w/ chemicals at 14.0 to 14.2 lb PWS/GAL  
Shut down - wash out pump & lines - Release Plug, displace Plug with 62 Bbls water.  
Final pumping at 600 psi - Land Plug with 1100 psi, wait a few minutes - Release Pressure  
Float Held - closed casing in with 0 psi  
during cementing procedure we had good circulation

Note: Plug R.H. with 10 sacks cement

"Thank you"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	20	MILEAGE	7.15	143.00
CE0711	M/L	Bulk Truck Charge	660.00	660.00
CE1200	1	5 1/2" Plug container	350.00	350.00
CC5844	175 SACKS	65/35 Pozmix cement	15.50	2712.50
CC5965	300 lbs	Gel 2%	.30	90.00
CC5326	850 lbs	Sodium Chloride (SALT) 10% water weight	1.00	850.00
CC6077	850 lbs	KPI-SEAL 5/lb PWSK	.50	425.00
CC6079	160 lbs	Pheno-SEAL 1/lb PWSK	1.35	216.00
CP8179	1	5 1/2" Top Rubber Plug	125.00	125.00
CP8629	1	5 1/2" cement BASKET	385.00	385.00
CC6125	500 gal.	Mud Flush	.65	325.00
				8,181.50
		Discount 35%		-2863.52
		Subtotal		5,317.98
		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.



# Company: Entranco Energy, LLC

## Lease: T. Wiebe #31-2

SEC: 31 TWN: 23S RNG: 5E  
County: BUTLER  
State: Kansas  
Drilling Contractor: C & G Drilling  
Company - Rig 1  
Elevation: 1484 EGL  
Field Name: Hazlett  
Pool: Infield  
Job Number: 241

**Operation:**  
Uploading recovery &  
pressures

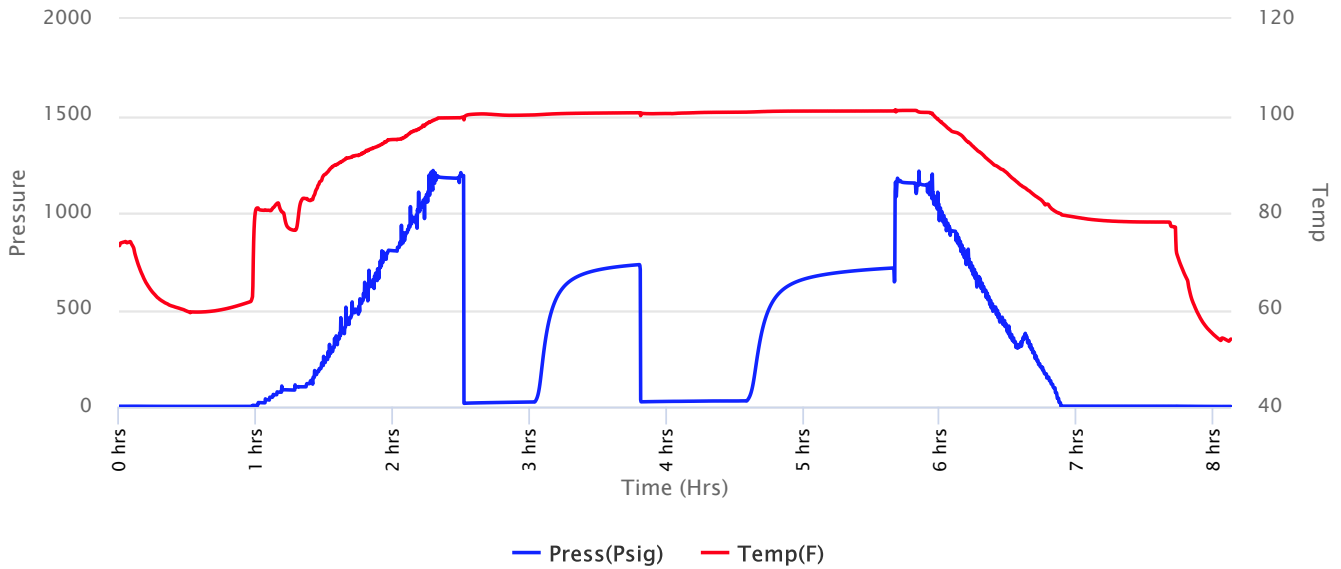
**DATE**  
September  
**27**  
2018

**DST #1**      **Formation: MISS**      **Test Interval: 2456 - 2492'**      **Total Depth: 2492'**  
Time On: 23:35 09/27      Time Off: 07:33 09/28  
Time On Bottom: 02:05 09/28      Time Off Bottom: 05:05 09/28

Electronic Volume  
Estimate:  
20'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 1.5" at 30 min	Current Reading: 0" at 45 min	Current Reading: 0" at 45 min	Current Reading: 0" at 60 min
Max Reading: 1.5"	Max Reading: 0"	Max Reading: 0"	Max Reading: 0"

Inside Recorder





# Company: Entransco Energy, LLC

## Lease: T. Wiebe #31-2

SEC: 31 TWN: 23S RNG: 5E  
County: BUTLER  
State: Kansas  
Drilling Contractor: C & G Drilling  
Company - Rig 1  
Elevation: 1484 EGL  
Field Name: Hazlett  
Pool: Infield  
Job Number: 241

**Operation:**  
Uploading recovery & pressures

**DATE**  
September  
**27**  
2018

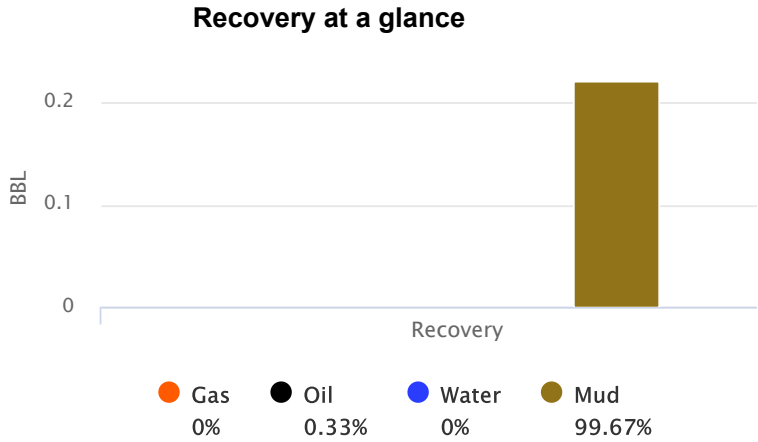
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Time On: 23:35 09/27      Time Off: 07:33 09/28  
Time On Bottom: 02:05 09/28      Time Off Bottom: 05:05 09/28

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
15	0.0738	SLOCM	0	1	0	99
30	0.1476	M	0	0	0	100

Total Recovered: 45 ft  
Total Barrels Recovered: 0.2214

Reversed Out  
NO

Initial Hydrostatic Pressure	1180	PSI
Initial Flow	18 to 25	PSI
<b>Initial Closed in Pressure</b>	<b>733</b>	<b>PSI</b>
Final Flow Pressure	25 to 31	PSI
<b>Final Closed in Pressure</b>	<b>716</b>	<b>PSI</b>
Final Hydrostatic Pressure	1156	PSI
Temperature	101	°F
Pressure Change Initial Close / Final Close	2.4	%





**Company: Entransco Energy,  
LLC**

**Lease: T. Wiebe #31-2**

SEC: 31 TWN: 23S RNG: 5E  
County: BUTLER  
State: Kansas  
Drilling Contractor: C & G Drilling  
Company - Rig 1  
Elevation: 1484 EGL  
Field Name: Hazlett  
Pool: Infield  
Job Number: 241

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
September  
**27**  
2018

<b>DST #1</b>	<b>Formation: MISS</b>	<b>Test Interval: 2456 - 2492'</b>	<b>Total Depth: 2492'</b>
	Time On: 23:35 09/27	Time Off: 07:33 09/28	
	Time On Bottom: 02:05 09/28	Time Off Bottom: 05:05 09/28	

**BUCKET MEASUREMENT:**

1st Open: 1/2"BLOW-INCREASING TO 1 1/2" IN 30 MINUTES

1st Close: NO BLOW BACK

2nd Open: NO BLOW-NO BUILD

2nd Close: NO BLOW BACK

**REMARKS:**

TRACE OF OIL IN 30' RECOVERY. LESS THAN ONE PERCENT

Tool Sample: 0% Gas 3% Oil 0% Water 97% Mud





# Company: Entransco Energy, LLC

## Lease: T. Wiebe #31-2

SEC: 31 TWN: 23S RNG: 5E  
County: BUTLER  
State: Kansas  
Drilling Contractor: C & G Drilling Company - Rig 1  
Elevation: 1484 EGL  
Field Name: Hazlett  
Pool: Infield  
Job Number: 241

**Operation:**  
Uploading recovery & pressures

**DATE**  
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**27**  
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**DST #1**      **Formation: MISS**      **Test Interval: 2456 - 2492'**      **Total Depth: 2492'**  
Time On: 23:35 09/27      Time Off: 07:33 09/28  
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### Down Hole Makeup

<b>Heads Up:</b> 53.36 FT	<b>Packer 1:</b> 2451 FT
<b>Drill Pipe:</b> 2300.79 FT <i>ID-3</i>	<b>Packer 2:</b> 2456 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 2440.42 FT
<b>Collars:</b> 176 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 2461 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> 36	<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> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 32 FT <i>4 1/2-FH</i>	



**Company: Entransco Energy, LLC**

**Lease: T. Wiebe #31-2**

SEC: 31 TWN: 23S RNG: 5E  
County: BUTLER  
State: Kansas  
Drilling Contractor: C & G Drilling Company - Rig 1  
Elevation: 1484 EGL  
Field Name: Hazlett  
Pool: Infield  
Job Number: 241

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**DST #1      Formation: MISS      Test Interval: 2456 - 2492'      Total Depth: 2492'**  
Time On: 23:35 09/27      Time Off: 07:33 09/28  
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**Mud Properties**

**Mud Type:** CHEMICAL    **Weight:** 9.1    **Viscosity:** 47    **Filtrate:** 8.0    **Chlorides:** 1200 ppm



# Company: Entransco Energy, LLC

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State: Kansas  
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Company - Rig 1  
Elevation: 1484 EGL  
Field Name: Hazlett  
Pool: Infield  
Job Number: 241

**Operation:**  
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Time On: 23:35 09/27      Time Off: 07:33 09/28  
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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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# Company: Entranco Energy, LLC

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SEC: 31 TWN: 23S RNG: 5E  
County: BUTLER  
State: Kansas  
Drilling Contractor: C & G Drilling  
Company - Rig 1  
Elevation: 1484 EGL  
Field Name: Hazlett  
Pool: Infield  
Job Number: 241

**Operation:**  
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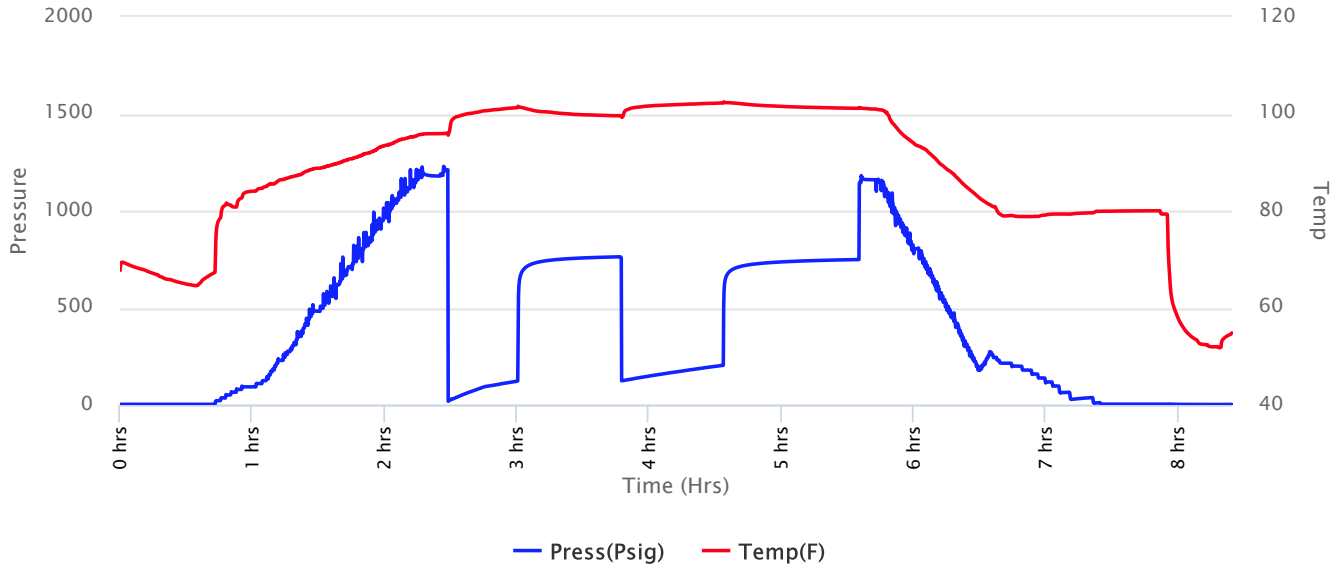
**DATE**  
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**DST #2**      **Formation: MISS**      **Test Interval: 2496 - 2512'**      **Total Depth: 2512'**  
Time On: 13:50 09/28      Time Off: 22:03 09/28  
Time On Bottom: 16:12 09/28      Time Off Bottom: 19:12 09/28

Electronic Volume  
Estimate:  
432'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 22.2" at 30 min	Current Reading: 0" at 45 min	Current Reading: 34.2" at 45 min	Current Reading: 0" at 60 min
Max Reading: 22.2"	Max Reading: 0"	Max Reading: 34.2"	Max Reading: 0"

Inside Recorder





# Company: Entransco Energy, LLC

## Lease: T. Wiebe #31-2

SEC: 31 TWN: 23S RNG: 5E  
County: BUTLER  
State: Kansas  
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Company - Rig 1  
Elevation: 1484 EGL  
Field Name: Hazlett  
Pool: Infield  
Job Number: 241

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**DST #2**      **Formation: MISS**      **Test Interval: 2496 - 2512'**      **Total Depth: 2512'**  
Time On: 13:50 09/28      Time Off: 22:03 09/28  
Time On Bottom: 16:12 09/28      Time Off Bottom: 19:12 09/28

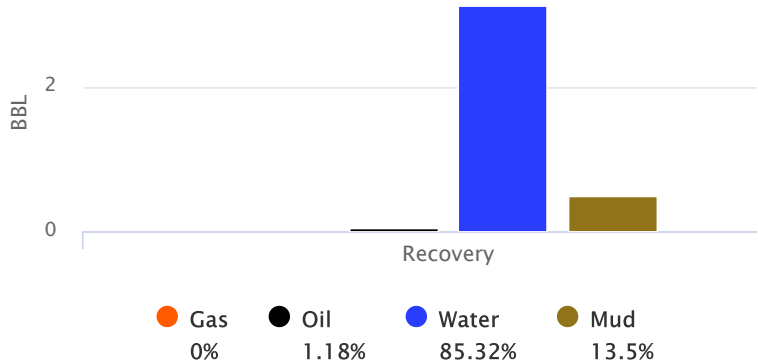
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
8	0.08672	MCOCW	0	28	49	23
87	0.94308	SLOCMCW	0	2	70	28
339	2.63284	SLMCW	0	0	92	8

Total Recovered: 434 ft  
Total Barrels Recovered: 3.66264

Reversed Out  
NO

Initial Hydrostatic Pressure	1183	PSI
Initial Flow	18 to 123	PSI
<b>Initial Closed in Pressure</b>	<b>763</b>	<b>PSI</b>
Final Flow Pressure	123 to 204	PSI
<b>Final Closed in Pressure</b>	<b>749</b>	<b>PSI</b>
Final Hydrostatic Pressure	1161	PSI
Temperature	103	°F
Pressure Change Initial Close / Final Close	1.8	%

### Recovery at a glance





**Company: Entransco Energy,  
LLC**

**Lease: T. Wiebe #31-2**

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County: BUTLER  
State: Kansas  
Drilling Contractor: C & G Drilling  
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**BUCKET MEASUREMENT:**

1st Open: 1/4" BLOW-INCREASING TO BOTTOM OF BUCKET IN 15 MINUTES 30 SECONDS  
1st Close: NO BLOW BACK  
2nd Open: NO BLOW-INCREASING TO BOTTOM OF BUCKET IN 15 MINUTES 45 SECONDS  
2nd Close: NO BLOW BACK

**REMARKS:**

TRACE OF OIL IN 339' RECOVERY. LESS THAN 1 PERCENT

Tool Sample: 0% Gas 10% Oil 35% Water 55% Mud

Ph: 7

Measured RW: .31 @ 55 degrees °F

RW at Formation Temp: 0.174 @ 103 °F

Chlorides: 28000 ppm



# Company: Entransco Energy, LLC

## Lease: T. Wiebe #31-2

SEC: 31 TWN: 23S RNG: 5E  
County: BUTLER  
State: Kansas  
Drilling Contractor: C & G Drilling Company - Rig 1  
Elevation: 1484 EGL  
Field Name: Hazlett  
Pool: Infield  
Job Number: 241

**Operation:**  
Uploading recovery & pressures

**DATE**  
September  
**28**  
2018

**DST #2      Formation: MISS      Test Interval: 2496 - 2512'      Total Depth: 2512'**  
Time On: 13:50 09/28      Time Off: 22:03 09/28  
Time On Bottom: 16:12 09/28      Time Off Bottom: 19:12 09/28

### Down Hole Makeup

<b>Heads Up:</b> 13.36 FT	<b>Packer 1:</b> 2491 FT
<b>Drill Pipe:</b> 2300.79 FT <i>ID-3</i>	<b>Packer 2:</b> 2496 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 2480.42 FT
<b>Collars:</b> 176 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 2501 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> 16	<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> 3 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> FT	
<b>Drill Pipe: (in anchor):</b> FT <i>ID-3</i>	
<b>Change Over:</b> FT	
<b>Perforations: (below):</b> 12 FT <i>4 1/2-FH</i>	



**Company: Entransco Energy, LLC**

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**Mud Properties**

**Mud Type: CHEMICAL    Weight: 8.9      Viscosity: 57      Filtrate: 9.6      Chlorides: 800 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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# GEOLOGICAL REPORT

Entranco Energy, LLC

T. Wiebe #31-2

E/2 W/2 SE SE Section 31-T23S-R5E

Butler County, Kansas

COMMENCED: 09-25-18  
COMPLETED: 09-29-18  
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.: 2600'

STATUS: OIL  
A.P.I. #: 15-015-24103  
OPERATOR LLC.: 35018  
FIELD: Hazlett  
ELEVATION: 1490 K.B.

LOOS: CNT LDT MLT PIT  
MUD SYSTEM: Chemical  
OTHER:

William M. Stout  
Geologist

*William M. Stout*  
9-1-18

## FORMATION TOPS

1484 G.L.      1490 K.B.

	Sample	Log
Kansas City	2088 - 598	2088 - 598
Base Kansas City	2225 - 735	2226 - 736
Altamont	2345 - 855	2346 - 856
Cherokee	2430 - 940	2430 - 940
Mississippi Chert	2472 - 982	2474 - 984
Mississippi Lime	2520 - 1030	2522 - 1032
Total Depth	2600 - 1110	2603 - 1113

## SAMPLE DESCRIPTIONS

Mississippi 2472' (-982)  
2472' - 2492'

Chert - amber, off white, opaque to translucent, fresh, trace weathered with light stain, faint odor, very slight show free oil with gas bubbles, pin point and vugular porosity with fluorescence. Covered by DST #1.

DST #1 2456' - 2492'

Open tool 30 min. had 1/2 inch blow building to 1 1/2 inches in 30 min.  
Close tool 45 min. Open tool 45 min. had no blow. Close tool 60 min.

Recovered 45' TF, 15' SLOCM (1% O, 99% M), 30' M.  
IFP: 18 - 25#      FFP: 25 - 31#  
ISIP: 733#      FSIP: 716#

HP: 1180 - 1156#  
Temp. 101 degrees

2495' - 2512'

Chert - white, light brown, opaque, some translucent, mostly fresh, faint odor, some weathered with light stain, slight show free oil, few gas bubbles, trace vugular and pin point porosity with fluorescence. Covered by DST #2.

DST #2 2496' - 2512'

Open tool 30 min. had 1/4 inch blow building to bottom of bucket in 15 min. 30 sec. Close tool 45 min. Open tool 45 min. had no blow building to bottom of bucket in 15 min. 45 sec. Close tool 60 min. Recovered

434' TF, 8' MCOCW (28% O, 49% W, 23% M), 87' SLOCMCW (2% O, 70% W, 28% M), 339' SLMC (92% W, 8% M).  
IFP: 18 - 123#      FFP: 123 - 204#  
ISIP: 763#      FSIP: 749#

HP: 1183 - 1161#  
Temp. 103 degrees      Chlorides 28,000 ppm

## CONCLUSIONS

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

## LEGEND

