

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

TICKET NUMBER 54253
 LOCATION 180
 FOREMAN Jacob Storm

FIELD TICKET & TREATMENT REPORT
CEMENT

Apr 15 - 015 - 24100-00-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-18-18	5033	T. Wiebe 31-1	31	23S	5E	Butler

CUSTOMER	TRUCK #	DRIVER	TRUCK #	DRIVER
Entranco Energy LLC	446	Jacob		
	667	Chance		
	707	Bred		

MAILING ADDRESS	CITY	STATE	ZIP CODE
PO Box 578	Dewey	OK	74029

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 212 CASING SIZE & WEIGHT 8 5/8
 CASING DEPTH 209 DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15 lb SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 1554
 DISPLACEMENT 13 bbl DISPLACEMENT PSI 300 MIX PSI 200 RATE 3 bpm

REMARKS: Safety meeting tie into 8 5/8 mix 135 sks class A
2 1/2 gal 3/16 1/2 lb poly displaced with 13 bbl circulating
cement to surface. Shut in.
13 bbl cement to pit

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	1500.00
CE2002	20	MILEAGE	7.15	143.00
CE0711	1	min bulk delivery	660.00	660.00
CC5871	135	Surface blend II	23.00	3105.00
CC6075	75	poly Flaker	2.00	150.00
			Subtotal	5558.00
			-	1945.30
			total	3612.70
			SALES TAX	
			ESTIMATED	
			TOTAL	

Revin 3737

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 54250

LOCATION Eldorado

FOREMAN Brad Butler

**FIELD TICKET & TREATMENT REPORT
 CEMENT**

API # 15-015-24106

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
9-22-18	5033	T. Wiebe # 31-1	31	235	5E	Butler
CUSTOMER			TRUCK #			
MAILING ADDRESS			DRIVER			
CITY			TRUCK #			
STATE			DRIVER			
ZIP CODE			TRUCK #			
CITY			DRIVER			

JOB TYPE LongStems HOLE SIZE 7 7/8 HOLE DEPTH 2610' K.B. CASING SIZE & WEIGHT 5 1/2" - 15.5 lb
 CASING DEPTH 2599.8' DRILL PIPE _____ TUBING _____ OTHER 7' Landing Joint
 SLURRY WEIGHT 13.8 to 14.0 SLURRY VOL 45 Bbls WATER gal/sk 6.35 CEMENT LEFT in CASING 0
 DISPLACEMENT 62 Bbls DISPLACEMENT PSI 500 MIX PSI _____ RATE 5-5 bpm

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 150 sks 65/35 Pozmix cement w/ chemicals @ 13.8 to 14.0 lb p/gal. Shutdown - wash out pump stems - Release Plug, displace Plug with 62 Bbls water. Final Pumping @ 500 psi - Land Plug with 1000 psi. wait a few minutes - Release Pressure - Float Held closed casing to w/ 0 psi. Job complete - Tear down. Note: we had good circulation during cementing process.

Note: Plug R.H. with 10 sacks 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 5844	160 SACKS	65/35 Pozmix cement	15.50	2480.00
CC 5326	850 lbs.	Sodium Chloride (SALT) 10% water weight	1.00	850.00
CC 5965	300 lbs.	Gel 2%	.30	90.00
CC 6077	800 lbs	KOI-SEAL 5 lbs P/SK	.50	400.00
CC 6079	80 lbs	Pheno-SEAL 1/2 lb. P/SK	1.35	108.00
CC 6125	500 gal.	Mud Flush	.65	325.00
CP 8179	1	5 1/2" Top Rubber Plug	125.00	125.00
				7431.00
		Discount		2600.85
		Sub Total		4830.15
		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 #31-1

SEC: 31 TWN: 23 S RNG: 5 E
County: BUTLER
State: Kansas
Drilling Contractor: C & G Drilling Company - Rig 1
Elevation: 1461 EGL
Field Name: Hazlett
Pool: Infield
Job Number: 199

Operation:
Test Complete

DATE
September
20
2018

DST #1 Formation: MISS Test Interval: 2432 - 2465' Total Depth: 2465'
Time On: 23:00 09/20 Time Off: 07:19 09/21
Time On Bottom: 01:12 09/21 Time Off Bottom: 04:12 09/21

Electronic Volume Estimate:
363'

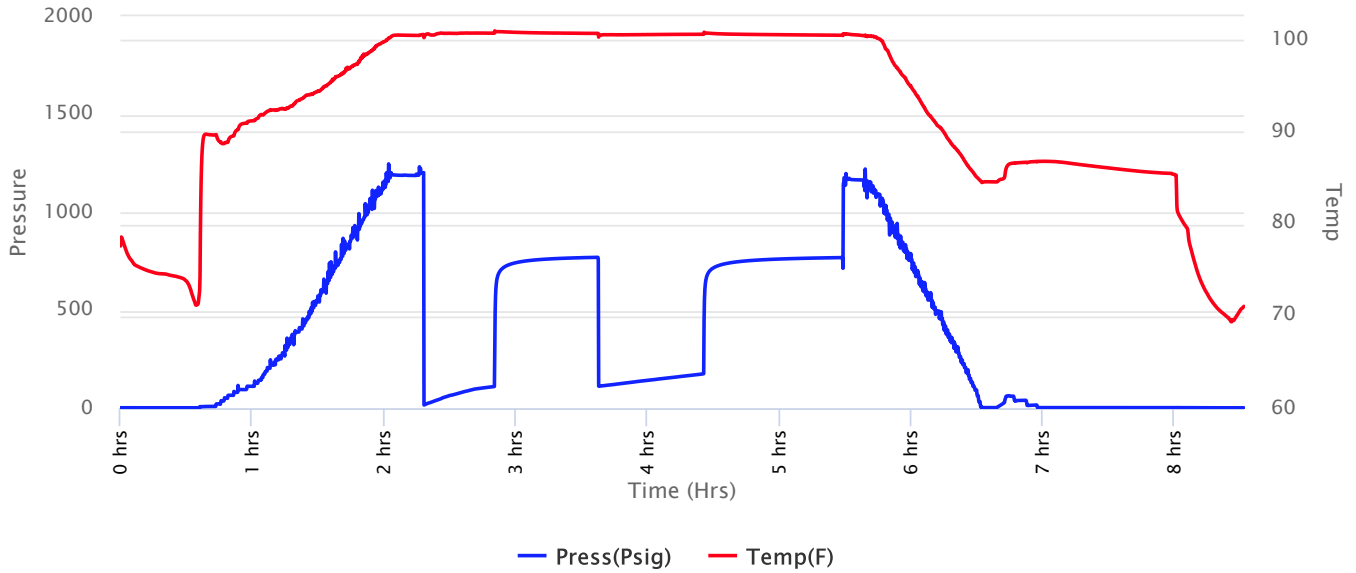
1st Open
Minutes: 30
Current Reading:
15.8" at 30 min
Max Reading: 15.8"

1st Close
Minutes: 45
Current Reading:
0" at 45 min
Max Reading: 0"

2nd Open
Minutes: 45
Current Reading:
28.9" at 45 min
Max Reading: 28.9"

2nd Close
Minutes: 60
Current Reading:
.2" at 60 min
Max Reading: .25"

Inside Recorder





Company: Entranco Energy, LLC

Lease: T. Wiebe #31-1

SEC: 31 TWN: 23 S RNG: 5 E
 County: BUTLER
 State: Kansas
 Drilling Contractor: C & G Drilling Company - Rig 1
 Elevation: 1461 EGL
 Field Name: Hazlett
 Pool: Infield
 Job Number: 199

Operation:
 Test Complete

DATE
 September
20
 2018

DST #1 **Formation: MISS** **Test Interval: 2432 - 2465'** **Total Depth: 2465'**
 Time On: 23:00 09/20 Time Off: 07:19 09/21
 Time On Bottom: 01:12 09/21 Time Off Bottom: 04:12 09/21

Recovered

Foot	BBSL	Description of Fluid	Gas %	Oil %	Water %	Mud %
30	0.3252	G	100	0	0	0
35	0.3794	O	0	100	0	0
149	1.61516	SLOCHWCM	0	5	40	55
60	0.31888	SLOCMCW	0	3	70	27
120	0.5904	SLMCW	0	0	95	5

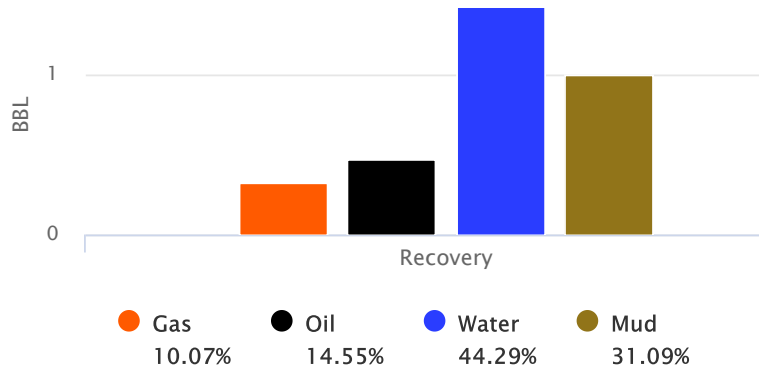
Total Recovered: 394 ft
 Total Barrels Recovered: 3.22904

Reversed Out
NO

Initial Hydrostatic Pressure 1189 PSI
 Initial Flow 17 to 111 PSI
Initial Closed in Pressure 770 PSI
 Final Flow Pressure 113 to 177 PSI
Final Closed in Pressure 769 PSI
 Final Hydrostatic Pressure 1172 PSI
 Temperature 101 °F

 Pressure Change Initial Close / Final Close 0.2 %

Recovery at a glance





Company: Entransco Energy, LLC

Lease: T. Wiebe #31-1

SEC: 31 TWN: 23 S RNG: 5 E
County: BUTLER
State: Kansas
Drilling Contractor: C & G Drilling Company - Rig 1
Elevation: 1461 EGL
Field Name: Hazlett
Pool: Infield
Job Number: 199

Operation:

Test Complete

DATE

September

20

2018

DST #1	Formation: MISS	Test Interval: 2432 - 2465'	Total Depth: 2465'
	Time On: 23:00 09/20	Time Off: 07:19 09/21	
	Time On Bottom: 01:12 09/21	Time Off Bottom: 04:12 09/21	

BUCKET MEASUREMENT:

1st Open: 1/4"BLOW-INCREASING TO BOTTOM OF THE BUCKET IN 18 MINUTES

1st Close: NO BLOW BACK

2nd Open: WSB-INCREASING TO BOTTOM OF THE BUCKET IN 21 MINUTES

2nd Close: 1/4" BLOW BACK

REMARKS:

TRACE OF OIL IN THE 120' RECOVERY

Tool Sample: 0% Gas 20% Oil 53% Water 27% Mud

Gravity: 39 @ 60 °F

Ph: 7

Measured RW: .39 @ 60 degrees °F

RW at Formation Temp: 0.242 @ 101 °F

Chlorides: 24000 ppm



Company: Entransco Energy, LLC

Lease: T. Wiebe #31-1

SEC: 31 TWN: 23 S RNG: 5 E
County: BUTLER
State: Kansas
Drilling Contractor: C & G Drilling Company - Rig 1
Elevation: 1461 EGL
Field Name: Hazlett
Pool: Infield
Job Number: 199

Operation:
Test Complete

DATE
September
20
2018

DST #1 **Formation: MISS** **Test Interval: 2432 - 2465'** **Total Depth: 2465'**
Time On: 23:00 09/20 Time Off: 07:19 09/21
Time On Bottom: 01:12 09/21 Time Off Bottom: 04:12 09/21

Down Hole Makeup

Heads Up: 47.16 FT	Packer 1: 2427 FT
Drill Pipe: 2270.59 FT <i>ID-3</i>	Packer 2: 2432 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 2416.42 FT
Collars: 176 FT <i>ID-2 1/4</i>	Bottom Recorder: 2437 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 33	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 3 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3</i>	
Change Over: FT	
Perforations: (below): 29 FT <i>4 1/2-FH</i>	



**Company: Entranco Energy,
LLC**

Lease: T. Wiebe #31-1

SEC: 31 TWN: 23 S RNG: 5 E
County: BUTLER
State: Kansas
Drilling Contractor: C & G Drilling
Company - Rig 1
Elevation: 1461 EGL
Field Name: Hazlett
Pool: Infield
Job Number: 199

Operation:
Test Complete

DATE
September
20
2018

DST #1 **Formation: MISS** **Test Interval: 2432 - 2465'** **Total Depth: 2465'**
Time On: 23:00 09/20 Time Off: 07:19 09/21
Time On Bottom: 01:12 09/21 Time Off Bottom: 04:12 09/21

Mud Properties

Mud Type: CHEMICAL **Weight:** 9.5 **Viscosity:** 44 **Filtrate:** 8.4 **Chlorides:** 1300 ppm



Company: Entranco Energy, LLC

Lease: T. Wiebe #31-1

SEC: 31 TWN: 23 S RNG: 5 E
County: BUTLER
State: Kansas
Drilling Contractor: C & G Drilling
Company - Rig 1
Elevation: 1461 EGL
Field Name: Hazlett
Pool: Infield
Job Number: 199

Operation:
Uploading recovery &
pressures

DATE
September
21
2018

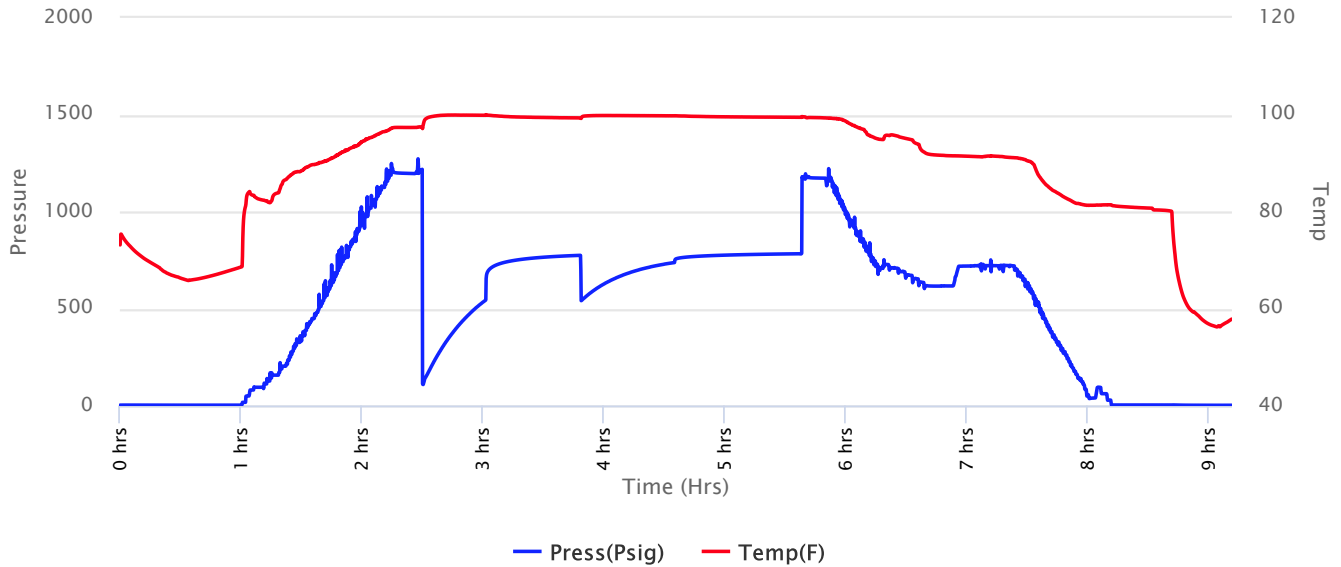
DST #2 **Formation: MISS** **Test Interval: 2468 - 2492'** **Total Depth: 2492'**

Time On: 12:45 09/21 Time Off: 21:44 09/21
Time On Bottom: 15:07 09/21 Time Off Bottom: 18:07 09/21

Electronic Volume
Estimate:
2287'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 45	Minutes: 45	Minutes: 60
Current Reading: 322.4" at 30 min	Current Reading: 0" at 45 min	Current Reading: 197.4" at 45 min	Current Reading: 0" at 60 min
Max Reading: 322.4"	Max Reading: 0"	Max Reading: 197.4"	Max Reading: 0"

Inside Recorder





Company: Entranco Energy, LLC

Lease: T. Wiebe #31-1

SEC: 31 TWN: 23 S RNG: 5 E
 County: BUTLER
 State: Kansas
 Drilling Contractor: C & G Drilling
 Company - Rig 1
 Elevation: 1461 EGL
 Field Name: Hazlett
 Pool: Infield
 Job Number: 199

Operation:
 Uploading recovery & pressures

DATE
 September
21
 2018

DST #2 **Formation: MISS** **Test Interval: 2468 - 2492'** **Total Depth: 2492'**
 Time On: 12:45 09/21 Time Off: 21:44 09/21
 Time On Bottom: 15:07 09/21 Time Off Bottom: 18:07 09/21

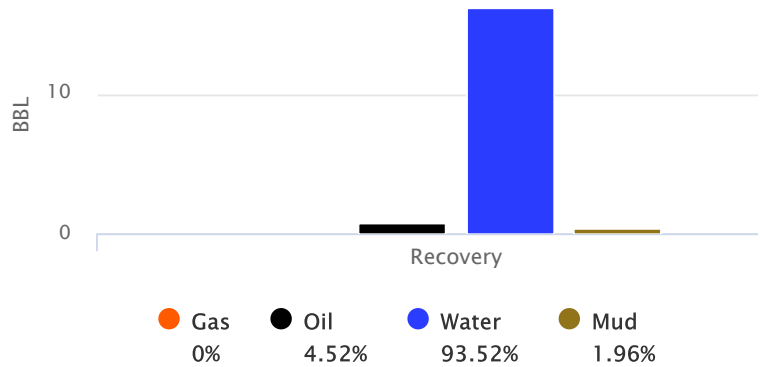
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
45	0.4878	O	0	100	0	0
90	0.9756	SLOCMLCW	0	11	76	13
124	1.34416	SLOCMLCW	0	3	92	5
1430	14.45928	SLMCSLOCW	0	1	98	1

Total Recovered: 1689 ft
 Total Barrels Recovered: 17.26684

Reversed Out
 YES

Initial Hydrostatic Pressure	1198	PSI
Initial Flow	109 to 545	PSI
Initial Closed in Pressure	775	PSI
Final Flow Pressure	544 to 738	PSI
Final Closed in Pressure	786	PSI
Final Hydrostatic Pressure	1174	PSI
Temperature	100	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





**Company: Entransco Energy,
LLC**

Lease: T. Wiebe #31-1

SEC: 31 TWN: 23 S RNG: 5 E
County: BUTLER
State: Kansas
Drilling Contractor: C & G Drilling
Company - Rig 1
Elevation: 1461 EGL
Field Name: Hazlett
Pool: Infield
Job Number: 199

Operation:

Uploading recovery &
pressures

DATE

September

21

2018

DST #2 Formation: MISS Test Interval: 2468 - 2492' Total Depth: 2492'

Time On: 12:45 09/21

Time Off: 21:44 09/21

Time On Bottom: 15:07 09/21

Time Off Bottom: 18:07 09/21

BUCKET MEASUREMENT:

1st Open: 6"BLOW-INCREASING TO BOTTOM OF BUCKET IN 45 SECONDS

1st Close: NO BLOW BACK

2nd Open: 3"BLOW-INCREASING TO BOTTOM OF THE BUCKET IN 1 MINUTE 25 SECONDS

2nd Close: NO BLOW BACK

REMARKS:

MUD WEIGHT 9.2 LBS/GAL

Tool Sample: 0% Gas 42% Oil 56% Water 2% Mud

Gravity: 40 @ 60 °F

Ph: 7

Measured RW: .3 @ .3 degrees °F

RW at Formation Temp: 0.02 @ 100 °F

Chlorides: 26000 ppm



Company: Entransco Energy, LLC

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SEC: 31 TWN: 23 S RNG: 5 E
County: BUTLER
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Drilling Contractor: C & G Drilling Company - Rig 1
Elevation: 1461 EGL
Field Name: Hazlett
Pool: Infield
Job Number: 199

Operation:
Uploading recovery & pressures

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DST #2 **Formation: MISS** **Test Interval: 2468 - 2492'** **Total Depth: 2492'**
Time On: 12:45 09/21 Time Off: 21:44 09/21
Time On Bottom: 15:07 09/21 Time Off Bottom: 18:07 09/21

Down Hole Makeup

Heads Up: 41.83 FT	Packer 1: 2463 FT
Drill Pipe: 2301.26 FT <i>ID-3</i>	Packer 2: 2468 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 2452.42 FT
Collars: 176 FT <i>ID-2 1/4</i>	Bottom Recorder: 2470 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 24	Surface Choke: 1"
Anchor Makeup	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3</i>	
Change Over: FT	
Perforations: (below): 23 FT <i>4 1/2-FH</i>	



**Company: Entranco Energy,
LLC**

Lease: T. Wiebe #31-1

SEC: 31 TWN: 23 S RNG: 5 E
County: BUTLER
State: Kansas
Drilling Contractor: C & G Drilling
Company - Rig 1
Elevation: 1461 EGL
Field Name: Hazlett
Pool: Infield
Job Number: 199

Operation:
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pressures

DATE
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21
2018

**DST #2 Formation: MISS Test Interval: 2468 -
2492' Total Depth: 2492'**

Time On: 12:45 09/21 Time Off: 21:44 09/21
Time On Bottom: 15:07 09/21 Time Off Bottom: 18:07 09/21

Mud Properties

Mud Type: CHEMICAL **Weight:** 9.2 **Viscosity:** 48 **Filtrate:** 8.4 **Chlorides:** 1300 ppm



Company: Entransco Energy, LLC

Lease: T. Wiebe #31-1

SEC: 31 TWN: 23 S RNG: 5 E
County: BUTLER
State: Kansas
Drilling Contractor: C & G Drilling
Company - Rig 1
Elevation: 1461 EGL
Field Name: Hazlett
Pool: Infield
Job Number: 199

Operation:
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pressures

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2018

DST #2 **Formation: MISS** **Test Interval: 2468 - 2492'** **Total Depth: 2492'**
Time On: 12:45 09/21 Time Off: 21:44 09/21
Time On Bottom: 15:07 09/21 Time Off Bottom: 18:07 09/21

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 #31-1

W/2 E/2 NE NE Section 31-T29S-R5E

Butler County, Kansas

COMMENCED: 09-18-18
 COMPLETED: 09-22-18
 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.: 2610'

STATUS: Oil
 A.P.I. #: 15-015-24106
 OPERATOR I.C.: 35018

FIELD: Hazlett
 ELEVATION: 1467 K.B.
 LOGS: CNFT/DT MLT PIT
 MUD SYSTEM: Chemical
 OTHER:

William M. Stout
 Geologist
 9-21-18

FORMATION TOPS

1461 G.L. 1467 K.B.

	Sample	Log
Kansas City	2066-599	2064-597
Base Kansas City	2208-741	2207-740
Altamont	2329-882	2327-880
Cherokee	2410-943	2407-940
Mississippi Lime	2446-979	2445-978
Mississippi Lime	2547-1080	2546-1079
Total Depth	2610-1143	2610-1143

SAMPLE DESCRIPTIONS

Kansas City 2066 (-599)
2092' - 2096'

Limestone - light brown, fine crystalline, fossiliferous, some dense, argillaceous in part, some intercrystalline and vugular porosity with light stain, slight show free oil, trace fluorescence.

Conglomerate Sand 2421 (-954)
2421' - 2425'

Sandstone - light brown, clear, fine to coarse grain, no odor, trace stain, trace free oil when broken, poor porosity, trace fluorescence.

Mississippi 2446 (-979)
2446' - 2465'

Chert - white, light brown, opaque, 50% weathered, with light stain, fair to good odor, show free oil with gas bubbles, pin point and vugular porosity with fluorescence. Covered by DST #1.

DST #1 2432' - 2465'

Open tool 30 min. had 1/4 inch blow building to bottom of bucket in 18 min. Close tool 45 min. Open tool 45 min. had weak surface blow building to bottom of bucket in 21 min. Close tool 60 min. had 1/4 inch blow back. Recovered 394' TF, 30' GIP, 35' CO (gravity 39), 149' SLOCHWCM (5% O, 40% W, 55% M), 60' SLOCMCW (3% O, 70% W, 27% M), 120' SLMCW (95% W, 5% M).

IFP: 17-111# FFP: 113-177#
ISIP: 770# FSIP: 769#
HP: 1189-1172#
Temp. 101 degrees Chlorides 24,000 ppm

2468' - 2575'

Chert - white, light brown, opaque, some weathered, fresh chert increasing with depth, fair to good odor, light stain, show free oil with gas bubbles, fair to good vugular and pin point porosity with fluorescence. Covered by DST #2.

DST #2 2468' - 2492'

Open tool 30 min. had 6 inch blow building to bottom of bucket in 45 sec. Close tool 45 min. had 3 inch blow building to bottom of bucket in 1 min. 25 sec. Close tool 60 min. Recovered 1689' TF, 49' CO (gravity 40), 90' SLOSLMCW (11% O, 76% W, 13% M), 124' SLOSLMCW (3% O, 92% W, 5% M), 1430' SLMCSLOCW (1% O, 98% W, 1% M).

IFP: 109-545# FFP: 544-738#
ISIP: 775# FSIP: 786#
HP: 1198-1174#
Temp. 100 degrees Chlorides 26,000 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.

