

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 _____

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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Company: Castle Resources, Inc

Lease: Pfeifer #2

SEC: 32 TWN: 12S RNG: 20W
County: ELLIS
State: Kansas
Drilling Contractor: White Knight Drilling, LLC - Rig 1
Elevation: 2193 Est
Field Name: Ellis
Pool: Infield
Job Number: 513
API #: 15-051-27012-00-00

Operation:
Uploading recovery & pressures

DATE
September
19
2021

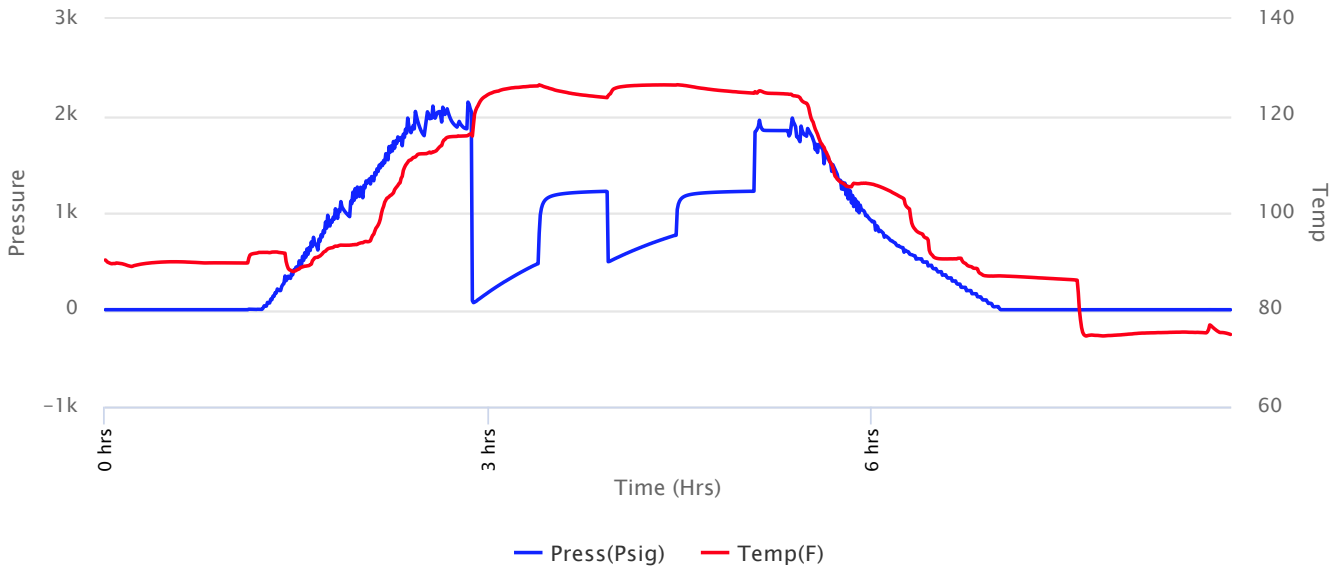
DST #1 **Formation: Arbuckle** **Test Interval: 3844 - 3870'** **Total Depth: 3928'**

Time On: 18:04 09/19 Time Off: 02:38 09/20
Time On Bottom: 20:52 09/19 Time Off Bottom: 22:52 09/19

Electronic Volume Estimate:
1770'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 30	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: 114" at 30 min	Current Reading: 0" at 30 min	Current Reading: 85" at 30 min	Current Reading: 0" at 30 min
Max Reading: 114"	Max Reading: 0"	Max Reading: 85"	Max Reading: 0"

Inside Recorder





Company: Castle Resources, Inc

Lease: Pfeifer #2

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Time On Bottom: 20:52 09/19 Time Off Bottom: 22:52 09/19

Recovered

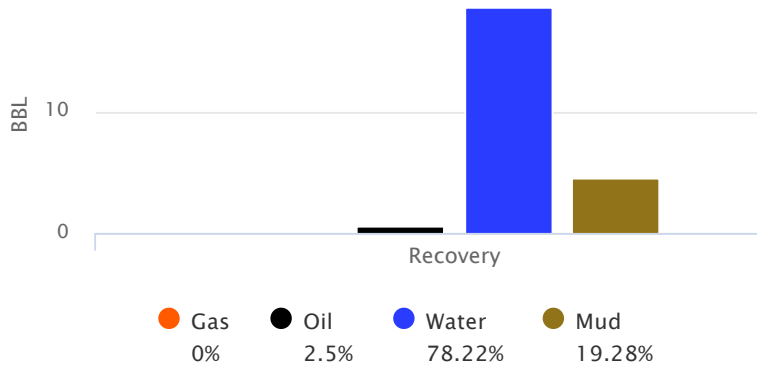
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
280	3.9844	SLOC SLWCM	0	5	10	85
1386	19.72278	SLOC SLMCW	0	2	92	6

Total Recovered: 1666 ft
Total Barrels Recovered: 23.70718

Reversed Out
NO

Initial Hydrostatic Pressure	1866	PSI
Initial Flow	78 to 475	PSI
Initial Closed in Pressure	1218	PSI
Final Flow Pressure	495 to 769	PSI
Final Closed in Pressure	1222	PSI
Final Hydrostatic Pressure	1855	PSI
Temperature	127	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 0



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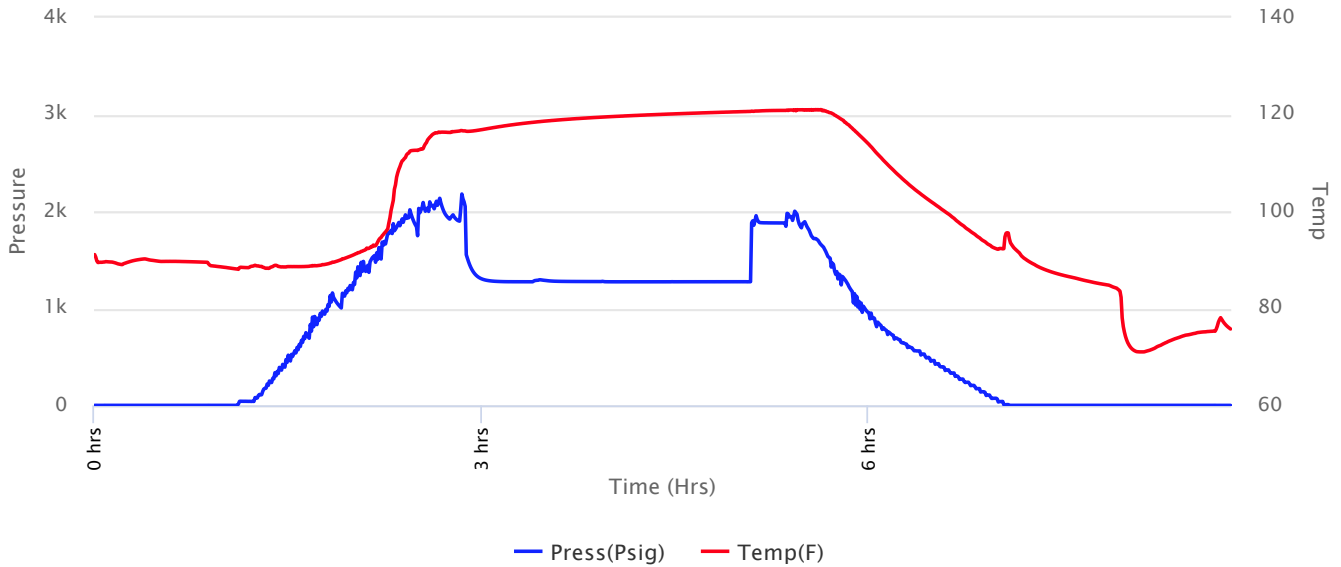
BUCKET MEASUREMENT:

1st Open: 1" Blow. BOB in 3 minutes
1st Close: NOBB
2nd Open: 1" Blow. BOB in 3 minutes
2nd Close: NOBB

REMARKS:

Below Straddle recorder 1274 psi
Tool Sample: 0% Gas 2% Oil 97% Water 1% Mud
Ph: 7
Measured RW: .35 @ 80 degrees °F
RW at Formation Temp: 0.227 @ 127 °F
Chlorides: 40,000 ppm

Below Straddle Recorder





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Time On: 18:04 09/19 Time Off: 02:38 09/20
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Down Hole Makeup

Heads Up: 25.16 FT	Packer 1: 3839 FT
Drill Pipe: 3836.59 FT <i>ID-3 1/2</i>	Packer 2: 3844 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Packer 3: 3870 FT
Collars: 0 FT <i>ID-2 1/4</i>	Top Recorder: 3828.42 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Bottom Recorder: 3846 FT
Total Anchor: 26	Below Straddle Recorder: 3905 FT
Anchor Makeup	Well Bore Size: 7 7/8
Packer Sub: 1 FT	Surface Choke: 1"
Perforations: (top): FT <i>4 1/2-FH</i>	Bottom Choke: 5/8"
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 25 FT <i>4 1/2-FH</i>	
STRADDLE	
Straddle Packer(s): FT	
Change Over: 1 FT	
Drill Pipe: 31.68 FT <i>ID-3 1/2"</i>	
Change Over: .5 FT	
Perforations (in tail pipe): 24 FT <i>4 1/2-FH</i>	



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Drilling, LLC - Rig 1
Elevation: 2193 Est
Field Name: Ellis
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3870'

Time On: 18:04 09/19 Time Off: 02:38 09/20
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Mud Properties

Mud Type: Chem **Weight:** 9.4 **Viscosity:** 55 **Filtrate:** 11.2 **Chlorides:** 7000 ppm



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Time On: 18:04 09/19 Time Off: 02:38 09/20
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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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Operation:
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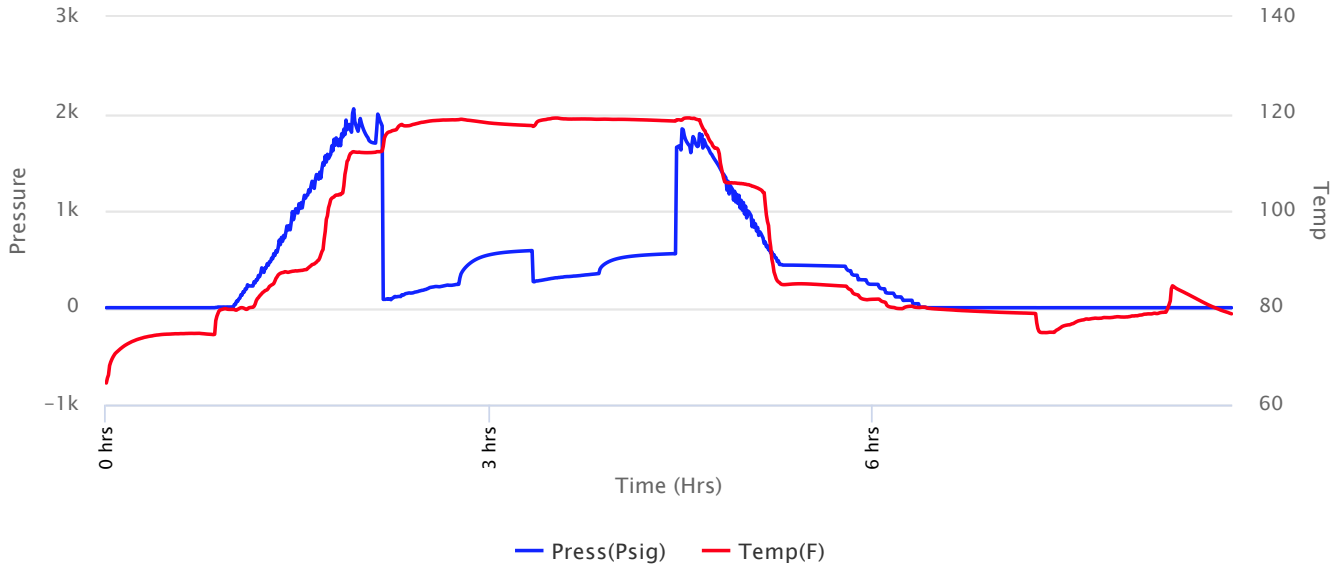
DATE
September
20
2021

DST #2 **Formation: Lans** **Test Interval: 3494 - 3534'** **Total Depth: 3928'**
Time On: 03:40 09/20 Time Off: 12:17 09/20
Time On Bottom: 05:50 09/20 Time Off Bottom: 07:50 09/20

Electronic Volume Estimate:
N/A

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 30	Minutes: 30	Minutes: 30
Current Reading: 380" at 30 min	Current Reading: 26.6" at 30 min	Current Reading: GTS" at 30 min	Current Reading: 29" at 30 min
Max Reading: 380"	Max Reading: 33"	Max Reading: GTS"	Max Reading: 29.8"

Inside Recorder





Company: Castle Resources, Inc

Lease: Pfeifer #2

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County: ELLIS
State: Kansas
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Elevation: 2193 Est
Field Name: Ellis
Pool: Infield
Job Number: 513
API #: 15-051-27012-00-00

Operation:
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DATE
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2021

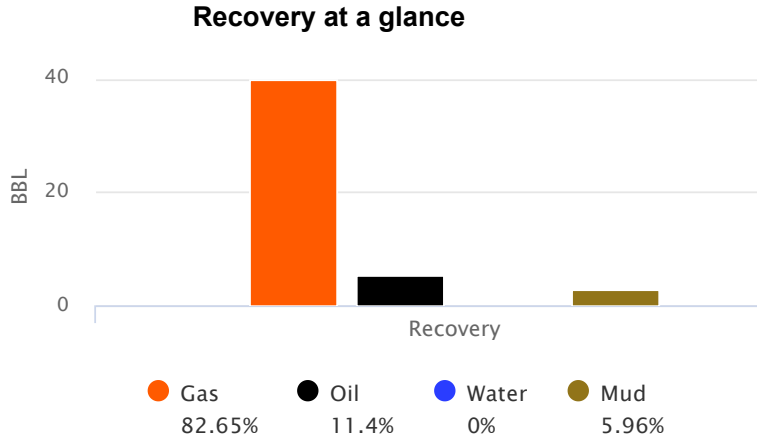
DST #2 **Formation: Lans** **Test Interval: 3494 - 3534'** **Total Depth: 3928'**
Time On: 03:40 09/20 Time Off: 12:17 09/20
Time On Bottom: 05:50 09/20 Time Off Bottom: 07:50 09/20

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
2596	36.94108	G	100	0	0	0
285	4.05555	O	0	100	0	0
504	7.17192	OCHMCG	40	20	0	40

Total Recovered: 3385 ft
Total Barrels Recovered: 48.16855

Reversed Out
NO

Initial Hydrostatic Pressure	1697	PSI
Initial Flow	86 to 242	PSI
Initial Closed in Pressure	590	PSI
Final Flow Pressure	267 to 353	PSI
Final Closed in Pressure	557	PSI
Final Hydrostatic Pressure	1696	PSI
Temperature	120	°F
Pressure Change Initial Close / Final Close	5.5	%



GIP cubic foot volume: 223.51239



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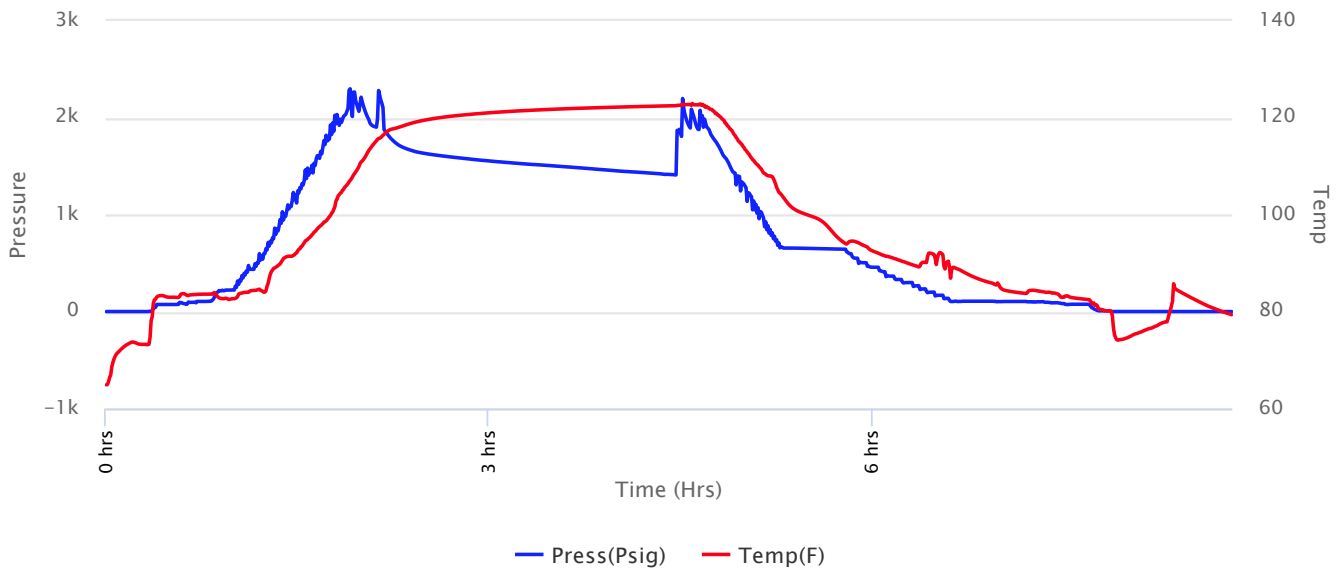
BUCKET MEASUREMENT:

- 1st Open: 1" Blow. BOB in 1 1/2 minutes
- 1st Close: Bottom Bucket Blow Back
- 2nd Open: Gas To Surface
- 2nd Close: Bottom Bucket Blow Back

REMARKS:

Below Straddle Recorder 1408 psi
Tool Sample: 0% Gas 100% Oil 0% Water 0% Mud
Gravity: 40.5 @ 60 °F
Ph: 7
Measured RW: .17 @ 85 degrees °F
RW at Formation Temp: 0.123 @ 120 °F
Chlorides: 60000 ppm

Below Straddle Recorder





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Time On: 03:40 09/20 Time Off: 12:17 09/20
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Down Hole Makeup

Heads Up: 26.05 FT	Packer 1: 3489 FT
Drill Pipe: 3487.48 FT <i>ID-3 1/2</i>	Packer 2: 3494 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Packer 3: 3534 FT
Collars: 0 FT <i>ID-2 1/4</i>	Top Recorder: 3478.42 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	Bottom Recorder: 3541 FT
Total Anchor: 40	Below Straddle Recorder: 3918 FT
Anchor Makeup	Well Bore Size: 7 7/8
Packer Sub: 1 FT	Surface Choke: 1"
Perforations: (top): 39 FT <i>4 1/2-FH</i>	Bottom Choke: 5/8"
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): FT <i>4 1/2-FH</i>	
<u>STRADDLE</u>	
Straddle Packer(s): FT	
Change Over: .5 FT	
Drill Pipe: 380.77 FT <i>ID-3 1/2"</i>	
Change Over: 1 FT	
Perforations (in tail pipe): 11 FT <i>4 1/2-FH</i>	



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Inc**

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Elevation: 2193 Est
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Mud Properties

Mud Type: Chem **Weight:** 9.4 **Viscosity:** 55 **Filtrate:** 11.2 **Chlorides:** 7000 ppm



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Gas Volume Report

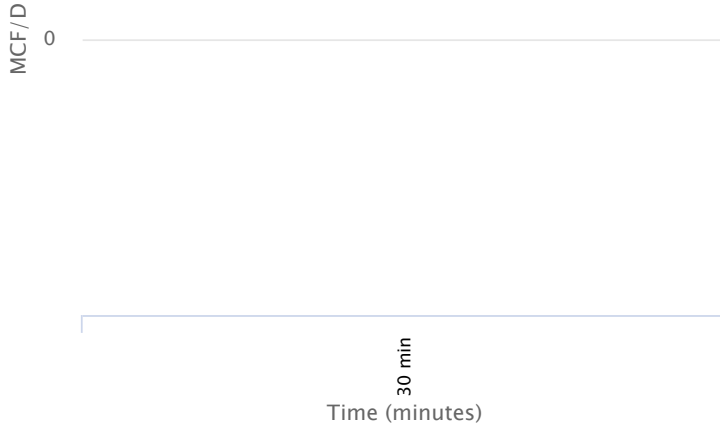
Remarks: Caught Gas Sample 5 mintues into Final Flow

1st Open

Time	Orifice	PSI	MCF/D
30	0.0625	Too weak to measure	Weak

2nd Open

Time	Orifice	PSI	MCF/D
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JERRY GREEN

CONSULTING GEOLOGIST

P. O. BOX 87
SCHOENHEN, KS 67687

PHONE: 785-625-5155

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: CASTLE RESOURCES, INC.

LEASE: PELEBER#2

FIELD ELLIS

LOCATION: 2180/FNL 2310/EWL/WV/4

SFC 32: TWP 12S R0E 20W

COUNTY: ELLIS STATE: KS

CONTRACTOR: WHITE KNIGHT DRILLING

SPUD: 8/15/21 COMP: 9-20-21

RTD: 8/25/21 LTD: 8/28/21

MUD UP 3100: TYPE MUD CHEM

SAMPLES SAVED FROM 3100: TO ID:

DRILLING TIME KEPT FROM 3100: TO

SAMPLES EXAMINED FROM 3100: TO ID:

GEOLOGICAL SUPERVISION FROM 3100: TO ID:

GEOLOGIST ON WELL

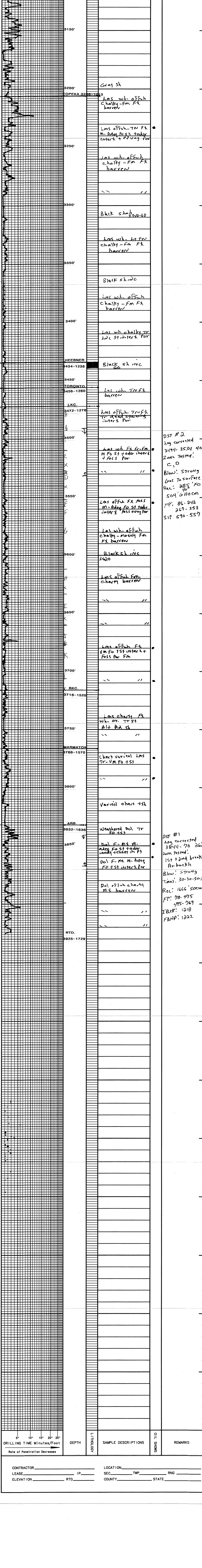
FORMATION TOPS	LOG	SAMPLES
ANY	1441-86, 855	1539-80, 857
TOPEKA	3240	3208
HEEBNER	3438-1240	3434-1238
TOBACCO	3457-1261	3456-1260
LKC	3474-1278	3472-1276
BKC	3718-1522	3716-1520
MARMATON	3768-1572	3766-1570
ARB	3835-1638	3832-1636
RTD	3928-1732	3925-1729

ELEVATIONS
 KB 2198'
 DF: 2191'
 Measurements are All From KB
 CASING SURFACE @ 2225'
 PRODUCTION ELECTRICAL SURVEYS STACK/MICRO

REMARKS
 All parties recommended that pipe be set to test this well. The following zones should be of interest Arbuck, Marmaton, and C zone in the LKC and the 30' zone in the Topeka. The E zone and Plattsmouth might be considered before abandoning, respectfully submitted
 J. Green

LEGEND

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CONTRACTOR _____ LOCATION _____
 LEASE _____ IP _____ SEC. _____ TWP _____ RNG _____
 ELEVATION _____ RTD _____ COUNTY _____ STATE _____

LOG

SWIFT Services, Inc.

DATE 9/15/21 PAGE NO.

CUSTOMER Castle Resources	WELL NO. # 2	LEASE Pfeifer	JOB TYPE Surf	TICKET NO. 35240
------------------------------	-----------------	------------------	------------------	---------------------

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	1900							ON LOCATION
								8 5/8 RTO - 824
	2030							BREAK Circ on Bottom pump wire SPACER
		5	10			200		START CMT - 150 SK @ 14.7 ppm
		5	0			200		END 200 CMT - START Disp
		5	36			200		END Disp
		5	13			350		Shut in
								Circulated 30 SK CMT
								JOB Complete
								THANKS DAVID, AUSTIN & JOHN

SWIFT Services, Inc.

DATE	9/20/21	PAGE NO.	3
TICKET NO.	35243		

CUSTOMER		WELL NO.		LEASE		JOB TYPE		DESCRIPTION OF OPERATION AND MATERIALS
CASTLE Res.		# 2		PFEIFER		TOP TO BTM Ls		
CHART NO.	TIME	RATE (BPM)	VOLUME (BBL) (GAL)	PUMPS		PRESSURE (PSI)		
				T	C	TUBING	CASING	
	1730							ON LOCATION
								5 1/2 csg
								RTO - 3925
								TOTAL PIPE - 3915
								SHOE JT. 26'
								CENTRALIZERS - 1, 3, 5, 7, 9, 10, 11, 13, 15
								BASKETS - 1, 45, 88, 101
	2015							START Running Csg
	2230							Break Circ on Bottom
	2300	2.5	8			0		plug RAT HOLE - 30 sx
		5	12			350		Pump MUD FLUSH - 500 GAL
		5	20			350		Pump KCL SEALER
		7	6			350		START CMT - 300 sx @ 11.2 rpm
		7	165			500		RAISE WGT TO 14.5 For 140 sx
	2340	5	200			400		END CMT
								Drop Plug - WASH PEL
	2345		0			200		START Disp
			80			800		Circ CMT
	2400		95			1000/1500		LAND plug @ 1500 #
								RELEASE Psi - Dry
								Circulated 25 sx CMT
								JOB COMPLETE
								THANKS
								DAVID, AUSTIN, & JOHN