

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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Form	ACO1 - Well Completion
Operator	Reilly Oil Company, Inc.
Well Name	JUDITH 1-6
Doc ID	1405146

Tops

Name	Top	Datum
Top Anhydrite	1992	+ 381
Base Anhydrute	2024	+ 349
Topeka	3458	- 1085
Heebner Sh	3673	- 1300
Toronto	3696	- 1323
Lansing	3713	- 1340
BKC	3947	- 1574
RTD	4020	- 1647
LTD	4021	- 1648

Scale 1:240 Imperial

Well Name: JUDITH 1-6
Surface Location: NE SW SW SE Sec. 6 - 11S - 24W
Bottom Location:
API: 15-195-23036
License Number: 32686
Spud Date: 12/11/2017 Time: 11:45 AM
Region: TREGO COUNTY
Drilling Completed: 12/19/2017 Time: 11:27 AM
Surface Coordinates: 629' FSL & 2294' FEL
Bottom Hole Coordinates:
Ground Elevation: 2364.00ft
K.B. Elevation: 2371.00ft
Logged Interval: 2250.00ft To: 4020.00ft
Total Depth: 4020.00ft
Formation: LANSING - KANSAS CITY
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

OPERATOR

Company: REILLY OIL COMPANY, INC.
Address: P. O. BOX 277
WAKEENEY, KS 67672
Contact Geologist: DUSTY RHOADES
Contact Phone Nbr: (785) 694-3880
Well Name: JUDITH 1-6
Location: NE SW SW SE Sec. 6 - 11S - 24W
API: 15-195-23036
Pool: Field: TIDBALL NOWTHEAST
State: KANSAS Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -100-0257472
Latitude: 39.1191561
N/S Co-ord: 629' FSL
E/W Co-ord: 2294' FEL

LOGGED BY



Company: BIG CREEK CONSULTING, INC.
Address: 1909 MAPLE
ELLIS, KS 67637
Phone Nbr: (785) 259-3737
Logged By: GEOLOGIST Name: JEFF LAWLER

CONTRACTOR

Contractor: STP DRILLING, LLC
Rig #: 1
Rig Type: MUD ROTARY
Spud Date: 12/11/2017 Time: 11:45 AM
TD Date: 12/19/2017 Time: 11:27 AM
Rig Release: 12/20/2017 Time: 8:00 AM

ELEVATIONS

K.B. Elevation: 2371.00ft Ground Elevation: 2364.00ft
K.B. to Ground: 7.00ft

NOTES

DUE TO A LACK OF ECONOMICAL RECOVERY ON ANY OF THE SEVEN DRILL STEM TESTS IT WAS DETERMINED TO PLUG & ABANDON THE JUDITH #1-6.

RESPECTFULLY SUBMITTED,
JEFF LAWLER

WELL COMPARISON SHEET

FORMATION	P&A 12-86																			
	GEAR PETROLEUM CO., INC.				ABERCROMBIE DRILLING, INC.				REILLY OIL CO., INC.				REILLY OIL CO., INC.							
	BERG 1-6				BERG #1				MARY #1-7				WENDY #1-7							
	JUDITH #1-6				52 N25W SE 6-1124				52 NW SE 6-11-24				SE 9W NE NE 7-11-24				SW NE NE NW 7-11-24			
MB	2373	GL	2364	KB	2376	2376	2376	KB	2355	2355	2355	KB	2375	2375	2375	KB	2348			
LOG TOPS	SAMPLE TOPS		LOG		LOG	SMP.	LOG	LOG	SMP.	COMP. CARD	LOG	SMP.	COMP. CARD	LOG	SMP.	COMP. CARD	LOG	SMP.		
DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	
ANDRUSIT TOP	1992	179	1987	984	1999	177		1991	104	+ 15	+ 20	1985	391	- 11	- 7	1986	382	- 1	+ 2	
BASE	2024	347	2026	349	2033	343	+ 4	+ 2	2035	320	+ 23	+ 25	2026	950	- 5	- 5	2006	342	- 5	+ 3
TOPUSA	3458	3087	3457	-1086	3463	-1087	+ 1	+ 1	3447	-1092	+ 5	+ 6	3447	-1071	- 14	- 15	3434	-1085	- 1	+ 0
HEBNER SHALE	3673	-1302	3675	-1304	3681	-1305	- 1	+ 1	3663	-1308	+ 2	+ 4	3655	-1289	- 11	- 15	3649	-1301	- 1	+ 3
FORNITO	3696	-1175	3700	-1179	3704	-1128	+ 1	- 1	3685	-1130	+ 5	+ 1	3689	-1111	- 12	- 18	3670	-1122	- 1	+ 7
LKC	3713	-1142	3715	-1144	3721	-1145	+ 1	+ 1	3702	-1147	+ 5	+ 3	3704	-1128	- 14	- 18	3689	-1141	- 1	+ 3
MC	3947	1575	3953	1582	3951	1575	- 1	- 7	3936	1581	+ 5	- 1	3942	1566	- 10	- 19	3929	1580	- 4	+ 2
PAWNEE					3956	-1480											4058	-1710		
FORESCOTT																	4126	-1778		
CHRONET																	4142	-1794		
MISSISSIPPIAN																	4238	-1890		
STD	4021	-1856	4020	-1856	3995	-1809			3971	-1816			4050	-1874	+ 21	+ 25	4128	-1980		

DST #1 LKC C 3730' - 3755'



Company: Reilly Oil Company, Inc
Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC - Rig 1
Elevation: 2365 GL
Field Name: Tdball NE
Pool: WILDCAT
Job Number: 93

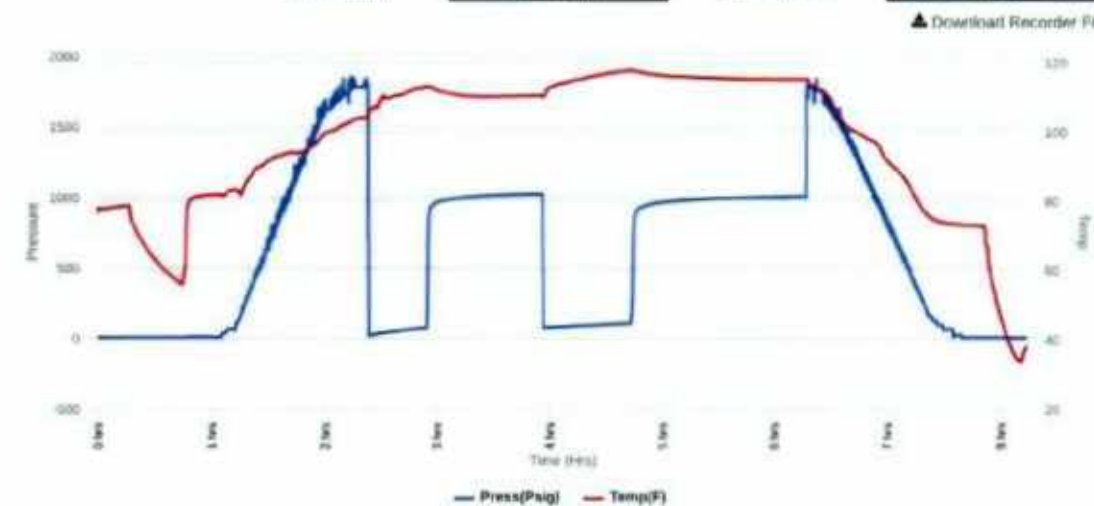
Tester: Michael Carroll
On-Site Contact: Jeff Lawler

DATE
December
15
2017

DST #1 Formation: LANS 'C' Test Interval: 3730 - 3755' Total Depth: 3755'
Time On: 19:15 12/15 Time Off: 03:15 12/18
Time On Bottom: 21:35 12/15 Time Off Bottom: 01:20 12/16

Mud Properties: Down Hole Makeup: Gas To Surface: NO
Tester Communication: Well Flow: NO Default View

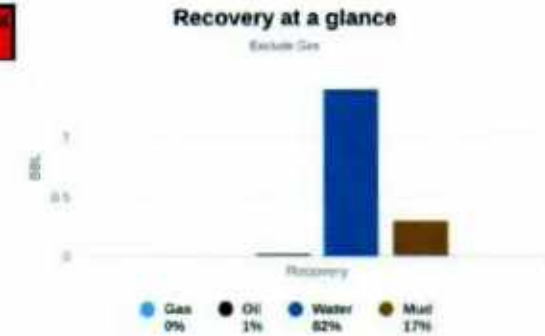
Electronic Volume Estimate: 198' 1st Close Minutes: 30 6" at 30 min 1st Close Minutes: 66 1" at 60 min 2nd Close Minutes: 45 5.2" at 45 min 2nd Close Minutes: 50 0" at 90 min



Recovered Feet: 199 BBLs: 1.70526 Description of Fluid: SLOCSLMCW Gas %: 0 Oil %: 1 Water %: 82 Mud %: 17

Total Recovered: 199 ft
Total Barrels Recovered: 1.70526

Initial Hydrostatic Pressure: 1776 PSI
Initial Flow: 16 to 72 PSI
Initial Closed in Pressure: 1016 PSI
Final Flow Pressure: 74 to 105 PSI
Final Closed in Pressure: 1000 PSI
Final Hydrostatic Pressure: 1773 PSI
Temperature: 118 °F
Pressure Change Initial Close / Final Close: 1.6 %



REMARKS:
TOOL SAMPLE: 5% OIL 70% WATER 25% MUD
IFP: 1/4" BLOW INCREASING TO 6" IN 30 MINUTES
ISIP: WEAK SURFACE BLOW BACK
FFP: WSB INCREASING TO 6 1/4" IN 45 MINUTES
FSIP: NO BLOW BACK
Ph: 7
RW: .28 @ 30 degrees F
Chlorides: 44000 ppm

Estimated Daily Production



Company: Reilly Oil Company, Inc
Lease: Judith #1-6

Tester: Michael Carroll
 On-Site Contact: Jeff Lawler

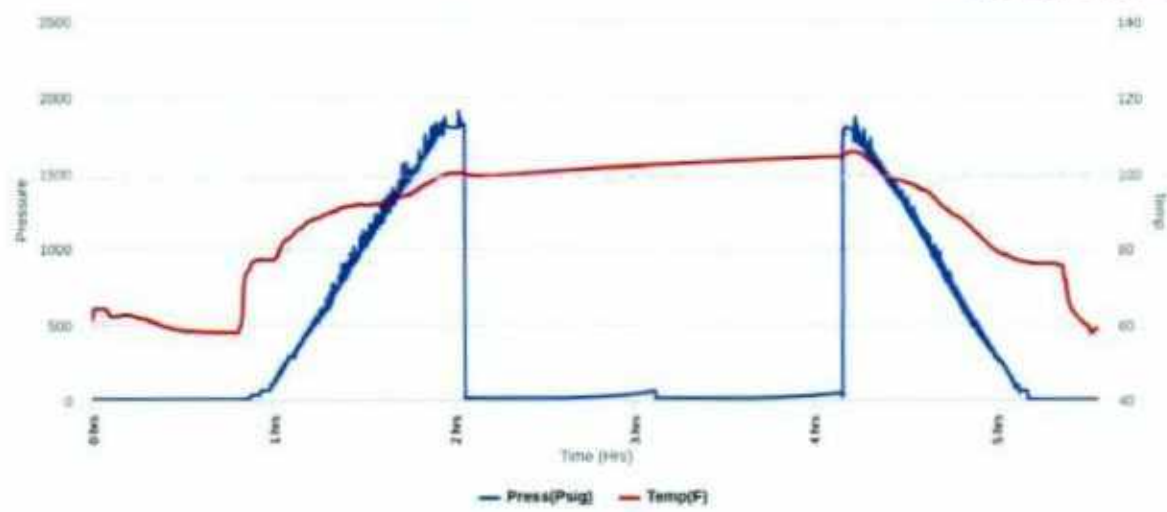
SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE December 16 2017	DST #2	Formation: LANS 'D'	Test Interval: 3755 - 3780'	Total Depth: 3780'
	Time On: 11:25 12/16 Time On Bottom: 13:23 12/16	Time Off: 16:50 12/16 Time Off Bottom: 15:23 12/16		

Mud Properties
Down Hole Makeup
Gas To Surface: NO
Well Flow: NO
Tester Communication
Default View

Electronic Volume Estimate: g	1st Open Minutes: 30 .3" at 30 min	1st Close Minutes: 30 0" at 30 min	2nd Open Minutes: 30 0" at 30 min	2nd Close Minutes: 30 0" at 30 min
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[Download Recorder File](#)

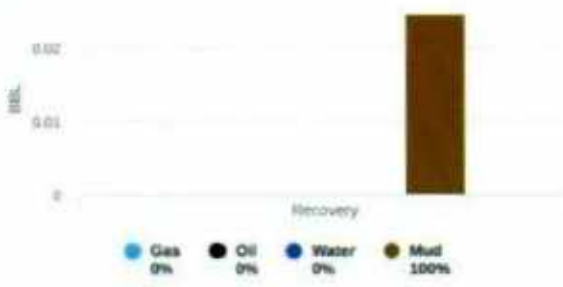


Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
5	0.0246	M	0	0	0	100

Total Recovered: 5 ft
 Total Barrels Recovered: 0.0246

Initial Hydrostatic Pressure	1802	PSI
Initial Flow	13 to 13	PSI
Initial Closed in Pressure	61	PSI
Final Flow Pressure	14 to 14	PSI
Final Closed in Pressure	49	PSI
Final Hydrostatic Pressure	1796	PSI
Temperature	105	°F
Pressure Change Initial Close / Final Close	19.9	%

Recovery at a glance
 Exclude Gas



REMARKS:
 TOOL SAMPLE: 2% OIL 98% MUD

IFP: WSB-INCREASING TO 1/4" IN 30 MINUTES
 ISIP: NO BLOW BACK
 FFP: NO BLOW-NO BUILD
 FSIP: NO BLOW BACK

Estimated Daily Production



Company: Reilly Oil Company, Inc
Lease: Judith #1-6

Tester: Michael Carroll
 On-Site Contact: Jeff Lawler

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2305 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

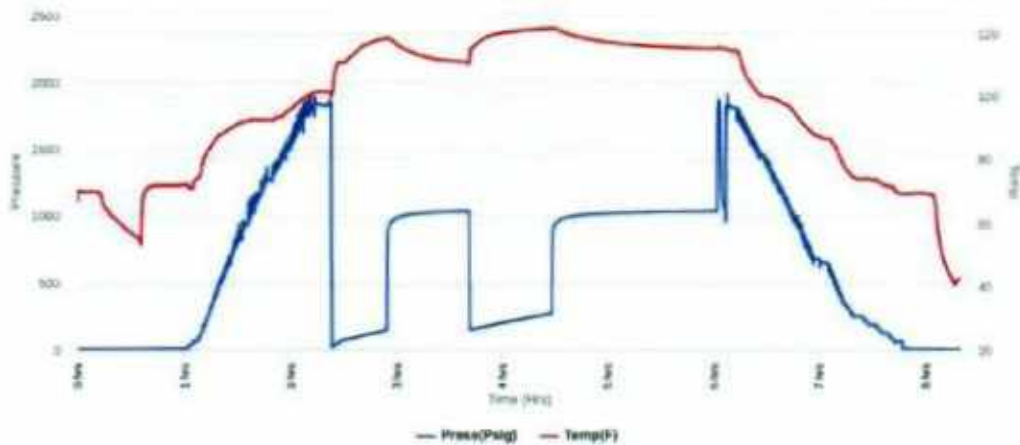
DATE
 December
16
 2017

DST #3 Formation: LANS E&F Test Interval: 3776 - 3808' Total Depth: 3808'
 Time On: 23:35 12/16 Time Off: 07:45 12/17
 Time On Bottom: 01:55 12/17 Time Off Bottom: 05:25 12/17

Mud Properties Down Hole Makeup Gas To Surface - NO
 Tester Communication Well Flow - NO Default View

Electronic Volume Estimate: 567' 1st Open: Minutes: 30 22' at 30 min
 1st Close: Minutes: 45 0' at 45 min
 2nd Open: Minutes: 45 30' at 45 min
 2nd Close: Minutes: 30 0' at 30 min

Download Recorder File



Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Est	BBLs					
176	2.50448	SLMCW	0	0	86	14
384	4.33781	SLMCW	0	0	96	4

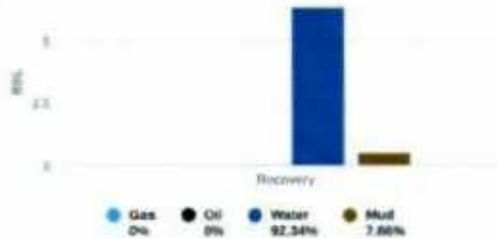
Total Recovered: 560 ft
 Total Barrels Recovered: 6.84229

Recovery at a glance

Recovery at a glance

Exclude Gas

Initial Hydrostatic Pressure	1823	PSI
Initial Flow	18 to 149	PSI
Initial Closed in Pressure	1034	PSI
Final Flow Pressure	148 to 273	PSI
Final Closed in Pressure	1034	PSI
Final Hydrostatic Pressure	1805	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	0.0	%



REMARKS:

TOOL SAMPLE: 100% WATER

IFP: 1/4" BLOW-INCREASING TO BOB IN 15 MINUTES 15 SECONDS
 ISIP: NO BLOW BACK
 FFP: WSB-INCREASING TO BOB IN 17 MINUTES 30 SECONDS
 FSIP: NO BLOW BACK

TRACE OF OIL IN TOP 176' OF RECOVERY >1% OIL

Pt: 8

RW: .3 @ 45 degrees F

Chlorides: 49000 ppm

Forecasted Daily Production



Company: Reilly Oil Company, Inc

Lease: Judith #1-6

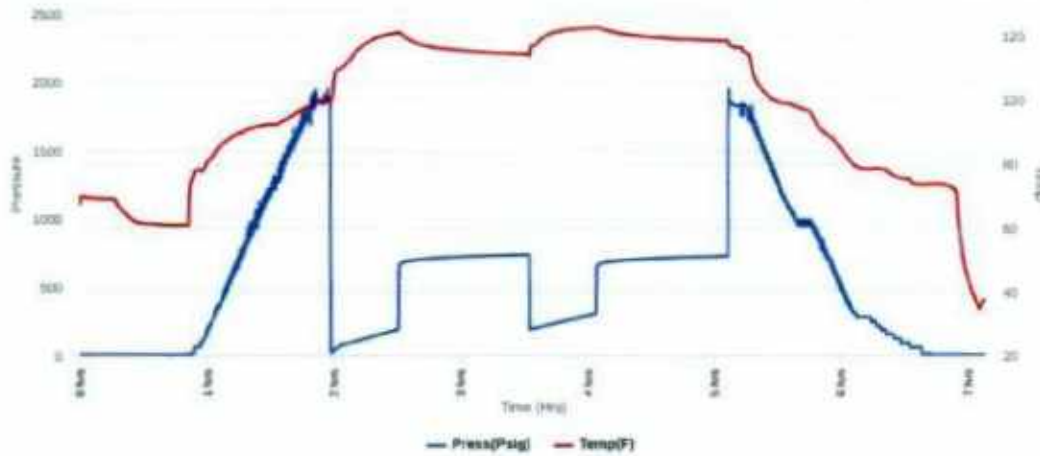
Tester: Michael Carroll
On-Site Contact: Jeff Lawler

SEC: 6 TWN: 11S RND: 24W
County: TREGG
State: Kansas
Drilling Contractor: STP Drilling, LLC - Rig 1
Elevation: 2365 GL
Field Name: Tirball NE
Pool: WLDCA7
Job Number: 93

DATE December 17 2017	DST #4	Formation: LANSKC H	Test Interval: 3828 - 3860'	Total Depth: 3860'
		Time On: 15:25 12/17 Time On Bottom: 18:18 12/17	Time Off: 23:20 12/17 Time Off Bottom: 21:18 12/17	
Mud Properties	Down Hole Makeup	Gas In Surface: 0%	Water Flow: 0%	Default View
	Tester Communication			

Electronic Volume Estimate: 628'	1st Open Minutes: 30 30.1' at 30 min	1st Close Minutes: 60 0' at 60 min	2nd Open Minutes: 30 26.8' at 30 min	2nd Close Minutes: 60 0' at 60 min
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[Download Recorder File](#)



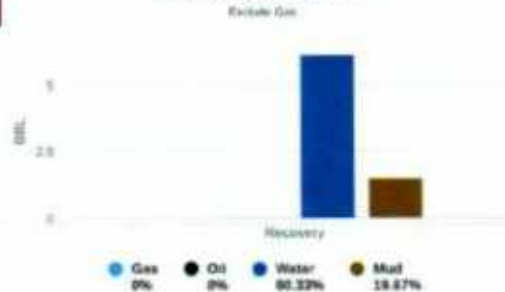
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLS					
113	1.60799	HMCW	0	0	50	50
126	1.79298	MCW	0	0	71	29
373	4.18128	SLMCW	0	0	96	4

Total Recovered: 612 ft
Total Barrels Recovered: 7.58225

Initial Hydrostatic Pressure	1839	PSI
Initial Flow	18 to 187	PSI
Initial Closed in Pressure	734	PSI
Final Flow Pressure	189 to 303	PSI
Final Closed in Pressure	725	PSI
Final Hydrostatic Pressure	1824	PSI
Temperature	123	°F

Pressure Change Initial Close / Final Close: 1.1 %

Recovery at a glance



REMARKS:
TOOL SAMPLE: 98% WATER 2% MUD WITH A TRACE OF OIL

IFP: 1/2" BLOW-INCREASING TO BOB IN 10 MINUTES
ISIP: NO BLOW BACK
FFP: 1/4" BLOW-INCREASING TO BOB IN 12 MINUTES 45 SECONDS
FSIP: NO BLOW BACK

Ph: 7

RW: .23 @ 60 degrees F

Chlorides: 38000 ppm

ROCK TYPES

	Lmst fw7> shale, gm		shale, gry		Shblk shale, red		Arg/Shale
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ACCESSORIES

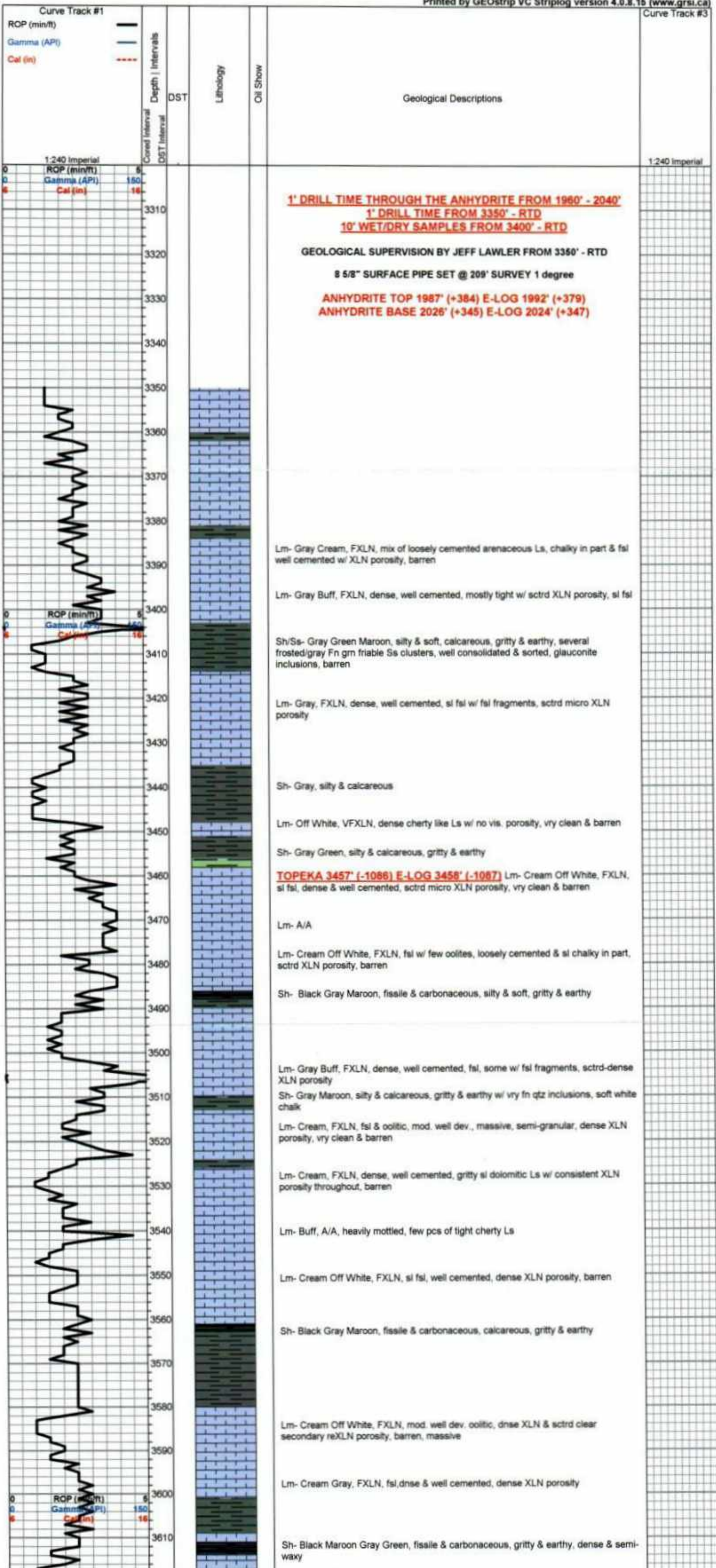
STRINGER
Dolomite

OTHER SYMBOLS

- MISC
- Daily Report
 - Digital Photo
 - Document
 - Folder
 - Link
 - Vertical Log File
 - Horizontal Log File
 - Core Log File
 - Drill Cuttings Rpt

- DST
- DST Int
 - DST alt

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)



211 1717: several pcs of tan silty fresh bedded cryptoXLN cherty cherty Ls

Lm- Cream Off White, FXLN, oolitic/sil oolitic, massive, well dev. w/ dense XLN & clear secondary reXLN porosity, barren

Lm- Cream Buff, FXLN, fsl w/ fusulinids, dense XLN porosity, barren

Lm- Cream, FXLN, mod. well dev., oolitic, dense XLN & clear replacement secondary reXLN porosity, barren, much soft white chalk

Lm- Tan, VF-FXLN, dense, vry well cemented, mottled, sil fsl, sctrd micro XLN porosity, barren

HEEBNER 3675' (-1304) E-LOG 3673' (-1302) Sh- Black Gray Maroon, fissile & carbonaceous, silty, earthy

TORONTO 3700' (-1329) E-LOG 3696' (-1325) Lm/Chert- Off White, fxl, sil & oolitic, mod. well dev. w/ sctrd fn ppt & XLN inter fsl porosity, some clear reXLN & White Buff, fsl fresh bedded cryptoXLN chert, all barren

LKC 3715' (-1344) E-LOG 3713' (-1342) Lm- Cream Off White, FXLN, fsl & sil oolitic, poorly dev. w/ sctrd XLN & secondary clear reXLN porosity, several pcs of tight cherty Ls, much soft white chalk, vry clean & barren

Lm- Cream Off White, VF-FXLN, sil fsl, mostly tight w/ sctrd micro XLN porosity, chalk A/A

Lm- Cream Off White, FXLN, fsl & sil oolitic, mod. well dev. w/ sctrd XLN & fn ppt inter fsl/oolite porosity, some loosely cemented & chalky in part, SCTRDRK STN, GSY FR O, WK ODR

Lm- Off White, VF-FXLN, dense, sil fsl, loosely cemented & chalky in part w/ sctrd XLN porosity, mostly barren

Lm- White Off White, VF-FXLN, sil fsl, poorly dev. & mostly tight, few w/ sctrd XLN & vry fn ppt porosity, few pcs sil fsl, FEW PCS W/ LT RESIDUAL STN, NSFO, NO ODR, (>10% of tray) mostly with barren porosity & much soft white chalk

Lm- Off White, VFXLN, dense, well cemented, tight w/ sctrd micro XLN porosity, few pcs of buff FXLN, sil fsl, poorly dev. w/ sctrd XLN porosity, all barren

Sh- Black Gray Maroon, dense & waxy, calcareous, gritty & earthy
Lm/Dol/Chert- Mix of cream/clear VFXLN dolomite w/ consistent micro XLN porosity throughout, SCTRDRK (POSSIBLE DEAD OIL STN) IN CLEAR DOL., TR FO, NO ODR, & white/semi-translucent fresh bedded cryptoXLN chert, FEW PCS W/ GLOBULES OF LIVE OIL ALONG EDGES (possible fracturing??), several pcs of sil fsl, mod dev. white Ls w/ sctrd ppt & XLN porosity, SCTRDRK STN, TR FO, NO ODR

Lm- Cream Off White, VF-FXLN, dense, well cemented, poorly dev. & sil fsl, sctrd micro XLN & XLN porosity, vry clean & barren, some soft white chalk

Lm- Cream Off White, VF-FXLN, dense, well cemented, poorly dev. & mostly tight w/ rare sctrd XLN porosity, some white chalk, all barren

Lm- A/A w/ Buff FXLN, sil fsl, tight w/ rare sctrd XLN porosity, barren

Sh- Black Gray Green, fissile & carbonaceous, gummy wash

Lm- Off White, F-MED XLN, fsl & sil oolitic, mod. dev. w/ sctrd inter fsl ppt & XLN porosity, SCTRDRK STN, SL TR FO, GD ODR, OIL SHEEN ON TOP OF WET CUP

Lm- Off White Buff, FXLN, dense, well cemented, sil fsl, poorly dev. w/ sctrd XLN porosity, barren, some soft white chalk

Lm- Tan Cream, VF-FXLN, dense, well cemented, poorly dev. & tight w/ mostly consistent microXLN porosity, LT BRWN TR STN, NSFO, NO ODR

Lm- Cream, FXLN, fsl & oolitic, mod. well dev. w/ sctrd to dense ppt inter oolite & XLN porosity, BLK SCTRDRK-SUB SAT STN (DEAD OIL?), SFO, TR ODR

Lm- Cream Off White, FXLN, dense, well cemented, sctrd XLN porosity, clean & barren, much soft white chalk

Sh- Black Gray Maroon, fissile & carbonaceous, abundant argillaceous clumps, gritty & earthy

Lm- Tan, FXLN, fsl & oolitic, mod. well dev. w/ sctrd ppt inter oolite & fsl porosity, SCTRDRK-SUB SAT DRK STN, TR FO, NO ODR

Sh- Black Gray, fissile & carbonaceous, dense & waxy

Lm- White Off White, VF-FXLN, dense, well cemented & fairly tight w/ sctrd micro XLN & XLN porosity, vry clean & barren, some soft white chalk, two pcs of salmon colored densely packed oolitic fresh bedded chert w/ vis. porosity

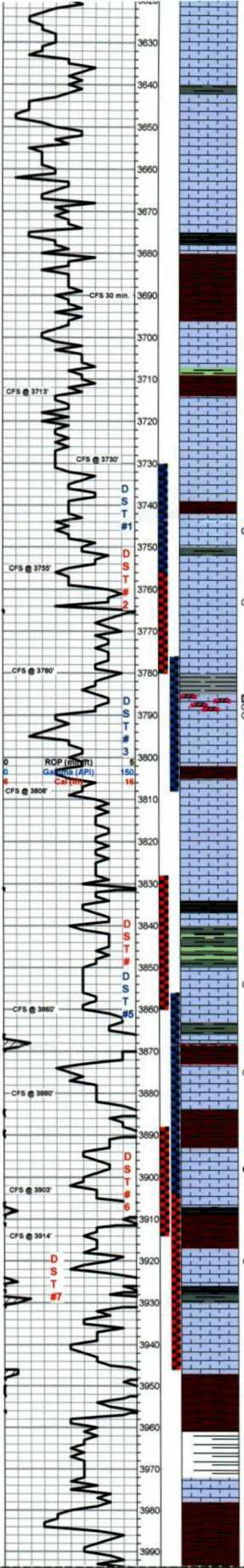
Lm- White, VFXLN, dnse, tight, densely packed oolitic Ls, w/ min. vis. porosity, vry clean & barren, some soft white chalk

BKC 3953' (-1582) E-LOG 3947' (-1576) Sh- Maroon Gray Green, gritty & earthy, soft & silty, dense & waxy

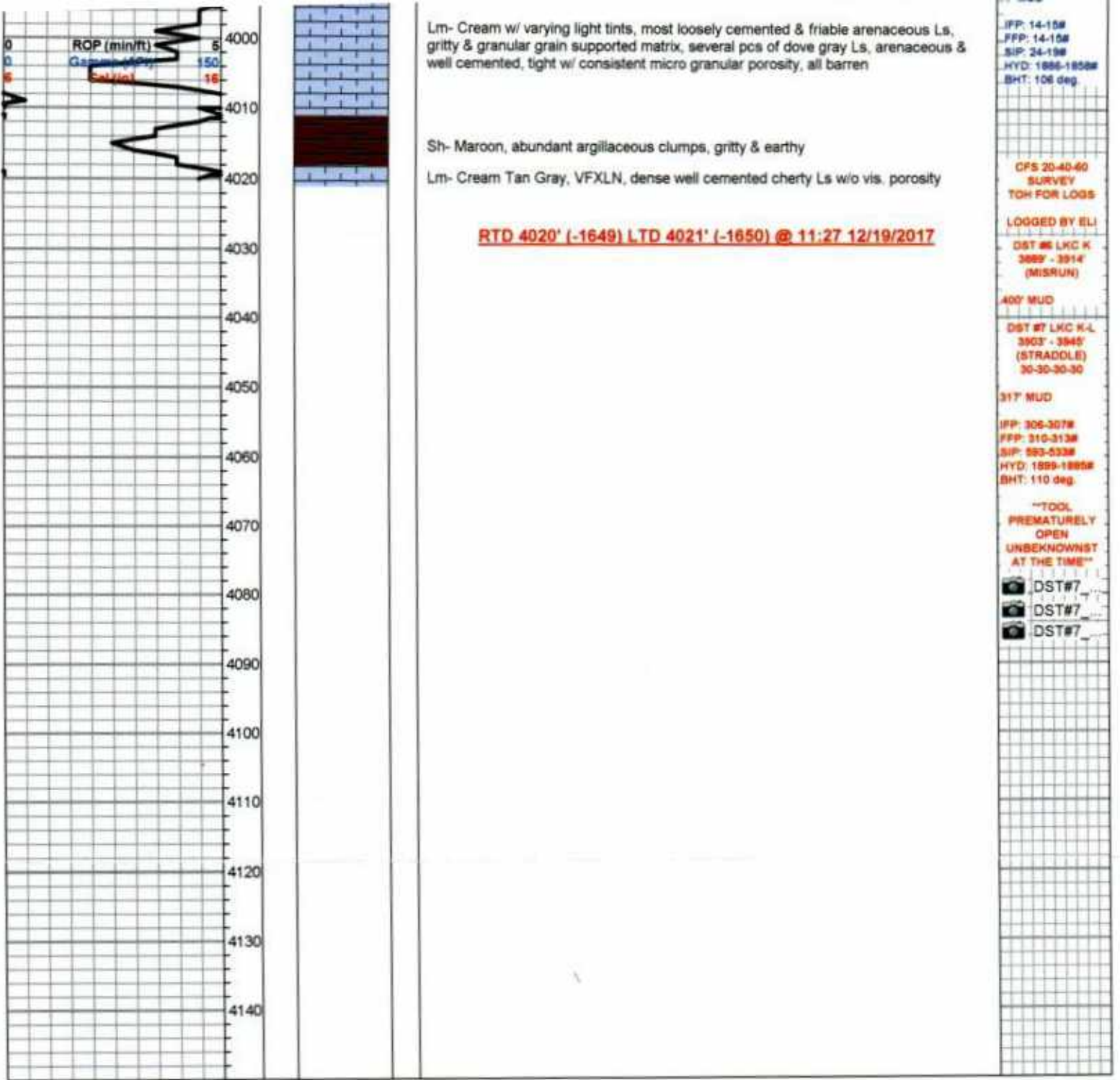
Sh- A/A w/ argillaceous clumps & sandy shale

Lm- Cream Buff, FXLN, dense, some sil chalky in part, fsl, well cemented, mostly tight w/ poor vis. porosity, some soft white chalk

Sh- Red Maroon Gray, arenaceous, gritty & earthy, argillaceous clumps, calcareous



SURVEY 1 3/4 STRAP+1.87
DST #1 LKC C 3730' - 3755' 30-60-45-90
199' SLOCBLMCW (1% O, 82% W, 17% N)
IFP: 16-72# FFP: 74-105# SIP: 1016-1000# HYD: 1776-1773# BHT: 118 deg
SHORT TRIP CTCH 1 HR.
DST #2 LKC D 3755' - 3780' 30-30-30-30
5' MUD
IFP: 13-13# FFP: 14-14# SIP: 61-49# HYD: 1802-1796# BHT: 105 deg
C ZONE
D ZONE
E ZONE
E-2.jpg
DST #3 LKC E-F 3776' - 3808' 30-45-45-90
560' TOTAL FLUID 176' SLMCW (86% W, 14% M) 384' SLMCW (96% W, 4% M)
IFP: 18-148# FFP: 148-273# SIP: 1034-1034# BHT: 122 deg CHLOR: 49K Rwr: 3 @ 45 deg
H ZONE
DST #4
I ZONE.jpg
J ZONE.jpg
K ZONE
DST #4 LKC H 3826' - 3890' 30-60-30-60
612' TOTAL FLUID 113' HMCW (50% W, 50% M) 126' MCW (71% W, 29% M) 373' SL MCW (96% W, 2% M)
IFP: 18-187# FFP: 189-303# SIP: 734-725# HYD: 1829-1824# BHT: 123 deg CHLOR: 38# Rwr: 23 @ 60 deg
DST #5.jpg
DST #5...
DST #6.jpg
DST #6...
DST #5 LKC I - J 3856' - 3903' 30-30-30-30



C_ZONE.jpg

A001 1280x1024 2017/12/15 17:20:55 Unit: mm Magnification: 77.5 x 1



C_ZONE

D ZONE.jpg

A002 1280x1024 2017/12/16 08:15:58 Unit: mm Magnification: 77.5 x 1



D ZONE

E_ZONE.jpg

A003 1280x1024 2017/12/16 21:29:52 Unit: mm Magnification: 77.5 x 1



F_ZONE

E-2.jpg

A004 1280x1024 2017/12/16 22:05:24 Unit: mm Magnification: 77.5 x 1



F_ZONE

H ZONE.jpg

A006 1280x1024 2017/12/17 14:44:45 Unit: mm Magnification: 77.5 x 1



H ZONE

DST #4_CHRT.jpg



Company: Reilly Oil Company
 Inc
 Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC -
 Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
 17
 2017

DST #4 Formation: LANS/KC 'H'
 Test Interval: 3828 - 3860' Total Depth: 3860'
 Time On: 16:25 12/17 Time Off: 23:20 12/17
 Time On Bottom: 18:18 12/17 Time Off Bottom: 21:18 12/17

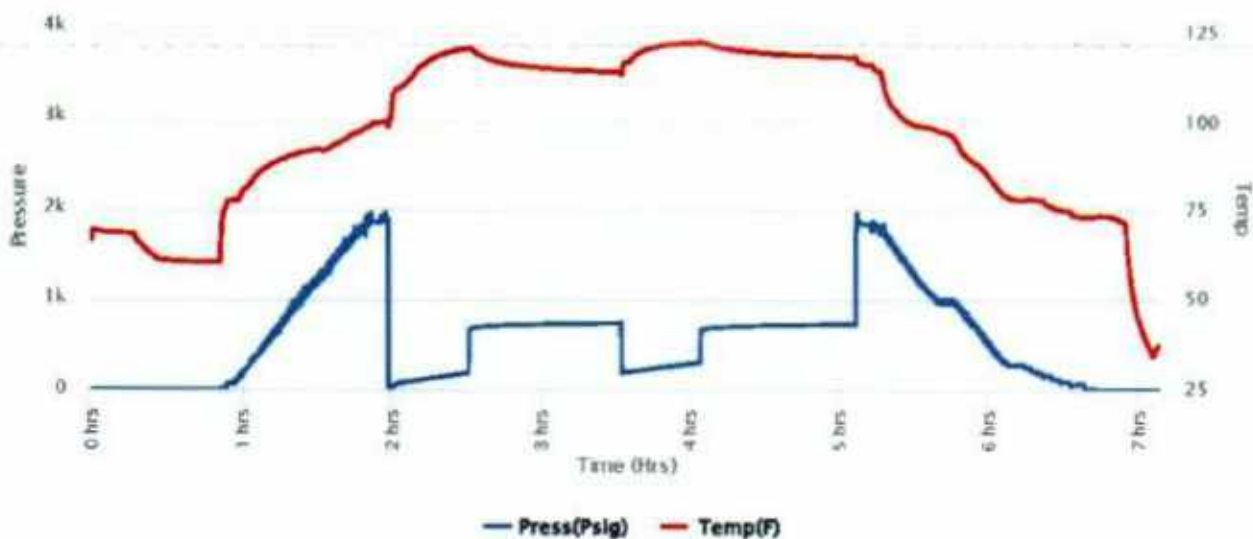
Electronic Volume
 Estimate:
 628'

1st Open
 Minutes: 30
 30.1" at 30 min

1st Close
 Minutes: 60
 0" at 60 min

2nd Open
 Minutes: 30
 26.8" at 30 min

2nd Close
 Minutes: 60
 0" at 60 min



I ZONE.jpg

A007 1280x1024 2017/12/18 04:58:00 Unit: mm Magnification: 77.5 x 1



I ZONE

J ZONE.jpg



J ZONE

K ZONE.jpg



K ZONE

DST #5.jpg



Company: Reilly Oil Company Inc
Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC - Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
18
2017

DST #5 Formation: LANS/KC I&J Test interval: 3856 - 3903' Total Depth: 3903'
Time On: 09:05 12/18 Time Off: 14:55 12/18
Time On Bottom: 11:11 12/18 Time Off Bottom: 13:11 12/18

Recovered
Foot BBLs
1 0.00492

Description of Fluid **Gas %** **Oil %** **Water %** **Mud %**
M 0 0 0 100

Total Recovered: 1 ft
Total Barrels Recovered: 0.00492

Reversed Out
NO

Recovery at a glance

Initial Hydrostatic Pressure 1886 PSI
Initial Flow 14 to 15 PSI
Initial Closed in Pressure 24 PSI
Final Flow Pressure 14 to 15 PSI
Final Closed in Pressure 19 PSI
Final Hydrostatic Pressure 1858 PSI
Temperature 106 °F

Pressure Change Initial
Close / Final Close 17.9 %





Company: Reilly Oil Company Inc
Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC - Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
18
2017

DST #6 Formation: LANS/KC 'K' Test Interval: 3889 - 3914' Total Depth: 3914'
Time On: 21:15 12/18 Time Off: 01:40 12/19
Time On Bottom: 23:25 12/18 Time Off Bottom: 23:45 12/18

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLS	M	0	0	0	100
400	4.56549					

Total Recovered: 400 ft
Total Barrels Recovered: 4.56549

Reversed Out
NO

Recovery at a glance

Initial Hydrostatic Pressure	1892	PSI
Initial Flow	0	PSI
Initial Closed in Pressure	0	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1885	PSI
Temperature	106	"F
Pressure Change Initial Close / Final Close	0.0	%

BH: 2.5
0



DST#6_CHRT.jpg



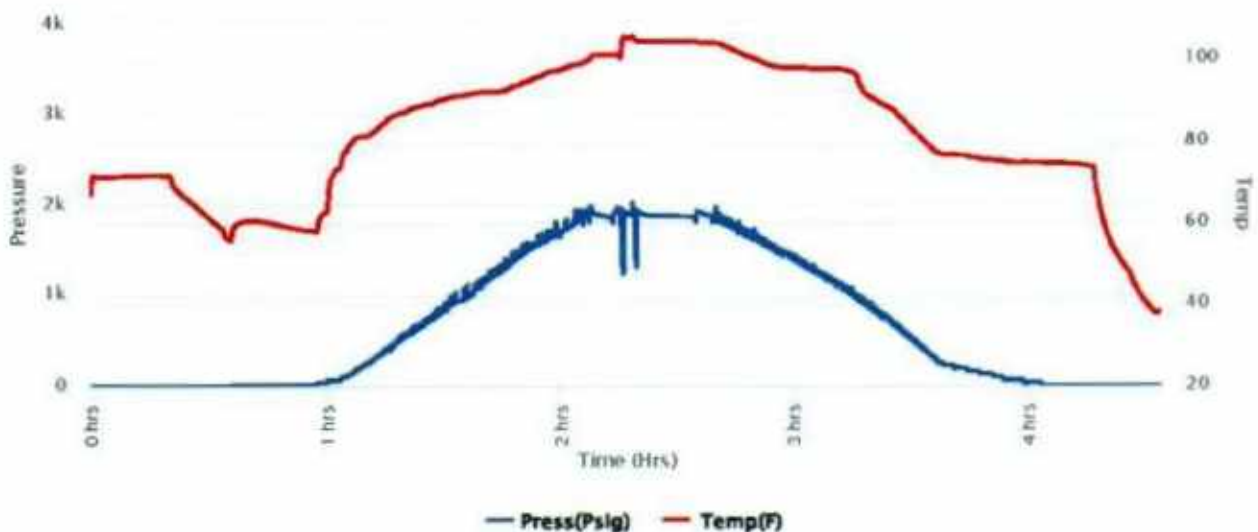
Company: Reilly Oil Company Inc
Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC - Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
18
2017

DST #6 Formation: LANS/KC 'K' Test Interval: 3889 - 3914' Total Depth: 3914'
Time On: 21:15 12/18 Time Off: 01:40 12/19
Time On Bottom: 23:25 12/18 Time Off Bottom: 23:45 12/18

Electronic Volume Estimate:	0'	1st Open Minutes: 5	1st Close N/A	2nd Open N/A	2nd Close N/A
		MISS RUN" at 5 min			



DST#7_REC.jpg



Company: Reilly Oil Company Inc
Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC - Rig 1
Elevation: 2366 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
19
2017

DST #7 Formation: LANS/KC 'K'
Test interval: 3903 - 3945' Total Depth: 4021 LTD'
Time On: 18:50 12/19 Time Off: 01:33 12/20
Time On Bottom: 21:00 12/19 Time Off Bottom: 23:00 12/19

Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLS					
317	3.3844	M	0	0	0	100

Total Recovered: 317 ft
Total Barrels Recovered: 3.3844

Reversed Out
NO

Recovery at a glance

Initial Hydrostatic Pressure	1899	PSI
Initial Flow	306 to 307	PSI
Initial Closed in Pressure	593	PSI
Final Flow Pressure	310 to 313	PSI
Final Closed in Pressure	533	PSI
Final Hydrostatic Pressure	1885	PSI
Temperature	110	°F
Pressure Change Initial Close / Final Close	10.3	%



DST#7_CHRT.jpg



Company: Reilly Oil Company
Inc
Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC -
Rig 1
Elevation: 2366 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
19
2017

DST #7 Formation: LANS/KC 'K'
Test Interval: 3903 - 3945' Total Depth: 4021 LTD'
Time On: 18:50 12/19 Time Off: 01:33 12/20
Time On Bottom: 21:00 12/19 Time Off Bottom: 23:00 12/19

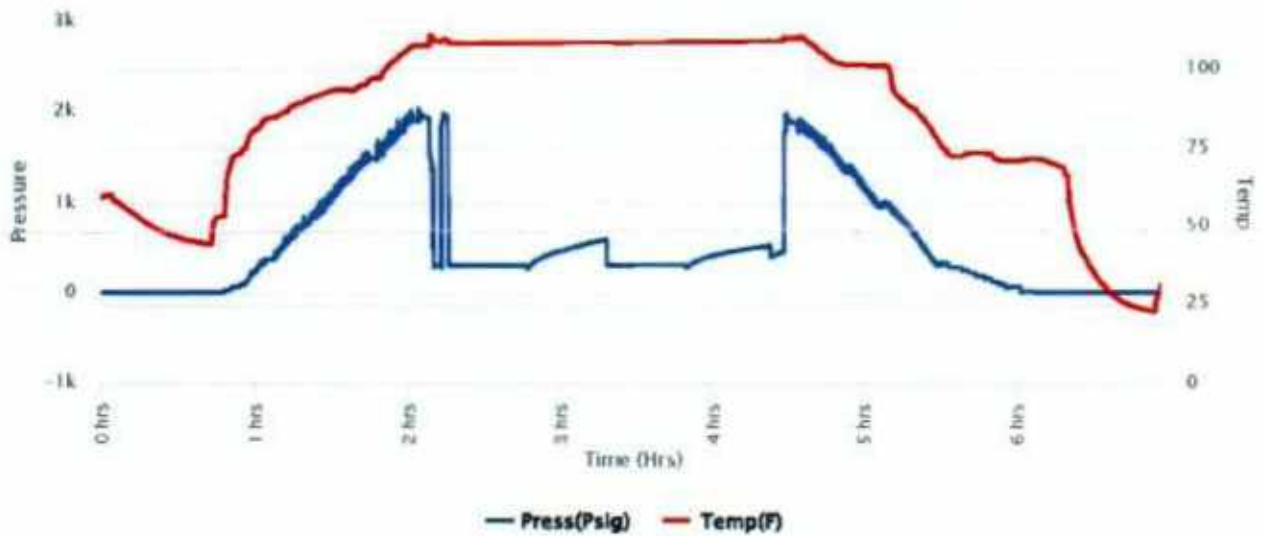
Electronic Volume
Estimate:
3'

1st Open
Minutes: 30
.1" at 30 min

1st Close
Minutes: 30
0" at 30 min

2nd Open
Minutes: 30
0" at 30 min

2nd Close
Minutes: 30
0" at 30 min



GLOBAL OIL FIELD SERVICES, LLC

3208

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT Russell

DATE <u>12-11-12</u>	SEC <u>6</u>	TWP. <u>11</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION <u>3:00pm</u>	JOB START	JOB FINISH <u>5:00pm</u>
LEASE <u>Jud. th</u>	WELL # <u>1-6</u>	LOCATION <u>Vada 12N 2E</u>			COUNTY <u>Rego</u>	STATE <u>Ks</u>	
OLD OR <u>NEW</u> (CIRCLE ONE)							

CONTRACTOR STP

TYPE OF JOB SURFACE

HOLE SIZE 8 5/8 T.D. 209

CASING SIZE 8 5/8 DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15

PERFS

DISPLACEMENT 12.3 bbls

EQUIPMENT

PUMP TRUCK CEMENTER Bill

417 HELPER Jason

BULK TRUCK DRIVER Chris

DRIVER

OWNER

CEMENT AMOUNT ORDERED 150 pk 6440 3% cc 290 bbl

COMMON @

POZMIX @

GEL @

CHLORIDE @

ASC @

HANDLING @

MILEAGE @

TOTAL

REMARKS:

Ran 5.575 8 5/8 net 209
Cent w/ 150 pk
pump plus w/ 12.3 bbls
Cent did circ.

CHARGE TO Reilly O. Co.

STREET P.O. Box 277

CITY Wheeler STATE Ks ZIP 67672

Global Oil Field Services, LLC
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE Corina

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE @ _____

MILEAGE @ _____

MANIFOLD @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

@ _____

@ _____

@ _____

@ _____

TOTAL _____

SALES TAX (If Any) _____

TOTAL CHARGES 2700

DISCOUNT _____ IF PAID IN 30 DAYS

GLOBAL OIL FIELD SERVICES, LLC

3213

REMIT TO 24 S. Lincoln
Russell, KS 67665

SERVICE POINT Russell

DATE <u>12-20-17</u>	SEC <u>6</u>	TWP. <u>11</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START	JOB FINISH <u>9:30 AM</u>
LEASE <u>Julith</u>	WELL # <u>1-6</u>	LOCATION <u>Node 7 1/2 E</u>			COUNTY	STATE <u>Ks</u>	
OLD OR NEW (CIRCLE ONE)							

CONTRACTOR STP

TYPE OF JOB Plug

HOLE SIZE _____ T.D. _____

CASING SIZE _____ DEPTH _____

TUBING SIZE _____ DEPTH _____

DRILL PIPE 4 1/2 _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS _____

DISPLACEMENT _____

EQUIPMENT

PUMP TRUCK # 417 CEMENTER Bill

BULK TRUCK # _____ HELPER Mark

BULK TRUCK # _____ DRIVER Bullet

BULK TRUCK # _____ DRIVER _____

OWNER _____

CEMENT AMOUNT ORDERED 2400# 6440 4 1/2" 60' to 110'

COMMON _____ @ _____

POZMIX _____ @ _____

GEL _____ @ _____

CHLORIDE _____ @ _____

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING _____ @ _____

MILEAGE _____ @ _____

TOTAL _____

REMARKS:

Jet Plug @ 2010 w/ 50' pipe

2nd Plug @ 1065 w/ 100' pipe

3rd Plug @ 260 w/ 50' pipe

4th Plug @ 40 w/ 10' pipe

Rigside 300#

CHARGE TO Reilly Oil

STREET P.O. Box 277

CITY Wichita STATE Ks ZIP 67672

Global Oil Field Services, LLC
You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____

SIGNATURE [Signature]

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____

EXTRA FOOTAGE _____ @ _____

MILEAGE _____ @ _____

MANIFOLD _____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

PLUG & FLOAT EQUIPMENT

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

TOTAL _____

SALES TAX (if Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS



Company: Reilly Oil Company, Inc
Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
15
 2017

DST #1 **Formation: Lans "C"** **Test Interval: 3730 - 3755'** **Total Depth: 3755'**
 Time On: 19:15 12/15 Time Off: 03:15 12/16
 Time On Bottom: 21:35 12/15 Time Off Bottom: 01:20 12/16

Recovered

Foot	BBLs
199	1.70526

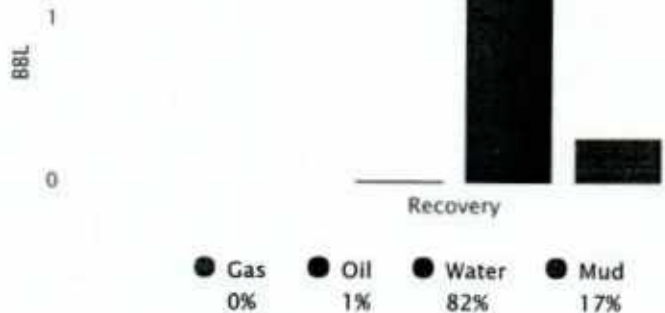
Description of Fluid	Gas %	Oil %	Water %	Mud %
SLOCSLMCW	0	1	82	17

Total Recovered: 199 ft
 Total Barrels Recovered: 1.70526

Reversed Out
 NO

Recovery at a glance

Initial Hydrostatic Pressure	1776	PSI
Initial Flow	16 to 72	PSI
Initial Closed in Pressure	1016	PSI
Final Flow Pressure	74 to 105	PSI
Final Closed in Pressure	1000	PSI
Final Hydrostatic Pressure	1773	PSI
Temperature	118	°F
Pressure Change Initial Close / Final Close	1.6	%





**Company: Reilly Oil Company,
Inc**

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC -
Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
15
2017

DST #1 Formation: Lans "C" Test Interval: 3730 - Total Depth: 3755'
3755'
Time On: 19:15 12/15 Time Off: 03:15 12/16
Time On Bottom: 21:35 12/15 Time Off Bottom: 01:20 12/16

REMARKS:

Initial Flow: 1/4 in. blow increasing to 6 ins. in 30 mins.
Initial Shut-in: Weak, surface blow back.
Final Flow: Weak, surface blow increasing to 6 1/4 ins. in 45 mins.
Final Shut-in: No blow back.

Tool Sample: 5% oil, 70% water, 25% mud

Ph: 7

RW: .28 @ 30 degrees F

Chlorides: 44,000 ppm



Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
15
 2017

DST #1 Formation: Lans "C" Test Interval: 3730 - 3755' Total Depth: 3755'

Time On: 19:15 12/15 Time Off: 03:15 12/16
 Time On Bottom: 21:35 12/15 Time Off Bottom: 01:20 12/16

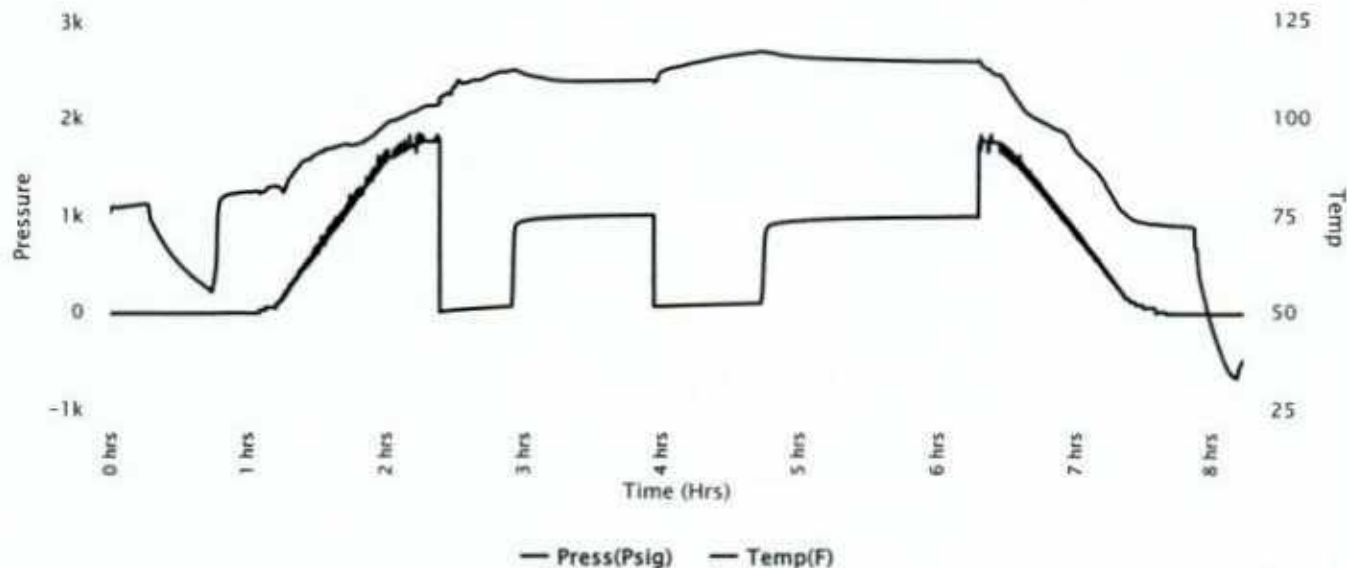
Electronic Volume Estimate:
 198'

1st Open
 Minutes: 30
 6" at 30 min

1st Close
 Minutes: 60
 .1" at 60 min

2nd Open
 Minutes: 45
 6.2" at 45 min

2nd Close
 Minutes: 90
 0" at 90 min





Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC - Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
15
2017

DST #1 **Formation: Lans "C"** **Test Interval: 3730 - 3755'** **Total Depth: 3755'**
Time On: 19:15 12/15 Time Off: 03:15 12/16
Time On Bottom: 21:35 12/15 Time Off Bottom: 01:20 12/16

Down Hole Makeup

Heads Up: 17.21 FT	Packer 1: 3725 FT
Drill Pipe: 3601.05 FT <i>ID-3 1/2</i>	Packer 2: 3730 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3717 FT
Collars: 121 FT <i>ID-2 1/4</i>	Bottom Recorder: 3735 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 25	Surface Choke: 1"
	Bottom Choke: 5/8"

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT
4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT
ID-3 1/2

Change Over: FT

Perforations: (below): 21 FT
4 1/2-FH



**Company: Reilly Oil Company,
Inc**

Lease: Judith #1-6

SEC: 6 TWN; 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC -
Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
15
2017

DST #1 **Formation: Lans "C"** **Test Interval: 3730 - 3755'** **Total Depth: 3755'**
Time On: 19:15 12/15 Time Off: 03:15 12/16
Time On Bottom: 21:35 12/15 Time Off Bottom: 01:20 12/16

Mud Properties

Mud Type: Chemical **Weight:** 9.0 **Viscosity:** 56 **Filtrate:** 6.4 **Chlorides:** 1,200 ppm



Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
16
 2017

DST #2 **Formation: Lans "D"** **Test Interval: 3755 - 3780'** **Total Depth: 3780'**

Time On: 11:25 12/16 Time Off: 16:50 12/16
 Time On Bottom: 13:23 12/16 Time Off Bottom: 15:23 12/16

Recovered

Foot	BBLs
5	0.0246

Description of Fluid	Gas %	Oil %	Water %	Mud %
M	0	0	0	100

Total Recovered: 5 ft
 Total Barrels Recovered: 0.0246

Reversed Out
 NO

Recovery at a glance

Initial Hydrostatic Pressure	1802	PSI	0.02
Initial Flow	13 to 13	PSI	0.01
Initial Closed in Pressure	61	PSI	
Final Flow Pressure	14 to 14	PSI	0
Final Closed in Pressure	49	PSI	
Final Hydrostatic Pressure	1796	PSI	
Temperature	105	°F	
Pressure Change Initial Close / Final Close	19.9	%	

BBL

Recovery

● Gas 0% ● Oil 0% ● Water 0% ● Mud 100%





Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC - Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
16
2017

DST #2 Formation: Lans "D" Test Interval: 3755 - 3780' Total Depth: 3780'

Time On: 11:25 12/16 Time Off: 16:50 12/16
Time On Bottom: 13:23 12/16 Time Off Bottom: 15:23 12/16

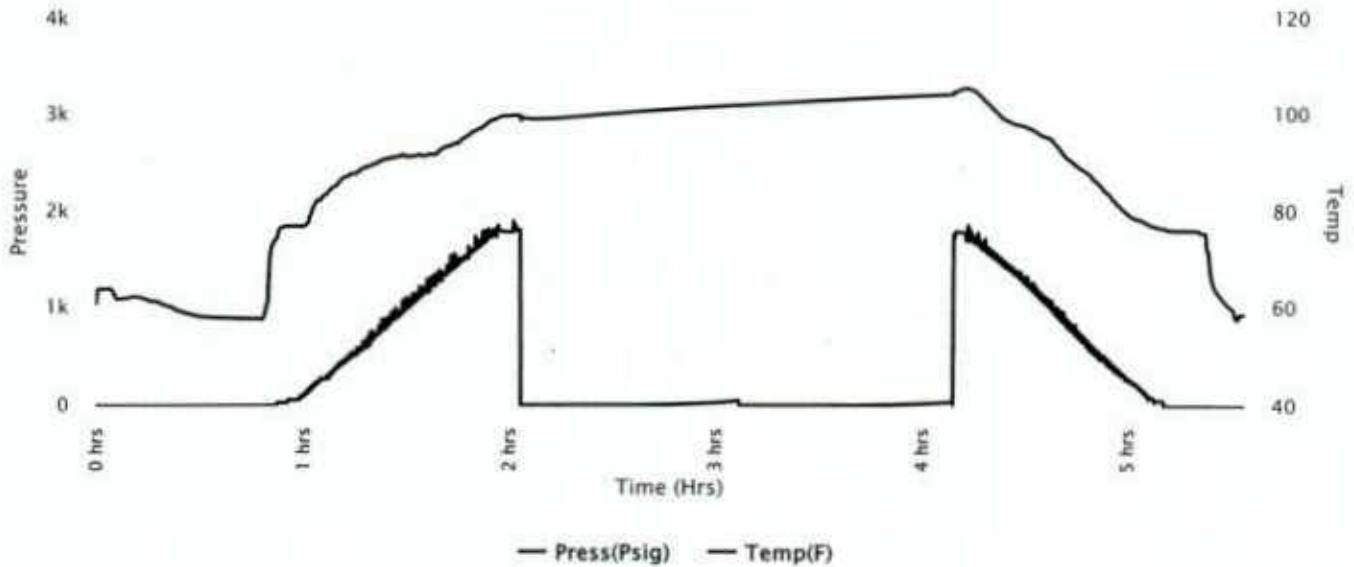
Electronic Volume Estimate:
9'

1st Open
Minutes: 30
.3" at 30 min

1st Close
Minutes: 30
0" at 30 min

2nd Open
Minutes: 30
0" at 30 min

2nd Close
Minutes: 30
0" at 30 min





**Company: Reilly Oil Company,
Inc**

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC -
 Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE December 16 2017
--

DST #2 Formation: Lans "D" Test Interval: 3755 - 3780' Total Depth: 3780'

Time On: 11:25 12/16 Time Off: 16:50 12/16
 Time On Bottom: 13:23 12/16 Time Off Bottom: 15:23 12/16

Down Hole Makeup

Heads Up: 23.54 FT	Packer 1: 3750 FT
Drill Pipe: 3632.38 FT <i>ID-3 1/2</i>	Packer 2: 3755 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3742 FT
Collars: 121 FT <i>ID-2 1/4</i>	Bottom Recorder: 3760 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 25	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 1/2</i>	
Change Over: FT	
Perforations: (below): 21 FT <i>4 1/2-FH</i>	



**Company: Reilly Oil Company,
Inc**

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC -
Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE December 16 2017
--

DST #2 Formation: Lans "D" Test Interval: 3755 - Total Depth: 3780'
3780'

Time On: 11:25 12/16 Time Off: 16:50 12/16
Time On Bottom: 13:23 12/16 Time Off Bottom: 15:23 12/16

Mud Properties

Mud Type: Chemical **Weight:** 9.1 **Viscosity:** 59 **Filtrate:** 7.2 **Chlorides:** 1,800 ppm



Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
16
 2017

DST #3 **Formation: Lans "E&F"** **Test Interval: 3776 - 3808'** **Total Depth: 3808'**
 Time On: 23:35 12/16 Time Off: 07:45 12/17
 Time On Bottom: 01:55 12/17 Time Off Bottom: 05:25 12/17

Recovered

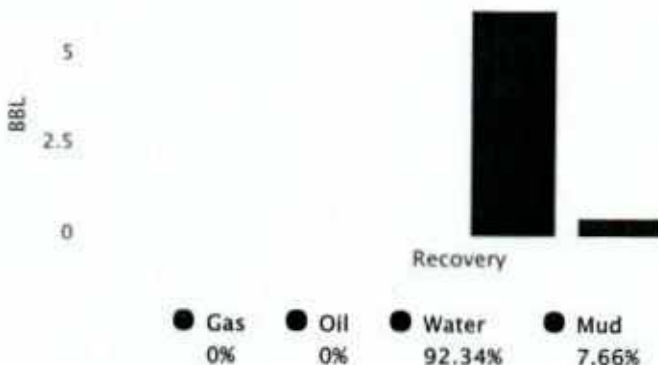
Foot	BBLS	Description of Fluid	Gas %	Oil %	Water %	Mud %
176	2.50448	SLMCW	0	0	86	14
384	4.33781	SLMCW	0	0	96	4

Total Recovered: 560 ft
 Total Barrels Recovered: 6.84229

Reversed Out
 NO

Initial Hydrostatic Pressure	1823	PSI
Initial Flow	18 to 149	PSI
Initial Closed in Pressure	1034	PSI
Final Flow Pressure	148 to 273	PSI
Final Closed in Pressure	1034	PSI
Final Hydrostatic Pressure	1805	PSI
Temperature	122	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance





**Company: Reilly Oil Company,
Inc**
Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC -
Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

<p>DATE December 16 2017</p>
--

DST #3	Formation: Lans "E&F"	Test Interval: 3776 - 3808'	Total Depth: 3808'
	Time On: 23:35 12/16	Time Off: 07:45 12/17	
	Time On Bottom: 01:55 12/17	Time Off Bottom: 05:25 12/17	

REMARKS:

Initial Flow: 1/4 in. blow increasing. BOB in 15 mins. 15 secs.
Initial Shut-in: No blow back.
Final Flow: Weak, surface blow increasing. BOB in 17 mins. 30 secs.
Final Shut-in: No blow back.

Tool Sample: 100% water

Trace of oil in top 176 ft. of recovery >1% oil

Ph: 8

RW: .3 @ 45 degrees F

Chlorides: 49,000 ppm



Company: Reilly Oil Company, Inc
Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
16
 2017

DST #3 **Formation: Lans "E&F"** **Test Interval: 3776 - 3808'** **Total Depth: 3808'**
 Time On: 23:35 12/16 Time Off: 07:45 12/17
 Time On Bottom: 01:55 12/17 Time Off Bottom: 05:25 12/17

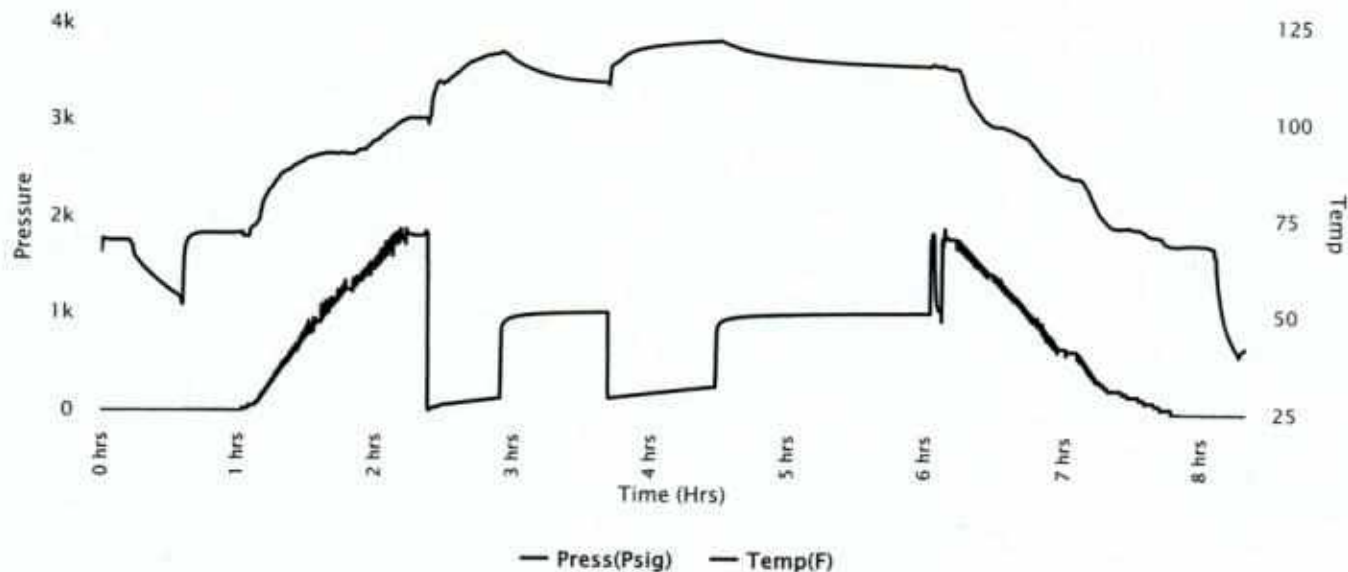
Electronic Volume Estimate:
 587'

1st Open
 Minutes: 30
 23" at 30 min

1st Close
 Minutes: 45
 0" at 45 min

2nd Open
 Minutes: 45
 30" at 45 min

2nd Close
 Minutes: 90
 0" at 90 min





**Company: Reilly Oil Company,
Inc**

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC -
 Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

<p>DATE December 16 2017</p>

DST #3	Formation: Lans "E&F"	Test Interval: 3776 - 3808'	Total Depth: 3808'
	Time On: 23:35 12/16	Time Off: 07:45 12/17	
	Time On Bottom: 01:55 12/17	Time Off Bottom: 05:25 12/17	

Down Hole Makeup

Heads Up: 34.04 FT	Packer 1: 3771 FT
Drill Pipe: 3663.88 FT <i>ID-3 1/2</i>	Packer 2: 3776 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3763 FT
Collars: 121 FT <i>ID-2 1/4</i>	Bottom Recorder: 3781 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 32	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 1/2</i>	
Change Over: FT	
Perforations: (below): 28 FT <i>4 1/2-FH</i>	



**Company: Reilly Oil Company,
Inc**

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC -
Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE December 16 2017
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DST #3	Formation: Lans "E&F"	Test Interval: 3776 - 3808'	Total Depth: 3808'
	Time On: 23:35 12/16	Time Off: 07:45 12/17	
	Time On Bottom: 01:55 12/17	Time Off Bottom: 05:25 12/17	

Mud Properties

Mud Type: Chemical	Weight: 9.1	Viscosity: 58	Filtrate: 7.2	Chlorides: 1,800 ppm
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Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
17
 2017

DST #4 Formation: L/KC "H" Test Interval: 3828 - 3860' Total Depth: 3860'

Time On: 16:25 12/17 Time Off: 23:20 12/17
 Time On Bottom: 18:18 12/17 Time Off Bottom: 21:18 12/17

Recovered

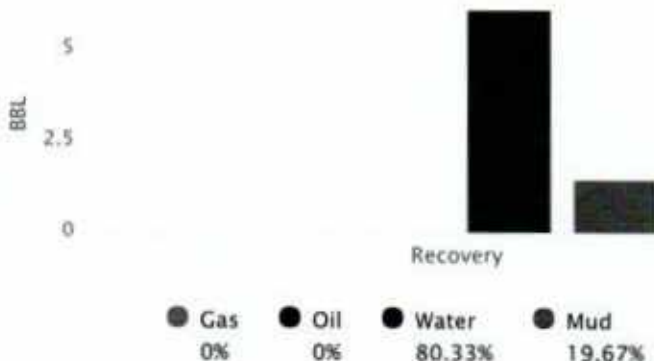
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
113	1.60799	HMCW	0	0	50	50
126	1.79298	MCW	0	0	71	29
373	4.18128	SLMCW	0	0	96	4

Total Recovered: 612 ft
 Total Barrels Recovered: 7.58225

Reversed Out
 NO

Recovery at a glance

Initial Hydrostatic Pressure	1839	PSI
Initial Flow	18 to 187	PSI
Initial Closed in Pressure	734	PSI
Final Flow Pressure	189 to 303	PSI
Final Closed in Pressure	725	PSI
Final Hydrostatic Pressure	1824	PSI
Temperature	123	°F
Pressure Change Initial Close / Final Close	1.1	%





**Company: Reilly Oil Company,
Inc**

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC -
Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE December 17 2017
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DST #4 Formation: L/KC "H" Test Interval: 3828 - Total Depth: 3860'
3860'

Time On: 16:25 12/17 Time Off: 23:20 12/17
Time On Bottom: 18:18 12/17 Time Off Bottom: 21:18 12/17

REMARKS:

Initial Flow: 1/2 in. blow increasing. BOB in 10 mins.
Initial Shut-in: No blow back.
Final Flow: 1/4 in. blow increasing. BOB in 12 mins. 45 secs.
Final Shut-in: No blow back.

Tool Sample: 98% water, 2% mud w/a trace of oil

Ph: 7

RW: .23 @ 60 degrees F

Chlorides: 38,000 ppm



Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
17
 2017

DST #4 Formation: L/KC "H" Test Interval: 3828 - 3860' Total Depth: 3860'

Time On: 16:25 12/17 Time Off: 23:20 12/17
 Time On Bottom: 18:18 12/17 Time Off Bottom: 21:18 12/17

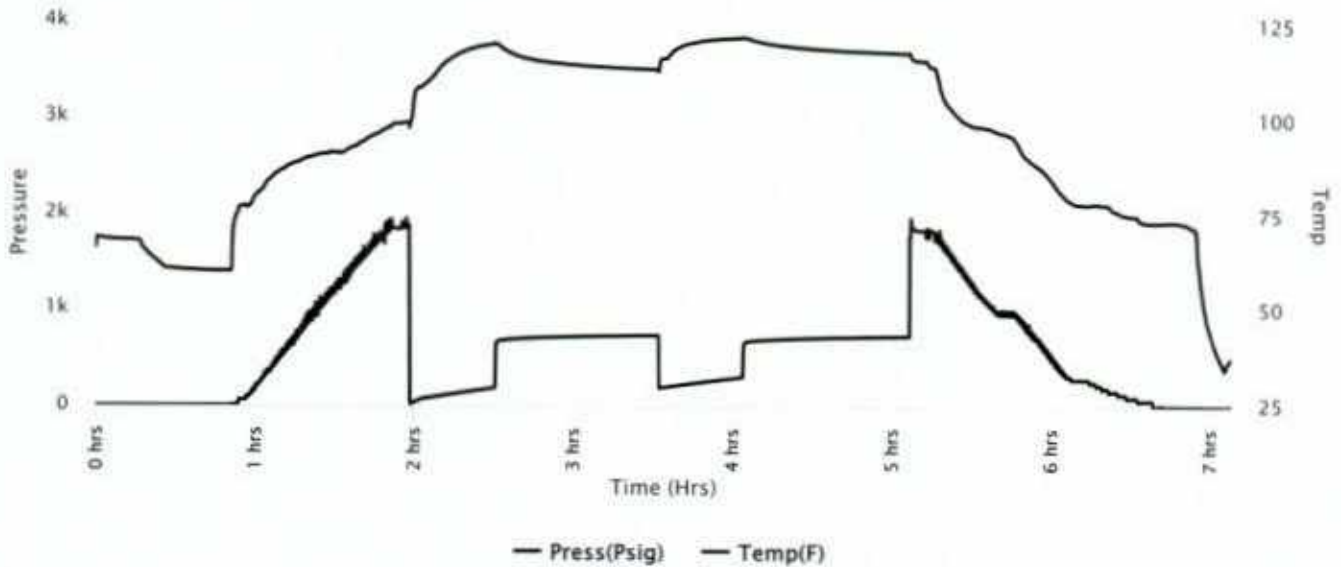
Electronic Volume Estimate:
 628'

1st Open
 Minutes: 30
 30.1" at 30 min

1st Close:
 Minutes: 60
 0" at 60 min

2nd Open
 Minutes: 30
 26.8" at 30 min

2nd Close:
 Minutes: 60
 0" at 60 min





Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC - Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
17
2017

DST #4 Formation: L/KC "H" Test Interval: 3828 - 3860' Total Depth: 3860'

Time On: 16:25 12/17 Time Off: 23:20 12/17
Time On Bottom: 18:18 12/17 Time Off Bottom: 21:18 12/17

Down Hole Makeup

Heads Up: 13.66 FT	Packer 1: 3823 FT
Drill Pipe: 3695.5 FT <i>ID-3 1/2</i>	Packer 2: 3828 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3815 FT
Collars: 121 FT <i>ID-2 1/4</i>	Bottom Recorder: 3833 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 32	Surface Choke: 1"
<u>Anchor Makeup</u>	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 1/2</i>	
Change Over: FT	
Perforations: (below): 28 FT <i>4 1/2-FH</i>	



**Company: Reilly Oil Company,
Inc**

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC -
Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE

December

17

2017

DST #4 Formation: L/KC "H" Test Interval: 3828 - Total Depth: 3860'
3860'

Time On: 16:25 12/17 Time Off: 23:20 12/17

Time On Bottom: 18:18 12/17 Time Off Bottom: 21:18 12/17

Mud Properties

Mud Type: Chemical

Weight: 9.1

Viscosity: 59

Filtrate: 7.8

Chlorides: 3,100 ppm



Company: Reilly Oil Company, Inc
Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
18
 2017

DST #5 **Formation: L/KC "I&J"** **Test Interval: 3856 - 3903'** **Total Depth: 3903'**
 Time On: 09:05 12/18 Time Off: 14:55 12/18
 Time On Bottom: 11:11 12/18 Time Off Bottom: 13:11 12/18

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
1	0.00492	M	0	0	0	100

Total Recovered: 1 ft
 Total Barrels Recovered: 0.00492

Reversed Out
 NO

Recovery at a glance

0.005

Initial Hydrostatic Pressure	1886	PSI	
Initial Flow	14 to 15	PSI	BBL 0.0025
Initial Closed in Pressure	24	PSI	
Final Flow Pressure	14 to 15	PSI	
Final Closed in Pressure	19	PSI	0
Final Hydrostatic Pressure	1858	PSI	
Temperature	106	°F	
Pressure Change Initial Close / Final Close	17.9	%	

Recovery
 ● Gas 0% ● Oil 0% ● Water 0% ● Mud 100%



**Company: Reilly Oil Company,
Inc**

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC -
Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE December 18 2017
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DST #5	Formation: L/KC "I&J"	Test Interval: 3856 - 3903'	Total Depth: 3903'
	Time On: 09:05 12/18	Time Off: 14:55 12/18	
	Time On Bottom: 11:11 12/18	Time Off Bottom: 13:11 12/18	

REMARKS:

Initial Flow: Weak, surface blow increasing to 3/4 in. in 30 mins.
Initial Shut-in: No blow back.
Final Flow: Weak, surface blow increasing to 1/4 in. in 30 mins.
Final Shut-in: No blow back.

Tool Sample: 100% mud w/oil specks



Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
18
 2017

DST #5 **Formation: L/KC "I&J"** **Test Interval: 3856 - 3903'** **Total Depth: 3903'**

Time On: 09:05 12/18 Time Off: 14:55 12/18
 Time On Bottom: 11:11 12/18 Time Off Bottom: 13:11 12/18

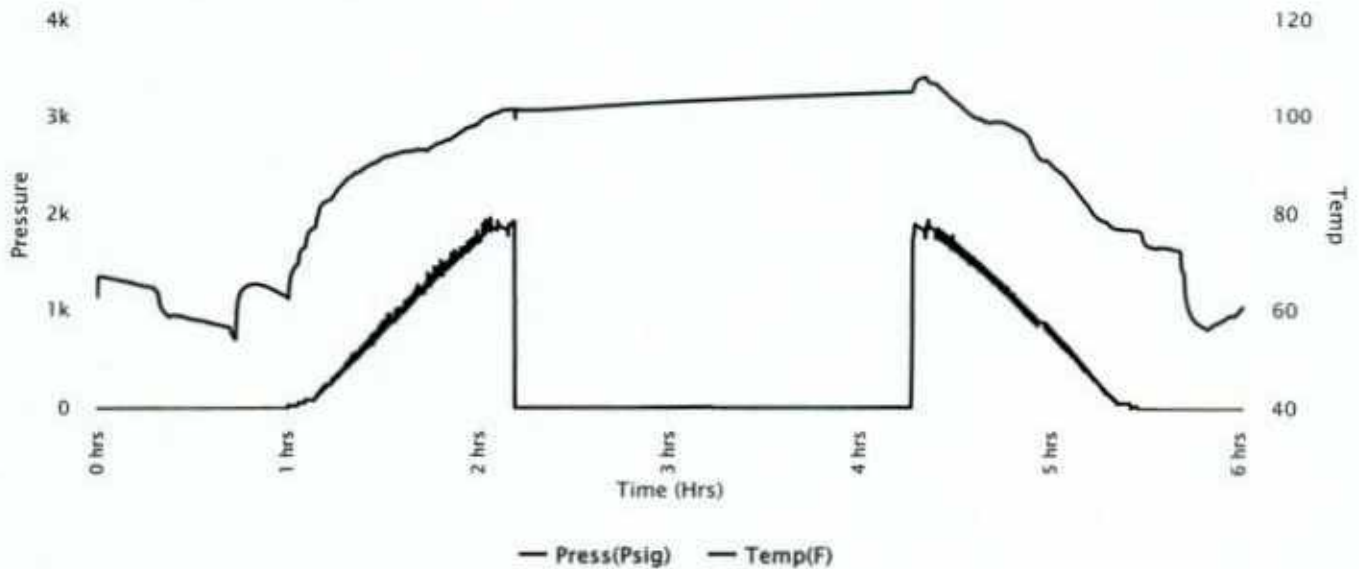
Electronic Volume Estimate:
 30'

1st Open
 Minutes: 30
 .8" at 30 min

1st Close
 Minutes: 30
 0" at 30 min

2nd Open
 Minutes: 30
 .23" at 30 min

2nd Close
 Minutes: 30
 0" at 30 min





Company: Reilly Oil Company, Inc
Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE December 18 2017
--

DST #5	Formation: L/KC "I&J"	Test Interval: 3856 - 3903'	Total Depth: 3903'
	Time On: 09:05 12/18	Time Off: 14:55 12/18	
	Time On Bottom: 11:11 12/18	Time Off Bottom: 13:11 12/18	

Down Hole Makeup

Heads Up: 17.41 FT	Packer 1: 3850.5 FT
Drill Pipe: 3726.75 FT <i>ID-3 1/2</i>	Packer 2: 3856 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3842.5 FT
Collars: 121 FT <i>ID-2 1/4</i>	Bottom Recorder: 3894 FT
Test Tool: 26.66 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 47	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: .5 FT	
Drill Pipe: (in anchor): 32 FT <i>ID-3 1/2</i>	
Change Over: .5 FT	
Perforations: (below): 10 FT <i>4 1/2-FH</i>	



Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC - Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
18
2017

DST #5 **Formation: L/KC "I&J"** **Test Interval: 3856 - 3903'** **Total Depth: 3903'**
Time On: 09:05 12/18 Time Off: 14:55 12/18
Time On Bottom: 11:11 12/18 Time Off Bottom: 13:11 12/18

Mud Properties

Mud Type: Chemical **Weight:** 9.3 **Viscosity:** 56 **Filtrate:** 7.8 **Chlorides:** 3,100 ppm



Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC - Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE
December
18
2017

DST #6 **Formation: L/KC "K"** **Test Interval: 3889 - 3914'** **Total Depth: 3914'**
Time On: 21:15 12/18 Time Off: 01:40 12/19
Time On Bottom: 23:25 12/18 Time Off Bottom: 23:45 12/18

Recovered

Foot	BBLs
400	4.56549

Description of Fluid	Gas %	Oil %	Water %	Mud %
M	0	0	0	100

Total Recovered: 400 ft
Total Barrels Recovered: 4.56549

Reversed Out
NO

Recovery at a glance

Initial Hydrostatic Pressure	1892	PSI	
Initial Flow	0	PSI	BBL 2.5
Initial Closed in Pressure	0	PSI	
Final Flow Pressure	0	PSI	
Final Closed in Pressure	0	PSI	0
Final Hydrostatic Pressure	1885	PSI	
Temperature	106	°F	
Pressure Change Initial Close / Final Close	0.0	%	

Recovery

- Gas 0%
- Oil 0%
- Water 0%
- Mud 100%





**Company: Reilly Oil Company,
Inc**

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC -
Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE December 18 2017
--

DST #6	Formation: L/KC "K"	Test Interval: 3889 - 3914'	Total Depth: 3914'
	Time On: 21:15 12/18	Time Off: 01:40 12/19	
	Time On Bottom: 23:25 12/18	Time Off Bottom: 23:45 12/18	

REMARKS:

Made two attempts, both unsuccessful. No packer seat. Pulled tool.



Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
18
 2017

DST #6 Formation: L/KC "K" Test Interval: 3889 - 3914' Total Depth: 3914'

Time On: 21:15 12/18 Time Off: 01:40 12/19
 Time On Bottom: 23:25 12/18 Time Off Bottom: 23:45 12/18

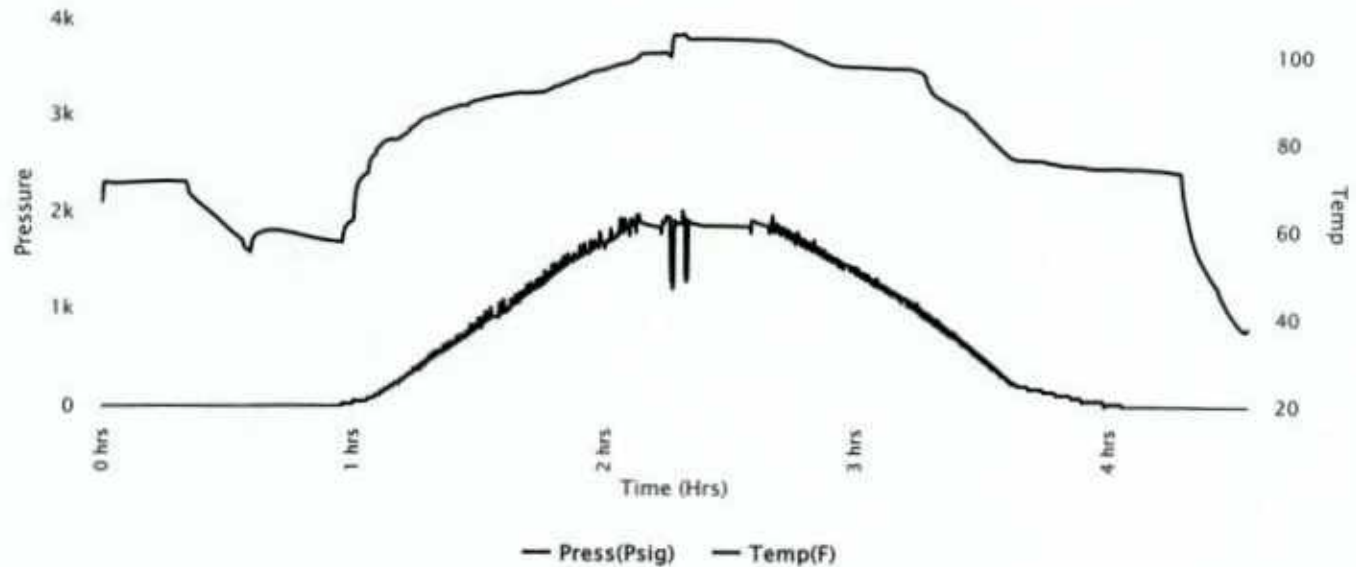
Electronic Volume Estimate:
 0'

1st Open
 Minutes: 5
 MISRUN" at 5 min

1st Close
 N/A

2nd Open
 N/A

2nd Close
 N/A





Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

<p>DATE December 18 2017</p>

DST #6 Formation: L/KC "K" Test Interval: 3889 - 3914' Total Depth: 3914'

Time On: 21:15 12/18 Time Off: 01:40 12/19
 Time On Bottom: 23:25 12/18 Time Off Bottom: 23:45 12/18

Down Hole Makeup

Heads Up: 16.03 FT	Packer 1: 3884 FT
Drill Pipe: 3758.87 FT <i>ID-3 1/2</i>	Packer 2: 3889 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 3876 FT
Collars: 121 FT <i>ID-2 1/4</i>	Bottom Recorder: 3894 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 25	Surface Choke: 1"
	Bottom Choke: 5/8"

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 3 FT
4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT
ID-3 1/2

Change Over: FT

Perforations: (below): 21 FT
4 1/2-FH



**Company: Reilly Oil Company,
Inc**

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
County: TREGO
State: Kansas
Drilling Contractor: STP Drilling, LLC -
Rig 1
Elevation: 2365 GL
Field Name: Tidball NE
Pool: WILDCAT
Job Number: 93

DATE December 18 2017
--

DST #6 Formation: L/KC "K" Test Interval: 3889 - Total Depth: 3914'
3914'

Time On: 21:15 12/18 Time Off: 01:40 12/19
Time On Bottom: 23:25 12/18 Time Off Bottom: 23:45 12/18

Mud Properties

Mud Type: Chemical **Weight:** 9.2 **Viscosity:** 59 **Filtrate:** 7.8 **Chlorides:** 3,200 ppm



Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - RIG 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
19
 2017

DST #7 **Formation: L/KC "K"** **Test Interval: 3903 - 3945'** **Total Depth: 4021 LTD'**
 Time On: 18:50 12/19 Time Off: 01:33 12/20
 Time On Bottom: 21:00 12/19 Time Off Bottom: 23:00 12/19

Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
317	3.3844	M	0	0	0	100

Total Recovered: 317 ft
 Total Barrels Recovered: 3.3844

Reversed Out
 NO

Recovery at a glance

Initial Hydrostatic Pressure	1899	PSI
Initial Flow	306 to 307	PSI
Initial Closed in Pressure	593	PSI
Final Flow Pressure	310 to 313	PSI
Final Closed in Pressure	533	PSI
Final Hydrostatic Pressure	1885	PSI
Temperature	110	°F
Pressure Change Initial Close / Final Close	10.3	%

BBL 2
 0

Recovery

● Gas 0% ● Oil 0% ● Water 0% ● Mud 100%





Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
19
 2017

DST #7 Formation: L/KC "K" Test Interval: 3903 - 3945' Total Depth: 4021 LTD'

Time On: 18:50 12/19 Time Off: 01:33 12/20
 Time On Bottom: 21:00 12/19 Time Off Bottom: 23:00 12/19

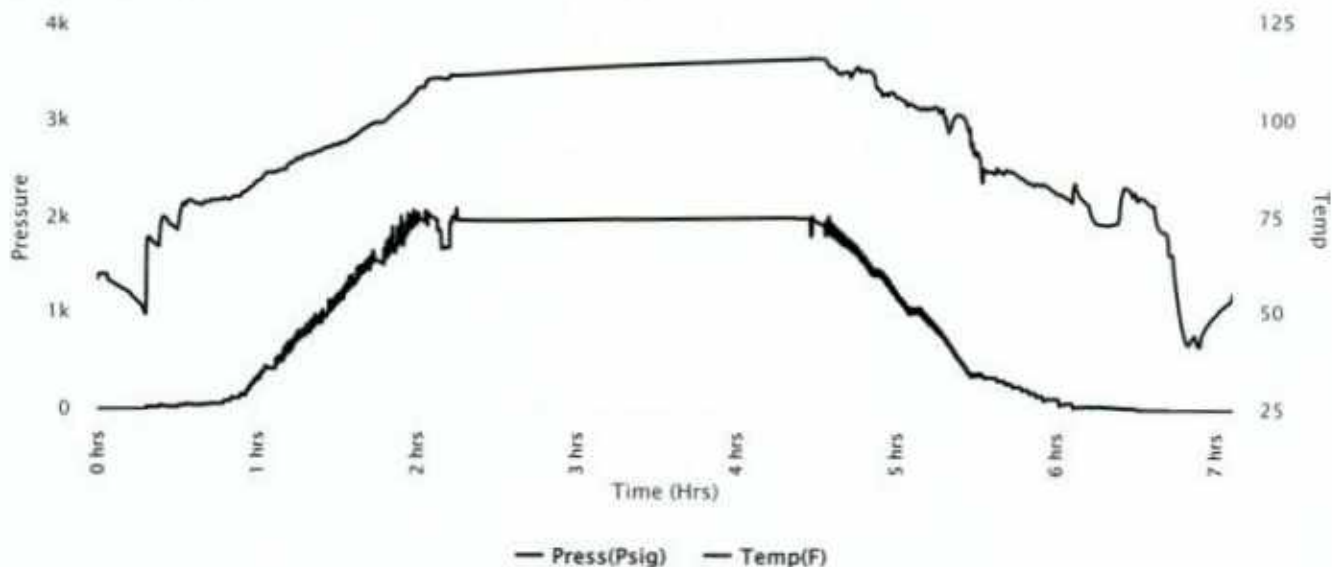
REMARKS:

Initial Flow: Weak, surface blow. Steady throughout 30 min. flow.
 Initial Shut-in: No blow back.
 Final Flow: No blow. No build.
 Final Shut-in: No blow back.

Tool Sample: 100% mud w/oil specks

Below Straddle Max PSI: 1981

Below Straddle Recorder





Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
19
 2017

DST #7 Formation: L/KC "K" Test Interval: 3903 - 3945' Total Depth: 4021 LTD'

Time On: 18:50 12/19 Time Off: 01:33 12/20
 Time On Bottom: 21:00 12/19 Time Off Bottom: 23:00 12/19

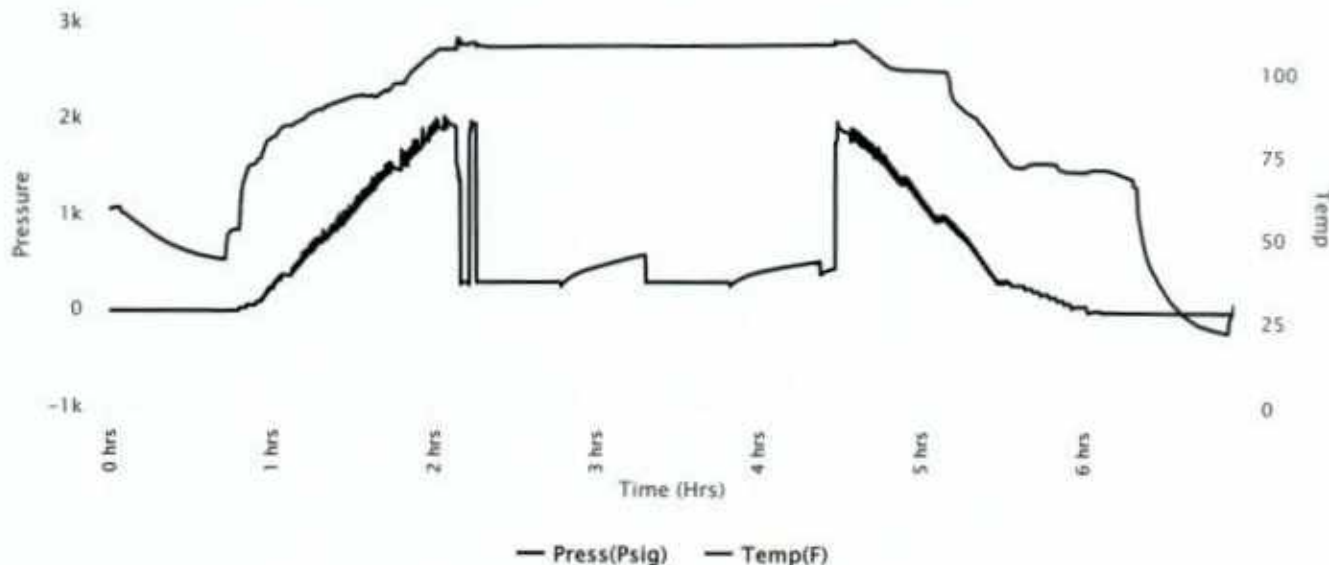
Electronic Volume Estimate:
 3'

1st Open
 Minutes: 30
 .1" at 30 min

1st Close
 Minutes: 30
 0" at 30 min

2nd Open
 Minutes: 30
 0" at 30 min

2nd Close
 Minutes: 30
 0" at 30 min





Company: Reilly Oil Company, Inc

Lease: Judith #1-6

SEC: 6 TWN: 11S RNG: 24W
 County: TREGO
 State: Kansas
 Drilling Contractor: STP Drilling, LLC - Rig 1
 Elevation: 2365 GL
 Field Name: Tidball NE
 Pool: WILDCAT
 Job Number: 93

DATE
 December
19
 2017

DST #7 **Formation: L/KC "K"** **Test Interval: 3903 - 3945'** **Total Depth: 4021 LTD'**

Time On: 18:50 12/19 Time Off: 01:33 12/20
 Time On Bottom: 21:00 12/19 Time Off Bottom: 23:00 12/19

Down Hole Makeup

Heads Up: 34.6 FT	Packer 1: 3898 FT
Drill Pipe: 3791.44 FT <i>ID-3 1/2</i>	Packer 2: 3903 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Packer 3: 3945 FT
Collars: 121 FT <i>ID-2 1/4</i>	Top Recorder: 3890 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Bottom Recorder: 3908 FT
Total Anchor: 42	Below Straddle Recorder: 4011 FT
<u>Anchor Makeup</u>	Well Bore Size: 7 7/8
Packer Sub: 1 FT	Surface Choke: 1"
Perforations: (top): 3 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): 38 FT <i>4 1/2-FH</i>	
<u>STRADDLE</u>	
Straddle Packer(s): 1 FT	
Change Over: 1 FT	
Drill Pipe: 63.5 FT <i>ID-3 1/2"</i>	
Change Over: .5 FT	
Perforations (in tail pipe): 11 FT <i>4 1/2-FH</i>	

