

Confidentiality Requested:

Yes  No

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION**

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

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

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

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

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

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

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

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

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

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

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

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

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

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

Spud Date or Date Reached TD Completion Date or Recompletion Date

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

**Drilling Fluid Management Plan**

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

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

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

Location of fluid disposal if hauled offsite:

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

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

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

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

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

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

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

Form	ACO1 - Well Completion
Operator	JEL Resources, LLC
Well Name	BETTY HULLMAN ESTATE 1-9
Doc ID	1424883

All Electric Logs Run

DIL
Compesated Neutron Density
Sonic
MEL





# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 778

Date	5-27-18	Sec.	9	Twp.	22	Range	13	County	Stafford	State	Ks	On Location		Finish	2:15 PM
------	---------	------	---	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	---------

Lease	Betty Hullman Est							Location	281 + K-19 - 1/2 W, S/5						
Well No.	1-9							Owner							

Contractor	Southwind #3							To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.						
Type Job	Longstring													

Hole Size	7 7/8"							T.D.	3870'																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Csg. #/S.O.	5 1/2" New							Depth	3863.79'																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Tbg. Size								Street																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Tool								City	State																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Cement Left in Csg.	23.63'							Shoe Joint	23.63'																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Meas Line								Displace	91 1/4 BLS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
<table border="1"> <tr> <td colspan="15">EQUIPMENT</td> </tr> <tr> <td>Pumptrk</td> <td>5</td> <td>No.</td> <td>Cementer</td> <td colspan="11"></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Helper</td> <td colspan="11">Craig</td> </tr> <tr> <td>Bulktrk</td> <td>14</td> <td>No.</td> <td>Driver</td> <td colspan="11">Jack</td> </tr> <tr> <td></td> <td></td> <td></td> <td>Driver</td> <td colspan="11">Rick</td> </tr> <tr> <td>Bulktrk</td> <td>p.u.</td> <td>No.</td> <td>Driver</td> <td colspan="11"></td> </tr> <tr> <td></td> <td></td> <td></td> <td>Driver</td> <td colspan="11">Rick</td> </tr> </table>															EQUIPMENT															Pumptrk	5	No.	Cementer															Helper	Craig											Bulktrk	14	No.	Driver	Jack														Driver	Rick											Bulktrk	p.u.	No.	Driver															Driver	Rick																																																																																																																																																																																																																																																																																																																																																																																																	
EQUIPMENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Pumptrk	5	No.	Cementer																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			Helper	Craig																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Bulktrk	14	No.	Driver	Jack																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			Driver	Rick																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Bulktrk	p.u.	No.	Driver																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			Driver	Rick																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
<table border="1"> <tr> <td colspan="15">JOB SERVICES &amp; REMARKS</td> </tr> <tr> <td>Remarks:</td> <td colspan="14"></td> </tr> <tr> <td>Rat Hole</td> <td colspan="14"></td> </tr> <tr> <td>Mouse Hole</td> <td colspan="14"></td> </tr> <tr> <td>Centralizers</td> <td colspan="14">1, 3, 6, 8, 10, 12, 14, 17</td> </tr> <tr> <td>Baskets</td> <td colspan="14">10</td> </tr> <tr> <td>D/V or Port Collar</td> <td colspan="14">pipe on bottom break</td> </tr> <tr> <td>Circulation pump</td> <td colspan="14">500 gal mud Clear</td> </tr> <tr> <td>48" plug</td> <td colspan="14">Rathole w/ 30' Hook to</td> </tr> <tr> <td>5/2" casing</td> <td colspan="14">+ Mix 145 S.C. Cement.</td> </tr> <tr> <td>Shut down</td> <td colspan="14">wash pump + lines</td> </tr> <tr> <td>Released plug</td> <td colspan="14">+ Displaced w/ 91 1/4 BLS</td> </tr> <tr> <td>Released</td> <td colspan="14">+ held</td> </tr> <tr> <td>Lift</td> <td colspan="14">pressure 700 #</td> </tr> <tr> <td>Land plug</td> <td colspan="14">to 1400 #</td> </tr> <tr> <td>Pumptrk Charge</td> <td colspan="14">13 prod string</td> </tr> <tr> <td>Mileage</td> <td colspan="14"></td> </tr> <tr> <td colspan="15"> <table border="1"> <tr> <td colspan="15">FLOAT EQUIPMENT</td> </tr> <tr> <td>Guide Shoe</td> <td colspan="14"></td> </tr> <tr> <td>Centralizer</td> <td colspan="14">8</td> </tr> <tr> <td>Baskets</td> <td colspan="14">1</td> </tr> <tr> <td>AFU Inserts</td> <td colspan="14"></td> </tr> <tr> <td>Float Shoe</td> <td colspan="14">1</td> </tr> <tr> <td>Latch Down</td> <td colspan="14">1</td> </tr> </table> </td> </tr> <tr> <td colspan="15"> <table border="1"> <tr> <td colspan="15">TAX</td> </tr> <tr> <td colspan="15">Discount</td> </tr> <tr> <td colspan="15">Total Charge</td> </tr> </table> </td> </tr> <tr> <td colspan="15"> <table border="1"> <tr> <td colspan="15">Signature</td> </tr> <tr> <td colspan="15">[Signature]</td> </tr> </table> </td> </tr> </table>															JOB SERVICES & REMARKS															Remarks:															Rat Hole															Mouse Hole															Centralizers	1, 3, 6, 8, 10, 12, 14, 17														Baskets	10														D/V or Port Collar	pipe on bottom break														Circulation pump	500 gal mud Clear														48" plug	Rathole w/ 30' Hook to														5/2" casing	+ Mix 145 S.C. Cement.														Shut down	wash pump + lines														Released plug	+ Displaced w/ 91 1/4 BLS														Released	+ held														Lift	pressure 700 #														Land plug	to 1400 #														Pumptrk Charge	13 prod string														Mileage															<table border="1"> <tr> <td colspan="15">FLOAT EQUIPMENT</td> </tr> <tr> <td>Guide Shoe</td> <td colspan="14"></td> </tr> <tr> <td>Centralizer</td> <td colspan="14">8</td> </tr> <tr> <td>Baskets</td> <td colspan="14">1</td> </tr> <tr> <td>AFU Inserts</td> <td colspan="14"></td> </tr> <tr> <td>Float Shoe</td> <td colspan="14">1</td> </tr> <tr> <td>Latch Down</td> <td colspan="14">1</td> </tr> </table>															FLOAT EQUIPMENT															Guide Shoe															Centralizer	8														Baskets	1														AFU Inserts															Float Shoe	1														Latch Down	1														<table border="1"> <tr> <td colspan="15">TAX</td> </tr> <tr> <td colspan="15">Discount</td> </tr> <tr> <td colspan="15">Total Charge</td> </tr> </table>															TAX															Discount															Total Charge															<table border="1"> <tr> <td colspan="15">Signature</td> </tr> <tr> <td colspan="15">[Signature]</td> </tr> </table>															Signature															[Signature]														
JOB SERVICES & REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Remarks:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Rat Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Mouse Hole																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Centralizers	1, 3, 6, 8, 10, 12, 14, 17																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Baskets	10																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
D/V or Port Collar	pipe on bottom break																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Circulation pump	500 gal mud Clear																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
48" plug	Rathole w/ 30' Hook to																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
5/2" casing	+ Mix 145 S.C. Cement.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Shut down	wash pump + lines																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Released plug	+ Displaced w/ 91 1/4 BLS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Released	+ held																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Lift	pressure 700 #																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Land plug	to 1400 #																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Pumptrk Charge	13 prod string																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Mileage																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
<table border="1"> <tr> <td colspan="15">FLOAT EQUIPMENT</td> </tr> <tr> <td>Guide Shoe</td> <td colspan="14"></td> </tr> <tr> <td>Centralizer</td> <td colspan="14">8</td> </tr> <tr> <td>Baskets</td> <td colspan="14">1</td> </tr> <tr> <td>AFU Inserts</td> <td colspan="14"></td> </tr> <tr> <td>Float Shoe</td> <td colspan="14">1</td> </tr> <tr> <td>Latch Down</td> <td colspan="14">1</td> </tr> </table>															FLOAT EQUIPMENT															Guide Shoe															Centralizer	8														Baskets	1														AFU Inserts															Float Shoe	1														Latch Down	1																																																																																																																																																																																																																																																																																																																																																																																																				
FLOAT EQUIPMENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Guide Shoe																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Centralizer	8																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Baskets	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
AFU Inserts																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Float Shoe	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
Latch Down	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
<table border="1"> <tr> <td colspan="15">TAX</td> </tr> <tr> <td colspan="15">Discount</td> </tr> <tr> <td colspan="15">Total Charge</td> </tr> </table>															TAX															Discount															Total Charge																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
TAX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Discount																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
Total Charge																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
<table border="1"> <tr> <td colspan="15">Signature</td> </tr> <tr> <td colspan="15">[Signature]</td> </tr> </table>															Signature															[Signature]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Signature																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
[Signature]																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														



**Company: JEL Resources, LLC**

**Lease: Betty Hullman Estate #1-**

**9**

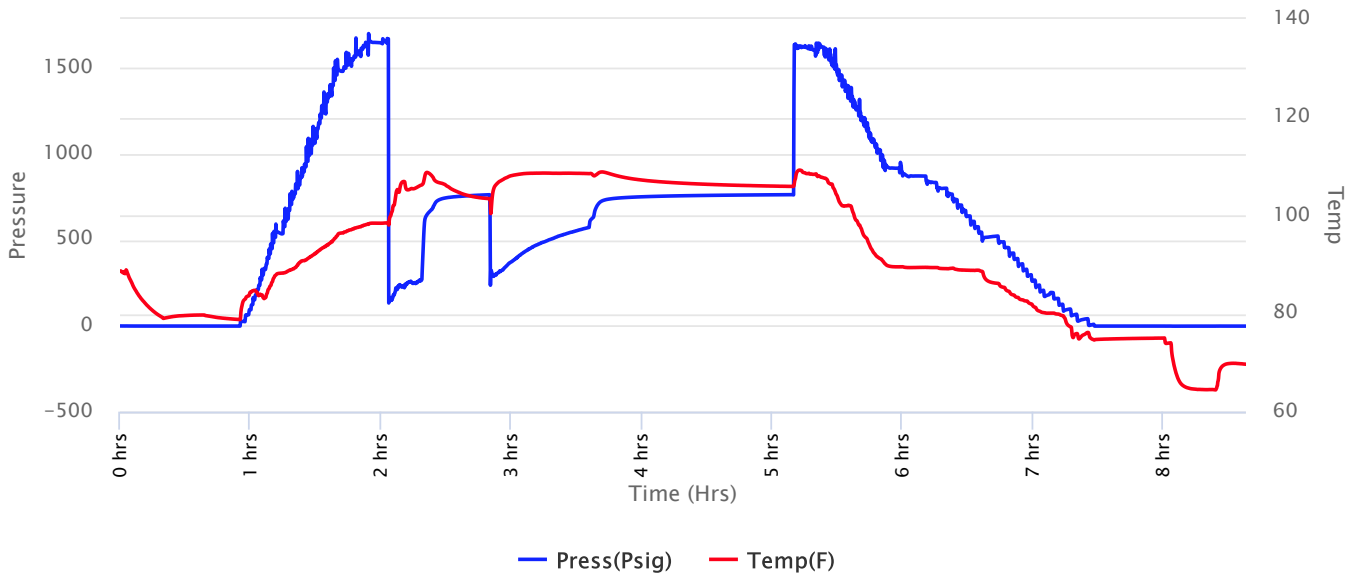
SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling,  
 Inc - Rig 3  
 Elevation: 1896 EGL  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

**DATE**  
 May  
**22**  
 2018

**DST #1 Formation: Lansing A -F Test Interval: 3400 - 3458' Total Depth: 3458'**  
 Time On: 21:30 05/22 Time Off: 05:53 05/23  
 Time On Bottom: 23:30 05/22 Time Off Bottom: 02:30 05/23

Electronic Volume Estimate:  
 N/A

<u>1st Open</u> Minutes: 15 Gg" at 15 min	<u>1st Close</u> Minutes: 30 .7" at 30 min	<u>2nd Open</u> Minutes: 45 Gg" at 45 min	<u>2nd Close</u> Minutes: 90 345.5" at 90 min
---	--	---	---







**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-**  
**9**

SEC: 9 TWN: 22S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1896 EGL  
Field Name: Besthorn  
Pool: Infield  
Job Number: 161

<b>DATE</b> May <b>22</b> 2018
---

<b>DST #1</b>	<b>Formation: Lansing</b>	<b>Test Interval: 3400 -</b>	<b>Total Depth: 3458'</b>
	<b>A -F</b>	<b>3458'</b>	
	Time On: 21:30 05/22	Time Off: 05:53 05/23	
	Time On Bottom: 23:30 05/22	Time Off Bottom: 02:30 05/23	

**REMARKS:**

IF: 2" Blow - Built to BOB in 45 seconds

IS: 3/4" BB

FF: BOB in 8 seconds

FS: BBBB in 15 mins

tool sample: 3g - 47o - 43w - 7m

Gravity: 21.1 @ 60 degrees F

Ph: 6

RW: .125 @ 68 degrees F

Chlorides: 55000 ppm













Company: JEL Resources, LLC

Lease: Betty Hullman Estate #1-

9

SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1896 EGL  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

<b>DATE</b>
May
<b>23</b>
2018

DST #2 Formation: Lansing - H Test Interval: 3510 - 3532' Total Depth: 3532'

Time On: 15:35 05/23 Time Off: 22:18 05/23  
 Time On Bottom: 17:38 05/23 Time Off Bottom: 20:38 05/23

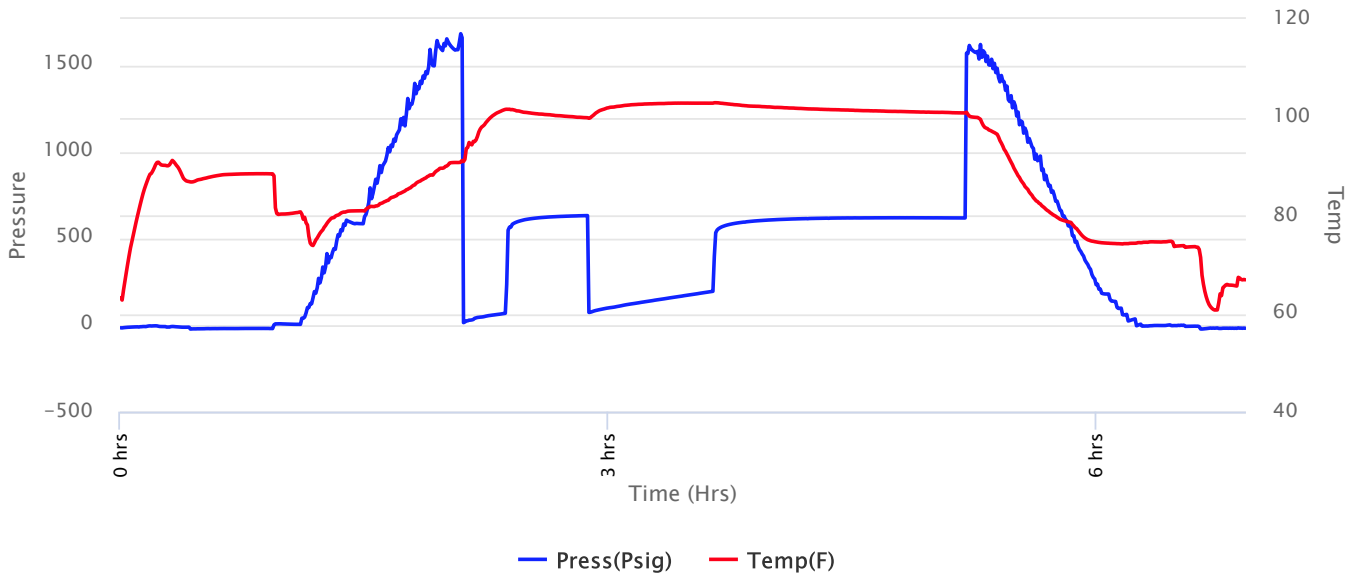
Electronic Volume Estimate:  
521'

1st Open  
Minutes: 15  
16.4" at 15 min

1st Close  
Minutes: 30  
.7" at 30 min

2nd Open  
Minutes: 45  
41.4" at 45 min

2nd Close  
Minutes: 90  
0" at 90 min





**Company: JEL Resources, LLC**

**Lease: Betty Hullman Estate #1-**

**9**

SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1896 EGL  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

**DATE**  
 May  
**23**  
 2018

**DST #2 Formation: Lansing - H Test Interval: 3510 - 3532' Total Depth: 3532'**

Time On: 15:35 05/23 Time Off: 22:18 05/23  
 Time On Bottom: 17:38 05/23 Time Off Bottom: 20:38 05/23

Recovered

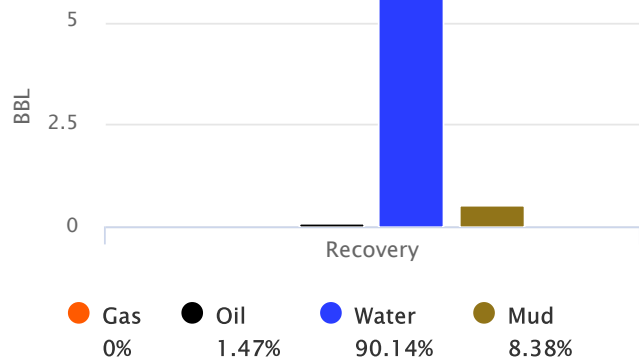
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
121	1.72183	MCW (trace O)	0	.1	74.9	25
315	4.48245	SLMCSLOCW	0	2	96	2

Total Recovered: 436 ft  
 Total Barrels Recovered: 6.20428

Reversed Out  
 NO

Initial Hydrostatic Pressure	1622	PSI
Initial Flow	15 to 68	PSI
<b>Initial Closed in Pressure</b>	<b>633</b>	<b>PSI</b>
Final Flow Pressure	73 to 195	PSI
<b>Final Closed in Pressure</b>	<b>619</b>	<b>PSI</b>
Final Hydrostatic Pressure	1615	PSI
Temperature	103	°F
Pressure Change Initial Close / Final Close	2.2	%

**Recovery at a glance**







**Company: JEL Resources, LLC**

**Lease: Betty Hullman Estate #1-**

**9**

SEC: 9 TWN: 22S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1896 EGL  
Field Name: Besthorn  
Pool: Infield  
Job Number: 161

<b>DATE</b> May <b>23</b> 2018
---

<b>DST #2</b>	<b>Formation: Lansing - H</b>	<b>Test Interval: 3510 - 3532'</b>	<b>Total Depth: 3532'</b>
	Time On: 15:35 05/23	Time Off: 22:18 05/23	
	Time On Bottom: 17:38 05/23	Time Off Bottom: 20:38 05/23	

**REMARKS:**

If: Bob in 10 min  
Ic: built to .7  
Ff: Bob in 11.5 min  
Fc: nobb

Tool sample: TRACE O - 99W - 1M

Ph: 6

RW: .100 @ 70 degrees F

Chlorides: 78,000 ppm





**Company: JEL Resources, LLC**

**Lease: Betty Hullman Estate #1-**

**9**

SEC: 9 TWN: 22S RNG: 13W

County: STAFFORD

State: Kansas

Drilling Contractor: Southwind Drilling,

Inc - Rig 3

Elevation: 1896 EGL

Field Name: Besthorn

Pool: Infield

Job Number: 161

**DATE**

May

**23**

2018

**DST #2**

**Formation: Lansing  
- H**

**Test Interval: 3510 -  
3532'**

**Total Depth: 3532'**

Time On: 15:35 05/23

Time Off: 22:18 05/23

Time On Bottom: 17:38 05/23

Time Off Bottom: 20:38 05/23

### **Mud Properties**

**Mud Type:** Chemical

**Weight:** 8.5

**Viscosity:** 63

**Filtrate:** 10.2

**Chlorides:** 10,500 ppm



Company: JEL Resources, LLC

Lease: Betty Hullman Estate #1-

9

SEC: 9 TWN: 22S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1896 EGL  
Field Name: Besthorn  
Pool: Infield  
Job Number: 161

**DATE**  
May  
**24**  
2018

DST #3 Formation: Lansing I-j Test Interval: 3531 - 3571' Total Depth: 3571'

Time On: 07:27 05/24 Time Off: 14:14 05/24  
Time On Bottom: 09:26 05/24 Time Off Bottom: 11:56 05/24

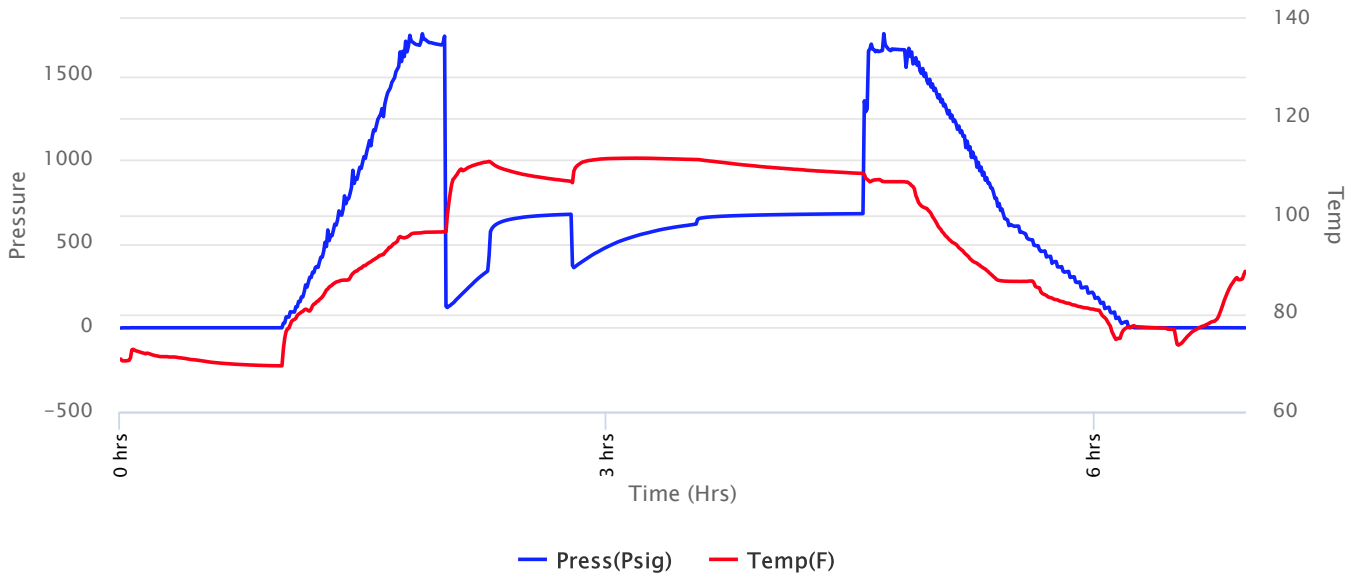
Electronic Volume Estimate: 1637'

1st Open  
Minutes: 15  
98.4" at 15 min

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

2nd Open  
Minutes: 45  
103.5" at 45 min

2nd Close  
Minutes: 60  
1.8" at 60 min





**Company: JEL Resources, LLC**

**Lease: Betty Hullman Estate #1-**

**9**

SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1896 EGL  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

**DATE**  
 May  
**24**  
 2018

**DST #3 Formation: Lansing I-j Test Interval: 3531 - 3571' Total Depth: 3571'**

Time On: 07:27 05/24 Time Off: 14:14 05/24  
 Time On Bottom: 09:26 05/24 Time Off Bottom: 11:56 05/24

Recovered

Foot	BBS	Description of Fluid	Gas %	Oil %	Water %	Mud %
63	0.89649	G	100	0	0	0
126	1.79298	SLOGCMCW	20	3	57	20
189	2.68947	SLOCSLGCMLCW	10	3	72	15
315	4.48245	SLOCSLMCW	0	2	88	10
126	1.79298	SLMCSLOCW	0	8	88	4
630	8.9649	SLMCSLOCW	0	3	95	2

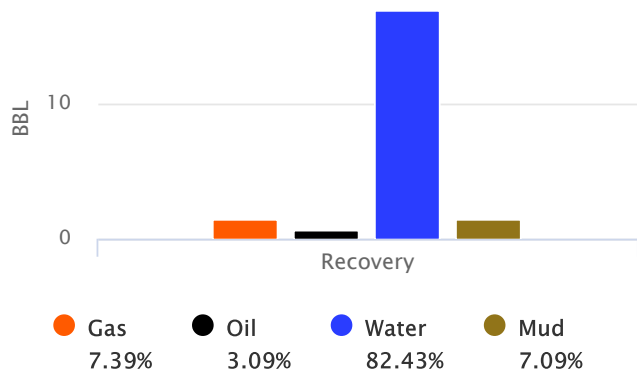
Total Recovered: 1449 ft

Total Barrels Recovered: 20.61927

Reversed Out  
 NO

Initial Hydrostatic Pressure	1698	PSI
Initial Flow	129 to 339	PSI
<b>Initial Closed in Pressure</b>	<b>678</b>	<b>PSI</b>
Final Flow Pressure	360 to 620	PSI
<b>Final Closed in Pressure</b>	<b>682</b>	<b>PSI</b>
Final Hydrostatic Pressure	1694	PSI
Temperature	112	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**





**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-**  
**9**

SEC: 9 TWN: 22S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1896 EGL  
Field Name: Besthorn  
Pool: Infield  
Job Number: 161

<b>DATE</b> May <b>24</b> 2018
---

<b>DST #3</b>	<b>Formation: Lansing</b>	<b>Test Interval: 3531 -</b>	<b>Total Depth: 3571'</b>
	<b>l-j</b>	<b>3571'</b>	
	Time On: 07:27 05/24	Time Off: 14:14 05/24	
	Time On Bottom: 09:26 05/24	Time Off Bottom: 11:56 05/24	

**REMARKS:**

Hit bridge 45ft from bottom

If: Bob in 1min

Ic: wsb no build

Ff: Bob in 2min

Fc: wsb built to 1.8

Tool sample: 3o - 96w -1m

Ph: 7

RW: .99 @ 79 degrees F

Chlorides: 70000 ppm







**Company: JEL Resources, LLC**

**Lease: Betty Hullman Estate #1-**

**9**

SEC: 9 TWN: 22S RNG: 13W

County: STAFFORD

State: Kansas

Drilling Contractor: Southwind Drilling,  
Inc - Rig 3

Elevation: 1896 EGL

Field Name: Besthorn

Pool: Infield

Job Number: 161

**DATE**

May

**24**

2018

**DST #3**

**Formation: Lansing  
I-j**

**Test Interval: 3531 -  
3571'**

**Total Depth: 3571'**

Time On: 07:27 05/24

Time Off: 14:14 05/24

Time On Bottom: 09:26 05/24

Time Off Bottom: 11:56 05/24

### **Mud Properties**

**Mud Type:** Chemical

**Weight:** 8.5

**Viscosity:** 63

**Filtrate:** 10.2

**Chlorides:** 10500 ppm



Company: JEL Resources, LLC

Lease: Betty Hullman Estate #1-

9

SEC: 9 TWN: 22S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1904 KB  
Field Name: Besthorn  
Pool: Infield  
Job Number: 161

**DATE**  
May  
**25**  
2018

DST #4      Formation: Viola      Test Interval: 3646 - 3710'      Total Depth: 3710'

Time On: 01:16 05/25      Time Off: 07:51 05/25  
Time On Bottom: 03:22 05/25      Time Off Bottom: 06:17 05/25

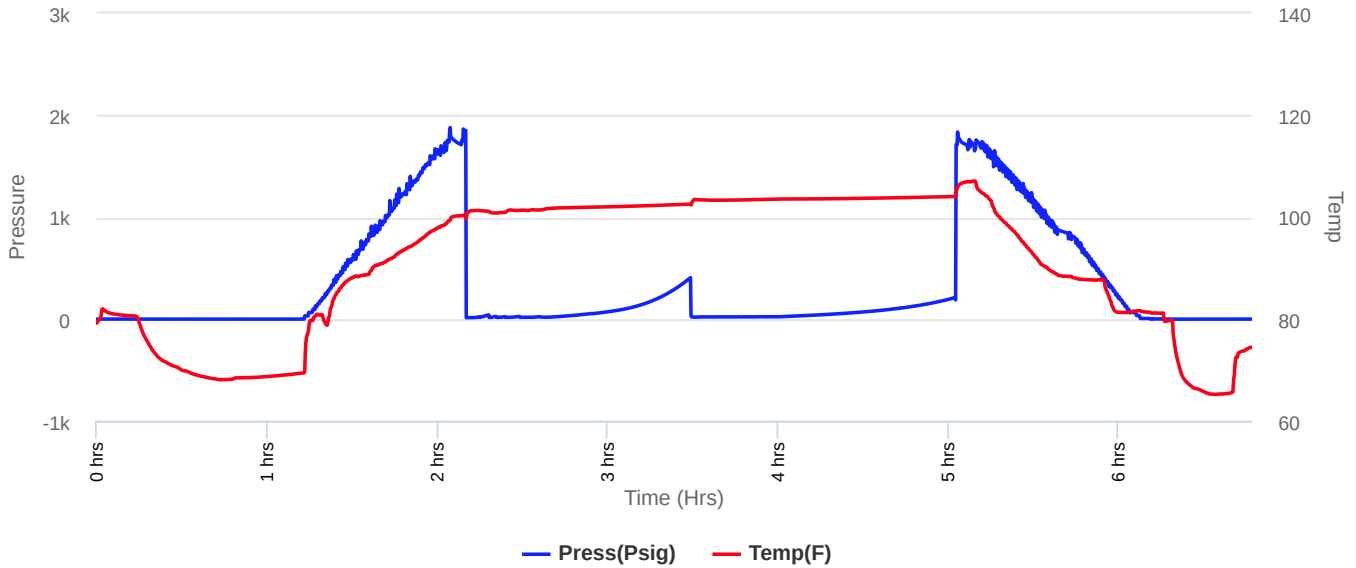
Electronic Volume Estimate:  
29'

1st Open  
Minutes: 30  
2.1" at 30 min

1st Close  
Minutes: 45  
0" at 45 min

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

2nd Close  
Minutes: 60  
0" at 60 min





**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1904 KB  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

**DATE**  
 May  
**25**  
 2018

**DST #4**      **Formation: Viola**      **Test Interval: 3646 - 3710'**      **Total Depth: 3710'**  
 Time On: 01:16 05/25      Time Off: 07:51 05/25  
 Time On Bottom: 03:22 05/25      Time Off Bottom: 06:17 05/25

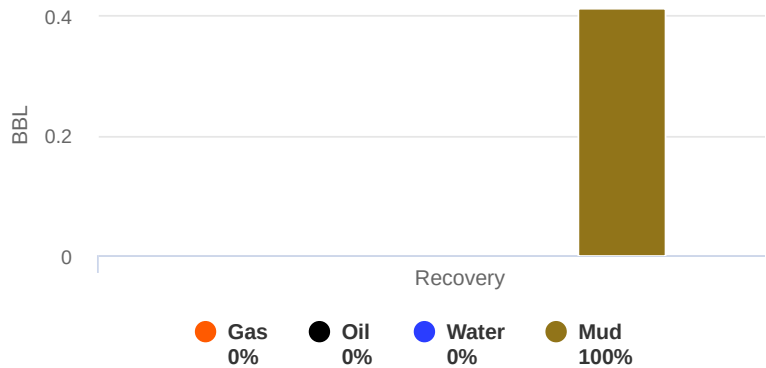
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
29	0.41267	M	0	0	0	100

Total Recovered: 29 ft  
 Total Barrels Recovered: 0.41267

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1748	PSI
Initial Flow	13 to 18	PSI
<b>Initial Closed in Pressure</b>	<b>406</b>	<b>PSI</b>
Final Flow Pressure	21 to 22	PSI
<b>Final Closed in Pressure</b>	<b>209</b>	<b>PSI</b>
Final Hydrostatic Pressure	1743	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	48.5	%



**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

SEC: 9 TWN: 22S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1904 KB  
Field Name: Besthorn  
Pool: Infield  
Job Number: 161

<b>DATE</b> May <b>25</b> 2018
---

<b>DST #4</b>	<b>Formation: Viola</b>	<b>Test Interval: 3646 - 3710'</b>	<b>Total Depth: 3710'</b>
	Time On: 01:16 05/25	Time Off: 07:51 05/25	
	Time On Bottom: 03:22 05/25	Time Off Bottom: 06:17 05/25	

**REMARKS:**

Initial Flow: 1/2 in. blow building to 2.1 ins. in 30 mins.

Initial Shut-in: No blow back.

Final Flow: .2 in. blow building to .9 in. in 30 mins.

Final Shut-in: No blow back.

Tool Sample: 10% oil, 40% water, 50% mud

Ph: 7

RW: .35 @ 68 degrees F

Chlorides: 20,000 ppm



**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1904 KB  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

<b>DATE</b> May <b>25</b> 2018
---

**DST #4**      **Formation: Viola**      **Test Interval: 3646 - 3710'**      **Total Depth: 3710'**

Time On: 01:16 05/25      Time Off: 07:51 05/25  
 Time On Bottom: 03:22 05/25      Time Off Bottom: 06:17 05/25

**Down Hole Makeup**

<b>Heads Up:</b> 9.21 FT	<b>Packer 1:</b> 3641 FT
<b>Drill Pipe:</b> 3622.64 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3646 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3630.42 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 3691 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 64	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 11 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 31 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 20 FT <i>4 1/2-FH</i>	





**Company: JEL Resources, LLC**

**Lease: Betty Hullman Estate #1-**

**9**

SEC: 9 TWN: 22S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1904 KB  
Field Name: Besthorn  
Pool: Infield  
Job Number: 161

<p><b>DATE</b> May <b>25</b> 2018</p>
---

**DST #4      Formation: Viola      Test Interval: 3646 - 3710'      Total Depth: 3710'**

Time On: 01:16 05/25      Time Off: 07:51 05/25  
Time On Bottom: 03:22 05/25      Time Off Bottom: 06:17 05/25

### **Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.1      **Viscosity:** 52      **Filtrate:** 9.2      **Chlorides:** 9,000 ppm



**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1904 KB  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

**DATE**  
 May  
**25**  
 2018

**DST #5 Formation: Arbuckle Test Interval: 3724 - 3786' Total Depth: 3786'**

Time On: 22:44 05/25 Time Off: 06:15 05/26  
 Time On Bottom: 01:13 05/26 Time Off Bottom: 04:15 05/26

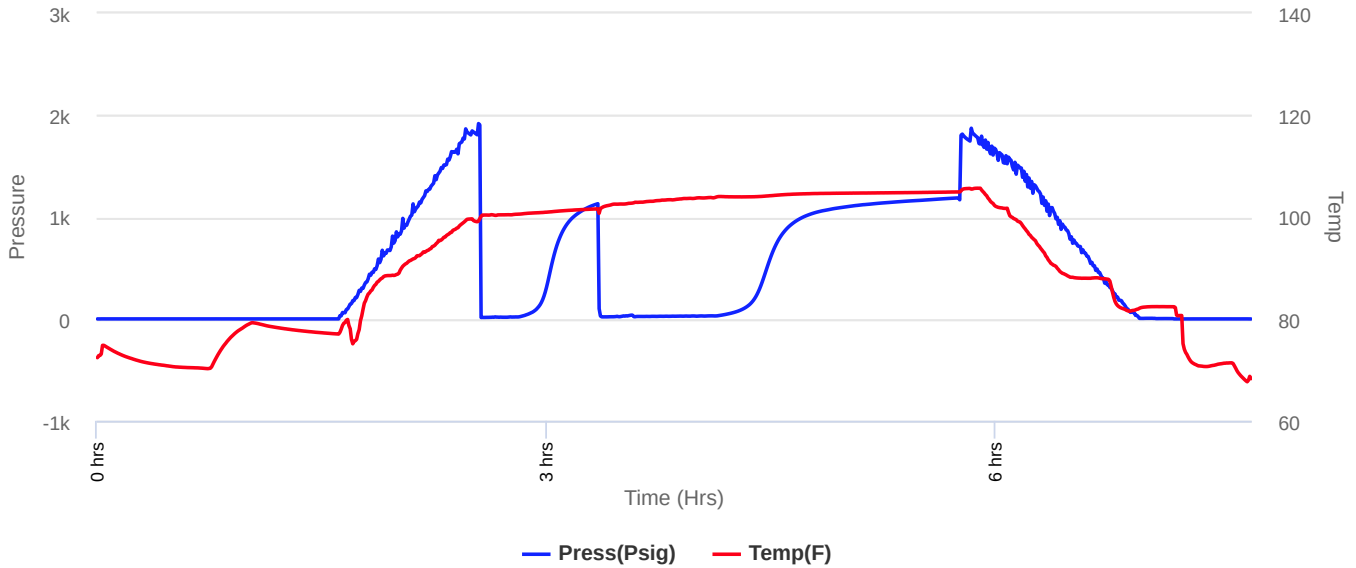
Electronic Volume Estimate:  
 59'

1st Open  
 Minutes: 15  
 2.0" at 15 min

1st Close  
 Minutes: 30  
 0" at 30 min

2nd Open  
 Minutes: 45  
 4.0" at 45 min

2nd Close  
 Minutes: 90  
 0" at 90 min





**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1904 KB  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

**DATE**  
 May  
**25**  
 2018

**DST #5 Formation: Arbuckle Test Interval: 3724 - 3786' Total Depth: 3786'**

Time On: 22:44 05/25 Time Off: 06:15 05/26  
 Time On Bottom: 01:13 05/26 Time Off Bottom: 04:15 05/26

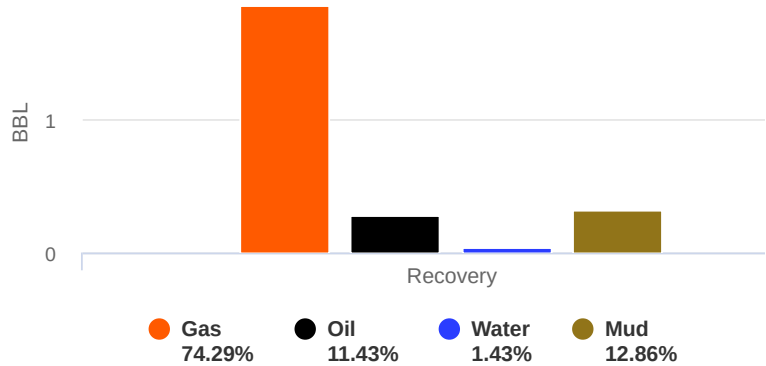
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
125	1.77875	G	100	0	0	0
50	0.7115	SLWCSLGCHOCM	10	40	5	45

Total Recovered: 175 ft  
 Total Barrels Recovered: 2.49025

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1817	PSI
Initial Flow	15 to 20	PSI
<b>Initial Closed in Pressure</b>	<b>1132</b>	<b>PSI</b>
Final Flow Pressure	21 to 31	PSI
<b>Final Closed in Pressure</b>	<b>1188</b>	<b>PSI</b>
Final Hydrostatic Pressure	1815	PSI
Temperature	105	°F
Pressure Change Initial Close / Final Close	0.0	%



**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

SEC: 9 TWN: 22S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1904 KB  
Field Name: Besthorn  
Pool: Infield  
Job Number: 161

<b>DATE</b> May <b>25</b> 2018
---

**DST #5      Formation: Arbuckle      Test Interval: 3724 - 3786'      Total Depth: 3786'**

Time On: 22:44 05/25

Time Off: 06:15 05/26

Time On Bottom: 01:13 05/26

Time Off Bottom: 04:15 05/26

**REMARKS:**

Initial Flow: blow buildt 2.0" in 30 mins.

Initial Shut-in: No blow back.

Final Flow: blow built to 4.0" in 30 mins.

Final Shut-in: No blow back.

Tool Sample= WOCM 5%W 45%O 50%M



Company: JEL Resources, LLC

Lease: Betty Hullman Estate #1-

9

SEC: 9 TWN: 22S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling, Inc - Rig 3  
Elevation: 1904 KB  
Field Name: Besthorn  
Pool: Infield  
Job Number: 161

**DATE**  
May  
**25**  
2018

DST #5    Formation: Arbuckle    Test Interval: 3724 - 3786'    Total Depth: 3786'

Time On: 22:44 05/25    Time Off: 06:15 05/26

Time On Bottom: 01:13 05/26    Time Off Bottom: 04:15 05/26

**Down Hole Makeup**

<b>Heads Up:</b> 24.93 FT	<b>Packer 1:</b> 3719 FT
<b>Drill Pipe:</b> 3716.36 FT <i>ID-3 1/2</i>	<b>Packer 2:</b> 3724 FT
<b>Weight Pipe:</b> FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 3708.42 FT
<b>Collars:</b> FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 1 FT
<b>Test Tool:</b> 33.57 FT <i>ID-3 1/2-FH</i> <i>Jars</i> <i>Safety Joint</i>	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 62	<b>Surface Choke:</b> 1"
<u><b>Anchor Makeup</b></u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 20 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> .5 FT	
<b>Drill Pipe: (in anchor):</b> 31 FT <i>ID-3 1/2</i>	
<b>Change Over:</b> .5 FT	
<b>Perforations: (below):</b> 9 FT <i>4 1/2-FH</i>	



**Company: JEL Resources, LLC**

**Lease: Betty Hullman Estate #1-**

**9**

SEC: 9 TWN: 22S RNG: 13W  
County: STAFFORD  
State: Kansas  
Drilling Contractor: Southwind Drilling,  
Inc - Rig 3  
Elevation: 1904 KB  
Field Name: Besthorn  
Pool: Infield  
Job Number: 161

<p><b>DATE</b> May <b>25</b> 2018</p>
---

**DST #5      Formation: Arbuckle      Test Interval: 3724 - 3786'      Total Depth: 3786'**

Time On: 22:44 05/25

Time Off: 06:15 05/26

Time On Bottom: 01:13 05/26

Time Off Bottom: 04:15 05/26

### **Mud Properties**

**Mud Type:** Chemical

**Weight:** 9.2

**Viscosity:** 56

**Filtrate:** 12.8

**Chlorides:** 12,200 ppm



# JUSTIN D. CARTER

## CONSULTING GEOLOGIST

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: BETTY HULLMAN ESTATE 1-9  
Well Id:  
Location: SE, NW, NE, NW Sec. 9 - 22S - 13W Stafford Co., KS  
License Number: 15-185-24019-0000  
Spud Date: 5/18/18  
Surface Coordinates: 600' FNL, 1785' FWL  
Region: Besthorn  
Drilling Completed: 05/26/18

Bottom Hole 305': 1 1/4 DEG,  
Coordinates:  
Ground Elevation (ft): 1896' K.B. Elevation (ft): 1904'  
Logged Interval (ft): 3300' To: 3910' Total Depth (ft): 3910'  
Formation: L/KC, VIOLA, ARBUCKLE  
Type of Drilling Fluid: Chemical Mud

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 [www.WellSight.com](http://www.WellSight.com)

### OPERATOR

Company: JEL RESOURCES, LLC  
Address: 21941 E. Ridge Trail Circle  
Aurora, CO 80016  
Co. Geo.: Mr. Michael Connelly

### GEOLOGIST

Name: Justin D. Carter  
Company: Consulting Geologist  
Address: 1640 N. Roosevelt Ave.  
Liberal, KS 67901  
Phone: 620-655-1187

### Comments

Drilling Contractor: Southwind Drilling Rig #3  
Tool Pusher: Jay Krier

8 5/8" surface casing set at 305'

Mud: MudCo  
Engineer: Rick Hughes

Gas Detector: Blue Stem

DSTs: Diamond Testing  
Tester: Gene Gilpin

Open-Hole Loggers: Pioneer Wireline



**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

Tester: Gene Gilpin  
 On-Site Contact: Justin Carter

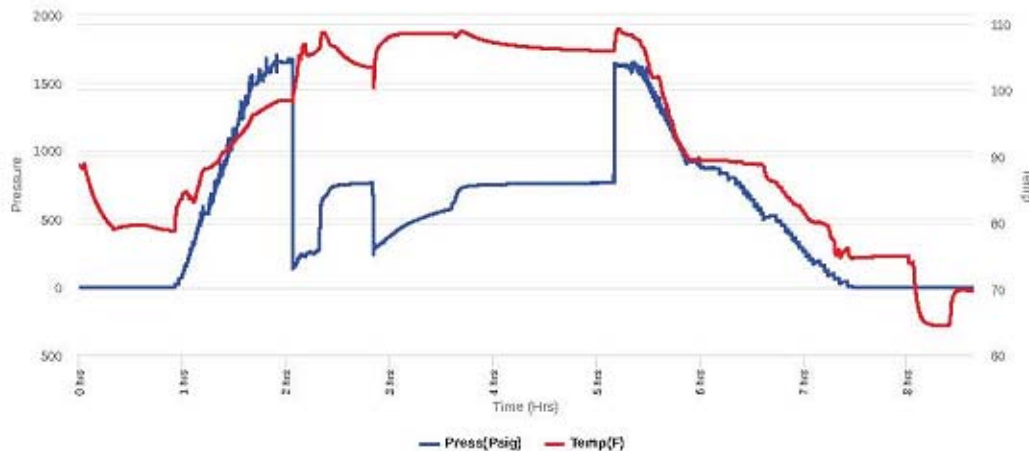
SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc -  
 Rig 3  
 Elevation: 1896 EGL  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

**DATE**  
 May  
 22  
 2018

**DST #1**    **Formation: Lans "A-F"**    **Test Interval: 3400 - 3458'**    **Total Depth: 3458'**  
 Time On: 21:30 05/22    Time Off: 05:53 05/23  
 Time On Bottom: 23:30 05/22    Time Off Bottom: 02:30 05/23

Electronic Volume Estimate:  
 N/A

<u>1st Open</u> Minutes: 15 Gauging Gas* at 15 min	<u>1st Close</u> Minutes: 30 .7" at 30 min	<u>2nd Open</u> Minutes: 45 Gauging Gas* at 45 min	<u>2nd Close</u> Minutes: 90 345.5" at 90 min
--	--	--	---

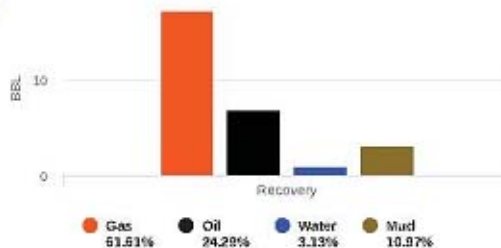


Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLS					
1134	16.13682	G	100	0	0	0
315	4.48245	SLOCGCM	22	10	0	68
441	6.27543	O	0	100	0	0
63	0.89649	SLOCW	0	3	97	0

Total Recovered: 1953 ft  
 Total Barrels Recovered: 27.79119

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1650	PSI
Initial Flow	143 to 263	PSI
Initial Closed in Pressure	764	PSI
Final Flow Pressure	237 to 573	PSI
Final Closed in Pressure	764	PSI
Final Hydrostatic Pressure	1628	PSI
Temperature	109	°F
Pressure Change Initial Close / Final Close	0.0	%

**REMARKS:**

Initial Flow: 2 in. blow increasing. BOB in 45 secs.  
 Initial Shut-in: 3/4 in. blow back.  
 Final Flow: Blow increasing. BOB in 8 secs.  
 Final Shut-in: BOB blow back in 15 mins.

Tool Sample: 3% gas, 47% oil, 43% water, 7% mud

Gravity: 21.1 @ 60 degrees F

Ph: 6

RW: .125 @ 68 degrees F

Chlorides: 55,000 ppm



**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

Tester: Gene Gilpin  
 On-Site Contact: Justin Carter

SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc -  
 Rig 3  
 Elevation: 1896 EGL  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

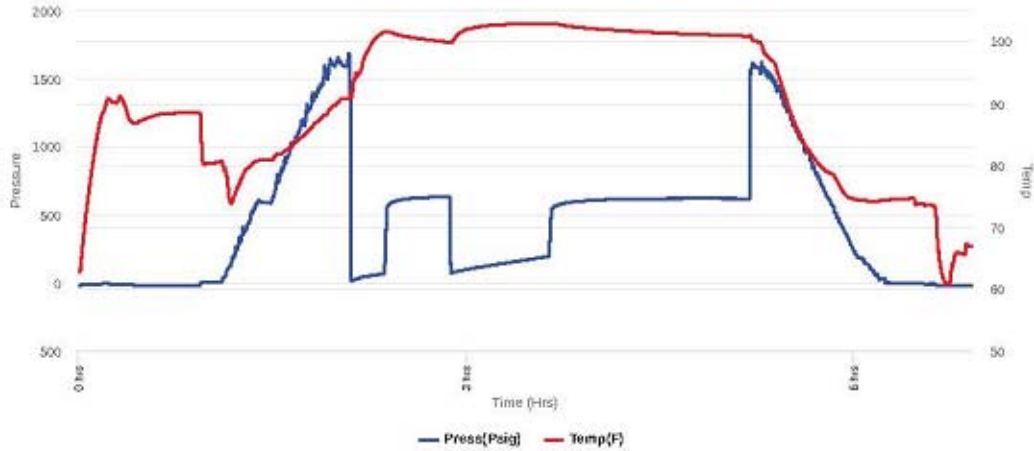
**DATE**  
 May  
**23**  
 2018

**DST #2 Formation: Lans "H" Test Interval: 3510 - 3532' Total Depth: 3532'**

Time On: 15:35 05/23 Time Off: 22:18 05/23  
 Time On Bottom: 17:38 05/23 Time Off Bottom: 20:38 05/23

Electronic Volume Estimate:  
 521'

1st Open	1st Close	2nd Open	2nd Close
Minutes: 15	Minutes: 30	Minutes: 45	Minutes: 90
16.4" at 15 min	.7" at 30 min	41.4" at 45 min	0" at 90 min

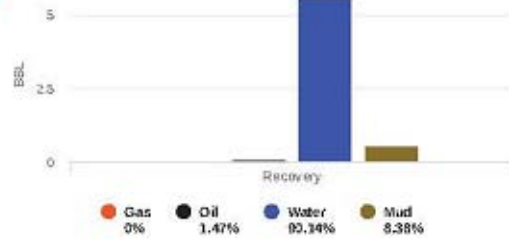


Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLS					
121	1.72183	MCW (trace oil)	0	.1	74.9	25
315	4.48245	SLOCSLMCW	0	2	96	2

Total Recovered: 436 ft  
 Total Barrels Recovered: 6.20428

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1622	PSI
Initial Flow	15 to 68	PSI
<b>Initial Closed in Pressure</b>	<b>633</b>	<b>PSI</b>
Final Flow Pressure	73 to 195	PSI
<b>Final Closed in Pressure</b>	<b>619</b>	<b>PSI</b>
Final Hydrostatic Pressure	1615	PSI
Temperature	103	°F
Pressure Change Initial Close / Final Close	2.2	%

**REMARKS:**

Initial Flow: Blow increasing. BOB in 10 mins.  
 Initial Shut-in: .7 in, blow back.  
 Final Flow: Blow increasing. BOB in 11 1/2 mins.  
 Final Shut-in: No blow back.

Tool Sample: Trace oil, 99% water, 1% mud

Ph: 6

RW: .100 @ 70 degrees F

Chlorides: 78,000 ppm



**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

Tester: Gene Gilpin  
 On-Site Contact: Justin Carter

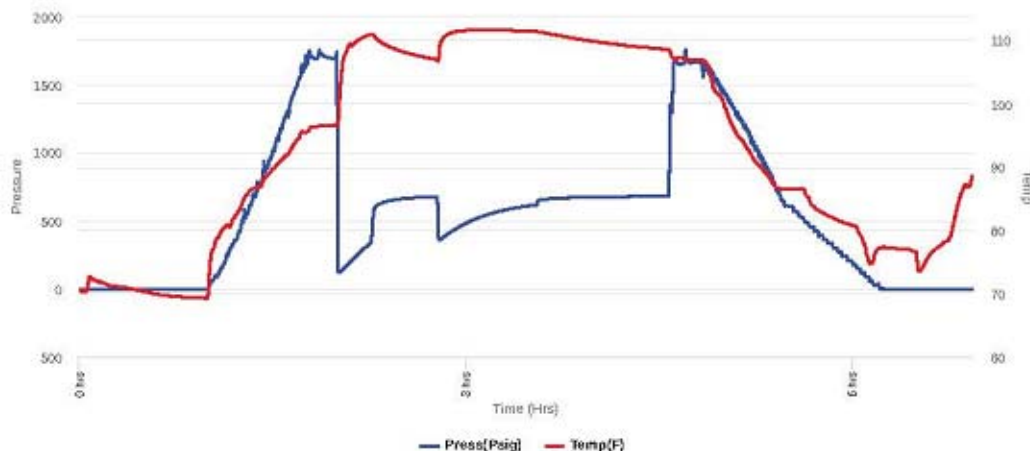
SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc -  
 Rig 3  
 Elevation: 1896 EGL  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

**DATE**  
 May  
 24  
 2018

**DST #3**    **Formation: Lans "I&J"**    **Test Interval: 3531 - 3571'**    **Total Depth: 3571'**  
 Time On: 07:27 05/24    Time Off: 14:14 05/24  
 Time On Bottom: 09:26 05/24    Time Off Bottom: 11:56 05/24

Electronic Volume Estimate:  
 1637'

<u>1st Open</u> Minutes: 15 98.4" at 15 min	<u>1st Close</u> Minutes: 30 .1" at 30 min	<u>2nd Open</u> Minutes: 45 103.5" at 45 min	<u>2nd Close</u> Minutes: 60 1.8" at 60 min
---	--	--	---

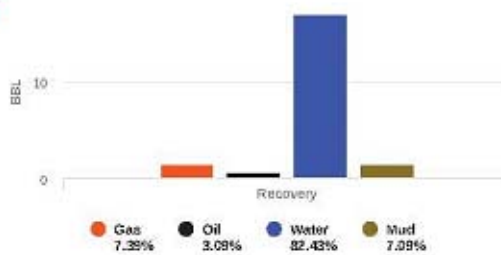


<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
63	0.89649	G	100	0	0	0
126	1.79298	SLOGCMCW	20	3	57	20
189	2.68947	SLOCSLGCMLCW	10	3	72	15
315	4.48245	SLOCSLMCW	0	2	88	10
126	1.79298	SLMCSLOCW	0	8	88	4
630	8.9649	SLMCSLOCW	0	3	95	2

Total Recovered: 1449 ft  
 Total Barrels Recovered: 20.61927

**Reversed Out**  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1698	PSI
Initial Flow	129 to 339	PSI
<b>Initial Closed In Pressure</b>	<b>078</b>	<b>PSI</b>
Final Flow Pressure	360 to 620	PSI
<b>Final Closed In Pressure</b>	<b>582</b>	<b>PSI</b>
Final Hydrostatic Pressure	1694	PSI
Temperature	112	*F
Pressure Change Initial Close / Final Close	0.0	%

**REMARKS:**

Initial Flow: Blow increasing. BOB in 1 min.  
 Initial Shut-in: Weak, surface blow back.  
 Final Flow: Blow increasing. BOB in 2 mins.  
 Final Shut-in: 1.8" blow back.

Tool Sample: 3% oil, 96% water, 1% mud

Hit bridge 45 ft. off bottom

Ph: 7

RW: .99 @ 79 degrees F

Chlorides: 70,000 ppm



**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

Tester: Gene Gilpin  
 On-Site Contact: Justin Carter

SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1904 KB  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

**DATE**  
 May  
 25  
 2018

**DST #4**      **Formation: Viola**      **Test Interval: 3646 - 3710'**      **Total Depth: 3710'**  
 Time Cir: 01:16 05/25      Time Off: 07:51 05/25  
 Time On Bottom: 03:22 05/25      Time Off Bottom: 06:17 05/25

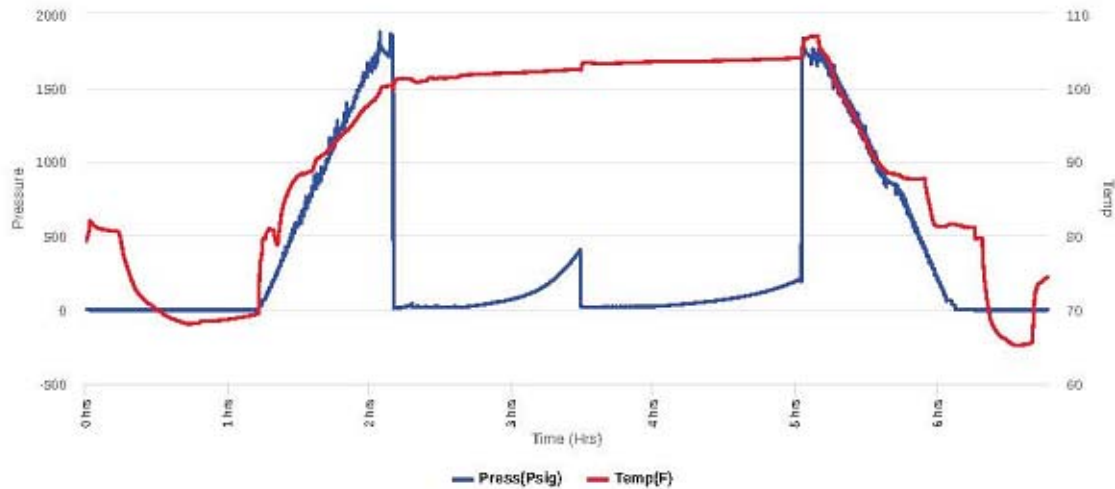
Electronic Volume Estimate:  
 29'

1st Open  
 Minutes: 30  
 2.1" at 30 min

1st Close  
 Minutes: 45  
 0" at 45 min

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

2nd Close  
 Minutes: 60  
 0" at 60 min

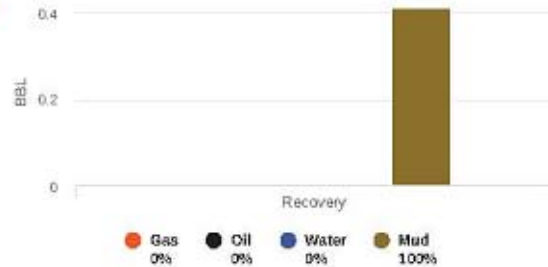


Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Ent	BBLs					
29	0.41267	M	0	0	0	100

Total Recovered: 29 ft  
 Total Barrels Recovered: 0.41267

Reversed Out  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1748	PSI
Initial Flow	13 to 18	PSI
Initial Closed in Pressure	406	PSI
Final Flow Pressure	21 to 22	PSI
Final Closed in Pressure	209	PSI
Final Hydrostatic Pressure	1743	PSI
Temperature	104	°F
Pressure Change Initial Close / Final Close	48.5	%

**REMARKS:**

Initial Flow: 1/2 in. blow building to 2.1 ins. in 30 mins.  
 Initial Shut-in: No blow back  
 Final Flow: .2 in. blow building to .9 in. in 30 mins.  
 Final Shut-in: No blow back.

Tool Sample: 10% oil, 40% water, 50% mud

Ph: 7

RW: .35 @ 68 degrees F

Chlorides: 20,000 ppm





**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

Tester: Wil Steinbeck  
 On-Site Contact: Justin Carter

SEC: 9 TWN: 22S RNG: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc - Rig 3  
 Elevation: 1904 KB  
 Field Name: Besthorn  
 Pool: Infield  
 Job Number: 161

**DATE**  
 May  
 25  
 2018

**DST #5**      **Formation: Arbuckle**      **Test Interval: 3724 - 3786'**      **Total Depth: 3786'**  
 Time On: 22:44 05/25      Time Off: 06:15 05/26  
 Time On Bottom: 01:13 05/26      Time Off Bottom: 04:15 05/26

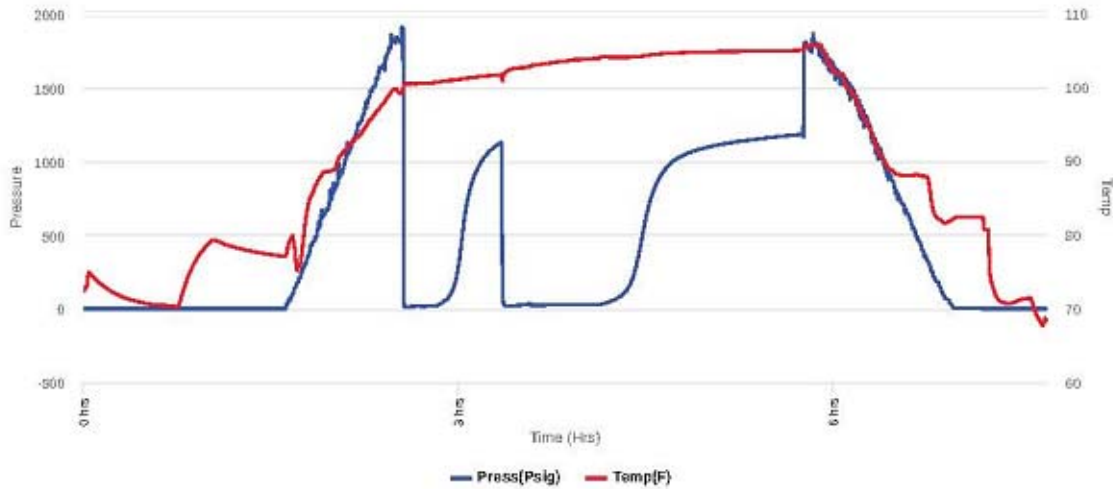
Electronic Volume Estimate:  
 59'

**1st Open**  
 Minutes: 15  
 2.0" at 15 min

**1st Close**  
 Minutes: 30  
 0" at 30 min

**2nd Open**  
 Minutes: 45  
 4.0" at 45 min

**2nd Close**  
 Minutes: 90  
 0" at 90 min

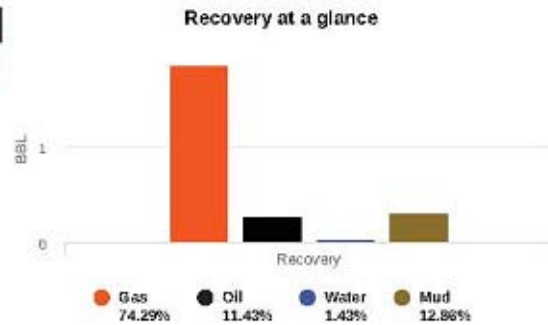


Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
125	1.77875	G	100	0	0	0
50	0.7115	SLWCSLGCHOCM	10	40	5	45

Total Recovered: 175 ft  
 Total Barrels Recovered: 2.49025

Reversed Out  
 NO

Initial Hydrostatic Pressure	1817	PSI
Initial Flow	15 to 20	PSI
Initial Closed in Pressure	1132	PSI
Final Flow Pressure	21 to 31	PSI
Final Closed in Pressure	1188	PSI
Final Hydrostatic Pressure	1815	PSI
Temperature	105	°F
Pressure Change Initial Close / Final Close	0.0	%



**REMARKS:**  
 Initial Flow: blow buildt 2.0" in 30 mins.  
 Initial Shut-in: No blow back.  
 Final Flow: blow built to 4.0" in 30 mins.  
 Final Shut-in: No blow back.

Tool Sample= WOCM 5%W 45%O 50%M



**Company: JEL Resources, LLC**  
**Lease: Betty Hullman Estate #1-9**

Tester: Wil Steinbeck  
 On-Site Contact: Justin Carter

SEC: 9 TWN: 22S R1G: 13W  
 County: STAFFORD  
 State: Kansas  
 Drilling Contractor: Southwind Drilling, Inc -  
 Rig 3  
 Elevation: 1904 KB  
 Field Name: Besthom  
 Pool: Infield  
 Job Number: 161

**DATE**  
 May  
 26  
 2018

DST #6    Formation: Arbuckle    Test Interval: 3786 - 3791'    Total Depth: 3791'  
 Time On: 11:22 05/26    Time Off: 15:58 05/26  
 Time On Bottom: 13:38 05/26    Time Off Bottom: 14:20 05/26

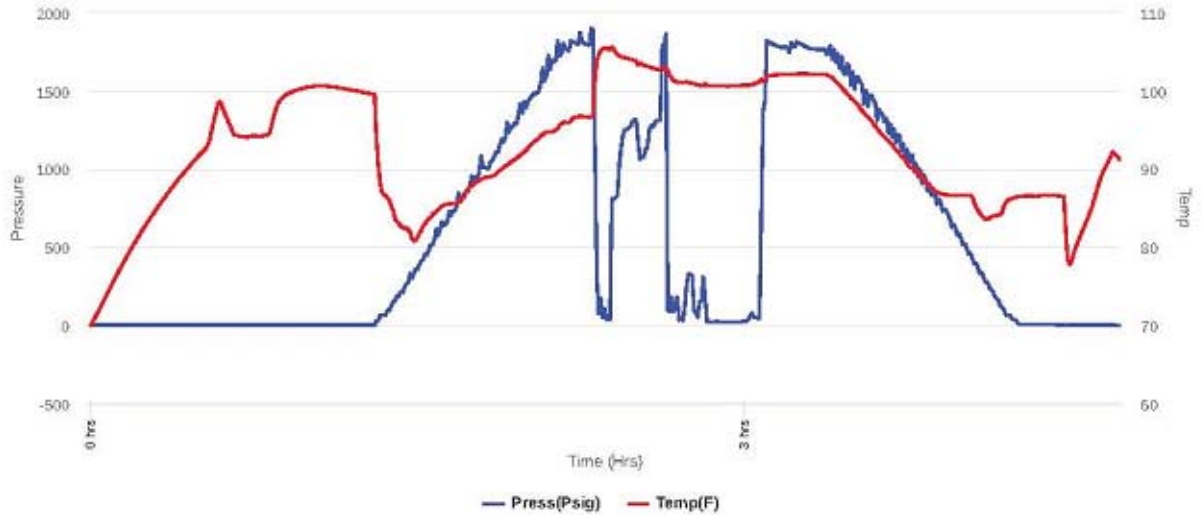
Electronic Volume Estimate:  
 2'

1st Open  
 Minutes: 40  
 .2" at 40 min

1st Close  
 N/A

2nd Open  
 N/A

2nd Close  
 N/A

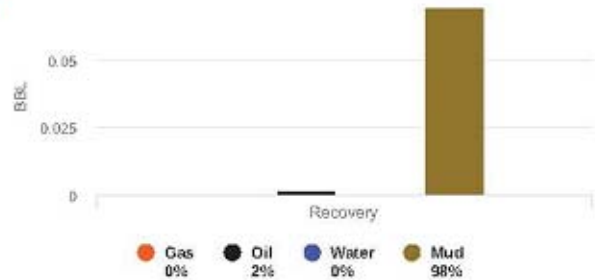


<u>Recovered</u>		<u>Description of Fluid</u>	<u>Gas %</u>	<u>Oil %</u>	<u>Water %</u>	<u>Mud %</u>
<u>Foot</u>	<u>BBLs</u>					
5	0.07115	SLOCM	0	2	0	98

Total Recovered: 5 ft  
 Total Barrels Recovered: 0.07115

**Reversed Out**  
 NO

**Recovery at a glance**



Initial Hydrostatic Pressure	1802	PSI
Initial Flow	75 to 40	PSI
Initial Closed in Pressure	0	PSI
Final Flow Pressure	0	PSI
Final Closed in Pressure	0	PSI
Final Hydrostatic Pressure	1796	PSI
Temperature	105	°F
Pressure Change Initial Close / Final Close	0.0	%

**REMARKS:**

Initial Flow: built to .5 in 20 min flushed the tool and built to .2 in 40 min

Tool Sample = MUD

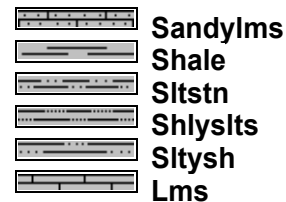
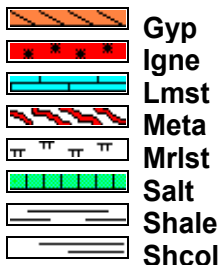
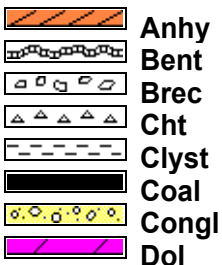
## Remarks

After careful review of the sample log, electric logs, and DST reports, the decision was made to run 5 1/2" casing to do further testing of the L/KC "C", "D", "G", and the Arbuckle zones in the Betty Hullman Estate 1-9.

Respectfully submitted,

Justin D. Carter  
Consulting Geologist

## ROCK TYPES



## ACCESSORIES

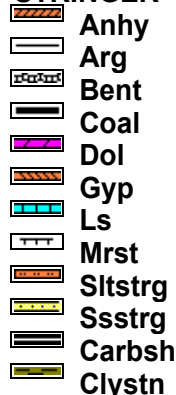
### FOSSIL



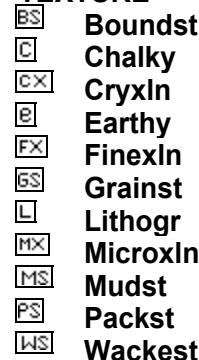
### MINERAL



### STRINGER



### TEXTURE

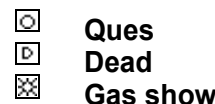
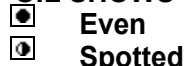


## OTHER SYMBOLS

### INTERVALS

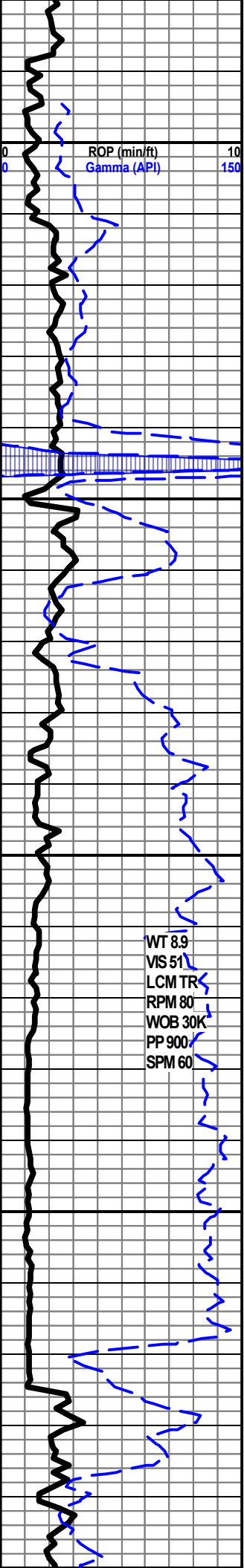


### OIL SHOWS





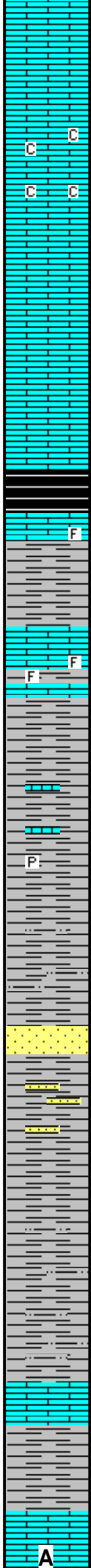




3200  
3250  
3300  
3350  
00

ROP (min/ft)  
Gamma (API)

WT 8.9  
VIS 51  
LCM TR  
RPM 80  
WOB 30K  
PP 900  
SPM 60



LS- LT CRM OFF WHT, BRITT TO HRD IP, VF-XLN, RE-XLN MTRX IP TO TR SUB-CHLKY, NO FLO, TR INTE-XLN POR TO NO VIS POR THRU, NS

LS- OFF WHT, BRITT, VF-XLN, SUB-CHLKY MTRX THRU, TR SFT WHT CHLK, NO FLO, NO VIS POR, TR BLK RESIDUAL STAIN, NO ODOR

LS- LT GY, HRD DNS, VF-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR, TR BLK RESID STAIN, NO ODOR

LS- BRN, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, NO FLO, NO VIS POR

**HEEBNER 3246' (-1342')**

LS- OFF WHT, HRD DNS, VF-XLN, RE-XLN MTRX IP, TR IMBED FOSS FRAGS, NO FLO, NO VIS POR

LS- CRM, HRD, F/VF-XLN, RE-XLN MTRX IP TO SUB-SUCRO MTRX IP, TR IMBED FOSS FRAGS, TR LAM GY SH, NO FLO, NO VIS POR

**DOUGLAS 3280' (-1376')**

SH- GY, FRM, BLKY, SLTY IP TO LMYIP, OFF WHT LS IP

SH- GY, FRM TO SFT IP, LMY TO TR SLTY, PYR IP

SH- GY, FRM, BLKY, SLTY, TR SLTST

SS- CLR FRSTY, TT, F-GRNS, FR SRT, SUB-ANG GRNS, DISS BLK SH SCAT THRU, NO FLO, PR INTER-GRN POR SCAT THRU, NS

SH- GY, FRM TO SFT IP, LMY TO TR SLTY, WXY, TR FINE GRN SLTST

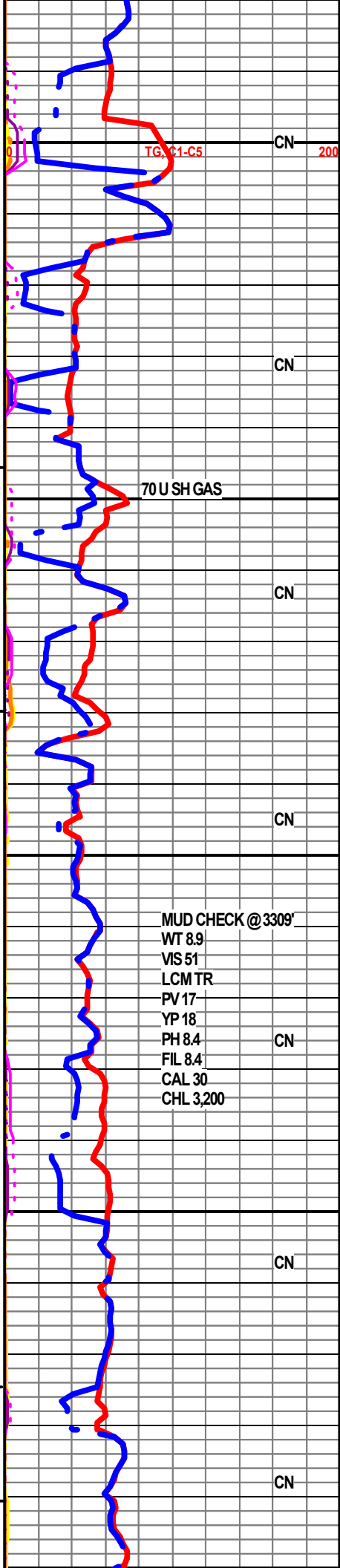
**BROWN LIME 3375' (-1471')**

LS- BRN, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX THRU, NO FLO, NO VIS POR

SH- DK GY, FRM TO SFT, LMY TO TR SLTY, WXYTEXT

**LANSING 3391' (-1487')**

LS- OFF WHT BRITT TO HRD IP, VF-XLN, RE-XLN MTRX IP TO TR GRST TR



CN

CN

CN

CN

CN

CN

CN

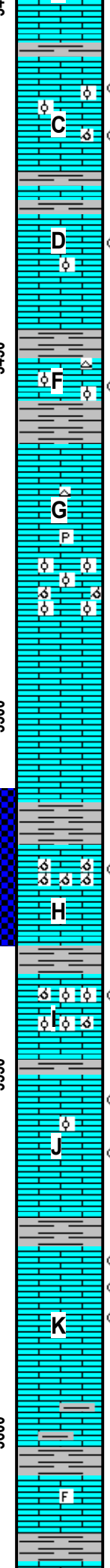
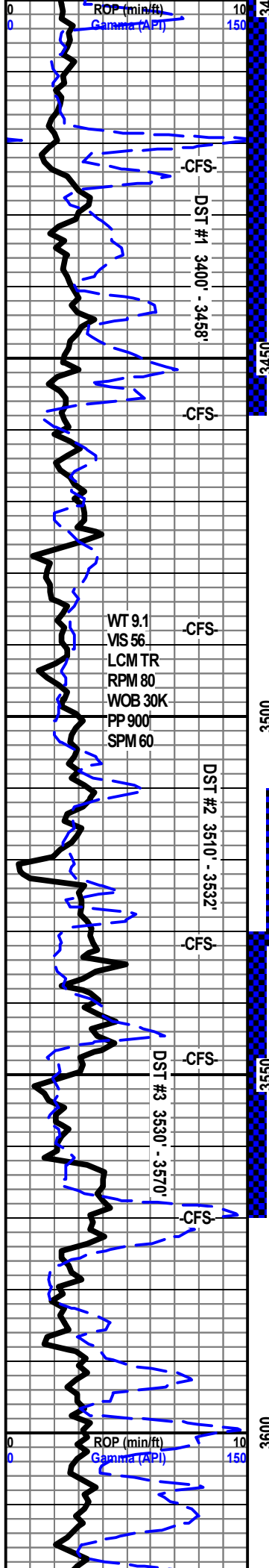
TG, C1-C5

200

70 U SH GAS

MUD CHECK @ 3309'

WT 8.9  
VIS 51  
LCM TR  
PV 17  
YP 18  
PH 8.4  
FIL 8.4  
CAL 30  
CHL 3,200



LS-OFF WHT, BRN TO HRD, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, TR IMBED OOL, TR SFT WHT CHLK, NO FLO, TR INTER-XLN POR, TR BLK RESID STAIN, NO ODOR

LS- GY BFF TN, MOTT, CORSE/VF-XLN, GRST THRU TO TR RE-XLN MTRX, IMBED GY SH IP, IMBED OOL IP, TR SFT WHT CHLK, YEL GLD FLO IN 10%, PR FLUSH TO PR/FR SLO BLU STRM CUT, TR INTER-XLN POR TO TR OOMLD POR, TR TN STAIN, FAINT ODOR, NSFO

LS- LT CRM LT GY, HRD, CORSE/VF-XLN, GRST IP TO SUCRO MTRX IP, TR OOL, BRIT YEL GLD FLO IN 30%, FR FLUSH TO FR FAST BLU STRM CUT, PR/FR INTER-XLN POR SCAT THRU TO TR MICRO PP POR, TN STAIN IP TO TR LIVE OIL STAIN, GD ODOR

LS- GY OFF WHT, MOTT, HRD DNS, MD/VF-XLN RE-XLN MTRX THRU TO TR GRST, IMBED OOL IP, TR IMBED GY SH, TR OOL CHRT, TR BRIT YEL GLD FLO, PR SLO BLU STRM CUT, TR INTER-XLN POR, TR STAIN, FAINT ODOR

STRAP OUT @ 3458', 6.68' SHORT TO BOARD

LS- CRM TN, HRD DNS, VF-XLN, SUB-SUCRO MTRX IP TO RE-XLN MTRX IP, IMBED OOL IP, NO FLO, TR INTER-XLN POR TO NO VIS POR THRU, NS

LS- CRM, BRITT, MD/VF-XLN, GRST THRU TO TR SUB-CHLKY MTRX, IMBED OOL SCAT THRU, IMBED GY SH IP, TR PYR, TR DLL YEL FLO, NO CUT, PR INTER-XLN POR IP TO TR OOMLD POR TO TR INTER-OOL POR, NO ODOR

LS- CRM, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, TR SFT WHT CHLK, NO FLO, TR BLK RESID STAIN, NO ODOR

LS- WHT CRM, BRITT, F/VF-XLN, SUCRO MTRX THRU, TR IMBED OOL, SCAT BRIT YEL GLD FLO, FR FLUSH TO FR FAST BLU STRM CUT, GD OOMLD POR THRU, TR LIVE OIL STAIN IN BRN STAIN IN 20%, V/FAINT ODOR

STRAP OUT @ 3532', 8.22' SHORT TO BOARD

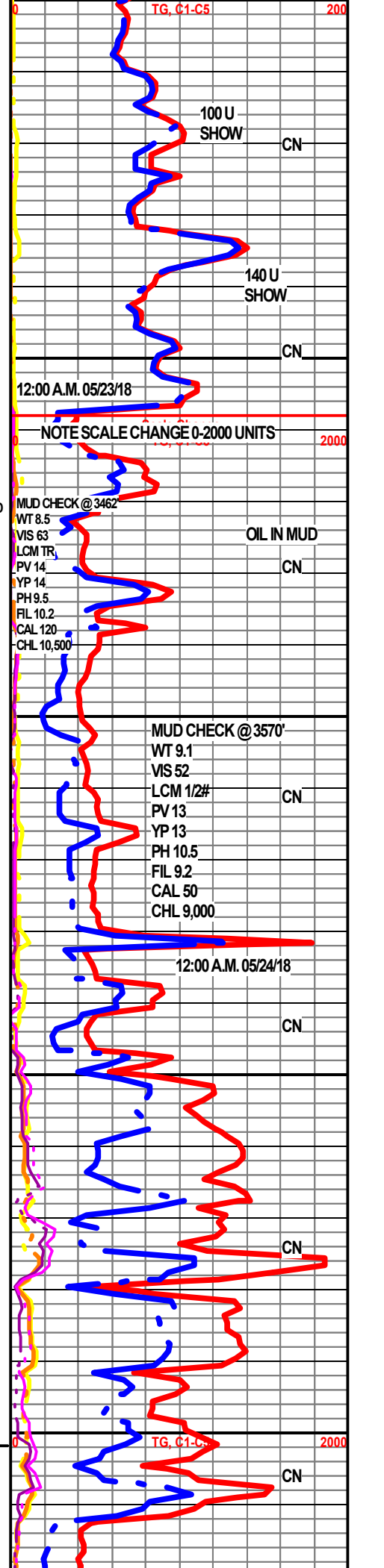
LS- WHT LT GY, HRD TO BRITT IP, F/VF-XLN, GRST IP TO RE-XLN MTRX IP, IMBED OOL IP, DLL YEL FLO THRU TO TR BRIT YEL GLD, FR FLUSH TO GD FAST BLU STRM CUT, TR INTER-XLN POR TO FR INTER-OOL POR IP TO PR OOMLD IP, TN STAIN IN 60% TO TR LIVE OIL STAIN, GAS BUBBLS, FR ODOR

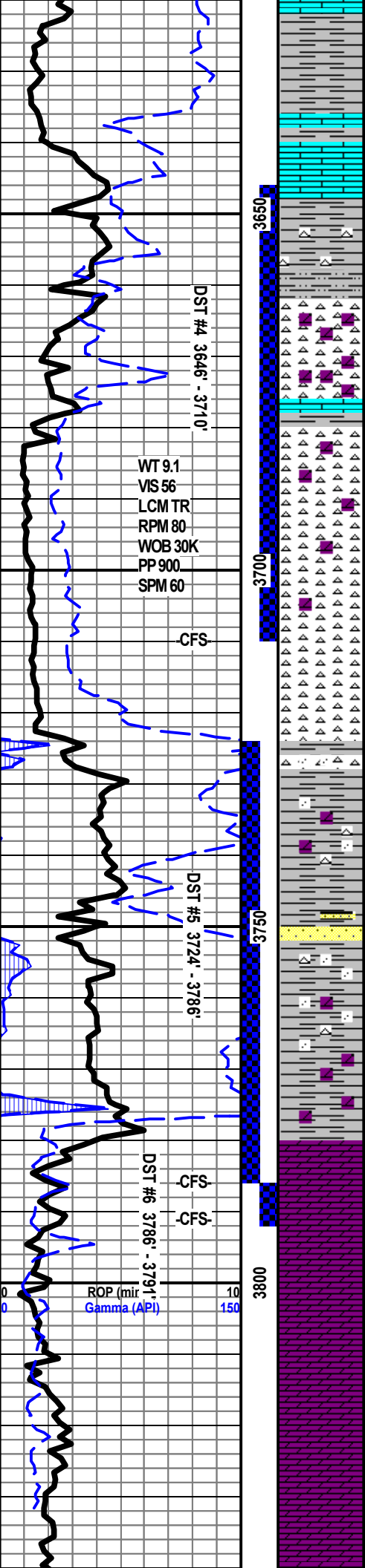
LS- CRM TN, BRITT, F-XLN, SUCRO MTRX THRU, TR IMBED OOL, BRIT YEL TO YEL GLD FLO THRU, FR FLUSH TO FR SLO BLU STRM CUT, PR/FR INTER-XLN POR IP TO FR MICRO PP POR SCAT THRU TO TR INTER-OOL, TN STAIN THRU, STRNG ODOR, FREE OIL

LS- WHT, HRD TO BRITT IP, F/VF-XLN, SUB-SUCRO MTRX THRU, TR OOL, BRIT YEL GLD FLO IN 40%, FR FLUSH TO FR BLU STRM CUT, PR INTER-XLN POR IP TO TR OOMLD, TN STAIN IN 70%, TR FREE OIL, FR/STRNG ODOR

**BKC 3602' (-1698')**

LS- OFF WHT BRN, HRD DNS, VF/CRYPTO-XLN, RE-XLN MTRX IP, TR FOSS FRAGS, NO FLO, NO VIS POR





SH- BLK GY, FRM, BLKY IP TO FISS IP, SLTY IP TO LMY IP

CN

LS- CRM, HRD DNS, CRYPTO-XLN, RE-XLN MTRX IP, OPQ WHT CHRT IP, NO FLO, NO VIS POR

CHRT- WHT TN OPQ, HRD DNS, TR TRIPOL CHRT W/ PR INTER-XLN POR, TR BLK RESIDUAL STAIN, NO ODOR

CHRT- TN WHT OPQ, HRD DNS, ANG, TR V/F-XLN DOLO W/TN STAIN, PR INTER-XLN POR, GAS BUBBLS, GD SHOW FREE OIL, STRNG ODOR

**VIOLA 3681' (-1777')**

CHRT- WHT, ANG, TN STAIN IN 10%, FAIR SHOW FREE OIL, FR ODOR

CHRT- WHT, ANG, TR TN STAIN, TR TRIPOL CHRT, FRAC CHRT IP, TN V/F-XLN DOLO W/ GAS BUBBLS IP, GD SHOW FREE OIL, STRNG ODOR

CN

CN

CHRT- WHT, ANG, TR TN STAIN, TR FRAC POR, PR ODOR, TR FREE OIL

12:00 A.M. 05/25/18

SH- GRN GY PRPLE, FRM, BLKY, LMY TO TR SLTY, TR F-GRN SS, REWRKED CHRT W/ BLK STAIN, FAINT ODOR

MUD CHECK @3710'

WT 9.2  
VIS 56  
LCM TR  
PV 8  
YP 28  
PH 9.0  
FIL 12.8  
CAL 240  
CHL 12,200

CN

TRIP OUT 6 STANDS, REPLACE LINER GASKET @3749'

SS- CLR LT CRM, FRI, F-GRNS, FR SRT, SILI CMNT, SUB-RND GRNS, PR/FR INTER-GRN POR, DLL YEL GLD FLO IN 50%, PR FLUSH TO PR BLU STRM CUT, DK TN STAIN IN 20%, FAINT ODOR

SH- GRN RD GY, FRM TO SFT IP, LMY, TR SS, TR WHT CHRT,

CN

TRIP OUT 5 STANDS, REPLACE LINER GASKET @3786'

**ARBUCKLE 3779' (-1875')**

DOLO- TN BLK, HRD TO BRITT IP, F-XLN, SUCRO MTRX THRU, VUGS IP TO TR OOMLD, TR CORSE RHOMBS, DLL YEL FLO TO BRIT YEL GLD WHEN CUT, GD FLUSH TO GD STRM CUT, FR INTER-XLN POR IP TO FR VUG POR, LIVE OIL STAIN, STRNG ODOR, GD SHOW FREE OIL

12:00 A.M. 05/26/18

CN

DOLO- TN BFF HRD DNS, MD/VF-XLN, SUCRO MTRX THRU, GD CUT, PR/FR INTER-XLN POR THRU, LIVE BLK STAIN IP TO TN STAIN IP, FREE OIL, STRNG ODOR

MUD CHECK @3786' 2000

3796' DOLO- OFF WHT BLK, HRD TO BRITT IP, MD/VF-XLN, SUCRO MTRX THRU, DLL YEL GLD FLO IN 30% TO BRIT YEL GLD FLO WHEN CUT, FR/GD INTER-XLN POR THRU, LIVE STAIN SCAT THRU, FREE OIL, STRNG ODOR

WT 9.1  
VIS 47  
LCM TR  
PV 9  
YP 19  
PH 9.5  
FIL 12.6  
CAL 130  
CHL 11,900

CN

3805' DOLO- OFF WHT BLK, HRD, MD/VF-XLN, SUCRO MTRX THRU, FR/GD INTER-XLN POR, FREE OIL, STRNG ODOR

3810' DOLO- LT TN, HRD DNS, VF-XLN, RE-XLN MTRX IP TO TR SUCRO MTRX, TR INTER-XLN POR TO NO VIS POR, BARREN, STRNG ODOR

DOLO- LT TN, HRD TO BRITT IP, MD/VF-XLN, SUCRO MTRX THRU TO TR RE-XLN MTRX, BARREN, FR INTER-XLN POR IP TO NO VIS POR IP, NO STAIN, STRNG ODOR

DOLO-OFF WHT LT CRM, HRD TO BRITT IP, MD/F-XLN, SUCRO  
MTRX THRU, SFT WHT CHLK IP, DLL YEL FLO IP, NO VIS CUT,  
FR INTER-XLN POR THRU, FR ODOR

DOLO- CRM, HRD, MD/F-XLN, SUCRO MTRX THRU, TR SFT  
WHT CHLK, FR INTER-XLN POR THRU, FR ODOR, NS

CN

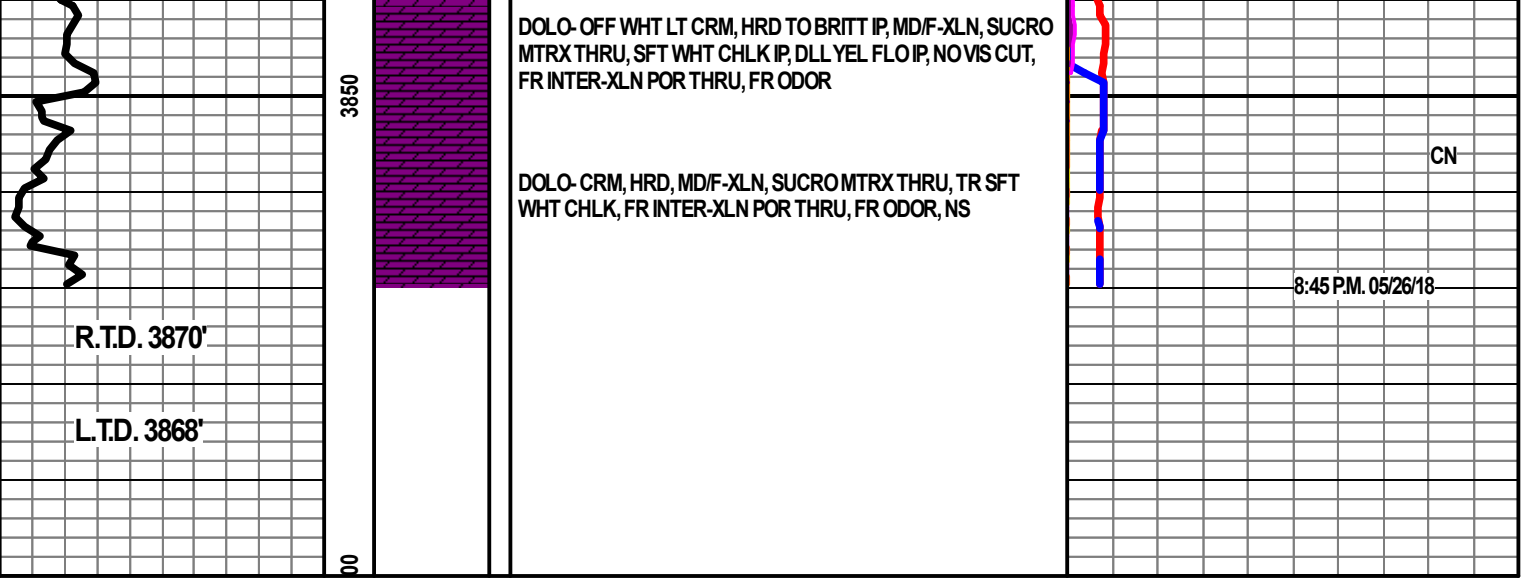
8:45 P.M. 05/26/18

3850

00

R.T.D. 3870'

L.T.D. 3868'



# STATE OF KANSAS



CORPORATION COMMISSION  
CONSERVATION DIVISION  
266 N. MAIN ST., STE. 220  
WICHITA, KS 67202-1513

PHONE: 316-337-6200  
FAX: 316-337-6211  
<http://kcc.ks.gov/>

GOVERNOR JEFF COLYER, M.D.

SHARI FEIST ALBRECHT, CHAIR | JAY SCOTT EMLER, COMMISSIONER | DWIGHT D. KEEN, COMMISSIONER

October 15, 2018

Michael Connelly  
JEL Resources, LLC  
6545 S RIVIERA WAY  
AURORA, CO 80016-2688

Re: ACO-1  
API 15-185-24019-00-00  
BETTY HULLMAN ESTATE 1-9  
NW/4 Sec.09-22S-13W  
Stafford County, Kansas

Dear Michael Connelly:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 05/18/2018 and the ACO-1 was received on October 15, 2018 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 478

Date	Sec.	Twp.	Range	County	State	On Location	Finish
5-18-14	9	22	13	S. 11	KS		9:45

Location 291 + 19 HWY 1/2 W S 110

Lease	Well No.	Owner
Contractor		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job		Charge To JEL Resources
Hole Size	T.D.	Street
Csg.	Depth	City
Tbg. Size	Depth	State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered 450 50/20 30 20
Meas Line	Displace	

EQUIPMENT			Common
Pumptrk	No.	Cementor	Poz. Mix
		Helper	
Bulktrk	No.	Driver	Gel.
		Driver	
Bulktrk	No.	Driver	Calcium
		Driver	

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
		Handling

Ran 7 3/4" of 8 5/8" @ 305	Mileage
Est circulation	9 5/8" <b>FLOAT EQUIPMENT</b>
Mix 450 sx	Guide Shoe
Displaced 18 bbl H <sub>2</sub> O	Centralizer
	Baskets
Cement circulated	AFU Inserts
	Float Shoe
	Latch Down
	Wood Plug
	Pumptrk Charge
	Mileage

X Signature <i>Jay</i>	Tax
	Discount
	Total Charge