

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	Raymond Oil Company, Inc.
Well Name	W & H UNIT 2
Doc ID	1391301

All Electric Logs Run

Micro
Comp
Dual Ind
Sonic

KIM B. SHOEMAKER
CONSULTING GEOLOGIST
 316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT
 DRILLING TIME AND SAMPLE LOG

COMPANY RAYMOND OIL COMPANY, INC. ELEVATIONS
 LEASE # 2 W 1/4 H UNIT KB 2723
 FIELD ALAMOTA SOUTH DF _____
 LOCATION 2314' FSL & 228' FWL GL 2718
 SEC 9 TWP 19s RGE 27w Measurements Are All
 COUNTY LANE STATE KANSAS From 2723 KB
 CONTRACTOR L.D. DRILLING, INC. SURFACE CASINGS
 SPUD 1-29-18 COMP 2-7-18 SURFACE 8 5/8" @ 260
 RTD 4770 LTD 4775 PRODUCTION _____
 MUD UPR 3471 TYPE MUD CHEMICAL ELECTRICAL SURVEYS
 DUAL IND., DEN-S, N., MICR, SONIC

SAMPLES SAVED FROM 3400 TO 4770
 DRILLING TIME KEPT FROM _____ TO 4770
 SAMPLES EXAMINED FROM _____ TO 4770
 GEOLOGICAL SUPERVISION FROM 3900 TO 4770
 GEOLOGIST ON WELL Kim B. Shoemaker

FORMATION TOPS	LOG	SAMPLES
AWWDRITE	2071+652	2070+653
B/AWFL	2100+623	2098+625
STOTLER	3552-829	3550-827
HEEBNER	3986-1263	3982-1259
LANSING	4026-1303	4022-1299
STAR K	4293-1570	4289-1566
MARMATON	4404-1681	4403-1680
FORT SCOT	4546-1823	4539-1816
CHERDKEE	4568-1845	4564-1841
Miss. Dol.	4682-1959	4677-1954

REMARKS

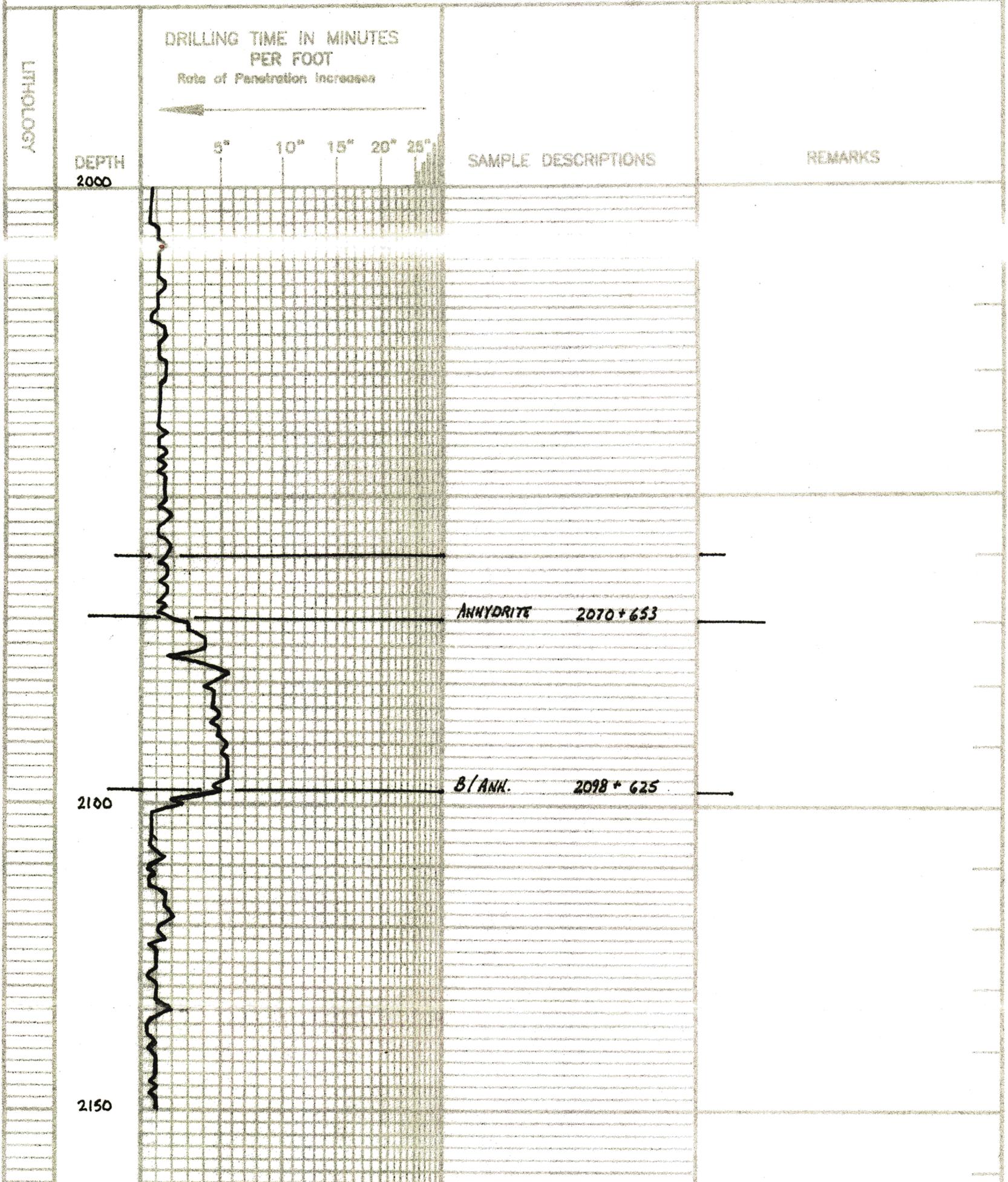
1-29-18 SAND	
1-30 @ 263'	
1-31 @ 1818	
2-1 @ 2735	
2-2 @ 3315	
2-3 @ 3887	
2-4 @ 4165	
2-5 @ 4315	
2-6 @ 4630	
2-7 @ 4770	

API: 15-101-22601

LEGEND



Anhydrite Salt Sandstone Shale Carb sh Limestone Ool. Lims Chert Dolomite



3400

Samples are Lagged

Sh. G. Silty

LS. Th. Foss. Sil. Chlly.

Sh. G. Cr.

LS. Silty Foss.

✓ Displaced Mud
@ 3471

LS. Th. Foss. Celestic

Sh. R. G. Silty

3500

Sh. R. G. Cr.

Sh. L. G. Cr. Silty

STOTLER (WAB.) 3550-827

LS. Th. L. G. Sil. Foss.



3600

3700



15. To Br VSt Foss.

15. wt Gy. Foss VSt Chly.

15. Gy. VSt Foss.

15. To Gy. Sl. Foss.

15. Gy.

15. Gy. VSt A

15. Br Gy.

15. wt To Foss

15. To Foss Glettie

15. wt Sl. Foss Sl. Chly.

15. Gy.

15. wt Foss. Collettie

15. Br Gy. Sl. Foss.

15. To wt Sl. Foss Chly.

15. wt Foss Sl. Chly.

15. wt To Foss Collettie

3800

3900

VIS: 47

WT: 9.1

WU: 7.2

CHL: 3800

Sh. G.

LS. T. wt Foss. Colentic

LS. wt VSI Foss. Sl. Chlg.

LS. T. wt Sl. Foss. Sl. A

LS. T. wt Foss. Colentic

Sh. Blk. Chlg. LS. wt VSI Foss.

Sh. Llg. G.

LS. wt Foss.

LS. T. wt Foss. Colentic

LS. T. Llg. Sl. Foss. Sl. A

Sh. G. G.

LS. wt Llg. Foss.

LS. wt Sl. Foss. Sl. Chlg.

LS. wt Foss. Sl. Foss.

Sh. Llg.

LS. wt Foss. Colentic

LS. Llg. VSI Foss.

HEEBNER

3982 - 1259

4000

TORONTO

Sh. Blk Carb.

ls. wt. Foss. Si. Foss. Si. A

ls. wt. Si. Foss. Si. Chly.

Sh. Blk

LANSING 4022-4299

ls. wt. Sh.ool.ool. Si. A

ls. wt. Si. Foss. Si. Chly.

✓ BITTRIP 4096

ls. Bl. VSi. Foss

Sh. Cu. Pl.

ls. wt. Si. Foss. Si. Chly.

ls. wt. VExtra Suc. (Dolo.)

Sh. Cu.

ls. wt. Blg. VSi. Foss VSi. Chly.

4100

Sh. Lt. Blue. Cu.

ls. wt. Si. Foss. Si. A

ls. wt. VSi. Foss. Chly.

ls. wt. Ldg.

ls. wt. ool. Sh.ool.

ls. wt. Si. Foss. Si. Chly.

ls. Blg. VSi. Foss VSi. Chly.

MUNCIE CREEK 4186-4463

Sh. Blk Carb.

✓ LDB

4300

VIS: 48

WT: 9.35

WL: 8.0

CHL: 4300

LS. Bl. Lt. Bl. Sl. Foss. Calcitic

LS. wt. Lt. Sl. Foss. Sl. A

LS. wt. V. Chlg.

Sh. Blk

LS. Bl. V. Sl. Foss.

LS. wt. Sl.ool. Foss.

Sh. Lt. Blue

LS. To. G. Sl. Foss.

Sh. Lt. G.

LS. wt. Lt. G. acc. gel. acc. ϕ No Odor

LS. G. V. Sl. Foss.

STARK 4289-1566

Sh. Blk. Carb.

LS. Dk. Bl. V. Sl. Foss.

Sh. Lt. G.

LS. G. V. Sl. Foss. V. Sl. Chlg.

LS. To. G. ool. Sl. d. No odor

LS. To. wt. Sl. Foss. Sl. A

LS. Lt. G. V. Sl. Chlg.

HUSH PUCKNEY 4330-1607

Sh. Blk. Carb.

LS. Bl. Dk. Bl. V. Sl. Foss. Sl. Calcitic

Sh. Lt. G.

LS. Dk. To. V. Foss. Sl. Sus.

LS. To. Lt. G. V. Sl. Foss.

BICK 4372-1649

LS. Bl. V. Sl. Foss. V. Sl. A

LS. To. G. V. Sl. Foss.

Sh. Lt. G. Silty.

DST

(1)

VIS: 60

WT: 9.6

WL: 8.0

CHL: 4700

DST (1) 4287-4315

1st OPEN: Surface Blow dird 8 min.

2nd OPEN: No Blow

30.60.45.75

Rec. 3' Mud

FP: -4-17 10.27 #

SIP: 497-478 *

Tool sample
100% Mud

Temp. 116°F



4400

MARMATON 4403-1680

ls. To wt Shi Foss Shi Chalky.

Sh. Chalky.

Sh. Gy. Li Rd

ls. Gy. VShi A

ls. To wt oak Shi A

ls. wt Shi Foss Shi B

Sh. Ltg. Li

ls. wt VShi Foss

A wt Ltg.

ls. wt Shi Foss Shi A

Sh. Ltg.

ls. wt Shi Foss Shi A

ls. Ltg. VShi Foss

4500

Sh. Blk

Sh. Ltg.

ls. To VShi Foss

ls. Ltg. Dtl.

Sh. Blk carb.

FORT SCOTT 4539-1816

ls. Be oak Shi A

ls. Ltg. Shi A

ls. wt Ltg. Shi Foss Shi A

CHEROKEE 4561-1841

Sh. Blk carb.

ls. To Shi Foss wt Be Foss Shi A

ls. To VShi Foss Shi A

Sh. Gy.

ls. To Shi Foss Shi A

4600

VIS: 50 WT: 9.25

WL: B.B. CNL: 4600

Sh. Ch.

ls. To Shi Foss Shi Chalk. No Vis. V
Ltg. Be Solid Shi VShi Foss ER FLOOR No odor (HWD)

LS. Blg. Sil. Foss. Sil. A. Pe. R. S. B.
Bl. Spid. Sil. XSSFO Dull Flour Noodor (4620)
B/PENN 4615-1892
Sh. L. Sil. Clg. Dns. Foss. Noodor Bl. Sil. XSSFO Noodor

Sh. L.
A. wt. G. Orange
A. wt. Foss.

MISSISSIPPI "U" 4640-1917
Dol. To G. V. Earth Dns.

Sh. Rd. L.
LS. Bl. ool. Sil. A.
LS. Tan. Foss. ool. Sil. A. Calcitic
LS. Tan. Foss. Calcitic

MISS. DOLOMITE 4677-1954
Dol. To Foss. V. Earth 'Veggy'

Dol. Blg. Foss. wt. dk. Ind.

4700

Dol. wt. V. Earth Sec. Foss.

Dol. Tan. V. Earth Silty.

A. wt. G. Fresh Cut Foss.

A. wt. G. Foss.

A. G. Foss. Dol. L. Bl. V. Earth Sec.

RTD 4770-2097



**Company: Raymond Oil
Company, Inc
Lease: W & H Unit #2**

SEC: 9 TWN: 19S RNG: 27W
County: LANE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2718 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 105

DATE
February
04
2018

DST #1 Formation: LKC 200' Test Interval: 4287 - 4315' Total Depth: 4315'

Time On: 22:28 01/04 Time Off: 07:48 02/05
Time On Bottom: 01:37 02/05 Time Off Bottom: 05:07 02/05

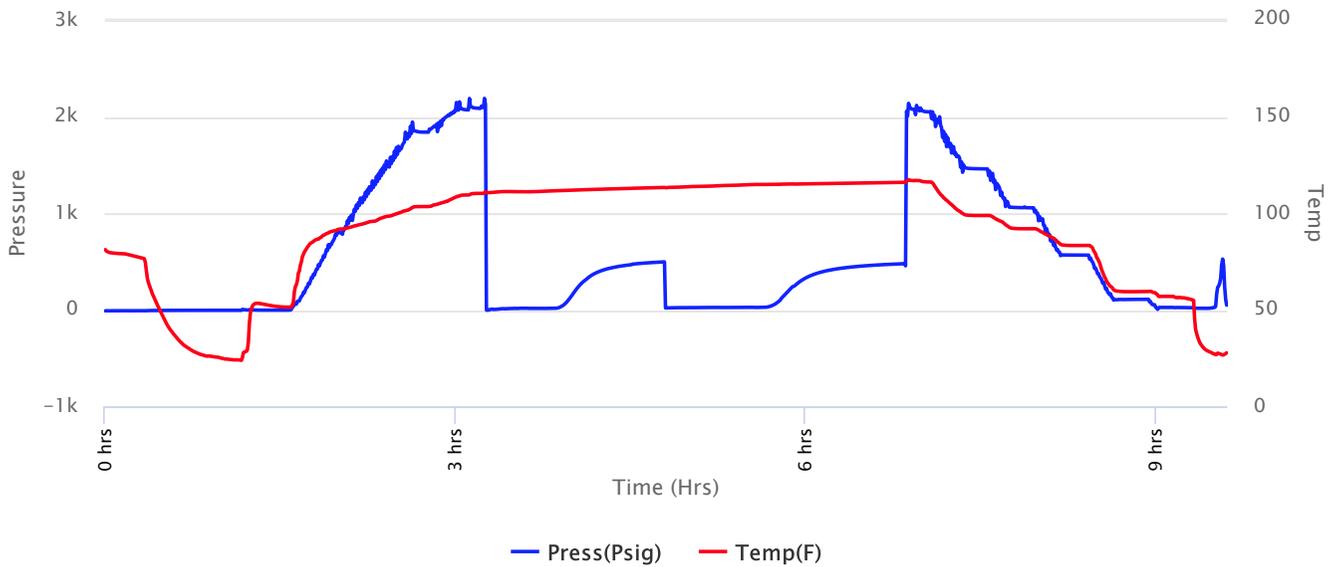
Electronic Volume
Estimate:
0'

1st Open
Minutes: 30
0" at 30 min

1st Close
Minutes: 60
0" at 60 min

2nd Open
Minutes: 45
0" at 45 min

2nd Close
Minutes: 75
No Blow" at 75 min





**Company: Raymond Oil
Company, Inc
Lease: W & H Unit #2**

SEC: 9 TWN: 19S RNG: 27W
County: LANE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2718 EGL
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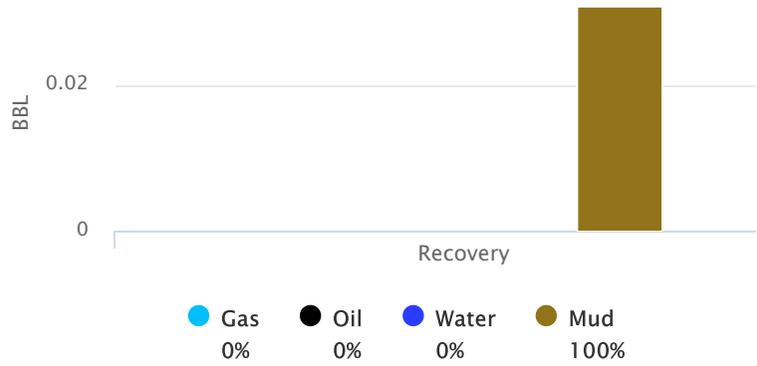
Recovered

Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
3	0.03078	M	0	0	0	100

Total Recovered: 3 ft
Total Barrels Recovered: 0.03078

Reversed Out
NO

Recovery at a glance



Initial Hydrostatic Pressure	2090	PSI
Initial Flow	-4 to 17	PSI
Initial Closed in Pressure	497	PSI
Final Flow Pressure	19 to 27	PSI
Final Closed in Pressure	478	PSI
Final Hydrostatic Pressure	2078	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	3.9	%



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Rig 1
Elevation: 2718 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 105

<p>DATE February 04 2018</p>
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DST #1 Formation: LKC 200' Test Interval: 4287 - 4315' Total Depth: 4315'

Time On: 22:28 01/04 Time Off: 07:48 02/05
Time On Bottom: 01:37 02/05 Time Off Bottom: 05:07 02/05

Down Hole Makeup

Heads Up: 23.88 FT	Packer 1: 4282 FT
Drill Pipe: 4278.31 FT <i>ID-3 1/4</i>	Packer 2: 4287 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 4271.42 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 4313 FT
Test Tool: 33.57 FT <i>ID-3 1/2-FH Jars Safety Joint</i>	Well Bore Size: 7 7/8
Total Anchor: 28	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 24 FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/4</i>	
Change Over: FT	
Perforations: (below): 3 FT <i>4 1/2-FH</i>	



**Company: Raymond Oil
Company, Inc
Lease: W & H Unit #2**

SEC: 9 TWN: 19S RNG: 27W
County: LANE
State: Kansas
Drilling Contractor: L. D. Drilling, Inc -
Rig 1
Elevation: 2718 EGL
Field Name: Wildcat
Pool: WILDCAT
Job Number: 105

<p>DATE February 04 2018</p>
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DST #1 Formation: LKC 200' Test Interval: 4287 - Total Depth: 4315'
4315'

Time On: 22:28 01/04 Time Off: 07:48 02/05
Time On Bottom: 01:37 02/05 Time Off Bottom: 05:07 02/05

Mud Properties

Mud Type: Chemical **Weight:** 9.3 **Viscosity:** 55 **Filtrate:** 8.0 **Chlorides:** 4300 ppm



PRESSURE PUMPING LLC

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

TICKET NUMBER 55040

LOCATION Ockley KS

FOREMAN Mikes Shaw

FIELD TICKET & TREATMENT REPORT CEMENT

US

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
2-7-18	7158	H+W unit #2	9	19S	27 W	Lea Co
CUSTOMER Raymond Oil Company			Alamogordo San-Tomas mod rd loc A110 1/2 W - 1/2 S 1/4 N			
MAILING ADDRESS			TRUCK #	DRIVER	TRUCK #	DRIVER
CITY			731	Paul W		
STATE			530/T-129	De. White		
ZIP CODE				Keith C		

JOB TYPE PTA HOLE SIZE 7 7/8" HOLE DEPTH 4770 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4 1/2" TUBING _____ OTHER _____
 SLURRY WEIGHT 13.8 SLURRY VOL 1.4 WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting and R/S up on C O drilling Plug as ordered
1st plug 50sx @ 2150'
2nd plug 40sx @ 1750'
3rd plug 40sx @ 630' 270 sx 60/40 48 gal 1/4" lb
4th plug 50sx @ 270'
5th plug 20sx @ 60' w/ water plug
RH 30sx

Thanks Mikes & crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500. ⁰⁰	1500. ⁰⁰
CE0002	30	MILEAGE	7.15	214.50
CE0711	11.75 Tons	Ton Mileage delivery	660. ⁰⁰	660. ⁰⁰
CC5829	270 sx	Lite weight blend II	16. ⁰⁰	4320. ⁰⁰
CC5826	100 #	Salt	10/6	10/6
CC6075	68 #	Collo/Make / Floseal	3. ⁰⁰	204. ⁰⁰
CP8228	1	8-5/8" Wooden Plug	165. ⁰⁰	165. ⁰⁰
			Subtotal	7063.50
			loss 308 discount	2119.05
			Subtotal	4944.45
			SALES TAX	
			ESTIMATED TOTAL	

Ravin 3737

AUTHORIZATION RH White TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.