



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1214383  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- 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 ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

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
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1214383

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  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				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 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)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run: <input type="checkbox"/> Yes <input type="checkbox"/> No
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Date of First, Resumed Production, SWD or ENHR.	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

<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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**CONSOLIDATED**  
Oil Well Services, LLC

268768

TICKET NUMBER 46984  
LOCATION Oakley KS  
FOREMAN Dane Peteloff

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

**FIELD TICKET & TREATMENT REPORT**  
**CEMENT**

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
6-6-14	7158	Dowd. #1	15	18	27	Lane
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS			456-T118	Jeremy		
CITY			460	Steven		
STATE						
ZIP CODE						

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 264 CASING SIZE & WEIGHT 8 5/8 24 LBS  
 CASING DEPTH 261 DRILL PIPE 4.5 TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 148 SLURRY VOL 1.36 WATER gal/sk 6.5 CEMENT LEFT in CASING 20  
 DISPLACEMENT 15.34 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety Meeting, Rig up. Circulate hole with rig pump. mix 175 sks of Class A cement 3% calcium Chloride 2% Bentonite. Displace with 15.25 BBLs of water wash pump + lines. Leave shut in. Cement did circulate.

*Thanks Dane + crew.*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	1150.00	1150.00 ✓
5406	45	MILEAGE	5.25	236.25 ✓
54074	8.22	Ton Mileage Delivery	1.75	647.55 ✓
11045	175 sks	Class A cement	18.55	3246.25 ✓
1102	493	Calcium Chloride	.94	463.42 ✓
1118 B	329	Bentonite	.27	88.83 ✓
			Sub	5832.30 ✓
			less 10% #	583.23 ✓
			Sub	5249.07 ✓
			SALES TAX	244.43 ✓
			ESTIMATED TOTAL	5493.50 ✓

completed

AUTHORIZATION Michael Abram 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.



# KIM B. SHOEMAKER

CONSULTING GEOLOGIST

312-084-9700 \* WICHITA, KS

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY <u>RAYMOND OIL COMPANY, INC.</u>	ELEVATIONS
LEASE <u># 1 Dowd</u>	KB <u>2690</u>
FIELD <u>ALAMOTA</u>	DF _____
LOCATION <u>1996' <sup>FSL</sup> <math>\frac{1}{4}</math> 1216' FWL</u>	EL <u>2685</u>
SEC <u>15</u> TWP <u>18s</u> RGE <u>27W</u>	Measurements are <input type="checkbox"/> To From <u>2690 KB</u>
COUNTY <u>LANE</u> STATE <u>KANSAS</u>	CASING
CONTRACTOR <u>L. D. DRILLING, INC.</u>	SURFACE <u>8 5/8" @ 261'</u>
SPUD <u>6-6-14</u> COMP <u>6-15-14</u>	PRODUCTION _____
RTD <u>4720</u> LTD <u>4720</u>	ELECTRICAL SURVEYS
MUD DR <u>3498</u> TYPE MUD <u>CHEMICAL</u>	DUAL IND., DENS.-N., Mic

SAMPLES SAVED FROM _____	<u>3400</u> TO <u>4720</u>
DRILLING TIME KEPT FROM _____	<u>3400</u> TO <u>4720</u>
SAMPLES EXAMINED FROM _____	<u>3400</u> TO <u>4720</u>
GEOLOGICAL SUPERVISION FROM _____	<u>3800</u> TO <u>4720</u>
GEOLOGIST ON WELL <u>KIM B. SHOEMAKER</u>	

FORMATION TOPS	LOG	SAMPLES	
ANHYDRITE	2056 + 634	2058 + 682	
BLANK	2084 + 606	2088 + 602	
STOTLER	3514 - 824	3516 - 826	
HEEBNER	3938 - 1248	3933 - 1243	
LANSING	3976 - 1286	3970 - 1280	
HUSHPUCKNEY	4283 - 1593	4284 - 1594	
MARMATON	4352 - 1662	4351 - 1661	
FORT SCOTT	4504 - 1814	4502 - 1812	
CHEROKEE	4526 - 1836	4524 - 1834	
MISSISSIPPI	4604 - 1914	4618 - 1928	

REMARKS

API: 15-101-22515

6-6-14 SPUD  
 6-7 @ 264'  
 6-8 @ 1910'  
 6-9 @ 2850'  
 6-10 @ 3275'  
 6-11 @ 3767'  
 6-12 @ 4200'  
 6-13 @ 4308'  
 6-14 @ 4589'  
 6-15 @ 4720'

LEGEND

	Anhydrite		Silt		Sandstone		Shale		Core bit		Immediate		Grit		Detritite
--	-----------	--	------	--	-----------	--	-------	--	----------	--	-----------	--	------	--	-----------

SHOE01-06

DRILLING TIME IN MINUTES  
 PER FOOT

Note of Penetration Increase

5' 10' 15' 20' 25'

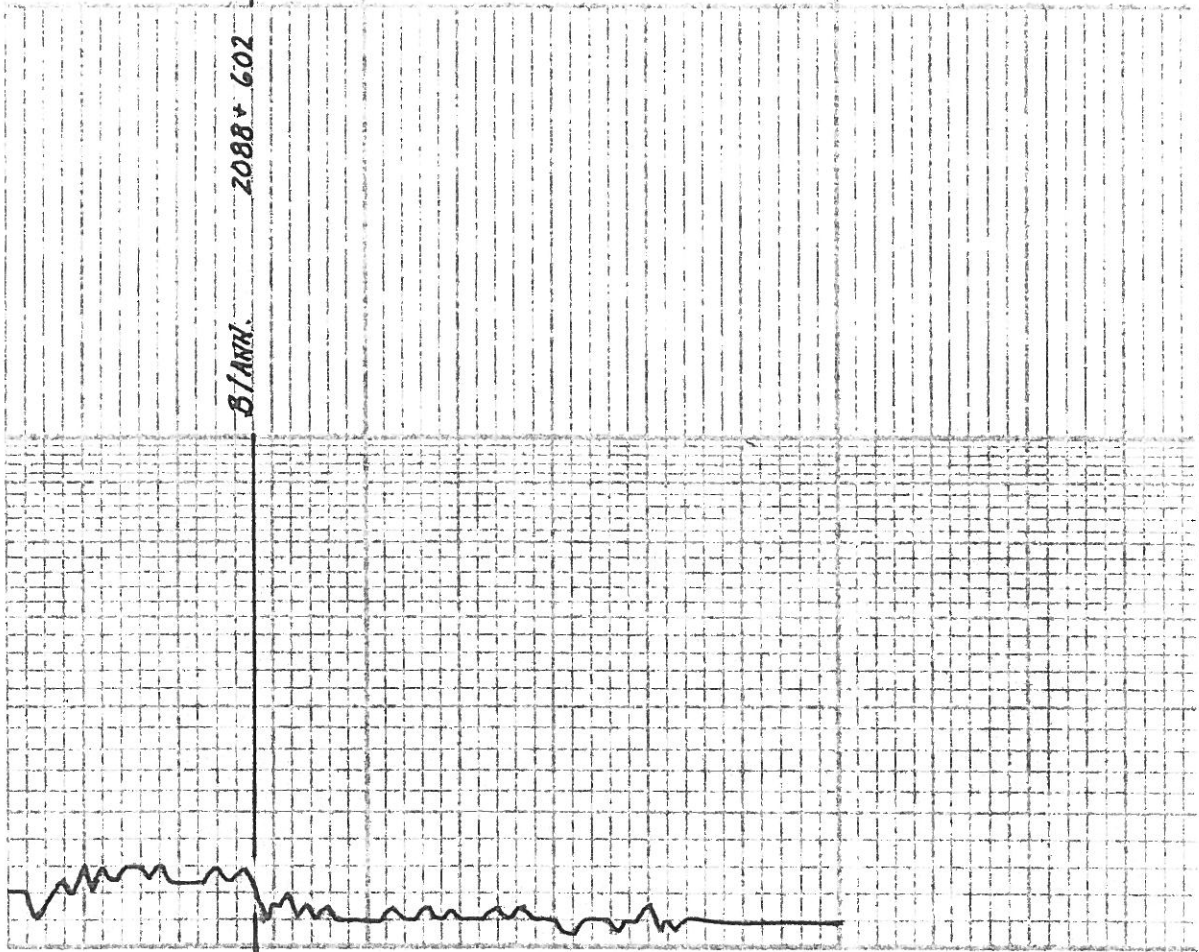
DEPTH  
 2050

SAMPLE DESCRIPTIONS

REMARKS

ANHYDRITE 2058 + 632

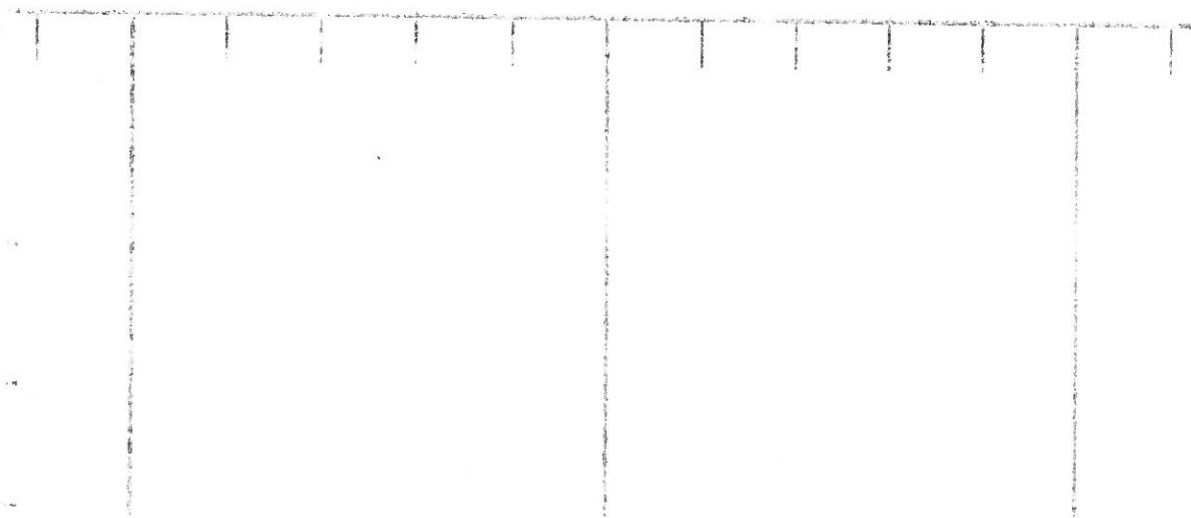
BLANK. 2088 + 602



2100

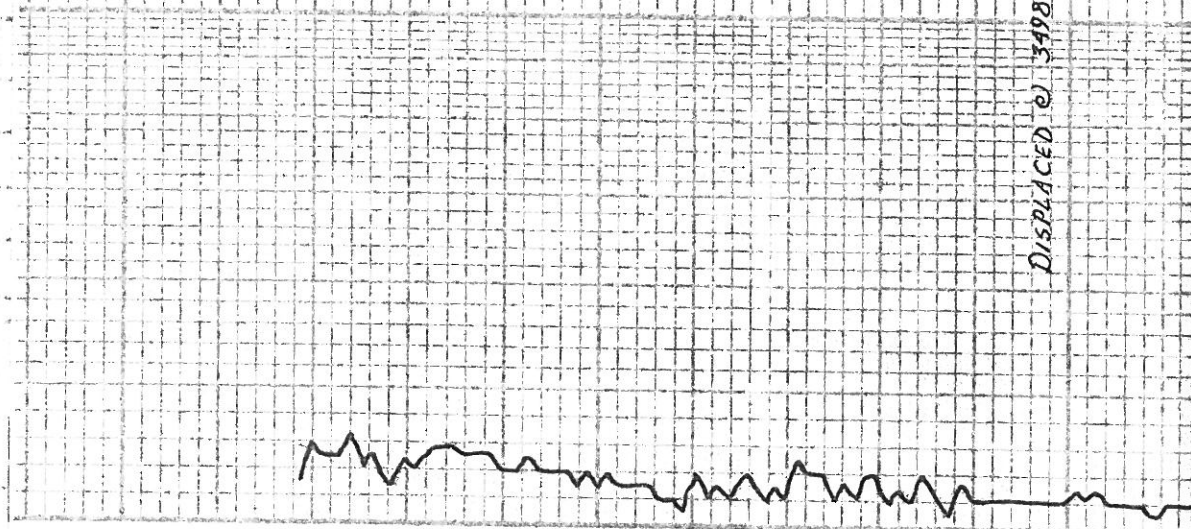
2150





Samples are logged.

Sd Gully Fr. Gr. Sub. Rd. well. Sordid



DISPLACED @ 3498

3400

3500





65. Bu. Dior.

Sh. Flyg.

65. To wt. Sl. Foss. Sl. A

65.

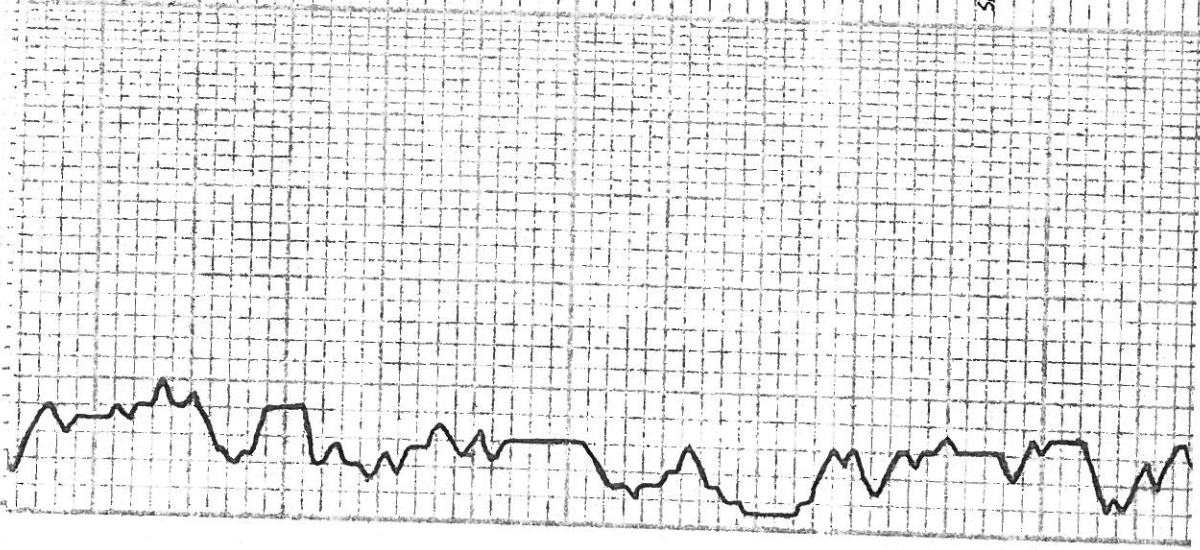
65. wt. Fly. ool. Foss.

65. To wt. ool. Foss. Calcite.

65. Fly. VSI. Chky.

Sh. Flyg.

65. To Fly. Foss.



3100



LS. To L/R Silty Foss.

LS. To L/R Foss. Calcitic

Sh. 0.6g.

Sh. 0.6g. Silty

LS G. Duv.

LS. To Mt. Foss.ool. Silty Chilly

LS G. Duv.

Sh. 0.6g

LS Mt. ool.

LS. Mt. Silty ool.

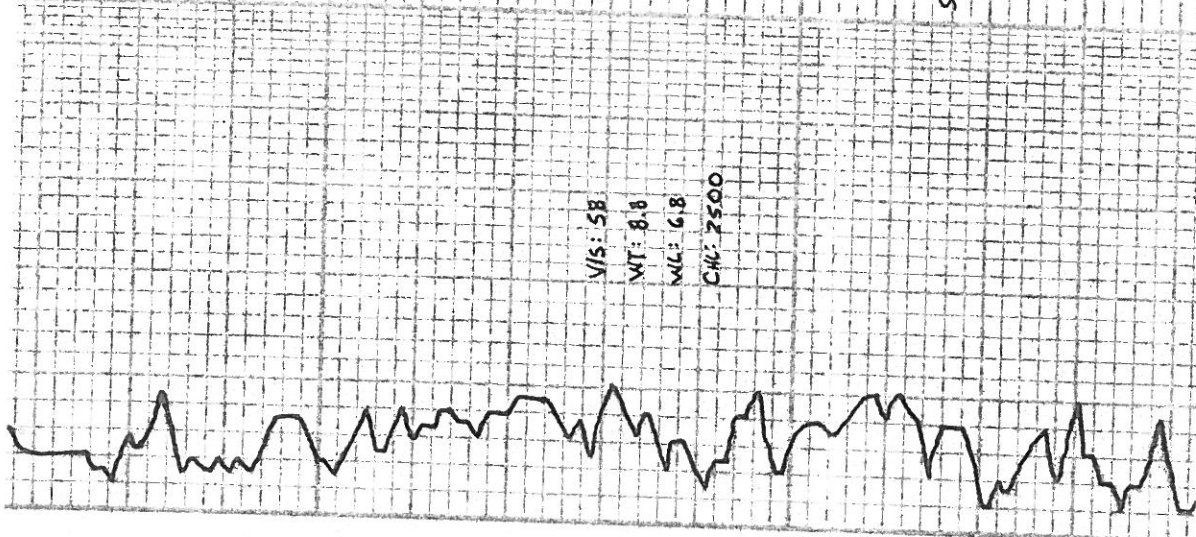
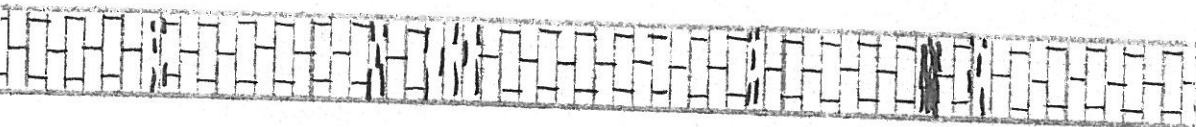
V/S: 58

WT: 8.8

W/L: 6.8

CH: 2500

3800



LS. To L/R Silty Foss.
LS. To L/R Foss. Calcitic
Sh. 0.6g.
Sh. 0.6g. Silty
LS G. Duv.
LS. To Mt. Foss.ool. Silty Chilly
LS G. Duv.
Sh. 0.6g
LS Mt. ool.
LS. Mt. Silty ool.

LS. wt. 44g ...ool. VSI. oot.

LS. wt. 43.1g

LS. Bu. Shi. Foss.

HEBNER 3933-1243  
Sh. Bck. Can.

Sh. G.

LS. wt. Shool. VSI. A

LANSING 3970-1280

Sh. 44g

LS. wt. 44g ...ool. VSI. Foss.

LS. To ool. SHA

Sh. To. Dri.

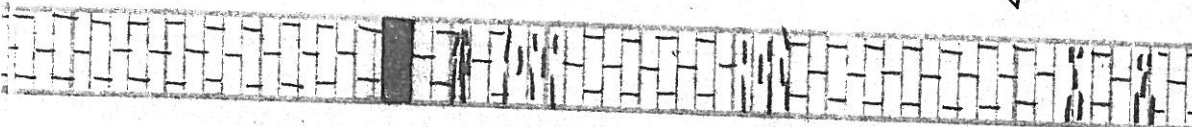
LS. Bu. VSI. Foss.

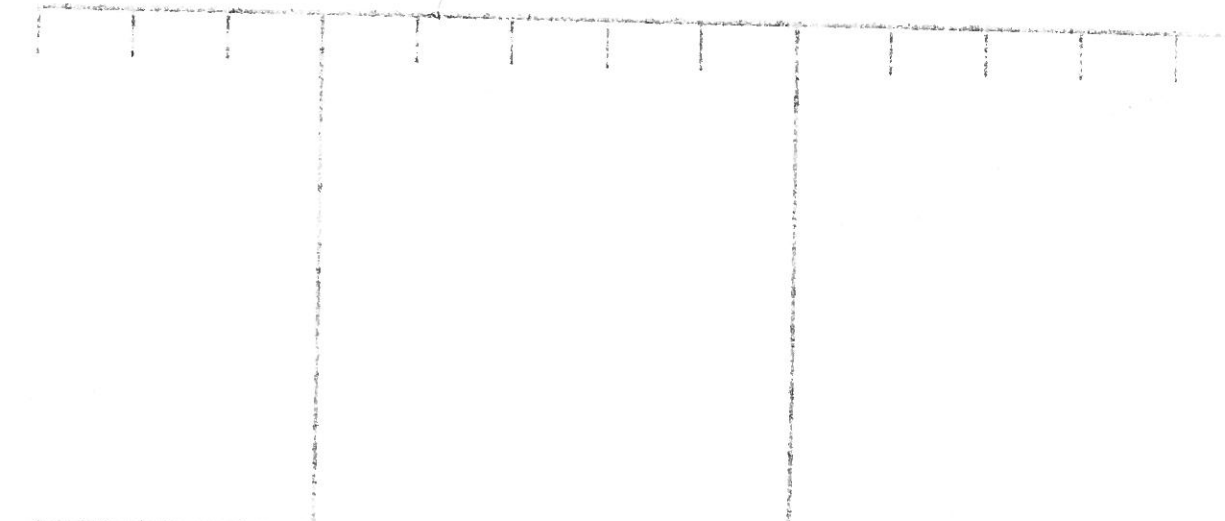
HEBNER  
✓ LOG

✓ LANSING LOG

3900

4000





45. 3x Dms.

45. 4x. Sli. 401. Sli. A

45. 7x. VSI. A

45. 7x. Sli. A. VSI. Foss.

45. 7x. Sli. Foss. Sli. Chilly.

45. 7x. 000. VSI. Calcific.

45. 000. Chilly.

45. 7x. VSI. Foss. VSI. Chilly.

45. 7x. Dms.



4100



MUNCIE CREEK 4170-1758

LS. 41 Bl. V. St. Foss.

Sh. 616

A. Mt. Chly.

LS. Mt. Chly. V. St. Foss.

LS. T. Lly. Dir.

Sh. Pkly.

EL. Bv. V. St. Foss.

Sh. Lly.

LS. Mt. St. Paul. Str. A.

LS. T. Lly. Dir.

LS. T. Lly. St. Paul. Str.

VIS. 53 WIT. 92

WD. 7.0 CHL. 2200

PIPE STRAP: 5 1308.82

6 1308.01

.81

4244-1554

STARK

Sh. Blk. Carb.

LS. G. St. Paul. Str. Chly.

LS. Mt. Chly.

DST (1) 4280-4308

1 STOP: Blow 60' to 1'

2 STOP: " " 1/4"

30.60.45.75

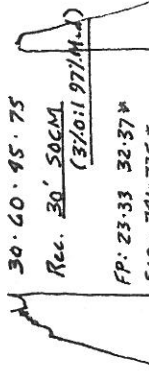
Rec. 30' 50CM

(3/0:1.97/M-2)

FP: 23.33 32.37\*

C.A. 1911.932\*

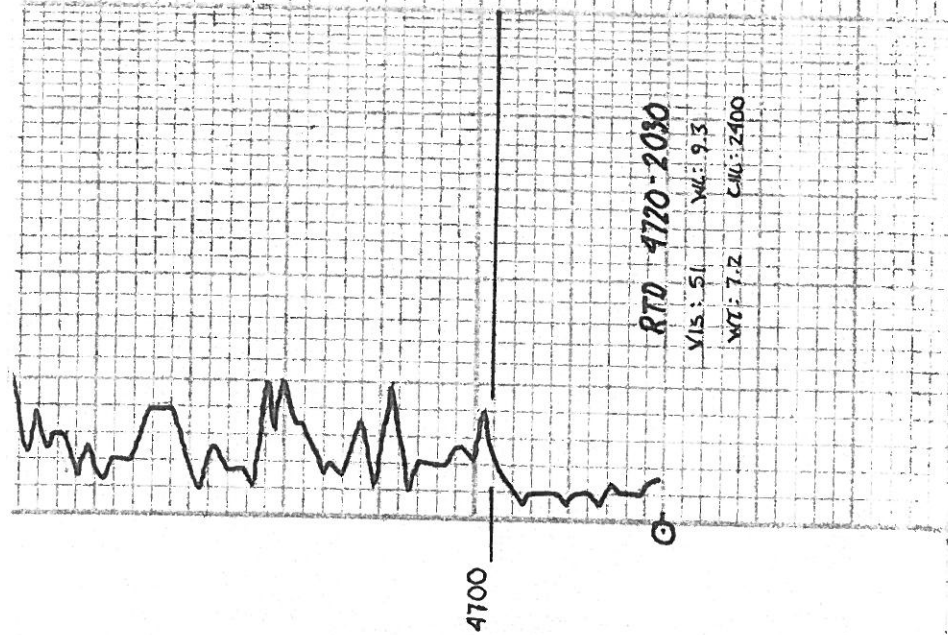
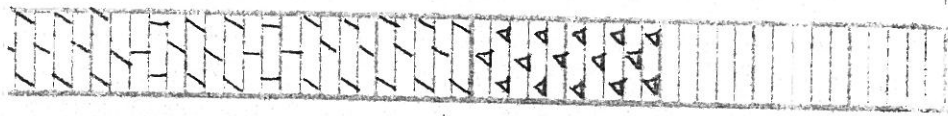
41700











Del. To Del. Fresh w/ Del. Incl.

15. w/ chly

Del. To Del. Fresh Suc. w/ Glau.

15. g. Foss. SWA. Col. Citic.

Del. w/ chly. Fresh. St. Glau. w/ Del. Incl.

Del. G. V. Glau. w/ Del. Incl.

OSAGE 4702-2012

A w/ chly. St. Foss. Fresh. Cit.



**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

TIME ON: 10:56  
 TIME OFF: 18:44

**DRILL-STEM TEST TICKET**  
 FILE: dowd/DST2

Company Raymond Oil Company Inc Lease & Well No. Dowd #1  
 Contractor LD Drilling Charge to Raymond Oil Company Inc  
 Elevation 2690 RB Formation Ft. Scott/Chero Effective Pay \_\_\_\_\_ Ft. Ticket No. 5048  
 Date 6-14-14 Sec. 15 Twp. 18 S Range 27 W County Lane State KANSAS  
 Test Approved By \_\_\_\_\_ Diamond Representative JACOB McCALLIE

Formation Test No. 2 Interval Tested from 4510 ft. to 4589 ft. Total Depth 4589 ft.  
 Packer Depth 4505 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 45010 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) 4491 ft. Recorder Number 5515 Cap. SK P.S.I.  
 Bottom Recorder Depth (Outside) 4577 ft. Recorder Number 5586 Cap. SK P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEM Viscosity 50 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
 Weight 9.3 Water Loss 7.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
 Chlorides 21600 P.P.M. Drill Pipe Length 44.77 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 79 (19.5A) ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/4" Blow - Built to 1 1/2" in 30 mins NOBB  
 2nd Open: WSB - Built to 1" in 45 mins NOBB

Recovered 35 ft. of OSM 100% M (few oil specks)  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
<u>Tool Sample: 1 1/2" 99% M</u>	Total

Time Set Packer(s) 1:05 <sup>AM</sup> P.M. Time Started Off Bottom 4:35 <sup>AM</sup> P.M. Maximum Temperature 121

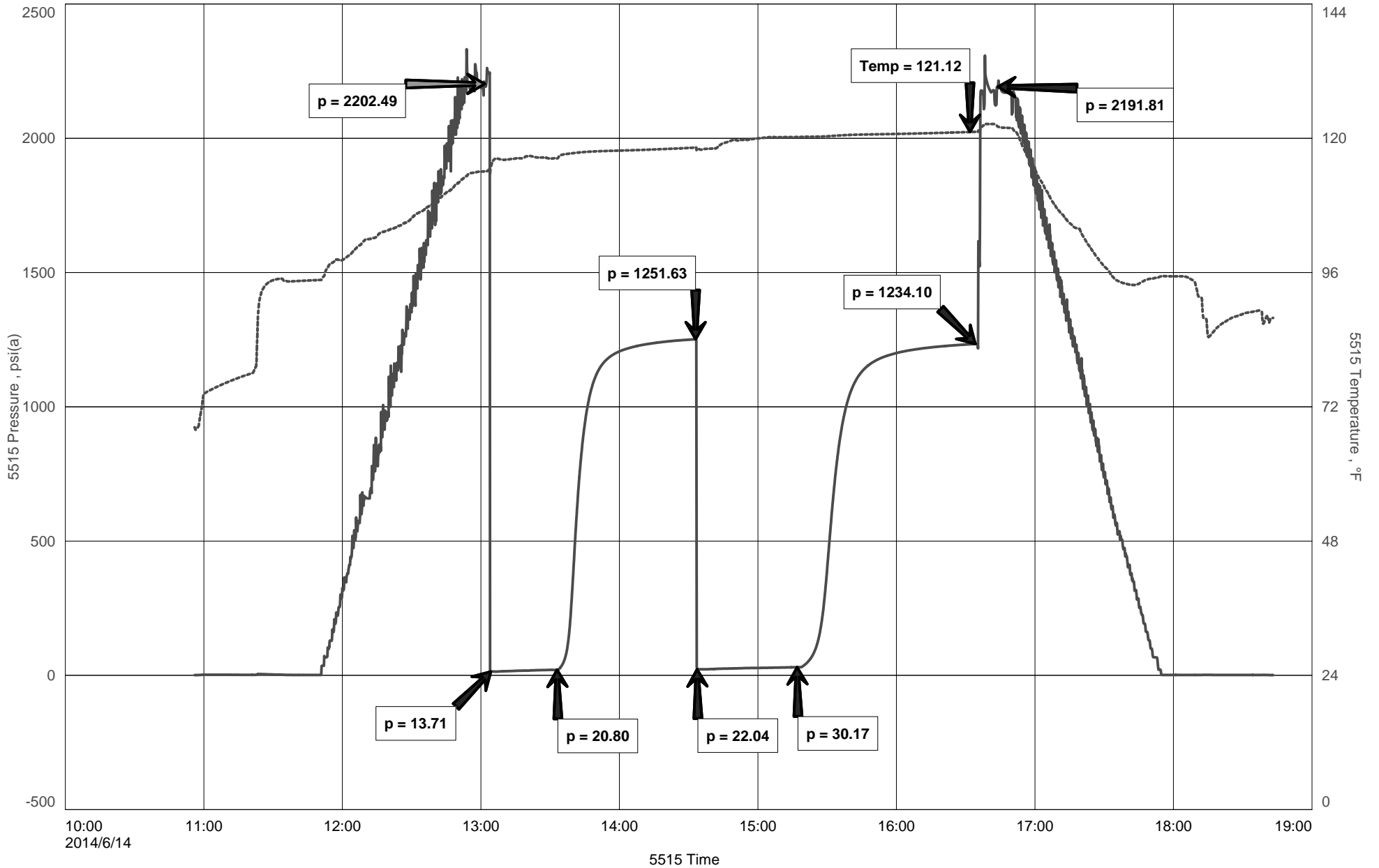
Initial Hydrostatic Pressure..... (A) 2202 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 21 P.S.I.  
 Initial Closed In Period..... Minutes 60 (D) 1252 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 22 P.S.I. to (F) 30 P.S.I.  
 Final Closed In Period..... Minutes 75 (G) 1234 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2192 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Raymond Oil Company Inc.  
DST #2 Ft. Scott/Chero 4510-4589'  
Start Test Date: 2014/06/14  
Final Test Date: 2014/06/14

Dowd #1  
Formation: DST #2 Ft. Scott/Chero 4510-4589'  
Pool: WC  
Job Number: S0458

# Dowd #1



# Diamond Testing LLC

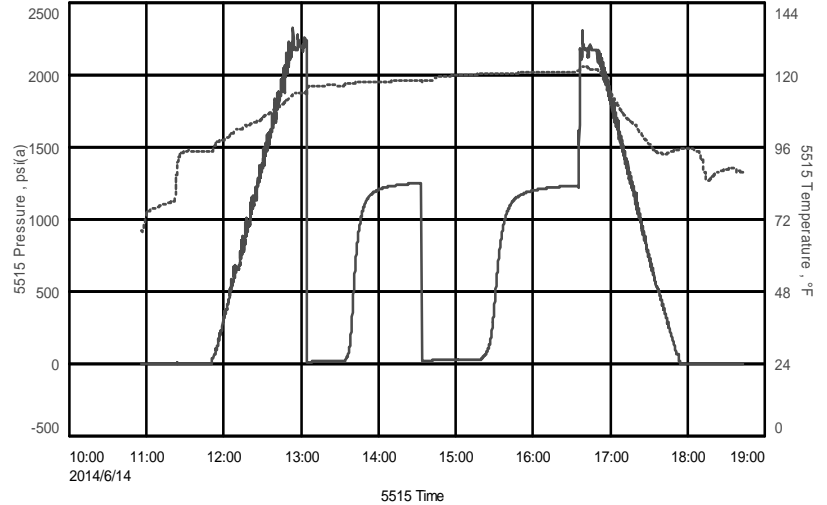
## General Information Report

Jacob McCallie  
620-617-7116  
mccallie.dtlc@gmail.com

### General Information

Company Name Raymond Oil Company Inc.  
Contact Clarke Sandberg  
Well Name Dowd #1  
Unique Well ID DST #2 Ft. Scott/Chero 4510-4589'  
Surface Location SEC 15-18S-27W Lane County  
Field Alamota  
Well Type Vertical  
Test Type Drill Stem Test  
Formation DST #2 Ft. Scott/Chero 4510-4589'  
Well Fluid Type 01 Oil  
Start Test Date 2014/06/14  
Start Test Time 10:56:00  
Final Test Date 2014/06/14  
Final Test Time 18:44:00  
Job Number S0458  
Representative Jacob McCallie  
Report Date 2014/06/14  
Gauge Serial Number

### Dowd #1



### Test Results

RECOVERED:  
35' OSM 100% M (few oil specks)

TOOL SAMPLE:  
1% O 99% M



DIAMOND TESTING  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313

6-12 19:56  
 TIME ON:  
 6-13 04:19  
 TIME OFF:

DRILL-STEM TEST TICKET  
 FILE: dowd / Oct 1

Company Raymond Oil Company Inc Lease & Well No. Dowd #1  
 Contractor LD Drilling Charge to Raymond Oil Company  
 Elevation 2690 KB Formation L/KC 220 Effective Pay \_\_\_\_\_ Ft. Ticket No. 50457  
 Date 6-12-14 Sec. 15 Twp. 18 S Range 27 W County Lane State KANSAS  
 Test Approved By \_\_\_\_\_ Diamond Representative JACOB McCALLIE

Formation Test No. 1 Interval Tested from 4280 ft. to 4308 ft. Total Depth 4308 ft.  
 Packer Depth 4275 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 4280 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) 4261 ft. Recorder Number 5585 Cap. SK P.S.I.  
 Bottom Recorder Depth (Outside) 4284 ft. Recorder Number 5586 Cap. SK P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEM Viscosity 53 Drill Collar Length \_\_\_\_\_ ft. I.D. 2 1/4 in.  
 Weight 9.2 Water Loss 7.0 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
 Chlorides 2,200 P.P.M. Drill Pipe Length 4247 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 28 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB - Built to 1" in 30 min NOBB  
 2nd Open: WSB - Built to 1 1/4" in 45 min NOBB

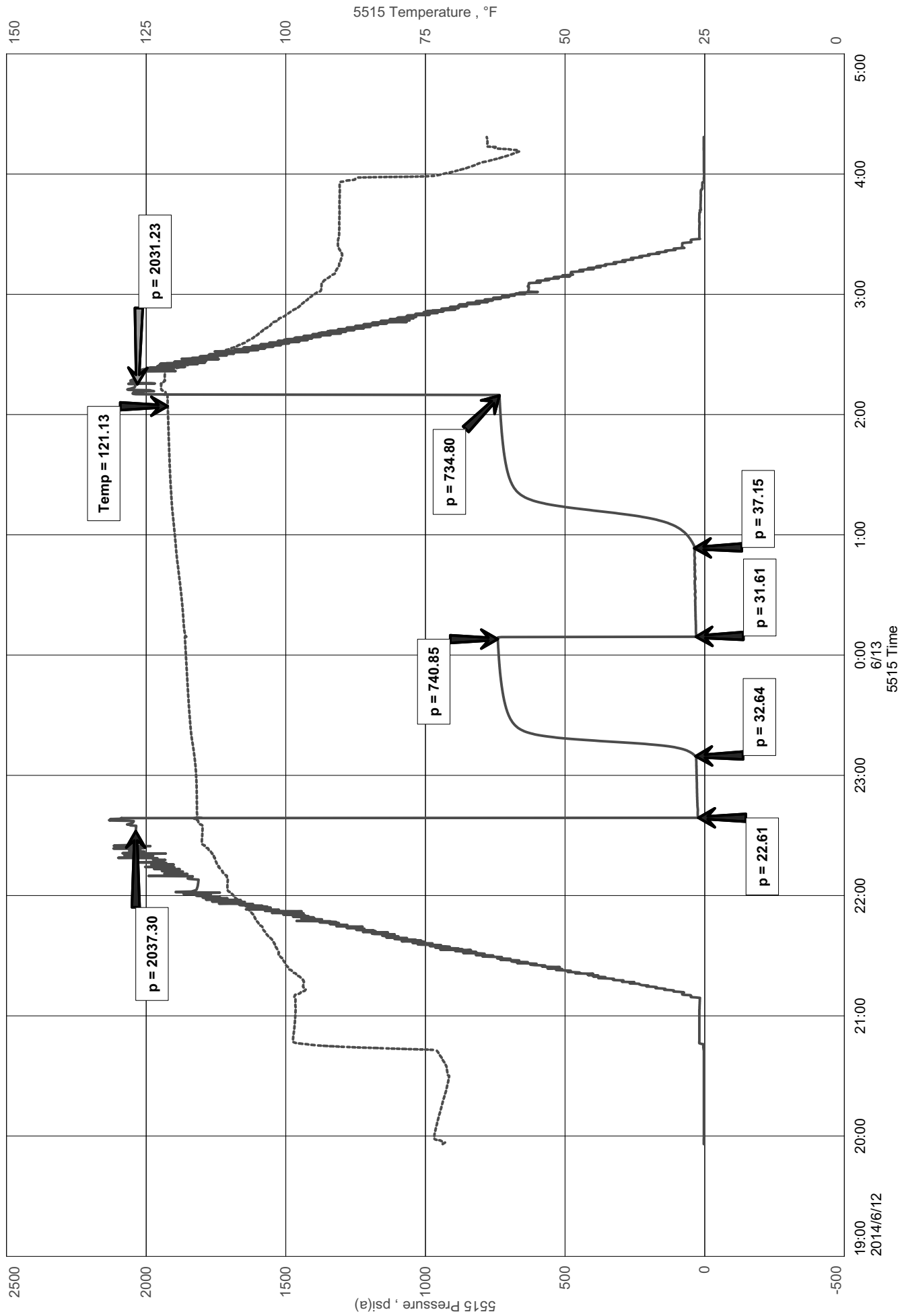
Recovered 30 ft. of OSM 3%O 97%M  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_  
 Price Job \_\_\_\_\_  
 Other Charges \_\_\_\_\_  
 Insurance \_\_\_\_\_  
 Total \_\_\_\_\_

Time Set Packer(s) 6-12 10:39 P.M. Time Started Off Bottom 6-13 2:09 A.M. Maximum Temperature 121  
 Initial Hydrostatic Pressure..... (A) 2037 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 23 P.S.I. to (C) 33 P.S.I.  
 Initial Closed In Period..... Minutes 60 (D) 741 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 32 P.S.I. to (F) 37 P.S.I.  
 Final Closed In Period..... Minutes 75 (G) 735 P.S.I.  
 Final Hydrostatic Pressure..... (H) 2031 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

# Dowd #1



# Diamond Testing LLC

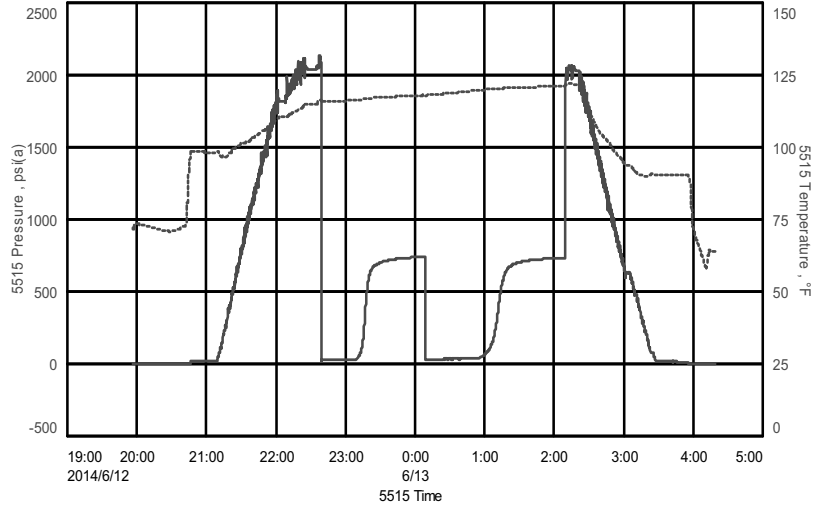
## General Information Report

Jacob McCallie  
620-617-7116  
mccallie.dtlc@gmail.com

### General Information

Company Name Raymond Oil Company Inc.  
Contact Clarke Sandberg  
Well Name Dowd #1  
Unique Well ID DST #1 L/KC 220' 4280-4308'  
Surface Location SEC 15-18S-27W Lane County  
Field Alamota  
Well Type Vertical  
Test Type Drill Stem Test  
Formation DST #1 L/KC 220' 4280-4308'  
Well Fluid Type 01 Oil  
Start Test Date 2014/06/12  
Start Test Time 19:56:00  
Final Test Date 2014/06/13  
Final Test Time 04:19:00  
Job Number S0457  
Representative Jacob McCallie  
Report Date 2014/06/12  
Gauge Serial Number

### Dowd #1



### Test Results

RECOVERED:  
30' OSM 3% O 97% M

TOOL SAMPLE:  
5% O 4% W 91% M