

Confidentiality Requested:

Yes  No

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

Form ACO-1

January 2018

**Form must be Typed**

**Form must be Signed**

**All blanks must be Filled**

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

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

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

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

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

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

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

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

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

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

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

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

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

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

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

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

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

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

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

Plug Back  Liner  Conv. to GSW  Conv. to Producer

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

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

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

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

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

Spud Date or Recompletion Date \_\_\_\_\_ Date Reached TD \_\_\_\_\_ Completion Date or Recompletion Date \_\_\_\_\_

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

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

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

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

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

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

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

Datum:  NAD27  NAD83  WGS84

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

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

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

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

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

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

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

Multiple Stage Cementing Collar Used?  Yes  No

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

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

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

**Drilling Fluid Management Plan**

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

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

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

Location of fluid disposal if hauled offsite: \_\_\_\_\_

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

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

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

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

**AFFIDAVIT**

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

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

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

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

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

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

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

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

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](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
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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	JACKSON FAMILY 19-1
Doc ID	1314849

Tops

Name	Top	Datum
Bern	802	722
Heebner	1416	108
Douglas	1496	28
Lansing	1722	198
Kansas City	2003	479
BKC	2170	646
Marmaton	2268	744
Squirrel	2439	915
Miss	2731	1207







**CONSOLIDATED**  
Oil Well Services, LLC

6407  
Field #12 doc  
6312

TICKET NUMBER 51290

LOCATION El Dorado

FOREMAN Fuzzz

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

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

Invoice # 808309 KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-4-16	7158	Jackson Family 19-1	19	245	8E	Butler
CUSTOMER Raymond O. I.			Rosalia			
MAILING ADDRESS P.O. Box 48788			90-2610			
CITY Wichita	STATE KS	ZIP CODE 67201	TRUCK #	DRIVER	TRUCK #	DRIVER
			603	Tracey		
			681	Jeremy		
			725	Fuzzz		

JOB TYPE Surf Ace HOLE SIZE 12"4 HOLE DEPTH 270' CASING SIZE & WEIGHT 8 5/8  
 CASING DEPTH 263' DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 14.2 SLURRY VOL 36.3 WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 20'  
 DISPLACEMENT 15.4 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting on Summit Dnlg., Dis up and break circulation then pump 5 BBL water mix 150SKS Class A' 3 7/8" 2 9/16" w/ 1/2" poly chloride. Displace 15 1/4 BBL and shut in.

Cement did circulate approx 6+ BBL to pit

Thanks  
Fuzzz & Crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500 <sup>00</sup>	1500 <sup>00</sup>
CE0002	20	MILEAGE	7 <sup>15</sup>	143 <sup>00</sup>
CE0711	740W	Tow mileage Delivery (min)	660 <sup>00</sup>	660 <sup>00</sup>
CC580A	1404 150SKS	Class 'A'	20 <sup>00</sup>	3000 <sup>00</sup>
CC5965	300 #	Gel	.30	90 <sup>00</sup>
CC5325	400 #	Calcium Chloride	1 <sup>00</sup>	400 <sup>00</sup>
CC6075	75 #	Poly. Chloride	2 <sup>00</sup>	150 <sup>00</sup>
		sub total		5943 <sup>00</sup>
		less discount 45%		2674 <sup>35</sup>
		sub total		3268.65
				3,268.65
		6.75%	SALES TAX	135 <sup>14</sup>
			ESTIMATED TOTAL	3403 <sup>79</sup>

SCANNED

RAVIN 3737  
AUTHORIZATION

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.







Robert W. Turner

# GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Raymond Oil Co.  
 LEASE Jackson Family #19-1  
 FIELD Wildcat  
 LOCATION Butler County  
 SEC 19 TWP 24S RGE 8E  
 COUNTY Butler STATE KS

ELEVATIONS  
 KB 1524  
 DF \_\_\_\_\_  
 GL 1514  
 Measurements Are All From KB

CONTRACTOR Summit Drilling  
 SPUD 8/4/16 COMP 812/16  
 RTD 2780 LTD 2776  
 MUD UP 1,200' TYPE MUD Chemical

CASING SURFACE 253' 8 5/8"  
 PRODUCTION \_\_\_\_\_  
 ELECTRICAL SURVEYS  
 CND, DIT

## FORMATION TOPS AND STRUCTURAL POSITION

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM	STRUCTURAL POSITION		
				A	B	C
Heebner	1417	1416	+108	+110		
Douglas	1500	1496	+28	+27		
Leansing	1720	1722	-198	-193		
Kansas City	2000	2003	-479	-476		
BKC	2172	2170	-646	-645		
Marmeton	2267	2268	-744	-743		
Squirrel	2442	2439	-915	-915		
Mississippi	2738	2731	-1207	-1210		

## REFERENCE WELLS FOR STRUCTURE

A Vestring #1 Lot 20 19-24-8E

REMARKS After sample, DST, and log evaluation, it was decided to plug & abandon this well.

## RECOMMENDATIONS AND REMARKS

FORMATION	PERFORATE INTERVAL	LOG ANALYSIS		TREATMENT & REMARKS
		% POR	% SW	
Douglas		19.0	71%	
Squirrel		19.4	67%	







brn dns brtl lmst  
wht sft chky lmst.  
dkc brn dns brtl lmst no @  
gry pr sctd vf-m mic. ss  
mstly dns sm @, friable  
few gas bubs on cut, no tier., no sh.  
NEO, no odor  
V. MIC arg silt stn  
interbw/ brn dns. foss. lmst.

+ dck gry sh/ md ck

sft wht chky lmst.

brn dns foss. lmst.

grn sft md ck

gry pyritic. mod sorted ss

fn-wht foss. brittle lmst.  
wht chky lmst.

dck blk sh.

dck gry sndy silt stn.

crm-tan foss. lmst. hard  
sft wht chky lmst.

grn-blk intercal sh.

slty mic. grn md ck

'gry-grn arg. lmst. + calc. md ck

crm brittle foss. lmst.

sndy gry mic silt stn.

brn. foss. dns. lmst.

carb. gry sndy mic. silt stn to  
v. fn silt stn

gry slty md ck

wht-gry fr sct fn. grn. mic snd stn

sm silt friable. No sh. odor. flag cut  
sli gas bub on cut

sli crsning of snd stn AA

wht mic w/srt snd stn. AA

e log 1416  
Heebner +108

11:45 A.M. 8/7/16  
Mud 8.7 wt 45 vis.  
8.8 filtrate 1,000 chl.  
2# LCM

e log  
Douglas +28

3



1600

1700

gry sst sandy md rk.

AA

drk brn. foss. dns lmst  
interbedded w/ gry sst md rk

drk gry sandy silty mic sh

drk gry vt mic sand st to silt stn.

drk gry carbonac. md rk + sh.

drk gry sh.

latan - 86 <sup>e log 1606</sup>  
-82

brwn v. dns. micritic lmst  
w/ foss. frags

gry silty md rk + sh.

inc. drk gry silt stn.

gry lt. brown dns sand. sli calc.  
v. hd. well srt.

drk gry md rk.

AA

drk gry md rk blkly poss. paleool

Highly withed crm lmst. calcareous

lt gry wht w/ srt friable sand stn  
ven-fa good

drk gry mic. qtz md rk

AA w/ inc. in calcareous

Lansing - 196 <sup>e log 1722</sup>  
-198

crm sli foss. md gen. lmst  
sst wht chky lmst

brwn foss. crs gen. lmst.  
v. hard + dense

crm sli foss md. gen. lmst. brittle  
crs gen sparry lmst.



1800

1900

fn med. grn foss lmsst  
sm. sct + dk. edge str on few  
NFO, no odor, no cut, v. lww Flcr calcite  
no app. @

H gry micritic lmsst.

grn + blk sst sh.

crm. fn grn. lmsst. brittle

fn md grn. foss. lmsst.  
sm moldic @ N.S.

brwn ccs grn. v. hrd lmsst

fn micritic lmsst. v. hrd. dnr.  
dk brn. md str.

brwn ccs grn. foss. lmsst

wht sst. chky lmsst.

gry calc. sh.  
v. wht. sst. chky lmsst.

wht. soft chky lmsst

crm. ccs. grn sparry lmsst. brittle  
few pcs w/ v. sct str. no odor, NFO, no Flcr  
no cut

gry calc. sh. blksh.  
v. wht sst chky lmsst.

H gry micritic lmsst. dnr

sm vit. brwn chert  
dk brwn v. fn grn. lmsst. v. hrd dnr

gry md rck + sh.

wht, orange, vit chert

dk gry + brwn micritic lmsst

gry + brwn sandy sst str + vfn sct str  
l ccs brwn calcite filling fracs

gry slty md rck, carb. + pyrit

interbed brwn. dk gry md str.  
w/ v. carb. gry sandy pyrit md rck

AA

AA

AA sli more carb. + pyritic

AA

AA

Dev. Sur. 1866 1/2°

8-8-16 10:15A:M  
mud wt. 9.3, vis 39  
filtrate 8.8 chlor 1,700  
2# LCM - jet tank  
add premix to  
bring vis. up



e log  
2003-479

Kansas City 2,000

AA

tn vfn grn. arg. lmsl.  
tn. foss. med. v. hd. dense.  
tn. brwn. dk gry micritic lmsl

ccm. v. tn. grn. fus. lmsl hd. brtl  
cfs. sparry calc. filling trac!

wht. fa. grn. lmsl. hd. dns.  
tn. brwn. hd. micritic lmsl  
gry vit. chert

wht med. grn. foss. lmsl. mostly dns.  
few pieces w/ pp & sm. frags  
No odor. NEQ. v. wh. strat. cut. wht. fluc.

blk sh.  
gry md rck

cfs 20, 40, 60

tn. brwn med grn w/ srt. oolitic grn str.  
v. dns. hd. w/ cmtd  
NS.

ccm-tn ccs grn. foss. lmsl.

cfs 20, 40

tn med. grn. oolitic + foss. v. hd. lmsl.  
wht. vit. chert  
blk pyritic sh.

dk gry micritic lmsl.  
blk sh.

wht. foss. lmsl. hd. brtl.  
brwn. v. hd. md str.  
gry-grn. blk. md rck.

blk sh.  
gry sli. foss. wkstrn. v. hd. dns.  
brwn md strn. v. hd.

grn + brwn sft. calc. md rck  
blk sh.  
gry + brwn md strn. hd.

gry + brwn md strn w/ rip up clasts  
v. hd. dns.  
grn + brwn mottld calc. md rck. v. sft

wht. f. gray. tn. grn. calc. sand strn.  
sm. glauc.

e log  
2170-646

BKC 2170

2,000

2,100



DKU 2112

2,200

whit. cm, tn, brown, mottled foss. lmst  
 tn-brown mttld carb. md rk  
 lt gry fn. gen, mic, carb. sand stn.  
 tn sandy mic. md rk. v. sft.

8/9/16 9:30 AM.  
 wt. 9.1 vis 43  
 filt. 8:8 chlor 1,800  
 2# LCM

gry slit stn, md rk, sh.  
 gry calc. fn gen sand stn.  
 gry md rk  
 tn rdsh brown foss. lmst bed  
 brown, tn, gry md rk + sh.  
 sandy slit stn.

2,300

gry sh. md rk  
 blk calc. brittle sh.  
 lt gry-grn fn. gr lmst, hd.  
 wht-grn sandy silty calc. md rk  
 gry, tn. md stn. v. hd.  
 AA

elog  
 2268-744  
 Marm 2267

tn prly stnd oolitic lmst, mdly bed  
 sem. pr. oolitic  
 wht, gm tn-v. tn calc. glauc. sand stn  
 grn. slit. stn. dng + brittle  
 blk pyr. sh.  
 cem. sparry lmst., hd.  
 gry mic. carb. fn gen sand stn.

lt. gry lt. tn. md stn v. hd.  
 gry mic. fn gen sand stn., hd.  
 lt. gry micritic lmst. hd.  
 dck brown micritic lmst v. hd.



2,400

2,500

blk. sh.

gry md. rk

dk brwn micritic lmst. v. hd.

blk. sh. gry sh.

brwn med. grn. foss. lmst.

grn. foss. lmst. hd.

blk sh.

fn-brwn md stn. v. hd.

gry md. rk

fn-brwn foss. lmst. hd.

blk sh.

gry slit. stn.

lt gry + fn gr snd. stn. fract.  
 mic + glauc. mostly friable  
 no odor, no sing. NBB, gas bubbles  
 very lively gas cut, vent structure  
 grn floor on cut

AA

AA

AA sm. calc. cont.

gry carb. slit stn.

lt gry + fn snd AA

AA

AA

slitier

gry carb. slit stn.

gry-grn mtd sh.

blk sh.

cm-ang-pnk hd brk-lmst  
 w/ qtz intracr. last  
 hd

gry calc. sh.

brwn fn. v. fn calc. sd stn. v. hd.

sm. med. gr. snd stn. v. hd.

slt glauc.

interb w/ blk + gry sh.

gry v. fn mic. snd stn.

green sh.

blk-grn carb. sh.

v. fn - slty grn. - wht snd stn v. hd.

ang + brwn md stn. v. hd.

gry slt mic. v. fn snd stn.

green v. fn mic. snd stn.

gry slty md rk

lt gry v. ang. peloidal lmst

blk + brwn sh.

8/10/16 10:00 A.M  
 wt. 9.1 vis. 47  
 filt. 8.8 1,300 chlor  
 1/2 # LCM

Squirrel 2442

elog  
 2437-915

-cfs 30,60

-cfs 30,60

DST 1 30-60-45-90

2417-2452 <sup>elog</sup> 2417-2449

1" blow bldg to 11"

NBB

wk sur. blow bldg to 11"

Rec. 300' TF

120' MCW (90% w)

120' WCM (35% w)

60 M

spks oil in tool

SIP: 858-856

FP: 28-86-90-160

HP: 1192-1179









## DRILL STEM TEST REPORT

Prepared For: **Raymond Oil**

PO Box 48788  
Wichita, KS 67201

ATTN: Robert Turner

### **Jackson Family #19-1**

#### **19-24S-8E Butler,KS**

Start Date: 2016.08.10 @ 08:59:00

End Date: 2016.08.10 @ 18:46:45

Job Ticket #: 63079                      DST #: 1

Trilobite Testing, Inc  
PO Box 362 Hays, KS 67601  
ph: 785-625-4778 fax: 785-625-5620

Printed: 2016.08.12 @ 08:56:31

Raymond Oil  
19-24S-8E Butler,KS  
Jackson Family #19-1  
DST # 1  
Squirrel Sand  
2016.08.10



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Robert Turner

**19-24S-8E Butler, KS**  
**Jackson Family #19-1**  
Job Ticket: 63079 **DST#: 1**  
Test Start: 2016.08.10 @ 08:59:00

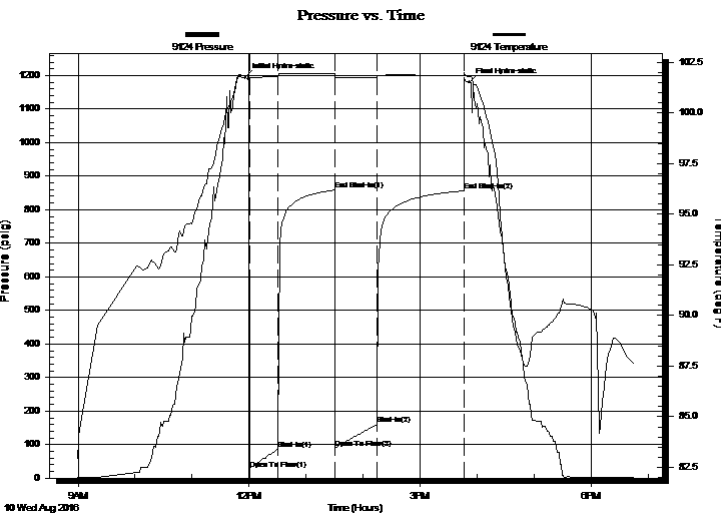
## GENERAL INFORMATION:

Formation: **Squirrel Sand**  
Deviated: No Whipstock: ft (KB)  
Time Tool Opened: 12:00:30  
Time Test Ended: 18:46:45  
Interval: **2417.00 ft (KB) To 2452.00 ft (KB) (TVD)**  
Total Depth: 2452.00 ft (KB) (TVD)  
Hole Diameter: 7.88 inches Hole Condition: Fair  
Test Type: Conventional Bottom Hole (Initial)  
Tester: Jimmy Ricketts  
Unit No: 80  
Reference Elevations: 1524.00 ft (KB)  
1514.00 ft (CF)  
KB to GR/CF: 10.00 ft

## Serial #: 9124 Outside

Press@RunDepth: 159.86 psig @ 2418.00 ft (KB) Capacity: 8000.00 psig  
Start Date: 2016.08.10 End Date: 2016.08.10 Last Calib.: 2016.08.10  
Start Time: 08:59:05 End Time: 18:46:45 Time On Btm: 2016.08.10 @ 11:56:00  
Time Off Btm: 2016.08.10 @ 15:51:45

TEST COMMENT: IF - Weak blow building to 11 inches during initial flow period.  
FF - No blow building to 11 inches during final flow period.



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1192.83	101.86	Initial Hydro-static
5	27.63	101.43	Open To Flow (1)
35	85.74	101.80	Shut-In(1)
94	858.44	101.92	End Shut-In(1)
95	89.57	101.75	Open To Flow (2)
139	159.86	101.75	Shut-In(2)
230	856.26	101.83	End Shut-In(2)
236	1179.29	101.80	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
0.00	A few oil specks in testing tool	0.00
120.00	Mud cut water 90% W & 10% M	0.59
120.00	Heavy water cut mud 35% W & 65% M	0.59
60.00	Drilling mud 100% M	0.30

## Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Robert Turner

**19-24S-8E Butler, KS**  
**Jackson Family #19-1**  
Job Ticket: 63079 **DST#: 1**  
Test Start: 2016.08.10 @ 08:59:00

**Tool Information**

Drill Pipe:	Length: 2102.00 ft	Diameter: 2.60 inches	Volume: 13.80 bbl	Tool Weight: 2600.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 314.00 ft	Diameter: 2.25 inches	Volume: 1.54 bbl	Weight to Pull Loose: 27000.00 lb
			<u>Total Volume: 15.34 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 24000.00 lb
Depth to Top Packer:	2417.00 ft			Final 25000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	63.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

<b>Tool Description</b>	<b>Length (ft)</b>	<b>Serial No.</b>	<b>Position</b>	<b>Depth (ft)</b>	<b>Accum. Lengths</b>
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Change Over Sub	1.00			2390.00	
Shut In Tool	5.00			2395.00	
Hydraulic tool	5.00			2400.00	
Jars	5.00			2405.00	
Safety Joint	3.00			2408.00	
Packer	4.00			2412.00	28.00 Bottom Of Top Packer
Packer	5.00			2417.00	
Stubb	1.00			2418.00	
Recorder	0.00	9124	Outside	2418.00	
Recorder	0.00	6798	Inside	2418.00	
Perforations	29.00			2447.00	
Bullnose	5.00			2452.00	35.00 Bottom Packers & Anchor

**Total Tool Length: 63.00**





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**FLUID SUMMARY**

Raymond Oil  
PO Box 48788  
Wichita, KS 67201  
ATTN: Robert Turner

**19-24S-8E Butler, KS**  
**Jackson Family #19-1**  
Job Ticket: 63079      **DST#: 1**  
Test Start: 2016.08.10 @ 08:59:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	90000 ppm
Viscosity: 43.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 1800.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
0.00	A few oil specks in testing tool	0.000
120.00	Mud cut water 90% W & 10% M	0.590
120.00	Heavy water cut mud 35% W & 65% M	0.590
60.00	Drilling mud 100% M	0.295

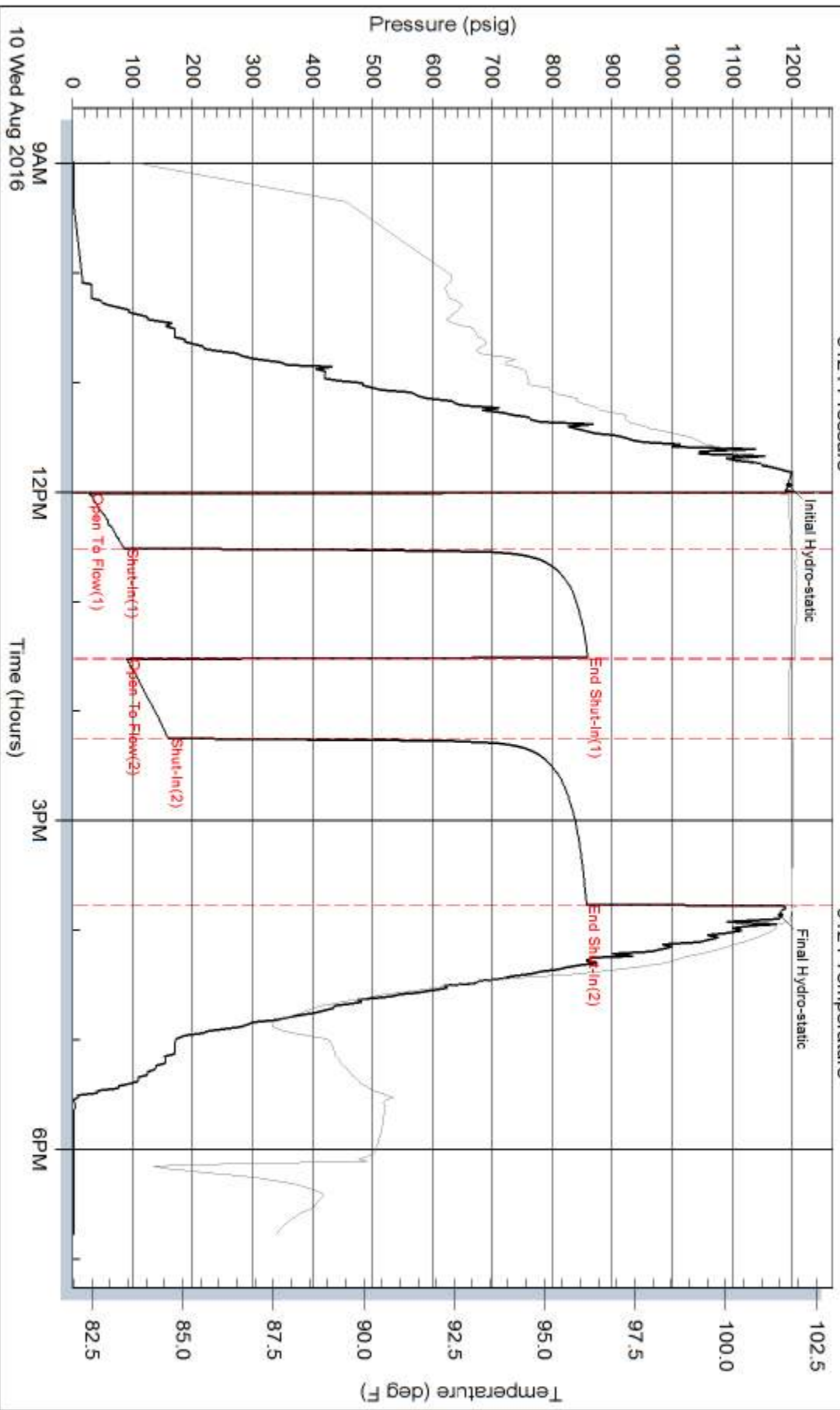
Total Length: 300.00 ft      Total Volume: 1.475 bbl

Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:

### Pressure vs. Time



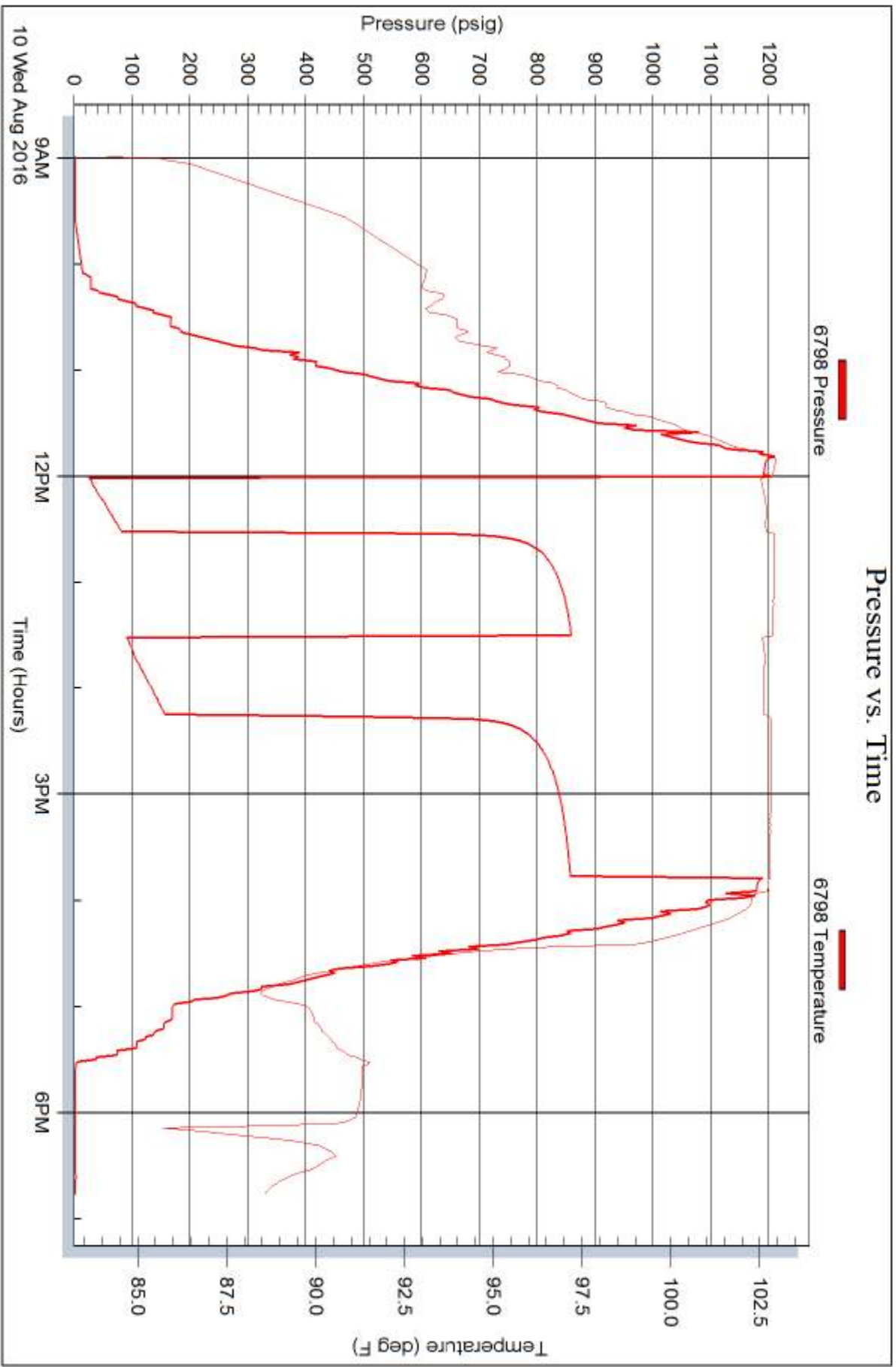
Serial #: 6798

Inside

Raymond Oil

Jackson Family #19-1

DST Test Number: 1





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 63079

Well Name & No. Jackson Family 19-1 Test No. 1 Date 8-10-16  
 Company Raymond Oil Company, Inc. Elevation 1524 KB 1514 GL  
 Address P.O. Box 48788 Wichita, KS. 67201  
 Co. Rep / Geo. Robert Turner Rig Summit #1  
 Location: Sec. 19 Twp. 24S Rge. 8 E Co. Butler State KS.

Interval Tested 2417-2452 Zone Tested Squirrel Sand  
 Anchor Length 35' Drill Pipe Run 2102 Mud Wt. 9.1  
 Top Packer Depth 2422 Drill Collars Run 314 Vis 43  
 Bottom Packer Depth 2417 Wt. Pipe Run 0 WL 8.8  
 Total Depth 2452 Chlorides 1800 ppm System LCM  
 Blow Description IF - weak blow building to 11 inches  
FF - No blow building to 11 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>60'</u>	<u>Drilling Mud</u>			<u>100</u>	
<u>120</u>	<u>HWCN</u>		<u>35</u>	<u>65</u>	
<u>120</u>	<u>mclw</u>		<u>90</u>	<u>10</u>	

Rec Total 300 BHT \_\_\_\_\_ Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides 90,000 ppm

(A) Initial Hydrostatic <u>1193</u>	<input checked="" type="checkbox"/> Test <u>1050</u>	T-On Location <u>0600</u>
(B) First Initial Flow <u>28</u>	<input checked="" type="checkbox"/> Jars <u>250</u>	T-Started <u>0915</u>
(C) First Final Flow <u>86</u>	<input checked="" type="checkbox"/> Safety Joint <u>75</u>	T-Open <u>1201</u>
(D) Initial Shut-In <u>858</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>1546</u>
(E) Second Initial Flow <u>90</u>	<input type="checkbox"/> Hourly Standby _____	T-Out _____
(F) Second Final Flow <u>160</u>	<input checked="" type="checkbox"/> Mileage <u>RT 138</u> <u>103.50</u>	Comments _____
(G) Final Shut-In <u>856</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1179</u>	<input type="checkbox"/> Straddle _____	<input type="checkbox"/> Ruined Shale Packer _____
	<input type="checkbox"/> Shale Packer _____	<input type="checkbox"/> Ruined Packer _____
Initial Open <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Extra Copies _____
Initial Shut-In <u>60</u>	<input type="checkbox"/> Extra Recorder _____	Sub Total <u>0</u>
Final Flow <u>45</u>	<input type="checkbox"/> Day Standby _____	Total <u>1478.50</u>
Final Shut-In <u>90</u>	<input type="checkbox"/> Accessibility _____	MP/DST Disc't _____

Approved By [Signature] Our Representative Jimmy Dinko

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