

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) (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	Raymond Oil Company, Inc.
Well Name	HABIGER-WELLS UNIT 1
Doc ID	1594363

All Electric Logs Run

Comp N/D
Dual Ind
Micro
Sonic





785-953-0222

TICKET NUMBER 1310 K  
 LOCATION Hugoton, KS  
 FOREMAN Walt Dinkel

### FIELD TICKET & TREATMENT REPORT CEMENT

DATE <u>7-26-2001</u>	CUSTOMER #	WELL NAME & NUMBER <u>Hobiger - Well unit #1</u>	SECTION <u>4</u>	TOWNSHIP <u>20 S</u>	RANGE <u>28 W</u>	COUNTY <u>Lano.</u>
CUSTOMER <u>Raymond oil Co, Inc</u>			TRUCK # <u>103</u>	DRIVER <u>Corey D</u>	TRUCK #	DRIVER
MAILING ADDRESS			<u>800-850</u>	<u>Jenny</u>		
CITY	STATE	ZIP CODE				

Wigton south to Rd 60 3-E 3/4 S.

JOB TYPE Surface HOLE SIZE 12 1/4" HOLE DEPTH 264 CASING SIZE & WEIGHT 8 5/8 - 27.4  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.2 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 15' 20"  
 DISPLACEMENT 15.5 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE 4 bpm

REMARKS: Safety Meeting, Rig up on L.D. Dik, circ on Bottom mixed 180 sls Cem, 3% CC - 2% Gel, Displace 15.5 BBL H2O, Shut in Cement Did Circ

*Thank You  
Walt + crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
	<u>1</u>	<u>PUMP CHARGE</u>	<u>1,150.00</u>	<u>1,150.00</u>
		<u>MILEAGE</u>	<u>7.15</u> <u>1.25</u>	
	<u>180 sls</u>	<u>Surface Blend II</u>	<u>24.00</u>	<u>4,320.00</u>

AUTHORIZATION *[Signature]* TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payments 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.



785-953-0222

TICKET NUMBER 1319 K-C  
 LOCATION Hysaton Ks  
 FOREMAN Walt Dinkel

**FIELD TICKET & TREATMENT REPORT  
 CEMENT**

Ks

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY	
8-6-0021		Haberer-Well unit #1	4	20 S	28 W	Lane	
CUSTOMER Raymond Oil Co, Inc			Dighton south to Rd 60				
MAILING ADDRESS			3 East 3/4 S				
CITY		STATE	ZIP CODE	TRUCK #	DRIVER	TRUCK #	DRIVER
				803-820	Jason		
				801-851	Eddie		
					Billy		

JOB TYPE Prod-DY HOLE SIZE 1 7/8 HOLE DEPTH 4720 CASING SIZE & WEIGHT 5 1/2 - 15.5 #  
 CASING DEPTH 47 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER DY 2022  
 SLURRY WEIGHT 142, 12.5 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 42.11  
 DISPLACEMENT 11.2 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting, Rig up on Lid Dtg, run casing to Bottom, Circ 1 1/2 hrs  
Dumped 5 BBL H2O, 500 gal Mud Flush, 5 BBL H2O, mixed 200 sks HP-OWC-A  
2 142 PPG, Clear Pump + Lines, release Plug + Displace 60 BBL H2O + 51 3/4 mud  
2 750 #, Landed Plug 2 1300 #, released Pressure, Float held, open DY Tool Circ  
1 Hr. mix 30 sks in Pithy, mixed 410 sks down casing  
Clear Pump + Lines, Displace 48 3/4 BBL H2O 2 700 #, Shut tool 2 1200 #  
Cement Dtd Circ

*Thank You  
 Walt & Crew*

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
	1	PUMP CHARGE	2,800.00	2,800.00
	30	MILEAGE	7.15	214.50
	28.32	Ton Mileage Delivery	1.25	1,486.80
	200 sks	HP-OWC-A	25.00	5,000.00
	1000 #	Kalseal	1.50	500.00
	440 sks	Lite Weight Blen VII	17.50	7,700.00
	200 #	Cabo-Flake	3.00	600.00
	500 gal	Mud Flush	16.5	3,225.00
	1	5 1/2 AFW Float Shoe	585.00	585.00
	1	5 1/2 Latch down Assy	400.00	400.00
	11	5 1/2 Turbolizers	110.00	1,210.00
	1	5 1/2 Basket	385.00	385.00
	1	5 1/2 DY Tool	5,970.00	5,970.00
				27,236.30
		Less 35% Disc		9,532.71
				17,703.59
		SALES TAX		
		ESTIMATED TOTAL		

AUTHORIZATION [Signature] TITLE \_\_\_\_\_ DATE \_\_\_\_\_

I acknowledge that the payments 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.



**Company: Raymond Oil Company, Inc**  
**Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2713 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 493  
 API #: 15-101-22654

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 August  
**01**  
 2021

**DST #1**      **Formation: L/KC 200' zone**      **Test Interval: 4249 - 4270'**      **Total Depth: 4270'**  
 Time On: 19:11 08/01      Time Off: 04:32 08/02  
 Time On Bottom: 21:49 08/01      Time Off Bottom: 01:19 08/02

Electronic Volume Estimate: 2810'

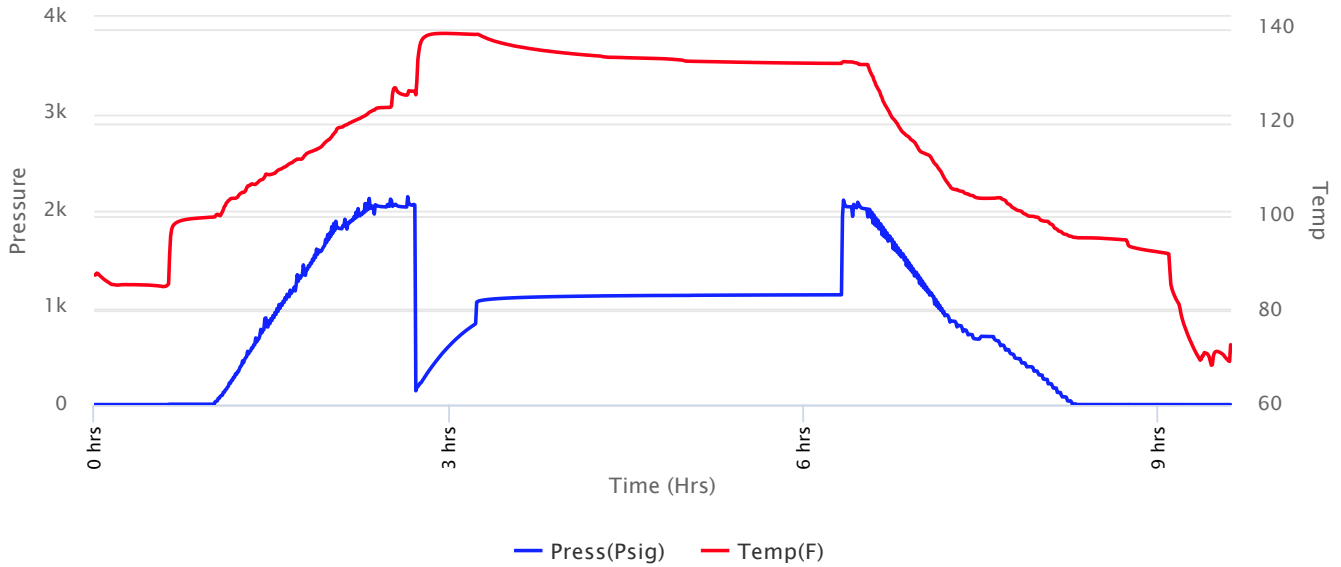
1st Open  
 Minutes: 30  
 Current Reading: 245.2" at 30 min  
 Max Reading: 245.2"

1st Close  
 Minutes: 60  
 Current Reading: 0" at 60 min  
 Max Reading: 0"

2nd Open  
 Minutes: 45  
 Current Reading: 0" at 45 min  
 Max Reading: 0"

2nd Close  
 Minutes: 75  
 Current Reading: 0" at 75 min  
 Max Reading: 0"

Inside Recorder





**Company: Raymond Oil Company, Inc**  
**Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2713 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 493  
 API #: 15-101-22654

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 August  
**01**  
 2021

**DST #1**      **Formation: L/KC 200' zone**      **Test Interval: 4249 - 4270'**      **Total Depth: 4270'**  
 Time On: 19:11 08/01      Time Off: 04:32 08/02  
 Time On Bottom: 21:49 08/01      Time Off Bottom: 01:19 08/02

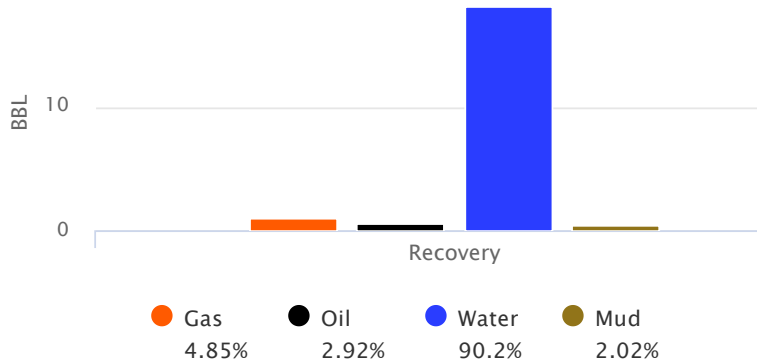
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
95	0.9747	G	100	0	0	0
2	0.02052	O	0	100	0	0
30	0.3078	SLOCMLCW	0	15	67	18
190	1.9494	SLMCW (trace O)	0	.8	81.2	18
1640	16.8264	SLOCW	0	3	97	0

Total Recovered: 1957 ft  
 Total Barrels Recovered: 20.07882

Reversed Out  
 NO

Initial Hydrostatic Pressure      2057      PSI  
 Initial Flow      143 to 835      PSI  
**Initial Closed in Pressure      1133      PSI**  
 Final Flow Pressure      0 to 0      PSI  
**Final Closed in Pressure      0      PSI**  
 Final Hydrostatic Pressure      2050      PSI  
 Temperature      140      °F  
 Pressure Change Initial      100.0      %  
 Close / Final Close

Recovery at a glance



GIP cubic foot volume: 5.47245





**Company: Raymond Oil  
Company, Inc  
Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling &  
Exploration, LLC - Rig 1  
Elevation: 2713 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 493  
API #: 15-101-22654

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
August  
**01**  
2021

<b>DST #1</b>	<b>Formation: L/KC 200' zone</b>	<b>Test Interval: 4249 - 4270'</b>	<b>Total Depth: 4270'</b>
	Time On: 19:11 08/01	Time Off: 04:32 08/02	
	Time On Bottom: 21:49 08/01	Time Off Bottom: 01:19 08/02	

**BUCKET MEASUREMENT:**

1st Open: 3" blow building to BOB 1 1/2 min.

1st Close: No BB

2nd Open: No Blow

2nd Close: No BB

**REMARKS:**

When we shut in the last time, the tool was full of rocks and wouldn't turn, that is why there is no 2nd flow period or shut in, because it must have got full as soon as we opened tool second time.

Tool Sample: 0% Gas 1% Oil 99% Water 0% Mud

Ph: 8.5

Measured RW: .25 @ 62 degrees °F

RW at Formation Temp: 0.117 @ 140 °F

Chlorides: 31,000 ppm



# Company: Raymond Oil Company, Inc

## Lease: Habiger-Wells Unit #1

SEC: 4 TWN: 20S RNG: 28W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2713 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 493  
 API #: 15-101-22654

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 August  
**01**  
 2021

**DST #1**      **Formation: L/KC**      **Test Interval: 4249 -**      **Total Depth: 4270'**  
                          **200' zone**                                    **4270'**  
 Time On: 19:11 08/01                      Time Off: 04:32 08/02  
 Time On Bottom: 21:49 08/01      Time Off Bottom: 01:19 08/02

### Down Hole Makeup

<b>Heads Up:</b> 4.29 FT	<b>Packer 1:</b> 4244 FT
<b>Drill Pipe:</b> 4220.72 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4249 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4233.42 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4251 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> 21	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 0 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 20 FT <i>4 1/2-FH</i>	



# Company: Raymond Oil Company, Inc Lease: Habiger-Wells Unit #1

SEC: 4 TWN: 20S RNG: 28W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling &  
Exploration, LLC - Rig 1  
Elevation: 2713 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 493  
API #: 15-101-22654

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
August  
**01**  
2021

**DST #1**      **Formation: L/KC**      **Test Interval: 4249 -**      **Total Depth: 4270'**  
                    **200' zone**                              **4270'**  
Time On: 19:11 08/01                      Time Off: 04:32 08/02  
Time On Bottom: 21:49 08/01      Time Off Bottom: 01:19 08/02

### Mud Properties

**Mud Type:** Chemical      **Weight:** 9.2      **Viscosity:** 49      **Filtrate:** 7.2      **Chlorides:** 2,000 ppm



# Company: Raymond Oil Company, Inc Lease: Habiger-Wells Unit #1

SEC: 4 TWN: 20S RNG: 28W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling &  
Exploration, LLC - Rig 1  
Elevation: 2713 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 493  
API #: 15-101-22654

**Operation:**  
Uploading recovery &  
pressures

<u>DATE</u> August <b>01</b> 2021
--

DST #1      Formation: L/KC      Test Interval: 4249 -      Total Depth: 4270'  
                                200' zone                                  4270'  
Time On: 19:11 08/01                                  Time Off: 04:32 08/02  
Time On Bottom: 21:49 08/01      Time Off Bottom: 01:19 08/02

## Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



**Company: Raymond Oil Company, Inc**  
**Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2713 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 493  
 API #: 15-101-22654

**Operation:**  
 Tripping out of hole with test tool

**DATE**  
 August  
**02**  
 2021

**DST #2**      **Formation: L/KC 220' zone**      **Test Interval: 4286 - 4315'**      **Total Depth: 4315'**  
 Time On: 13:27 08/02      Time Off: 22:40 08/03  
 Time On Bottom: 15:40 08/02      Time Off Bottom: 19:10 08/02

Electronic Volume Estimate: 2700'

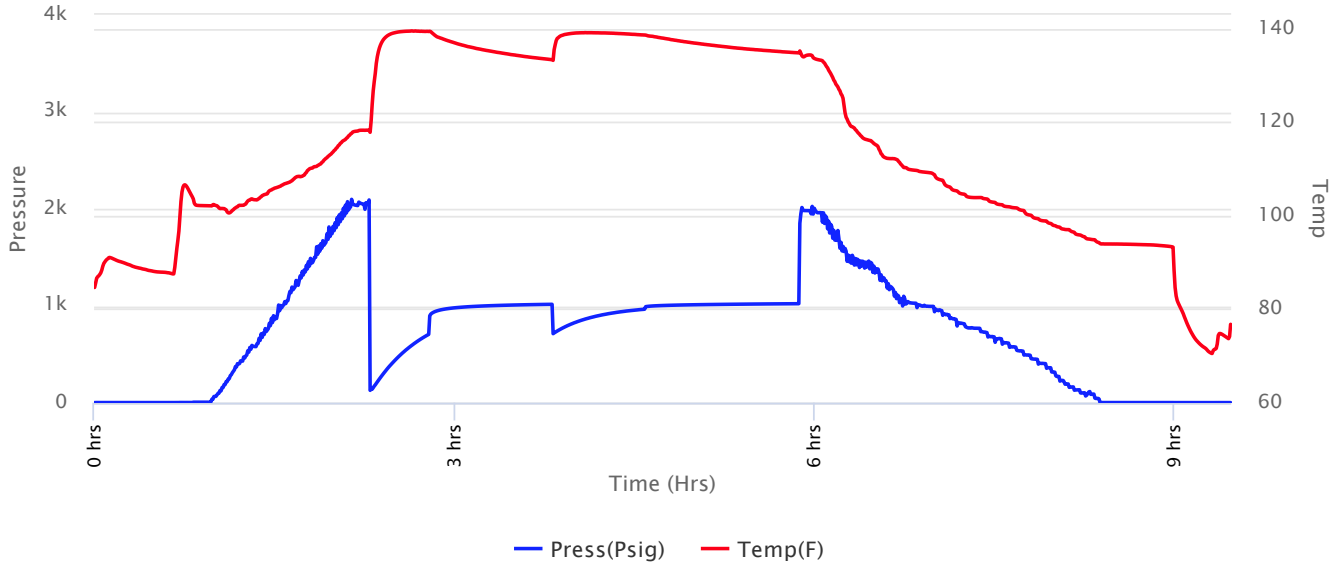
1st Open  
 Minutes: 30  
 Current Reading: 193.8" at 30 min  
 Max Reading: 193.8"

1st Close  
 Minutes: 60  
 Current Reading: 1.0" at 60 min  
 Max Reading: 1.0"

2nd Open  
 Minutes: 45  
 Current Reading: 76.6" at 45 min  
 Max Reading: 76.6"

2nd Close  
 Minutes: 75  
 Current Reading: 4.5" at 75 min  
 Max Reading: 4.5"

Inside Recorder





**Company: Raymond Oil Company, Inc**  
**Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2713 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 493  
 API #: 15-101-22654

**Operation:**  
 Tripping out of hole with test tool

**DATE**  
 August  
**02**  
 2021

**DST #2**      **Formation: L/KC 220' zone**      **Test Interval: 4286 - 4315'**      **Total Depth: 4315'**  
 Time On: 13:27 08/02      Time Off: 22:40 08/03  
 Time On Bottom: 15:40 08/02      Time Off Bottom: 19:10 08/02

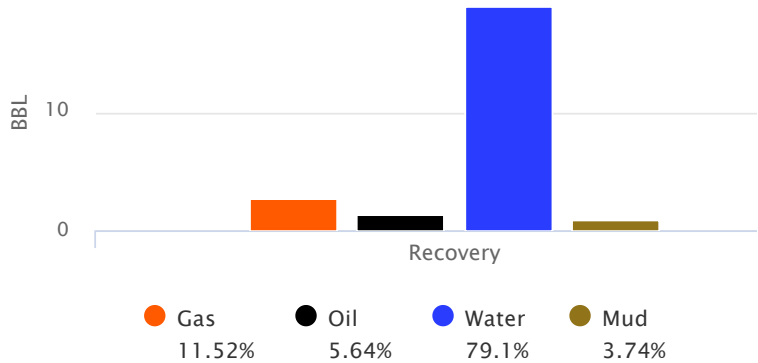
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
120	1.2312	G	100	0	0	0
55	0.5643	GCO	20	80	0	0
625	6.4125	SLMCSLOGCW	22	13	53	12
1215	12.4659	SLMCW (trace O)	0	.5	98.5	1
315	3.2319	W	0	0	100	0

Total Recovered: 2330 ft  
 Total Barrels Recovered: 23.9058

**Reversed Out**  
**NO**

Initial Hydrostatic Pressure	1994	PSI
Initial Flow	128 to 705	PSI
<b>Initial Closed in Pressure</b>	<b>1015</b>	<b>PSI</b>
Final Flow Pressure	712 to 964	PSI
<b>Final Closed in Pressure</b>	<b>1021</b>	<b>PSI</b>
Final Hydrostatic Pressure	1985	PSI
Temperature	140	°F
Pressure Change Initial Close / Final Close	0.0	%

**Recovery at a glance**



GIP cubic foot volume: 15.46688



**Company: Raymond Oil  
Company, Inc  
Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling &  
Exploration, LLC - Rig 1  
Elevation: 2713 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 493  
API #: 15-101-22654

**Operation:**  
Tripping out of hole with  
test tool

**DATE**  
August  
**02**  
2021

**DST #2**      **Formation: L/KC**      **Test Interval: 4286 -**      **Total Depth: 4315'**  
                      **220' zone**    **4315'**  
Time On: 13:27 08/02                    Time Off: 22:40 08/03  
Time On Bottom: 15:40 08/02      Time Off Bottom: 19:10 08/02

**BUCKET MEASUREMENT:**

1st Open: 3" blow building to BOB 1 1/2 min.  
1st Close: 1" BB  
2nd Open: 1/2" blow building to BOB 3 min.  
2nd Close: 4 1/4" BB

**REMARKS:**

Tool Sample: 0% Gas .1% Oil 98.9% Water 1% Mud  
Gravity: 44.2 @ 60 °F  
Ph: 7.5  
Measured RW: .22 @ 71 degrees °F  
RW at Formation Temp: 0.117 @ 140 °F  
Chlorides: 30,000 ppm



**Company: Raymond Oil Company, Inc**  
**Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2713 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 493  
 API #: 15-101-22654

**Operation:**  
 Tripping out of hole with test tool

**DATE**  
 August  
**02**  
 2021

**DST #2**      **Formation: L/KC**      **Test Interval: 4286 -**      **Total Depth: 4315'**  
    **220' zone**     **4315'**  
 Time On: 13:27 08/02     Time Off: 22:40 08/03  
 Time On Bottom: 15:40 08/02      Time Off Bottom: 19:10 08/02

**Down Hole Makeup**

<b>Heads Up:</b> 30.39 FT	<b>Packer 1:</b> 4281 FT
<b>Drill Pipe:</b> 4283.82 FT ID-3 1/4	<b>Packer 2:</b> 4286 FT
<b>Weight Pipe:</b> 0 FT ID-2 7/8	<b>Top Recorder:</b> 4270.42 FT
<b>Collars:</b> 0 FT ID-2 1/4	<b>Bottom Recorder:</b> 4288 FT
<b>Test Tool:</b> 33.57 FT ID-3 1/2-FH Jars Safety Joint	<b>Well Bore Size:</b> 7 7/8
<b>Total Anchor:</b> 29	<b>Surface Choke:</b> 1"
<u>Anchor Makeup</u>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 0 FT 4 1/2-FH	
<b>Change Over:</b> 0 FT	
<b>Drill Pipe: (in anchor):</b> 0 FT ID-3 1/4	
<b>Change Over:</b> 0 FT	
<b>Perforations: (below):</b> 28 FT 4 1/2-FH	





**Company: Raymond Oil Company, Inc**  
**Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2713 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 493  
 API #: 15-101-22654

**Operation:**  
 Tripping out of hole with test tool

**DATE**  
 August  
**02**  
 2021

DST #2                      Formation: L/KC                      Test Interval: 4286 -                      Total Depth: 4315'  
     220' zone    4315'

Time On: 13:27 08/02                      Time Off: 22:40 08/03  
 Time On Bottom: 15:40 08/02                      Time Off Bottom: 19:10 08/02

**Mud Properties**

**Mud Type:** Chemical                      **Weight:** 9.4                      **Viscosity:** 61                      **Filtrate:** 9.6                      **Chlorides:** 4,400 ppm



# Company: Raymond Oil Company, Inc

## Lease: Habiger-Wells Unit #1

SEC: 4 TWN: 20S RNG: 28W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
Elevation: 2713 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 493  
API #: 15-101-22654

**Operation:**  
Tripping out of hole with test tool

**DATE**  
August  
**02**  
2021

**DST #2**      **Formation: L/KC 220' zone**      **Test Interval: 4286 - 4315'**      **Total Depth: 4315'**  
Time On: 13:27 08/02      Time Off: 22:40 08/03  
Time On Bottom: 15:40 08/02      Time Off Bottom: 19:10 08/02

### Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



**Company: Raymond Oil  
Company, Inc**  
**Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling &  
Exploration, LLC - Rig 1  
Elevation: 2713 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 493  
API #: 15-101-22654

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
August  
**04**  
2021

**DST #3**      **Formation:** Myrick/Cherokee/Johnson      **Test Interval: 4470 - 4580'**      **Total Depth: 4580'**  
Time On: 03:24 08/04      Time Off: 11:57 08/04  
Time On Bottom: 05:41 08/04      Time Off Bottom: 09:11 08/04

Electronic Volume  
Estimate:  
806'

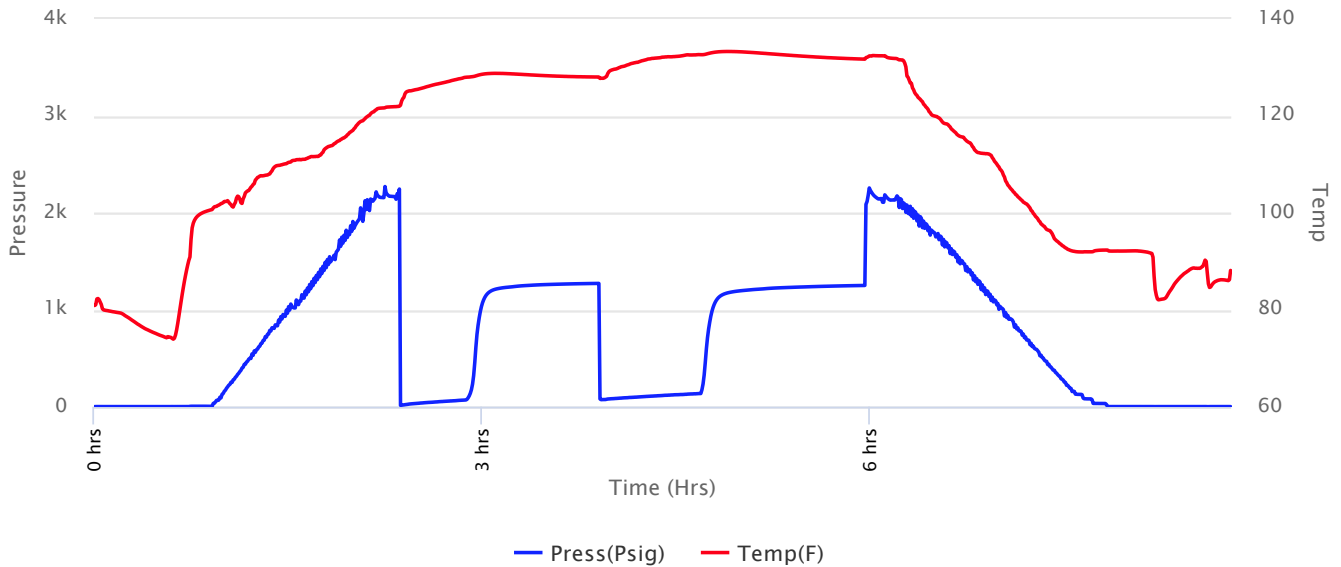
1st Open  
Minutes: 30  
Current Reading:  
29.5" at 30 min  
Max Reading: 29.5"

1st Close  
Minutes: 60  
Current Reading:  
0" at 60 min  
Max Reading: 0"

2nd Open  
Minutes: 45  
Current Reading:  
40.1" at 45 min  
Max Reading: 40.1"

2nd Close  
Minutes: 75  
Current Reading:  
0" at 75 min  
Max Reading: 0"

Inside Recorder





**Company: Raymond Oil Company, Inc**  
**Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
 County: LANE  
 State: Kansas  
 Drilling Contractor: L. D. Drilling & Exploration, LLC - Rig 1  
 Elevation: 2713 EGL  
 Field Name: Wildcat  
 Pool: WILDCAT  
 Job Number: 493  
 API #: 15-101-22654

**Operation:**  
 Uploading recovery & pressures

**DATE**  
 August  
**04**  
 2021

**DST #3**      **Formation:** Myrick/Cherokee/Johnson      **Test Interval: 4470 - 4580'**      **Total Depth: 4580'**  
 Time On: 03:24 08/04      Time Off: 11:57 08/04  
 Time On Bottom: 05:41 08/04      Time Off Bottom: 09:11 08/04

Recovered

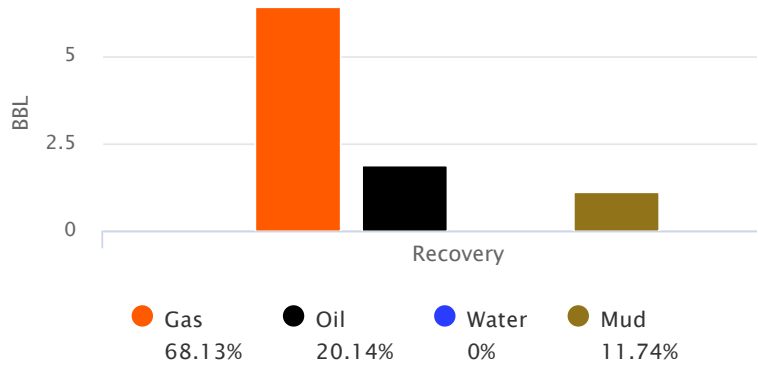
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
570	5.8482	G	100	0	0	0
125	1.2825	SLGCHOCM	13	33	0	54
225	2.3085	SLGCSLMCO	18	64	0	18

Total Recovered: 920 ft  
 Total Barrels Recovered: 9.4392

Reversed Out  
 NO

Initial Hydrostatic Pressure	2194	PSI
Initial Flow	14 to 70	PSI
<b>Initial Closed in Pressure</b>	<b>1272</b>	<b>PSI</b>
Final Flow Pressure	73 to 136	PSI
<b>Final Closed in Pressure</b>	<b>1250</b>	<b>PSI</b>
Final Hydrostatic Pressure	2180	PSI
Temperature	134	°F
Pressure Change Initial Close / Final Close	1.7	%

**Recovery at a glance**



GIP cubic foot volume: 36.10379



**Company: Raymond Oil  
Company, Inc  
Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling &  
Exploration, LLC - Rig 1  
Elevation: 2713 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 493  
API #: 15-101-22654

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
August  
**04**  
2021

**DST #3**      **Formation:**      **Test Interval: 4470 -**      **Total Depth: 4580'**  
Myrick/Cherokee/Johnson      **4580'**  
Time On: 03:24 08/04      Time Off: 11:57 08/04  
Time On Bottom: 05:41 08/04      Time Off Bottom: 09:11 08/04

**BUCKET MEASUREMENT:**

1st Open: 1/4" blow building to BOB 13 min.  
1st Close: No BB  
2nd Open: 14" blow building to BOB 9 1/2 min.  
2nd Close: No BB

**REMARKS:**

Tool Sample: 0% Gas 62% Oil 0% Water 38% Mud



**Company: Raymond Oil  
Company, Inc  
Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling &  
Exploration, LLC - Rig 1  
Elevation: 2713 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 493  
API #: 15-101-22654

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
August  
**04**  
2021

**DST #3**      **Formation:**      **Test Interval: 4470 -**      **Total Depth: 4580'**  
**Myrick/Cherokee/Johnson**      **4580'**  
Time On: 03:24 08/04      Time Off: 11:57 08/04  
Time On Bottom: 05:41 08/04      Time Off Bottom: 09:11 08/04

**Down Hole Makeup**

<b>Heads Up:</b> 34.99 FT	<b>Packer 1:</b> 4465.2 FT
<b>Drill Pipe:</b> 4472.62 FT <i>ID-3 1/4</i>	<b>Packer 2:</b> 4470.2 FT
<b>Weight Pipe:</b> 0 FT <i>ID-2 7/8</i>	<b>Top Recorder:</b> 4454.62 FT
<b>Collars:</b> 0 FT <i>ID-2 1/4</i>	<b>Bottom Recorder:</b> 4573 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> 109.8	<b>Surface Choke:</b> 1"
<b>Anchor Makeup</b>	<b>Bottom Choke:</b> 5/8"
<b>Packer Sub:</b> 1 FT	
<b>Perforations: (top):</b> 4 FT <i>4 1/2-FH</i>	
<b>Change Over:</b> 1 FT	
<b>Drill Pipe: (in anchor):</b> 94.80 FT <i>ID-3 1/4</i>	
<b>Change Over:</b> 1 FT	
<b>Perforations: (below):</b> 8 FT <i>4 1/2-FH</i>	



**Company: Raymond Oil  
Company, Inc**  
**Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling &  
Exploration, LLC - Rig 1  
Elevation: 2713 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 493  
API #: 15-101-22654

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
August  
**04**  
2021

**DST #3**      **Formation:**      **Test Interval: 4470 -**      **Total Depth: 4580'**  
**Myrick/Cherokee/Johnson**      **4580'**  
Time On: 03:24 08/04      Time Off: 11:57 08/04  
Time On Bottom: 05:41 08/04      Time Off Bottom: 09:11 08/04

**Mud Properties**

**Mud Type:** Chemical      **Weight:** 9.2      **Viscosity:** 48      **Filtrate:** 8.8      **Chlorides:** 4,200 ppm



**Company: Raymond Oil  
Company, Inc  
Lease: Habiger-Wells Unit #1**

SEC: 4 TWN: 20S RNG: 28W  
County: LANE  
State: Kansas  
Drilling Contractor: L. D. Drilling &  
Exploration, LLC - Rig 1  
Elevation: 2713 EGL  
Field Name: Wildcat  
Pool: WILDCAT  
Job Number: 493  
API #: 15-101-22654

**Operation:**  
Uploading recovery &  
pressures

**DATE**  
August  
**04**  
2021

**DST #3**      **Formation:**      **Test Interval: 4470 -**      **Total Depth: 4580'**  
Myrick/Cherokee/Johnson      **4580'**  
Time On: 03:24 08/04      Time Off: 11:57 08/04  
Time On Bottom: 05:41 08/04      Time Off Bottom: 09:11 08/04

**Gas Volume Report**

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



**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 # 1 HARIGER - WELLS UNIT KB 2721  
 FIELD WILDCAT DF \_\_\_\_\_  
 LOCATION 89° E.S. 4 451' E.L. GL 2716  
 SEC 4 TWP 20S RGE 28W Measurements Are All From 2721 KB  
 COUNTY LANE STATE KANSAS  
 CONTRACTOR L.D. DRILLING, INC. CASING SURFACE 8 5/8" @ 261'  
 SPUD 7-26-21 COMP 0-5-21 PRODUCTION 5 1/2' @  
 RID 4720 LTD 4722 ELECTRICAL SURVEYS  
 MUD UP 3591 TYPE MUD CHEMICAL Dual IND, DEN-S-N, MICRO, SONIC

SAMPLES SAVED FROM \_\_\_\_\_ TO 4720  
 DRILLING TIME KEPT FROM \_\_\_\_\_ TO 4720  
 SAMPLES EXAMINED FROM \_\_\_\_\_ TO 4720  
 GEOLOGICAL SUPERVISION FROM \_\_\_\_\_ TO 4720  
 GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	2045 + 626	2046 + 625
B/ANH.	2077 + 644	2078 + 645
HEBNER	3934 - 1213	3933 - 1212
LANING	3974 - 1253	3973 - 1252
STARK	4254 - 1533	4252 - 1531
B/KC	4336 - 1645	4336 - 1645
FORT SEPT	4606 - 1785	4505 - 1784
CHEROKEE	4530 - 1809	4526 - 1805
MISSISSIPPI	4602 - 1881	4600 - 1879

REMARKS

7-26-21	SPUD
7-27 @	650'
7-28 @	1985'
7-29 @	2800
7-30 @	3345
7-31 @	3751
8-1 @	4190
8-2 @	4270
8-3 @	4380
8-4 @	4580
8-5 @	4720

API: 15-101-22659

**LEGEND**

Anhydrite	Salt	Sandstone	Shale	Carb sh	Limestone	Col. Lime	Chert	Dolomite

LITHOLOGY

DRILLING TIME IN MINUTES  
PER FOOT  
Rate of Penetration increases

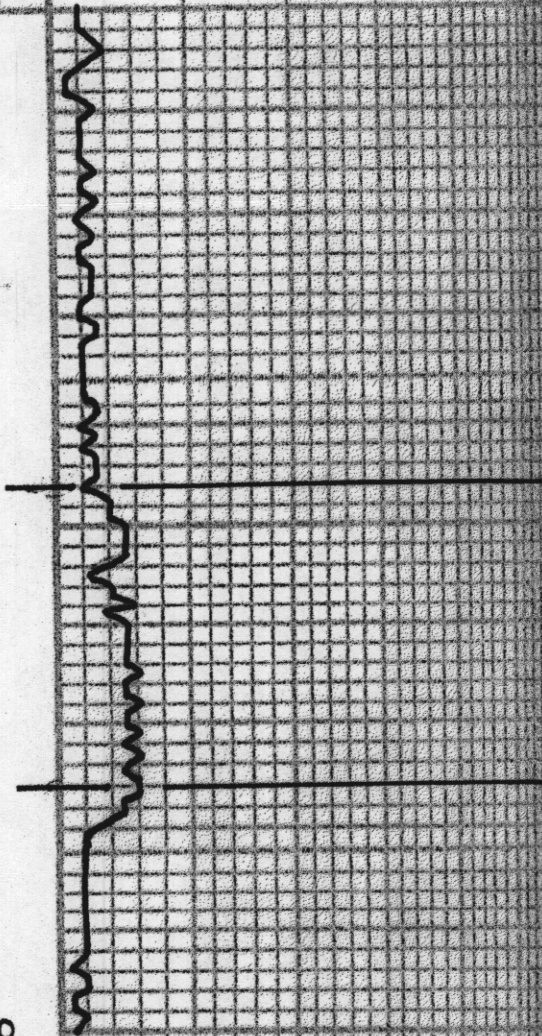


5" 10" 15" 20" 25"

DEPTH  
2000

SAMPLE DESCRIPTIONS

REMARKS

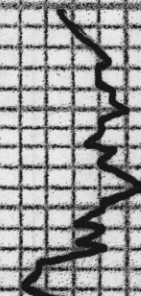


ANHYDRITE 2046 + 675

S/ANL. 2076 + 615

2100

3500



3600

Samples are lagged

LS. Finest cal. Sil. chly.

LS. Cy. Foss. Sil. calcitic

LS. Fin. Sil. Foss. Sil. A

Sh. Cy.

LS. Fin. Sil. A

LS. Finest Sil. Foss. Sil. A

LS. w/ cal. Foss. Sil. chly. Sil. calcitic

3700

LS. w/ Sil. chly. cal.

LS. cal. Sil. Foss. w/ De G. Foss.

LS. w/ Sil. Foss. w/ De G. Foss.

3800

3900

YIS: 47 WT: 8.7  
VCL: 8.0 CHL: 1700

LS. wt. ch. Foss. ool.

LS. To. ch. Br. Sil. Foss.

LS. To. ch. Sil. Foss. ch. lly.

Δ wt.

Sh. Blk.

Sh. L. ch. Sil. Silly.

Δ Cy. Foss.

LS. wt. ool. Celestic.

LS. wt. Sh. Foss. Sil. ch. lly.

Δ L. ch.

LS. To. wt. ool. Sil. Δ

Sh. L. ch.

LS. wt. ch. lly.

LS. To. ch. Foss. Celestic.

LS. To. Sh. Foss. Sil. Δ

LS. To. ch. Foss. Celestic.

LS. Cy. YSD. Foss. Sil. Δ

LS. Ch. Sil. Foss.

HEEBNER  
Sh. Blk. Carb.

3933-1212

LS. Cy. Sil. Foss.

4000

4100

TORONTO

Sh. Blue-Gr Silty

65. Ta wt. Sil. Foss. Sil. A

Δ wt

65. wt. VSil. Foss. Foss. Sil. A

Sh. Rd. Gr

LANSING 3973-1252

65. wt ool. Sil. A

65. Ta. Sil. VSil. Foss

Sh. Dk. Gr

Sh. Ltg. Gr

65. Foss. ool.

65. Ta. Sil. Foss. Sil. Calcite

65. wt. Sil. Foss. Sil. A

65. Ta. VSil. Foss

65. wt. ool. Sil. Foss. Sil. Chly.

65. wt. VSil. Foss. Sil. A

65. Ta. Sil. ool. ool.

65. wt. chly.

65. Ltg. VSil. Foss

65.

V106

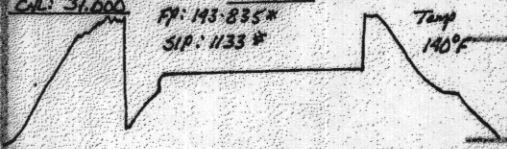
**MUNCIE CREEK 4191-1433**

SA. Blk Carb  
 LS. Bl. VSI: Foss  
 SA. L.G. G.  
 Δ wt 2 1/2  
 LS. wt SA. Foss. Si. A  
 LS. Foss, VSI. A. Si. Calcitic  
 SA. Blk  
 LS. Bl. DE. Bl. VSI: Foss  
 LS. To G. Si. Foss  
 LS. To wt. Si. Foss. and Si. cherty  
 LS. To wt. G. ool. gd ool. p

VIS: 49 WT: 9.2  
 WL: 7.2 CAL: 2000

**DST (1) 4249-4270**

1<sup>st</sup> OPEN: Bottom bucket 1 1/2 min. BB: 1"  
 2<sup>nd</sup> OPEN: No Blow (Tool plugged w/cuttings) None  
 30-60-45-75  
 Tool Sample  
 17. oil Rec. 95' G.I.P.  
 97. wt 2' clean oil  
 30' OG MW (15% oil, 67% W.B.M.)  
 PH: R.S. 190' MW w/ 72 Oil (Boil. Bl. 28 wt %)  
 RW: 250 @ 62°F 1640' SOG MW (37% oil, 97% W)  
 RV: .117 @ 140°F TF: 1862'  
 CW: 31,000 FP: 143-835\* Temp 140°F  
 SIP: 1133\*



LS. L.G. VSI: Foss

**DST (1)**



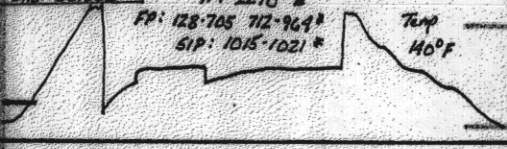
**STARK 4252-1531**

SA. Blk Carb  
 LS. To wt. Si. Foss. Si. A. Slightly Fi. Gd. VSI  
 VSI To Str. FSD (Clear) Gd. Flow Sand Oolite  
 LS. G. Foss. and Si. cherty  
 LS. L.G. Si. Foss  
 Δ Gp  
 LS. wt. Si. Foss. Si. cherty

VIS: 61 WT: 9.4  
 WL: 9.2 CAL: 4400

**DST (2) 4286-4315**

1<sup>st</sup> OPEN: Bottom bucket 1 1/2 min. BB: 1"  
 2<sup>nd</sup> OPEN: " " 3 " BB: 4 1/4"  
 30-60-45-75  
 Tool Sample  
 1. oil Rec. 120' G.I.P.  
 98.9 wt 55' GO (20% G. 80% Oil) Grav 44.2  
 17. Mud 625' OG MW (22% G. 13% Oil, 53% W. B.M.)  
 PH: 7.5 1215' VSMW (50% oil, 78% W, 17% M)  
 RW: 22 @ 71°F 315' Wt (Cov. W)  
 RV: .117 @ 140°F TF: 2210'  
 CW: 30,000 FP: 128-705 712-962\* Temp 140°F  
 SIP: 1015-1021\*



**DST (2)**



**HUSHBUCKNEY 4288-1567**

SA. Blk Carb  
 LS. Bl. VSI: Foss  
 SA. L.G.  
 LS. Bl. Foss. and Si. A. P. V. G.  
 L. Bl. Str. To G. SS. FD. Fi. Flow  
 LS. wt. L.G. Si. Foss. Si. A. Fi. Gd. VSI  
 VSI To Str. FSD. Gd. Flow Fi. Gd. Oolite  
 LS. G. VSI. Calcitic Si. A

LS. To wt. Bl. VSI: Foss. Si. A

**B/KC 4336-1615**

LS. L.G. VSI: Foss. Si. A

SA. L.G. Blue G. Silty

4200

4300

4400

ALTAMONT

VS: 49 WT: 9.2  
WB: 8.8 CMC: 1200

LS. Bl. Sil. Foss

LS. Bl. Sil. Foss

LS. Gy. Sil. Foss

LS. Gy. Silly

LS. Gy. Silly

LS. Bl. Sil. Foss Sil. A

LS. Tan. Sil. A. Caliche

LS. Tan. Sil. Foss. P. V. Sil. A  
7. DK Bl. col. Sil. F. F. No Flow  
Nooder

LS. Tan. Sil. A

Sh. Blk

PAWNEE 4457-1736

Silly

LS. Tan. Sil. Foss Sil. A

LS. Gy.

LS. Tan. Sil. A

Sh. Blk. Carb.

LS. DK Bl. VSil. Foss.

Sh. Silly

LS. w/ sil. VSil. Foss. Sh. Ch. P. V. Sil. A  
Scal. L. Tan. Sil. VSil. F. F. No Flow  
Nooder

LS. Gy.

Sh. Blk. Carb.

FORT SCOTT 4505-1784

LS. Tan. Bl. col. Sil. Foss. P. V. Sil. A  
Scal. L. Tan. Sil. VSil. F. F. No Flow  
Nooder

LS. Gy. col. Sil. A. VSil. Ch. L.

LS. DK Bl. VSil. Foss.

CHEROKEE 4526-1805

Sh. Blk. Carb.

LS. Tan. col. Sil. A

LS. w/ Sil. Foss. Sil. A

Sh. Blk. Carb.

LS. Tan. VSil. Foss. Sil. A. Sil. Caliche

Sh. Blk. Carb.

JOHNSON 4565-1844

4500

LOG

DST  
(3)

LOG

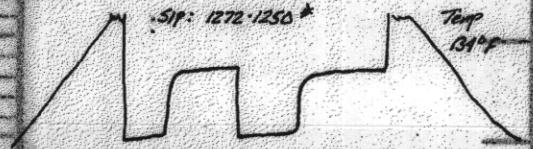
DST (3) 4470-4580

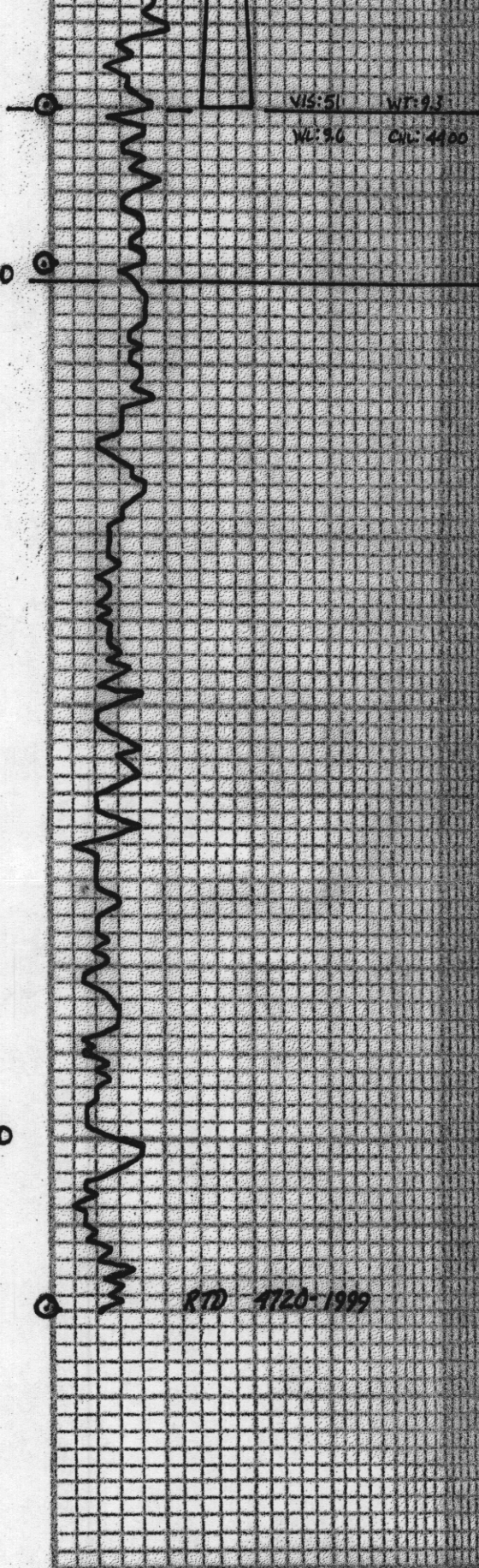
1st OPEN: Bottom Bucket 13 min. 38: None  
2nd OPEN: " 9 1/2 min. 38: "  
30-60-45-75  
Re: 570 G.I.P.  
125' NOGCM (18% 33% 64% M)  
225' GMD (18% 64% 18% M)  
TF: 350'

FD: 14-70 73-136\*

SIP: 1272-1250\*

Temp  
131°F





4600

4700

VS: 51 WT: 93  
VL: 96 CW: 4100

RTD 4720-1999

LS. 20 6/5 SI. Foss. Silt F. Vard  
Sub. L7 Ta. Slt S.F.P. F. Flow. F. D. Or  
LS. wt. Sdy.

BI PERN 4580-1859

Slt. L7 Blue. Sdy  
Δ L7. sd. Cl. in F. L. S. Pl.  
Slt. Turq. Pyrosh

MISSISSIPPI 4600-1879

LS. wt. Ta. ooh. Slt. Chl.  
LS. wt. chly  
Dol. Br. V. Exh. Slt  
LS. Ta. Foss. Slt. A. Calcitic  
Dol. Ta. L7. Br. Exh. Svt.

Dol. G. Br. Exh. Slt. Foss.  
Slt. L7 Blue

Dol. Ta. Br. Exh.  
Dol. Ta. wt. V. Exh. Foss.

Dol. Ta. wt. V. Exh. Svt.  
LS. G. Slt. Foss. Slt. A.

Dol. L7. Exh.  
LS. Ta. wt. Slt. Foss. Slt. A.  
Δ G.

Dol. Ta. wt. V. Exh. Slt. Foss.  
Δ G. Dol. L7. Exh. w/ Ta. Slt.



