

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) (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	Farmer, John O., Inc.
Well Name	MAUPIN 2
Doc ID	1486478

Tops

Name	Top	Datum
Anhydrite	998'	(+911)
Topeka	2740'	(-831)
Heebner	2989'	(-1080)
Toronto	3008'	(-1099)
Lansing	3037'	(-1128)
Base/KC	3295'	(-1386)
Simpson Sand	3381'	(-1472)
Arbuckle	3388'	(-1479)
L.T.D.	3467'	(-1558)

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 1605

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9-11-19	10	11	15	Russell	Kansas		5:15 AM
				Location Paradise			
Lease Maupin			Well No. #2		Owner		
Contractor Discovery DRIG. Rig #2			To Quality Oilwell Cementing, Inc.		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.		
Type Job PRODUCTION STRING			Charge To JOHN O. FARMER INC.				
Hole Size 7 1/8		T.D. 3470					
Csg. 5 1/2 14# new		Depth 3467		Street			
LATCH DOWN ASSY		3431		City State			
Tool PORT COLLAR		Depth 1,000		The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.		Shoe Joint 35.85		Cement Amount Ordered 175 Com, 10% salt 5% gilsonite			
Meas Line		Displace 83.3/4		20 BBL/KCL			
EQUIPMENT				Common 175			
Pumptrk 18	No.	Cementor	DAVE	Poz. Mix			
		Helper	LARRY				
Bulktrk 15	No.	Driver	GARY	Gel.			
		Driver					
Bulktrk	No.	Driver		Calcium KCL 2 gal			
		Driver					
JOB SERVICES & REMARKS				Hulls			
Remarks: #83-85 out of Tally				Salt 15			
Rat Hole 15 SX				Flowseal			
Mouse Hole 30 SX				Kol-Seal 750#			
Centralizers 1, 3, 5, 7, 59,				Mud CLR 48 500 GAL			
Baskets 9, 59				CFL-117 or CD110 CAF 38			
D/V or Port Collar #60 PC.				Sand			
Ran 84 New JTS of 14# csg.				Handling 197			
Set @ 3467, received circulation				Mileage			
Drop AFU BALL, ROTATE csg, while circulating on bottom. 1 Hr				FLOAT EQUIPMENT			
Mix 130 SX down hole clear-line				Guide Shoe			
Release LATCH DOWN Plug & Displace				Centralizer			
84 BBL / H ₂ O Land Plug @ 1200#				Baskets			
Release # & (HELD)				AFU Inserts			
HAD 500 # LIFT PRESSURE				① Float Shoe			
				① Latch Down			
				① PORT COLLAR			
				- ROTATING HEAD -			
				Pumptrk Charge prod string			
				Mileage 28			
				Tax			
				Discount			
				Total Charge			
X Signature <i>Am Weavaly</i>							

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 1658

Date	12-3-19	Sec.	10	Twp.	11	Range	15	County	Rs	State	Ks	On Location		Finish	1:30 PM
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Location *paradise 4w*

Lease *Maugin* Well No. *2* Owner

Contractor *Western well* To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish

Type Job *port collar job* cementer and helper to assist owner or contractor to do work as listed.

Hole Size T.D. Charge To *Jo Farmer*

Csg. *5 1/2* Depth Street

Tbg. Size Depth City State

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint Cement Amount Ordered *250 8 1/2 QMDC 1/4 F10*

Meas Line Displace

EQUIPMENT Common *250 8 1/2 QMDC*

Pumptrk	<i>17</i>	No.	Cementer	<i>Dave</i>	Poz. Mix
	<i>18</i>		Helper		

Bulktrk	<i>15</i>	No.	Driver	<i>MIKE</i>	Gel. <i>6</i>
			Driver		

Bulktrk	<i>pu</i>	No.	Driver	<i>DAVID</i>	Calcium
			Driver		

JOB SERVICES & REMARKS

Remarks: Salt

Rat Hole Flowseal *62#*

Mouse Hole *mixed 6 gel* Kol-Seal

Centralizers Mud CLR 48

Baskets CFL-117 or CD110 CAF 38

D/V or Port Collar *1000' 996* Sand

pressured casing to 900 psi. opened foot Handling *256*

port collar mixed 30 sk Mileage

blew rubber. Replaced **FLOAT EQUIPMENT**

rubber mixed 80 sk w/ no Guide Shoe

air, wait 30 min. mixed Centralizer

140 sk no ~~blew~~ Baskets

circulation AFU Inserts

Float Shoe

Latch Down

Thanks

Pumptrk Charge *port collar*

Mileage *28*

X Signature *U...he*

Tax	
Discount	
Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071
Cell 785-324-1041

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

No. 1660

Date	12-3-19	Sec.	10	Twp.	11	Range	15	County	Rs.	State	Ks	On Location		Finish	1:00 pm
Lease								Location		paradise 4w					
Maurin								Well No.		2					
Contractor								Western well							
Type Job								Cir Cement							
Hole Size								T.D.		Charge To					
Csg.								Depth		JO Farmer					
Tbg. Size								Depth		Street					
Tool								Depth		City					
Cement Left in Csg.								Shoe Joint		State					
Meas Line								Displace		The above was done to satisfaction and supervision of owner agent or contractor.					
EQUIPMENT								Cement Amount Ordered							
Pumptrk								No.		100 8/10 Qm Dc 1/4 fl					
Bulktrk								No.		Common					
Bulktrk								No.		50 8/10 Qm Dc					
JOB SERVICES & REMARKS								Dave							
Remarks:								Mike							
Rat Hole								Hulls							
Mouse Hole								Salt							
Centralizers								Flowseal 25#							
Baskets								Kol-Seal							
D/V or Port Collar								Mud CLR 48							
Ran 1" to								CFL-117 or CD110 CAF 38							
pumped 50 sk & cir								Sand							
to surface								Handling 100							
								Mileage							
								FLOAT EQUIPMENT							
								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge							
								Cir Cement							
								Mileage							
								28							
								Tax							
								Discount							
								Total Charge							
X Signature								Use Dan							



**Discovery
Drilling**

P.O. Box 763 • Hays, KS 67601 • OFFICE (785) 623-2920 • CELLULAR (785) 635-1511

DRILLER'S LOG

Operator: John O. Farmer, Inc. Lic# 5135 Contractor: Discovery Drilling Co., Inc. LIC#31548
370 West Wichita Avenue - P.O. Box 352 PO Box 763
Russell, KS 67665 + 0352 Hays, KS 67601

Lease: Maupin # 2 Location: 755 FNL - 1450 FWL
NW/SW/NE/NW
Section 10/ 11S/ 15W
Russell County, KS

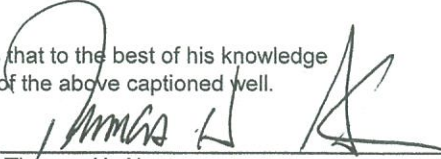
Loggers Total Depth: 3467' API#15- 167-24,077-00-00
 Rotary Total Depth: 3470' Elevation: 1901 GL - 1909 KB
 Commenced: 9/3/2019 Completed: 9/11/2019
 Casing: 8 5/8" @ 218.30'W/150sks Status: Oil Well
5 1/2" @ 3467'W/130sks
(Port Collar @ 1000')

**DEPTHS & FORMATIONS
(All from KB)**

Surface, Sand & Shale	<u>0'</u>	Shale	<u>1036'</u>
Dakota Sand	<u>427'</u>	Shale & Lime	<u>1561'</u>
Shale	<u>499'</u>	Shale	<u>1866'</u>
Cedar Hill Sand	<u>537'</u>	Shale & Lime	<u>2179'</u>
Red Bed Shale	<u>683'</u>	Lime & Shale	<u>2996'</u>
Anhydrite	<u>1003'</u>	RTD	<u>3470'</u>
Base Anhydrite	<u>1036'</u>		

STATE OF KANSAS))
) ss
 COUNTY OF ELLIS)

Thomas H. Alm of Discovery Drilling states that to the best of his knowledge the above and foregoing is a true and correct log of the above captioned well.

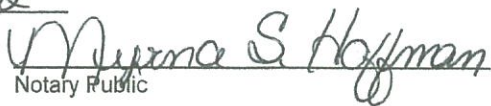


 Thomas H. Alm

Subscribed and sworn to before me on 9-12-19

My Commission expires: 6-28-2022

(Place stamp or seal below)



 Notary Public





Company: John O. Farmer, Inc
Lease: Maupin #2

SEC: 10 TWN: 11S RNG: 15W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Discovery Drilling
 Company, Inc. - Rig 2
 Elevation: 1902 EGL
 Field Name: Fairport NE
 Pool: Infield
 Job Number: 389
 API #: 15-167-24077

Operation:
 Uploading recovery &
 pressures

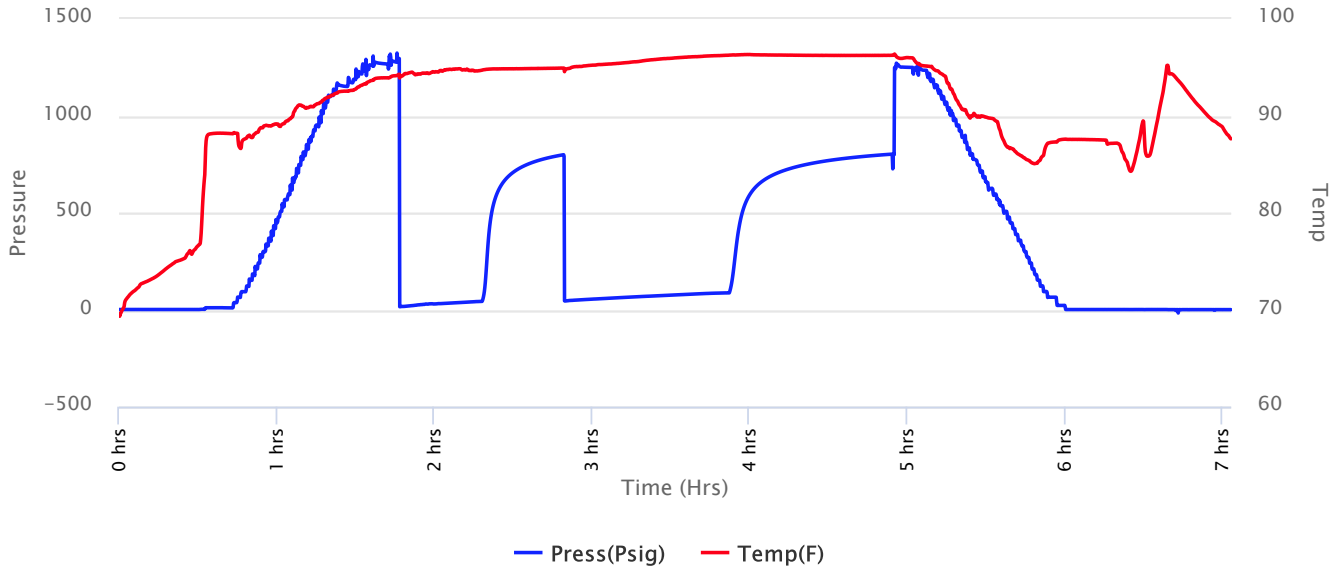
DATE
 September
07
 2019

DST #1 **Formation: Topeka** **Test Interval: 2760 - 2782'** **Total Depth: 2782'**
 Time On: 10:05 09/07 Time Off: 16:57 09/07
 Time On Bottom: 11:50 09/07 Time Off Bottom: 14:50 09/07

Electronic Volume
 Estimate:
 58'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 30	Minutes: 30	Minutes: 60	Minutes: 60
Current Reading: 1.6" at 30 min	Current Reading: 0" at 30 min	Current Reading: 6.1" at 60 min	Current Reading: 0" at 60 min
Max Reading: 1.9"	Max Reading: 0"	Max Reading: 6.1"	Max Reading: 0"

Inside Recorder





Company: John O. Farmer, Inc
Lease: Maupin #2

SEC: 10 TWN: 11S RNG: 15W
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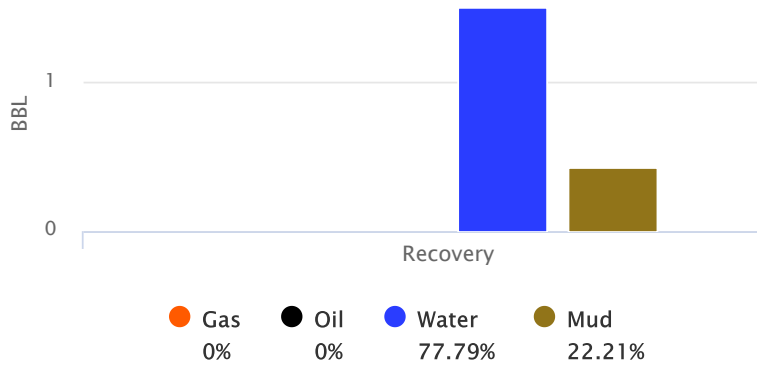
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
10	0.1423	HMCW	0	0	50	50
126	1.79298	MCW	0	0	80	20

Total Recovered: 136 ft
 Total Barrels Recovered: 1.93528

Reversed Out
 NO

Initial Hydrostatic Pressure	1267	PSI
Initial Flow	16 to 43	PSI
Initial Closed in Pressure	799	PSI
Final Flow Pressure	46 to 87	PSI
Final Closed in Pressure	803	PSI
Final Hydrostatic Pressure	1265	PSI
Temperature	97	°F
Pressure Change Initial Close / Final Close	0.0	%

Recovery at a glance



GIP cubic foot volume: 0



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Field Name: Fairport NE
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Operation:
Uploading recovery &
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DST #1	Formation: Topeka	Test Interval: 2760 - 2782'	Total Depth: 2782'
	Time On: 10:05 09/07	Time Off: 16:57 09/07	
	Time On Bottom: 11:50 09/07	Time Off Bottom: 14:50 09/07	

BUCKET MEASUREMENT:

1st Open: WSB. Built to 2 inches in 30 mins
1st Close: NOBB
2nd Open: 1/2" Blow. Built to 6 inches in 60 mins
2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 0% Oil 90% Water 10% Mud
Ph: 7
Measured RW: .13 @ 92 degrees °F
RW at Formation Temp: 0.124 @ 97 °F
Chlorides: 58,000 ppm



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 Time On: 10:05 09/07 Time Off: 16:57 09/07
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Down Hole Makeup

Heads Up: 13.58 FT	Packer 1: 2755 FT
Drill Pipe: 2748.42 FT <i>ID-3 1/2</i>	Packer 2: 2760 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Top Recorder: 2747 FT
Collars: FT <i>ID-2 1/4</i>	Bottom Recorder: 2762 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 22	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): FT <i>4 1/2-FH</i>	
Change Over: FT	
Drill Pipe: (in anchor): FT <i>ID-3 1/2</i>	
Change Over: FT	
Perforations: (below): 21 FT <i>4 1/2-FH</i>	



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Time On: 10:05 09/07 Time Off: 16:57 09/07
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Mud Properties

Mud Type: Chem **Weight:** 8.7 **Viscosity:** 54 **Filtrate:** 7.2 **Chlorides:** 3000 ppm



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Operation:
 Uploading recovery &
 pressures

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 Time On: 10:05 09/07 Time Off: 16:57 09/07
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Gas Volume Report

1st Open

2nd Open

Time	Orifice	PSI	MCF/D
------	---------	-----	-------

Time	Orifice	PSI	MCF/D
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Company: John O. Farmer, Inc
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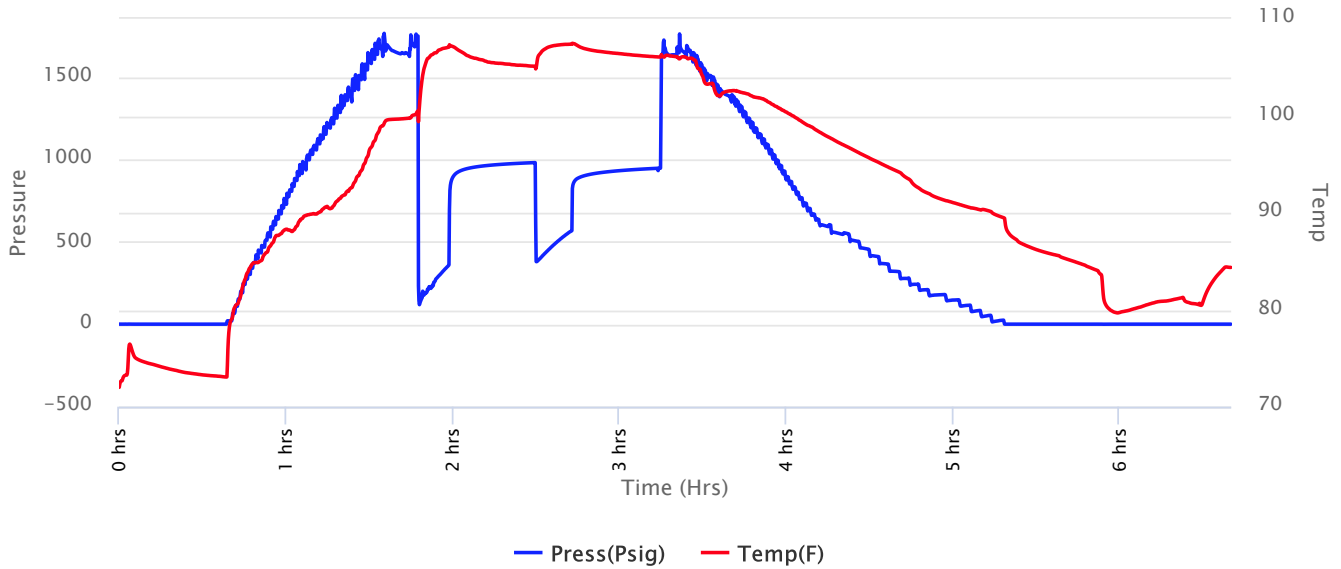
DATE
 September
10
 2019

DST #2 **Formation: Arbuckle/Sand** **Test Interval: 3357 - 3410'** **Total Depth: 3467'**
 Time On: 03:29 09/10 Time Off: 09:57 09/10
 Time On Bottom: 05:14 09/10 Time Off Bottom: 06:34 09/10

Electronic Volume
 Estimate:
 1322'

<u>1st Open</u>	<u>1st Close</u>	<u>2nd Open</u>	<u>2nd Close</u>
Minutes: 10	Minutes: 30	Minutes: 10	Minutes: 30
Current Reading: 84" at 10 min	Current Reading: 0" at 30 min	Current Reading: 84.5" at 10 min	Current Reading: 0" at 30 min
Max Reading: 84"	Max Reading: 0"	Max Reading: 84.5"	Max Reading: 0"

Inside Recorder





Company: John O. Farmer, Inc
Lease: Maupin #2

SEC: 10 TWN: 11S RNG: 15W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Discovery Drilling
 Company, Inc. - Rig 2
 Elevation: 1902 EGL
 Field Name: Fairport NE
 Pool: Infield
 Job Number: 389
 API #: 15-167-24077

Operation:
 Uploading recovery &
 pressures

DATE
 September
10
 2019

DST #2 **Formation: Arbuckle/Sand** **Test Interval: 3357 - 3410'** **Total Depth: 3467'**
 Time On: 03:29 09/10 Time Off: 09:57 09/10
 Time On Bottom: 05:14 09/10 Time Off Bottom: 06:34 09/10

Recovered

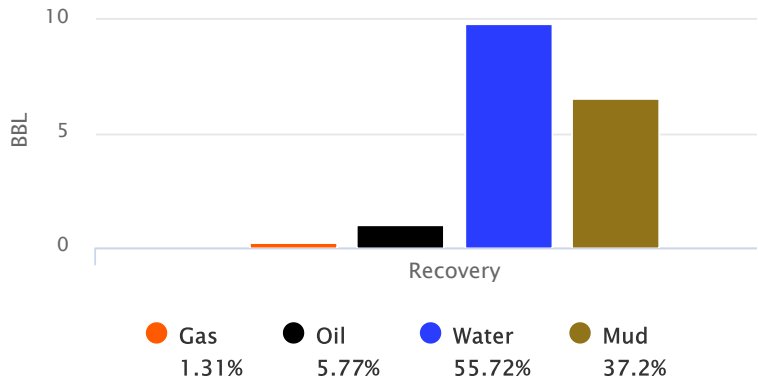
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
539	7.66997	SLGCSLOCWCM	3	5	21	71
378	5.37894	SLOC SLMCW	0	5	80	15
315	4.48245	SLMCSLOCW	0	8	86	6

Total Recovered: 1232 ft
 Total Barrels Recovered: 17.53136

Reversed Out
 NO

Initial Hydrostatic Pressure	1624	PSI
Initial Flow	119 to 359	PSI
Initial Closed in Pressure	980	PSI
Final Flow Pressure	380 to 568	PSI
Final Closed in Pressure	947	PSI
Final Hydrostatic Pressure	1628	PSI
Temperature	108	°F
Pressure Change Initial Close / Final Close	3.4	%

Recovery at a glance



GIP cubic foot volume: 1.29189



Company: John O. Farmer, Inc
Lease: Maupin #2

SEC: 10 TWN: 11S RNG: 15W
County: RUSSELL
State: Kansas
Drilling Contractor: Discovery Drilling
Company, Inc. - Rig 2
Elevation: 1902 EGL
Field Name: Fairport NE
Pool: Infield
Job Number: 389
API #: 15-167-24077

Operation:
Uploading recovery &
pressures

DATE
September
10
2019

DST #2	Formation: Arbuckle/Sand	Test Interval: 3357 - 3410'	Total Depth: 3467'
	Time On: 03:29 09/10	Time Off: 09:57 09/10	
	Time On Bottom: 05:14 09/10	Time Off Bottom: 06:34 09/10	

BUCKET MEASUREMENT:

1st Open: 1" Blow. BOB in 1 mins
1st Close: NOBB
2nd Open: 4" Blow. BOB in 1 min
2nd Close: NOBB

REMARKS:

Tool Sample: 0% Gas 5% Oil 93% Water 2% Mud

Ph: 7

Measured RW: .41 @ 82 degrees °F

RW at Formation Temp: 0.317 @ 108 °F

Chlorides: 20,000 ppm



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Lease: Maupin #2

SEC: 10 TWN: 11S RNG: 15W
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 State: Kansas
 Drilling Contractor: Discovery Drilling
 Company, Inc. - Rig 2
 Elevation: 1902 EGL
 Field Name: Fairport NE
 Pool: Infield
 Job Number: 389
 API #: 15-167-24077

Operation:
 Uploading recovery &
 pressures

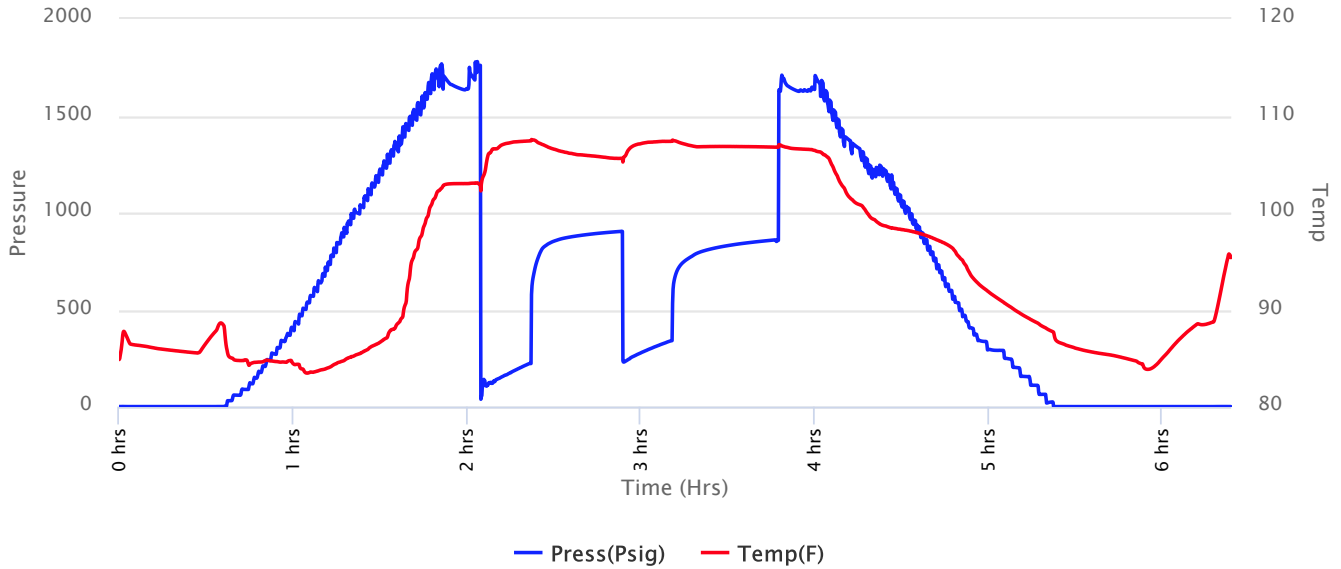
DATE
 September
10
 2019

DST #3 **Formation: Sand** **Test Interval: 3356 - 3389'** **Total Depth: 3467'**
 Time On: 10:49 09/10 Time Off: 17:02 09/10
 Time On Bottom: 12:51 09/10 Time Off Bottom: 14:21 09/10

Electronic Volume
 Estimate:
 674'

<u>1st Open</u>	1st Close	<u>2nd Open</u>	2nd Close
Minutes: 15	Minutes: 30	Minutes: 15	Minutes: 30
Current Reading: 41.4" at 15 min	Current Reading: 0" at 30 min	Current Reading: 39.2" at 15 min	Current Reading: 0" at 30 min
Max Reading: 41.4"	Max Reading: 0"	Max Reading: 39.2"	Max Reading: 0"

Inside Recorder





Company: John O. Farmer, Inc
Lease: Maupin #2

SEC: 10 TWN: 11S RNG: 15W
 County: RUSSELL
 State: Kansas
 Drilling Contractor: Discovery Drilling
 Company, Inc. - Rig 2
 Elevation: 1902 EGL
 Field Name: Fairport NE
 Pool: Infield
 Job Number: 389
 API #: 15-167-24077

Operation:
 Uploading recovery &
 pressures

DATE
 September
10
 2019

DST #3 **Formation: Sand** **Test Interval: 3356 - 3389'** **Total Depth: 3467'**
 Time On: 10:49 09/10 Time Off: 17:02 09/10
 Time On Bottom: 12:51 09/10 Time Off Bottom: 14:21 09/10

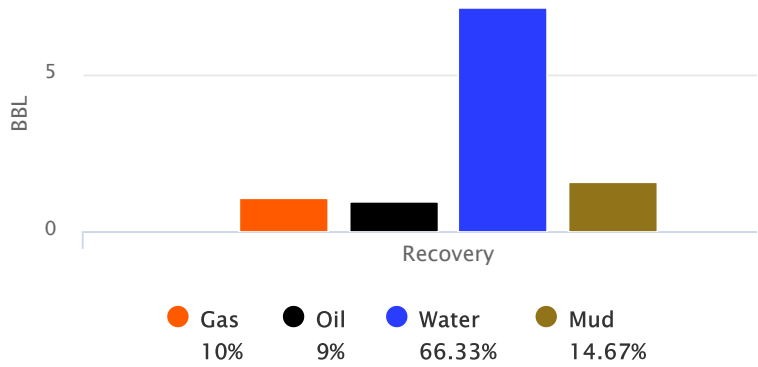
Recovered		Description of Fluid	Gas %	Oil %	Water %	Mud %
Foot	BBLs					
504	7.17192	SLOCSLGMCW	15	10	55	20
252	3.58596	SLMCSLOCW	0	7	89	4

Total Recovered: 756 ft
 Total Barrels Recovered: 10.75788

Reversed Out
 NO

Initial Hydrostatic Pressure	1634	PSI
Initial Flow	39 to 223	PSI
Initial Closed in Pressure	903	PSI
Final Flow Pressure	231 to 341	PSI
Final Closed in Pressure	861	PSI
Final Hydrostatic Pressure	1634	PSI
Temperature	108	°F
Pressure Change Initial Close / Final Close	4.7	%

Recovery at a glance



GIP cubic foot volume: 6.04001



Company: John O. Farmer, Inc
Lease: Maupin #2

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State: Kansas
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Company, Inc. - Rig 2
Elevation: 1902 EGL
Field Name: Fairport NE
Pool: Infield
Job Number: 389
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DST #3 **Formation: Sand** **Test Interval: 3356 - 3389'** **Total Depth: 3467'**
Time On: 10:49 09/10 Time Off: 17:02 09/10
Time On Bottom: 12:51 09/10 Time Off Bottom: 14:21 09/10

BUCKET MEASUREMENT:

1st Open: 1" Blow. BOB in 3 mins
1st Close: NOBB
2nd Open: 2 1/2" Blow. BOB in 3 mins
2nd Close: NOBB

REMARKS:

Below Straddle Packer Held. 1175
Tool Sample: 0% Gas 5% Oil 95% Water 0% Mud
Ph: 7
Measured RW: .52 @ 90 degrees °F
RW at Formation Temp: 0.438 @ 108 °F
Chlorides: 15,000 ppm



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Lease: Maupin #2

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DST #3 **Formation: Sand** **Test Interval: 3356 - 3389'** **Total Depth: 3467'**
 Time On: 10:49 09/10 Time Off: 17:02 09/10
 Time On Bottom: 12:51 09/10 Time Off Bottom: 14:21 09/10

Down Hole Makeup

Heads Up: 18.05 FT	Packer 1: 3351 FT
Drill Pipe: 3348.89 FT <i>ID-3 1/2</i>	Packer 2: 3356 FT
Weight Pipe: FT <i>ID-2 7/8</i>	Packer 3: 3389 FT
Collars: FT <i>ID-2 1/4</i>	Top Recorder: 3343 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Bottom Recorder: 3390 FT
Total Anchor: 33	Below Straddle Recorder: 3455 FT
	Well Bore Size: 7 7/8
	Surface Choke: 1"
	Bottom Choke: 5/8"

Anchor Makeup

Packer Sub: 1 FT

Perforations: (top): 32 FT
4 1/2-FH

Change Over: FT

Drill Pipe: (in anchor): FT
ID-3 1/2

Change Over: FT

Perforations: (below): FT
4 1/2-FH

STRADDLE

Straddle Packer(s): 1 FT

Change Over: .5 FT

Drill Pipe: 63.24 FT
ID-3 1/2"

Change Over: 1 FT

Perforations (in tail pipe): 13 FT
4 1/2-FH



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DST #3 **Formation: Sand** **Test Interval: 3356 - 3389'** **Total Depth: 3467'**
Time On: 10:49 09/10 Time Off: 17:02 09/10
Time On Bottom: 12:51 09/10 Time Off Bottom: 14:21 09/10

Mud Properties

Mud Type: Chem **Weight:** 9.1 **Viscosity:** 61 **Filtrate:** 10.4 **Chlorides:** 10000 ppm



AUSTIN B. KLAUS



Cell 785.650.3629
Work 785.483.3145
Ext 225

PO BOX 352
Russell, KS 67665
austin.klaus@johnofarmer.com

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

Well Name: Maupin #2
Location: Russell County
License Number: API #15-167-24,077-0000
Spud Date: 9/3/2019
Surface Coordinates: Section 10, Township 11 South, Range 15 West
755' FNL & 1,450' FWL
Bottom Hole Coordinates: Vertical well w/ minimal deviation, same as above
Ground Elevation (ft): 1,901
Logged Interval (ft): 2,700
Formation: LKC-Arbuckle
Type of Drilling Fluid: Chemical (Andy's Mud)

Region: Kansas
Drilling Completed: 9/11/2019
K.B. Elevation (ft): 1,909
Total Depth (ft): 3,470
To: RTD

Printed by STRIP.LOG from WellSight Systems 1-800-447-1534 www.WellSight.com

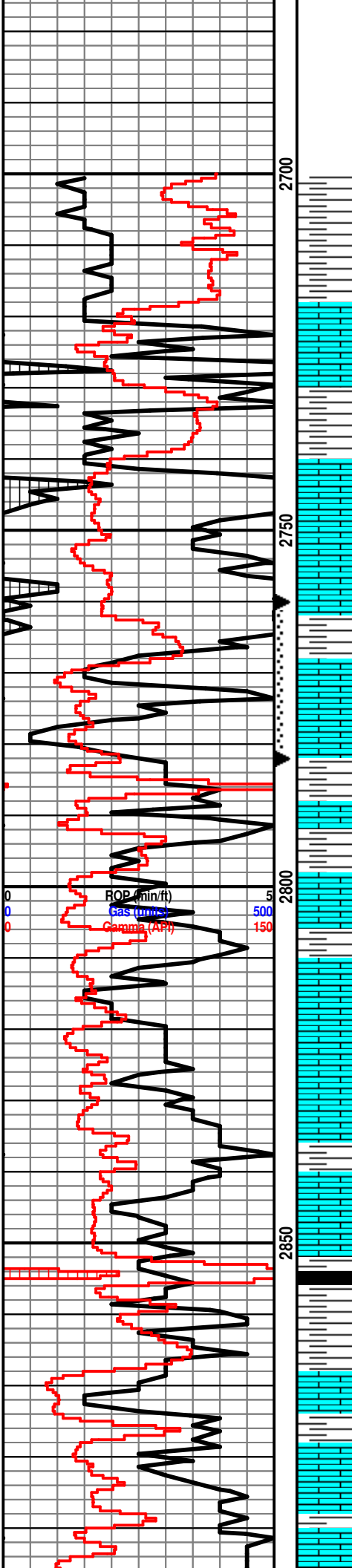
OPERATOR

Company: John O. Farmer, Inc.
Address: 370 W. Wichita Ave.
Russell, KS 67665

Comments

The Maupin #2 well was drilled by Discovery Drilling Rig #2 (Tool Pusher: Terry Wickham).

The location for the Maupin #2 was discovered via 3D seismic survey. Rock samples were gathered and evaluated from 2,700' - 3,470'. Oil shows were encountered in the LKC A,B,C,E,F,G,I,J, Simpson Sand, & Arbuckle. Structurally, the Lansing top was picked 3' low to the comparison well, Maupin #1 (John O. Farmer, Inc). Structure thickened slightly throughout the LKC and the B/KC was picked 5' low. As seismic indicated, the Arbuckle dropped off and was picked 10' low to the comparison well, which allowed for the development of sand just above the Arbuckle. Two straddle tests were conducted over the Simpson Sand and Arbuckle, yielding oil,water, and mud. After evaluation of all oil shows, drill stem test results, & electric logs, the decision was made to set 5 1/2" production casing on the Maupin #2 on 9/11/2019.



Ls: tan-lt gry, fn-sub xln, mostly DNS

Topeka 2741' (-832)

Ls: off wh-tan, fn-sub xln, sl chalky, scat foss, NSFO

Ls: ala

Sh: lt-drk gry

Ls: off wh, fn xln, fair pp porosity, fair oil stn, VSSFO, sl odor, sl chalky

Sh: drk gry-blk, carb

Sh: gry-brn

Ls: off wh-tan, fn xln, scat int xln porosity, scat stn in porosity, NSFO

Ls: tan-gry, fn-sub xln, mostly DNS

Ls: ala

Sh: drk gry-blk

Sh: lt-drk gry

Ls: tan-lt gry, fn-sub xln, mostly DNS

Sh: lt gry-brn

DST #1 2,760-2,782' Topeka 30' zone

30"-30"-60"-60"

IF: weak blow built to 1.6", no blow back on shut in

FF: weak blow built to 6.1", no blow back on shut in

Rec: 10' Heavy Mud Cut Water (50% M, 50% W)

126' Mud Cut Water (20% M, 80% W)

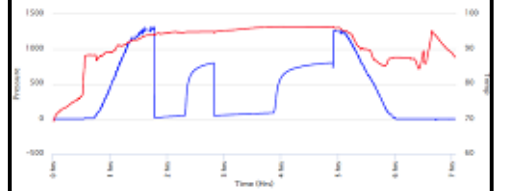
136' Total Fluid Recovery

FP: 16-43, 46-87#

SIP: 799-803#

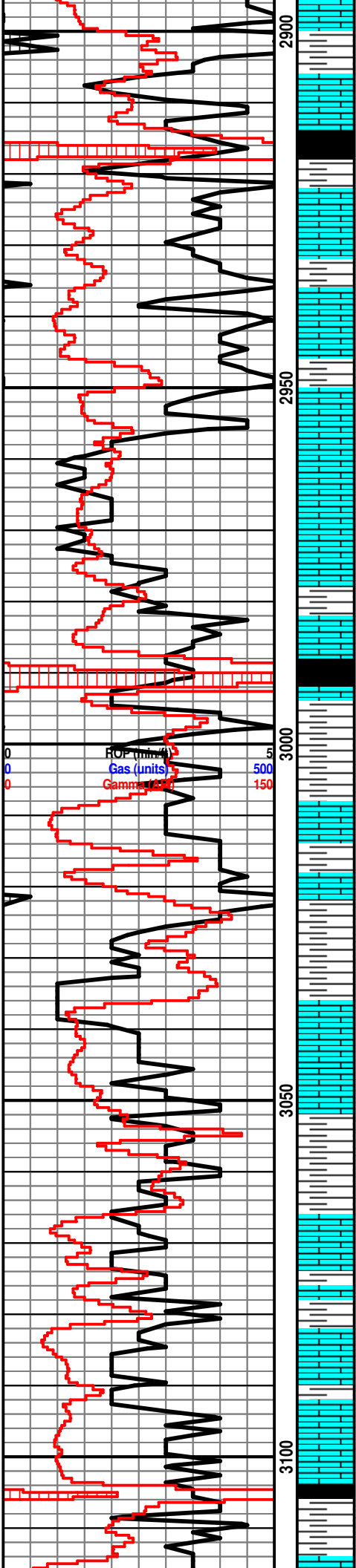
HP: 1,367-1,265#

BHT: 97°



Wt: 8.7

Vis: 54



Ls: tan-gry, fn-sub xln, mostly DNS

Sh: lt-drk gry

Sh: drk gry-blk

Ls: off wh-tan, fn xln, poor int xln porosity, NSFO

Sh: drk gry-brn

Sh: ala

Ls: off wh-tan, fn xln, poor-fair pp porosity, scat stn in porosity, NSFO, scat chert-off wh

Ls: tan-gry-crm, fn-sub xln, mostly DNS, NSFO

Heebner 2991' (-1082)

Sh: blk, carb, fissile

Sh: lt gry-grn, soft

Toronto 3011' (-1102)

Ls: off wh-tan, fn xln, scat int xln porosity, scat foss, poor scat oil stn, NSFO

Sh: lt gry-blk, scat brn

Lansing 3039' (-1130)

Ls: off wh-tan, fn xln, scat foss, scat fair int xln & pp porosity, scat-fair oil stn in porosity, VSSFO, sl odor

Sh: lt-drk gry

Ls: off wh-tan, fn xln, scat ool, fair int vuggy and fair-good ool porosity, fair-good oil sat, SSFO, fair odor

Sh: lt-drk gry

Ls: off wh-tan, fn xln, ool, scat foss, fair ool & scat vuggy porosity, fair-good oil stn, SSFO, sl odor

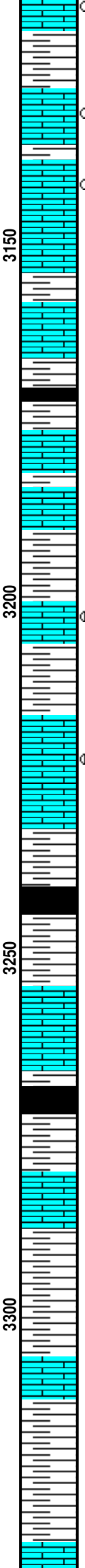
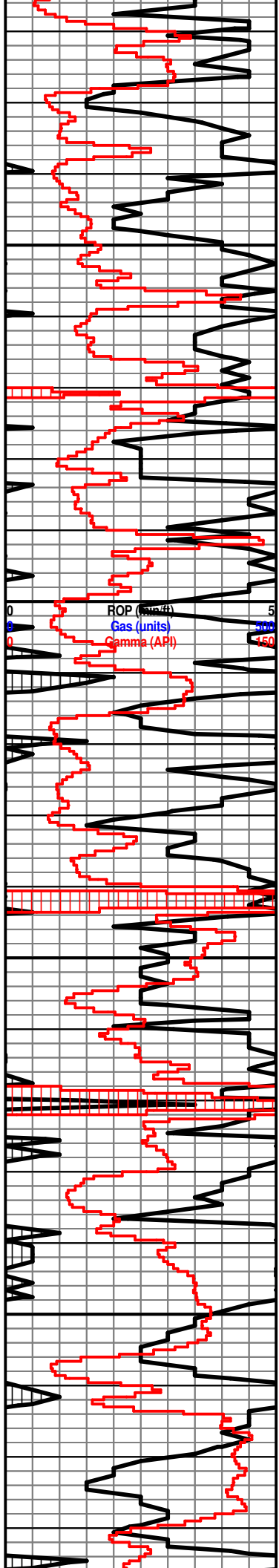
Sh: drk gry

Ls: tan-lt gry, fn xln, poor vuggy porosity, NSFO

Sh: lt-drk gry

Ls: tan-lt gry, fn xln, fair int xln porosity, scat oil

Wt: 8.9
Vis: 48



stn, VSSFO, sl odor

Sh: drk gry

Ls: off wh-tan, fn xln, scat foss, fair vuggy porosity, scat edge stn, VSSFO, sl odor

Sh: lt-drk gry

Ls: off wh-tan, fn xln, scat ool, few rxns w/ fair ooc porosity, poor lt oil stn, scat chert-off wh, VSSFO, sl odor

Ls: tan-gry, fn-sub xln, mostly DNS

Sh: drk gry-blk

Ls: off wh-tan-lt gry, fn xln, spt edge stn, NSFO

Ls: off wh-tan, fn xln, ool, scat foss, poor ool porosity, scat int xln porosity, sl-fair stn, SSFO, fair odor

Sh: lt-drk gry

Ls: off wh-tan, fn-vry fn xln, ool, fair ool porosity, fair-good oil sat, scat SSFO, fair odor

Sh: lt-drk gry

Sh: drk gry-blk

Ls: off wh-tan, fn xln, scat foss, poor int foss porosity, poor pp vuggy porosity, scat drk edge stn, NSFO

Sh: lt-drk gry

Sh: gry-brn

Ls: off wh-tan, fn xln, scat foss, ool, poor ooc porosity, lt oil stn, NSFO, no odor

B/KC 3297' (-1388)

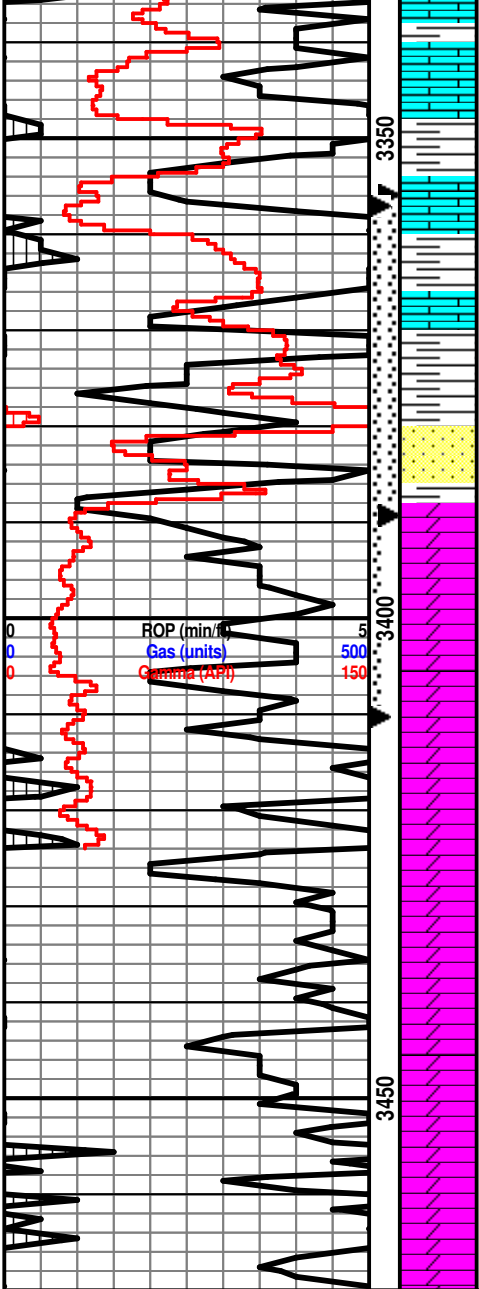
Sh: lt-drk gry

Ls: tan-brn, fn xln, mostly DNS

Sh: gry-brn-grn

Ls: tan-lt brn, fn xln, mostly DNS

Wt: 9.2
Vis: 58



Ls: ala

Sh: lt-drk gry

Ls: off wh-tan, fn xln, scat foss, mostly DNS

Sh: lt-drk gry

Simpson Sand 3386' (-1377)

Ss: qtz, off wh-clr, fn-crs grn, semi ang, friable, fair-good int grn porosity, fair-good oil sat, FSFO, good odor

Arbuckle 3394' (-1485)

Dolo: off wh-tan-lt gry, fn xln, fair-good sucrosic xln porosity, fair-good oil sat, F-GSFO, good odor, scat chert-off wh

Dolo: off wh-tan, fn-md xln, fair sucrosic xln porosity, fair oil sat, SSFO, fair odor, scat chert

Dolo: off wh-tan, fn-md xln, poor-fair int xln porosity, fair-good oil stn w/ sl sat, SSFO, fair odor, scat chert

Dolo: off wh-tan, fn-md xln, poor int xln porosity, sl-fair oil stn, VSSFO, sl odor

Dolo: off wh-tan-lt gry, fn xln, poor int xln porosity, NSFO

Dolo: ala

DST #3 3,356-3,389' Simpsons Sand

15'-30"-15'-30"

IF: BOB in 3 minutes, no blow back on shut in

FF: BOB in 3 minutes, no blow back on shut in

Rec: 504' Oil & Gas Cut Muddy Water (10% O, 15% G, 20% M, 55% W)
252' Slight Mud & Oil Cut Water (4% M, 7% O, 89% W)

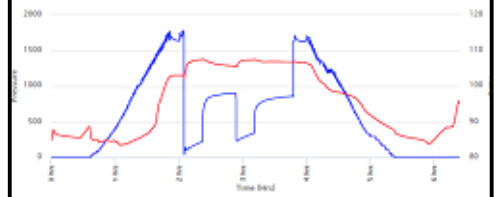
756' Total Fluid Recovery

FP: 39-223, 231-341#

SIP: 903-861#

HP: 1,634-1,634#

BHT: 108°



DST #2 3,357-3,410' Simpsons Sand & Top 22' of Arbuckle

10'-30"-10'-30"

IF: BOB in 1 minute, no blow back on shut in

FF: BOB in 1 minute, no blow back on shut in

Rec: 539' Slight Gas & Oil Cut Watery Mud (3% G, 5% O, 21% W, 71% M) (Chl. 20K)
378' Oil Cut Muddy Water (5% O, 15% M, 80% W)
315' Oil Cut Muddy Water (6% M, 8% O, 86% W)

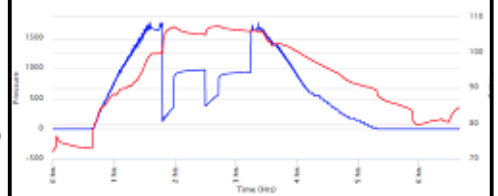
1,232' Total Fluid Recovery

FP: 119-359, 380-568#

SIP: 980-947#

HP: 1,624-1,628#

BHT: 108°



Wt: 9.1

Vis: 61