

Confidentiality Requested:

Yes No

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

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

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

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

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

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

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

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

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

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	BlueRidge Petroleum Corporation
Well Name	SAUVAGE-UFFORD 1-10
Doc ID	1577380

All Electric Logs Run

DIL
CDN
Micro
Sonic
CBL

**CEMENT TREATMENT REPORT**

Customer:	Blue Ridge Petroleum	Well:	Sauvage-Ufford Unit # 1- 10	Ticket:	WP 1372
City, State:	Oakley KS	County:	Decatur KS	Date:	5/11/2021
Field Rep:	Josh Mosier	S-T-R:	10-3-29W	Service:	Surface

Downhole Information

Hole Size:	12.25 in
Hole Depth:	219 ft
Casing Size:	8 5/8 in
Casing Depth:	208.45 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	13.3 bbls

Calculated Slurry - Lead

Blend:	H-325
Weight:	14.8 ppg
Water / Sx:	6.9 gal / sx
Yield:	1.41 ft ³ / sx
Annular Bbls / Ft.:	0.0735 bbs / ft.
Depth:	208.45 ft
Annular Volume:	15.3 bbls
Excess:	
Total Slurry:	37.7 bbls
Total Sacks:	150 sx

Calculated Slurry - Tail

Blend:	
Weight:	ppg
Water / Sx:	gal / sx
Yield:	ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	bbls
Total Sacks:	sx

	TIME	RATE	PSI	BBLs	STAGE TOTAL BBLs	REMARKS
	445P			-	-	GOT TO LOCATION/ RIG WAS PICKING UP FIRST JOINT OF CASING
	450P				-	SAFETY MEETING
	455P				-	RIGGED UP TRUCKS
	730P				-	LANDED CASING
	735P				-	CIRCULATED HOLE
					-	
	745P	3.0	100.0	5.0	5.0	PUMPED H2O AHEAD
	747P	6.0	250.0	37.7	42.7	PUMPED 150 SKS OF H-325 @ 208.45 FT
	753P	4.5	250.0	13.3	56.0	DISPLACED WITH H2O
	800P				56.0	PLUG DOWN WITH 5 BBL TO PIT
	805P				56.0	WASHED UP PUMP TRUCK
	820P					RIGGED DOWN TRUCKS
	840P					OFF LOCATION

	CREW		UNIT	SUMMARY		
Cementer:	Josh		73	Average Rate	Average Pressure	Total Fluid
Pump Operator:	John		208	4.5 bpm	200 psi	56 bbls
Bulk #1:	Kale/ Orlando		194/254			
Bulk #2:						



CEMENT TREATMENT REPORT

Customer:	Blue Ridge Petroleum Corp	Well:	Sauvage-Ufford # 1-10	Ticket:	WP 1404
City, State:		County:	Decatur KS	Date:	5/18/2021
Field Rep:	Fennis Garduno	S-T-R:	10-3S-29W	Service:	Longstring

Downhole Information	
Hole Size:	7.875 in
Hole Depth:	3834 ft
Casing Size:	5 1/2 in
Casing Depth:	3826 ft
Tubing / Liner:	in
Depth:	ft
Tool / Packer:	
Tool Depth:	ft
Displacement:	90.0 bbls

Calculated Slurry - Lead	
Blend:	H-Con
Weight:	11.6 ppg
Water / Sx:	16.8 gal / sx
Yield:	2.77 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0.0 bbls
Excess:	
Total Slurry:	167.8 bbls
Total Sacks:	330 sx

Calculated Slurry - Tail	
Blend:	H_Long
Weight:	15 ppg
Water / Sx:	6.2 gal / sx
Yield:	1.36 ft ³ / sx
Annular Bbls / Ft.:	bbs / ft.
Depth:	ft
Annular Volume:	0 bbls
Excess:	
Total Slurry:	41.0 bbls
Total Sacks:	150 sx

TIME	RATE	PSI	BBLs	STAGE	TOTAL BBLs	REMARKS
2:15 AM			-		-	Journey management meeting
2:30 AM					-	Convoy to location
3:30 AM					-	Arrive on location
3:35 AM					-	Safety meeting
3:45 AM					-	Spot in equipment
4:30 AM					-	Install float equipment turbolizers on Jts 1,3,4,5,6,7,8,12,36,51,65 cement baskets on Jts 12,36,51,65
6:40 AM					-	Rig land casing & circulate. Waiting on relief pump truck due to original pump truck breaking down on way to location
10:30 AM					-	Relief pump truck arrives on location, spot in pump & rig up equipment
11:15 AM	5.5	450.0	24.0		24.0	Pump mud flush
11:20 AM	5.5	450.0	5.0		29.0	pump water spacer
11:25 AM	2.0	8.0	7.5		36.5	Plug rat hole with 30 sx H-Plug cement
11:30 AM	6.0	600.0	160.0			Mix 330 sx H-Con @ 11.6 ppg
12:07 PM	4.0	250.0	36.3			Mix 150 sx H-Long blend @ 15 ppg
12:23 PM						S/D wash pumps and lines
12:25 PM	4.0	200.0				Drop plug start fresh water displacement, lost circulation @ beginning of displacement
12:38 PM	4.0	500.0	55.0			Saw lift pressure
12:45 PM	3.0	1,200.0	80.0			Slowed to land plug
12:50 PM	3.0	1,600.0	90.0			Land plug @ 1600 psi
12:55 PM						Check floats / floats held got .75 bbls back when bled off
						Had circulation through mud flush, water spacer, both lead and tail, lost circulation at start of displacement but cellar stayed full of fluid

CREW			UNIT	SUMMARY		
Cementer:	Fennis		78	Average Rate	Average Pressure	Total Fluid
Pump Operator:	Mike		230	4.1 bpm	584 psi	458 bbls
Bulk #1:	Kale		194			
Bulk #2:	Orlando		180			



**Company: BlueRidge
Petroleum Corporation
Lease: Sauvage-Ufford #1-10**

SEC: 10 TWN: 3S RNG: 29W
County: DECATUR
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 108
Elevation: 2592 GL
Field Name: Pollnow SE
Pool: Infield
Job Number: 480
API #: 15-039-21272

Operation:
Uploading recovery &
pressures

DATE
May
15
2021

DST #1 Formation: LKC "A" Test Interval: 3594 - 3612' Total Depth: 3612'
Time On: 11:34 05/15 Time Off: 07:44 01/26
Time On Bottom: 13:41 05/15 Time Off Bottom: 15:11 05/15

Electronic Volume
Estimate:
25'

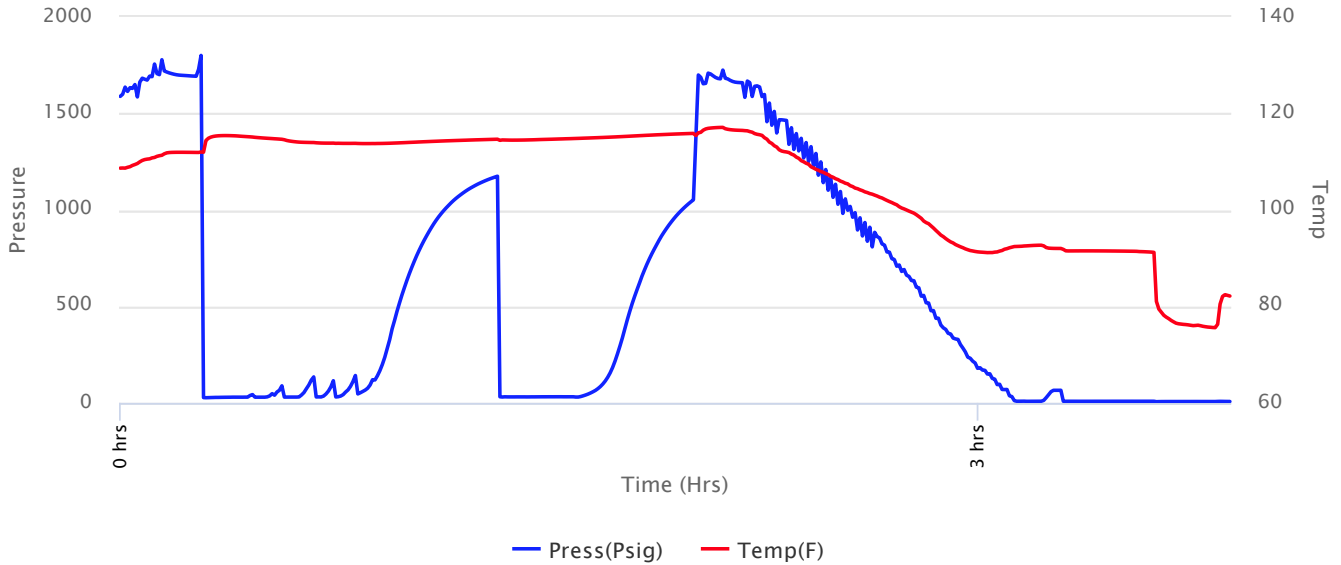
1st Open
Minutes: 30
Current Reading:
.9" at 30 min
Max Reading: .9"

1st Close
Minutes: 30
Current Reading:
0" at 30 min
Max Reading: 0"

2nd Open
Minutes: 15
Current Reading:
0" at 15 min
Max Reading: 0"

2nd Close
Minutes: 15
Current Reading:
0" at 15 min
Max Reading: 0"

Inside Recorder





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Time On: 11:34 05/15 Time Off: 07:44 01/26
Time On Bottom: 13:41 05/15 Time Off Bottom: 15:11 05/15

Recovered

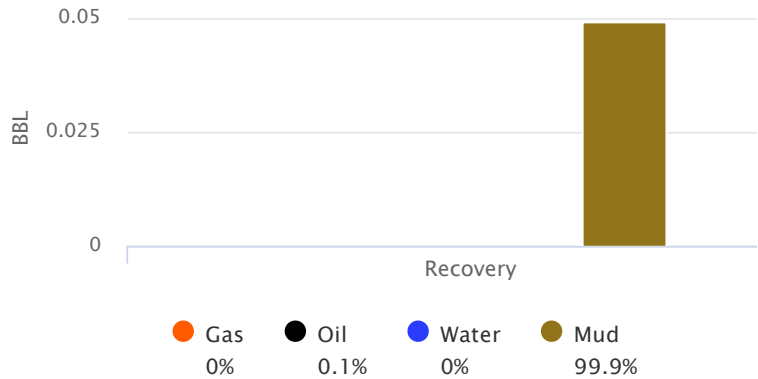
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
10	0.0492	M (trace O)	0	.1	0	99.9

Total Recovered: 10 ft
Total Barrels Recovered: 0.0492

**Reversed Out
NO**

Initial Hydrostatic Pressure	1729	PSI
Initial Flow	28 to 53	PSI
Initial Closed in Pressure	1175	PSI
Final Flow Pressure	32 to 31	PSI
Final Closed in Pressure	1032	PSI
Final Hydrostatic Pressure	1704	PSI
Temperature	116	°F
Pressure Change Initial Close / Final Close	12.2	%

Recovery at a glance



GIP cubic foot volume: 0



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DATE
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DST #1 Formation: LKC "A" Test Interval: 3594 - Total Depth: 3612'
3612'
Time On: 11:34 05/15 Time Off: 07:44 01/26
Time On Bottom: 13:41 05/15 Time Off Bottom: 15:11 05/15

BUCKET MEASUREMENT:

1st Open: 3/4" Blow built to 1" over 30 min.
1st Close: No Return Blow over 30 min.
2nd Open: No Blow over 15 min.
2nd Close: No Return Blow over 15 min.

REMARKS:

Chased tool approx 5' to bottom.

Tool Sample: 0% Gas .1% Oil 0% Water 99.9% Mud



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Pool: Infield
Job Number: 480
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DST #1 Formation: LKC "A" Test Interval: 3594 - 3612' Total Depth: 3612'
Time On: 11:34 05/15 Time Off: 07:44 01/26
Time On Bottom: 13:41 05/15 Time Off Bottom: 15:11 05/15

Down Hole Makeup

Heads Up: 9.9499999999998 FT	Packer 1: 3589 FT
Drill Pipe: 3455.4 FT <i>ID-3 1/2</i>	Packer 2: 3594 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3581 FT
Collars: 123.39 FT <i>ID-2 1/4</i>	Bottom Recorder: 3596 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 18	Surface Choke: 1"
<u>Anchor Makeup</u>	Bottom Choke: 5/8"
Packer Sub: 1 FT	
Perforations: (top): 0 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 17 FT <i>4 1/2-FH</i>	



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Time On: 11:34 05/15 Time Off: 07:44 01/26
 Time On Bottom: 13:41 05/15 Time Off Bottom: 15:11 05/15

Mud Properties

Mud Type: Chem.

Weight: 9.0

Viscosity: 61

Filtrate: 8.0

Chlorides: 2200 ppm



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Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



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Field Name: Pollnow SE
Pool: Infield
Job Number: 480
API #: 15-039-21272

Operation:
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pressures

DATE
May
16
2021

DST #2 Formation: LKC "B-C" Test Interval: 3605 - 3637' Total Depth: 3637'
Time On: 00:55 05/16 Time Off: 07:17 05/16
Time On Bottom: 03:00 05/16 Time Off Bottom: 05:05 05/16

Electronic Volume
Estimate:
856'

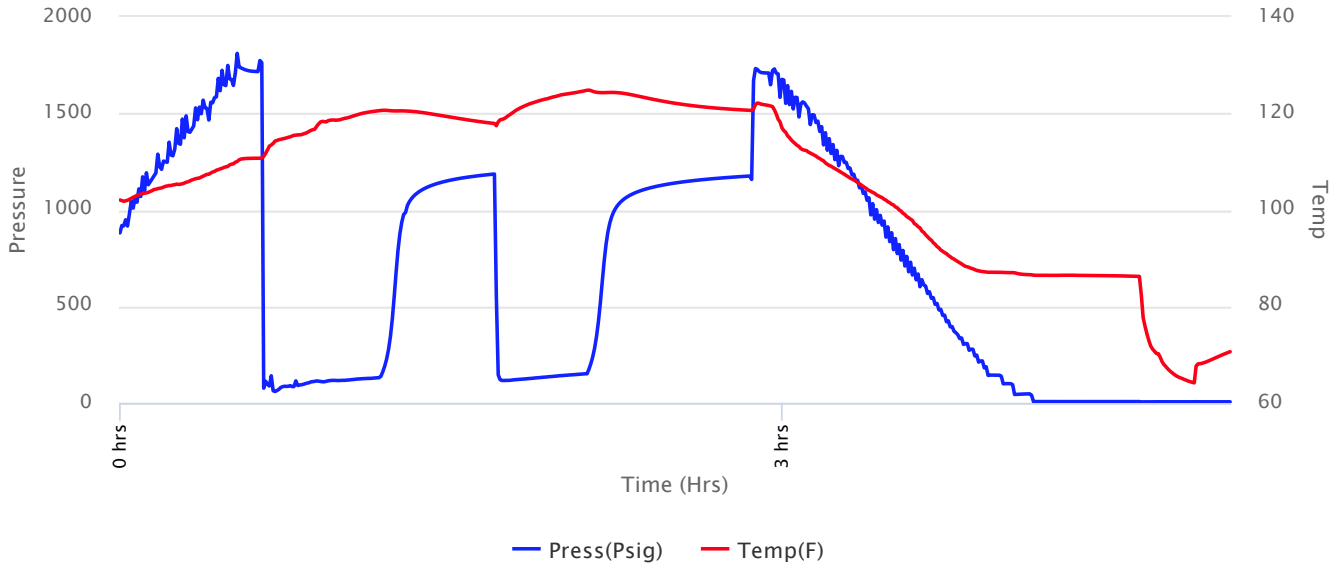
1st Open
Minutes: 30
Current Reading:
45.3" at 30 min
Max Reading: 45.3"

1st Close
Minutes: 30
Current Reading:
8.3" at 30 min
Max Reading: 8.3"

2nd Open
Minutes: 20
Current Reading:
24.9" at 20 min
Max Reading: 24.9"

2nd Close
Minutes: 45
Current Reading:
9.1" at 45 min
Max Reading: 9.1"

Inside Recorder





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County: DECATUR
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 108
Elevation: 2592 GL
Field Name: Pollnow SE
Pool: Infield
Job Number: 480
API #: 15-039-21272

Operation:
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pressures

DATE
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16
2021

DST #2 **Formation: LKC "B-C"** **Test Interval: 3605 - 3637'** **Total Depth: 3637'**
Time On: 00:55 05/16 Time Off: 07:17 05/16
Time On Bottom: 03:00 05/16 Time Off Bottom: 05:05 05/16

Recovered

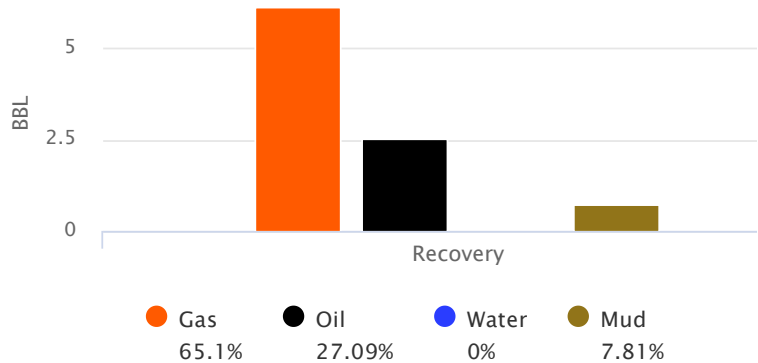
Foot	BBLs	Description of Fluid	Gas %	Oil %	Water %	Mud %
378	5.37894	G	100	0	0	0
118	1.67914	GCO	20	80	0	0
126	1.7614191	GCHMCO	20	50	0	30
120	0.5904	SLGCHMCO	10	55	0	35

Total Recovered: 742 ft
Total Barrels Recovered: 9.4098991

**Reversed Out
NO**

Initial Hydrostatic Pressure	1717	PSI
Initial Flow	64 to 129	PSI
Initial Closed in Pressure	1183	PSI
Final Flow Pressure	116 to 150	PSI
Final Closed in Pressure	1174	PSI
Final Hydrostatic Pressure	1732	PSI
Temperature	125	°F
 Pressure Change Initial Close / Final Close	 0.7	 %

Recovery at a glance



GIP cubic foot volume: 34.39494



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C" Test Interval: 3605 - Total Depth: 3637'**
Time On: 00:55 05/16 Time Off: 07:17 05/16
Time On Bottom: 03:00 05/16 Time Off Bottom: 05:05 05/16

BUCKET MEASUREMENT:

1st Open: B.o.B. in 8 min 15 sec.
1st Close: Weak surfac Return started at 4 min. Built to over 30 min.
2nd Open: BoB in 8 min 25 sec
2nd Close: Return Blow built to 9 1/8"

REMARKS:

Tool Sample: 0% Gas 100% Oil 0% Water 0% Mud

Gravity: 32 @ 60 °F



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3637'** **Total Depth: 3637'**

Time On: 00:55 05/16 Time Off: 07:17 05/16
Time On Bottom: 03:00 05/16 Time Off Bottom: 05:05 05/16

Down Hole Makeup

Heads Up: 30.3 FT	Packer 1: 3600 FT
Drill Pipe: 3486.75 FT <i>ID-3 1/2</i>	Packer 2: 3605 FT
Weight Pipe: 0 FT <i>ID-2 7/8</i>	Top Recorder: 3592 FT
Collars: 123.39 FT <i>ID-2 1/4</i>	Bottom Recorder: 1 FT
Test Tool: 26.16 FT <i>ID-3 1/2-FH</i>	Well Bore Size: 7 7/8
Total Anchor: 32	Surface Choke: 1"
Anchor Makeup	
Packer Sub: 1 FT	Bottom Choke: 5/8"
Perforations: (top): 28 FT <i>4 1/2-FH</i>	
Change Over: 0 FT	
Drill Pipe: (in anchor): 0 FT <i>ID-3 1/2</i>	
Change Over: 0 FT	
Perforations: (below): 3 FT <i>4 1/2-FH</i>	



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Time On Bottom: 03:00 05/16 Time Off Bottom: 05:05 05/16

Mud Properties

Mud Type: Chem. **Weight:** 9.0 **Viscosity:** 61 **Filtrate:** 8.0 **Chlorides:** 2200 ppm



**Company: BlueRidge
Petroleum Corporation
Lease: Sauvage-Ufford #1-10**

SEC: 10 TWN: 3S RNG: 29W
County: DECATUR
State: Kansas
Drilling Contractor: Murfin Drilling
Company, Inc - Rig 108
Elevation: 2592 GL
Field Name: Pollnow SE
Pool: Infield
Job Number: 480
API #: 15-039-21272

Operation:
Uploading recovery &
pressures

DATE
May
16
2021

**DST #2 Formation: LKC "B-
C" Test Interval: 3605 - Total Depth: 3637'**
Time On: 00:55 05/16 Time Off: 07:17 05/16
Time On Bottom: 03:00 05/16 Time Off Bottom: 05:05 05/16

Gas Volume Report

1st Open			
Time	Orifice	PSI	MCF/D

2nd Open			
Time	Orifice	PSI	MCF/D



Mudgrove

PETROLEUM CORPORATION
Clafin, Kansas

Scale 1:240 Imperial

Well Name: Sauvage-Ufford #1-10
 Surface Location: 10-3S-29W (SE- SE-SE-NE)
 Bottom Location:
 API: 15-039-21272
 License Number: 31930
 Spud Date: 5/11/2021 Time: 3:34 PM
 Region: Decatur
 Drilling Completed: 5/19/2021 Time: 12:00 AM
 Surface Coordinates:
 Bottom Hole Coordinates:
 Ground Elevation: 2592.00ft
 K.B. Elevation: 2597.00ft
 Logged Interval: 3300.00ft To: 3835.00ft
 Total Depth: 3835.00ft
 Formation: Lansing
 Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: BLUERIDGE PETROLEUM, INC.
 Address: PO box 30545
 Edmond OK, 73003

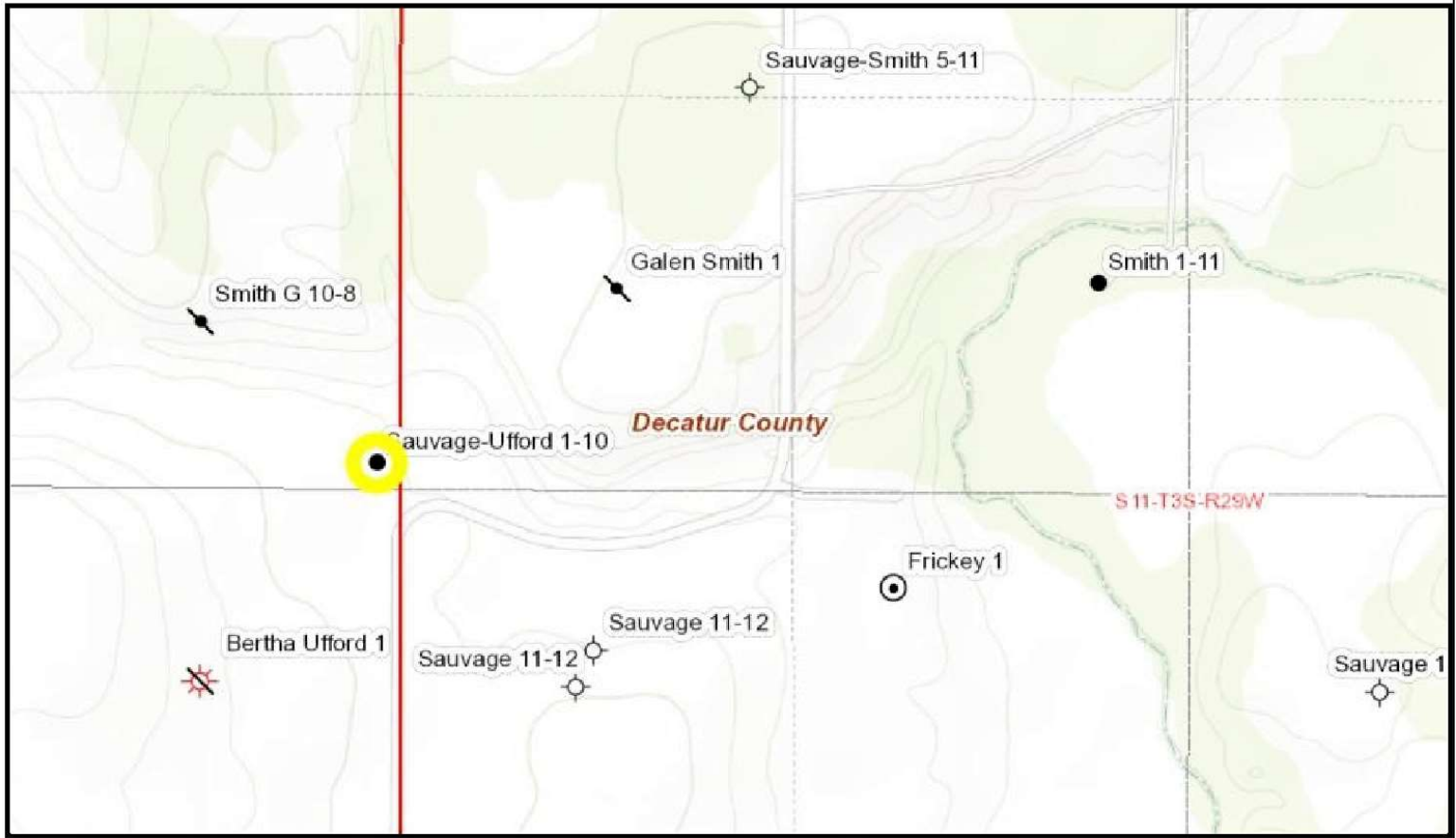
Contact Geologist: Jonathan Allan
 Contact Phone Nbr: 580-242-3732
 Well Name: Sauvage-Ufford #1-10
 Location: 10-3S-29W (SE- SE-SE-NE)
 API: 15-039-21272
 Pool: Field: Pollnow Southeast
 State: Kansas Country: USA

CONTRACTOR

Contractor: Murfin Drilling Co., inc.
 Rig #: 108
 Rig Type: mud rotary
 Spud Date: 5/11/2021 Time: 3:34 PM
 TD Date: 5/19/2021 Time: 12:00 AM
 Rig Release: Time:

BLUERIDGE PETROLEUM CORP.				
SAUVAGE-UFFORD #1-10				
10-3S-29W				
KB	2597	GL	2592	
	LOG		SAMPLE	
FORMATION	DEPTH	DATUM	DEPTH 2	DATUM3
ANHYDRITE TOP	2305	292	2305	292
ANHYDRITE BASE	2336	261	2339	258
HEEBNER SHALE	3563	-966	3567	-970
TORONTO	3596	-999	3594	-997
LANSING A	3605	-1008	3601	-1004
BASE KC.	3801	-1204	3805	-1208
RTD	3835	-1238	3835	-1238
LTD	3834	-1237	3834	-1237

Blueridge Petroleum, Corp. Sauvage-Ufford 1-10



LOGGED BY



Company: Musgrove Petroleum
 Address: 212 Main St.
 Clafin, Ks 67525

Phone Nbr: 620-639-1948
 Logged By: Geologist

Name: Wyatt Urban

ELEVATIONS

K.B. Elevation: 2597.00ft
 K.B. to Ground: 5.00ft

Ground Elevation: 2592.00ft

DRILLING FLUID SUMMARY

Type	Date	From Depth	To Depth
	12/5/2007	0.00ft	0.00ft

CASING SUMMARY

	Surface	Intermediate	Main		
Bit Size					
Hole Size					
	Size	Set At	Type	# of Joints	Drilled Out At
Surf Casing	8 5/8" in	219 ft			
Int Casing					
Prod. Casing	5 1/2" in	2826 ft			

CASING SEQUENCE

Type	Hole Size	Casing Size	At
	0.00 in	0.00	0.00 ft

DRILLSTEM TESTS

No	Interval	Formation
1	3594-3612	LANSING A
2	3605-3637	Lansing B-C
3	3640-3662	Lansing DE

OPEN HOLE LOGS

Logging Company: ELI LOGGING
 Logging Engineer: JEFF
 Truck #: 3
 Logging Date: 4/10/2018
 # Logs Run: 3
 Time Spent: 3.5
 # Logs Run Successful: 3

LOGS RUN

Tool	Logged Interval	Logged Interval	Hours	Remarks	Run #
MICRO	3300.00ft	3835.00ft	1.00		1
DIL / Sonic	0.00ft	3835.00ft	1.50		1
DCN/DLC	3300.00ft	3835.00ft	1.00		1

LOGGING OPERATION SUMMARY

Date	From	To	Description Of Operation
4/6/2018	3300.00ft	3835.00ft	

TOTAL DEPTH

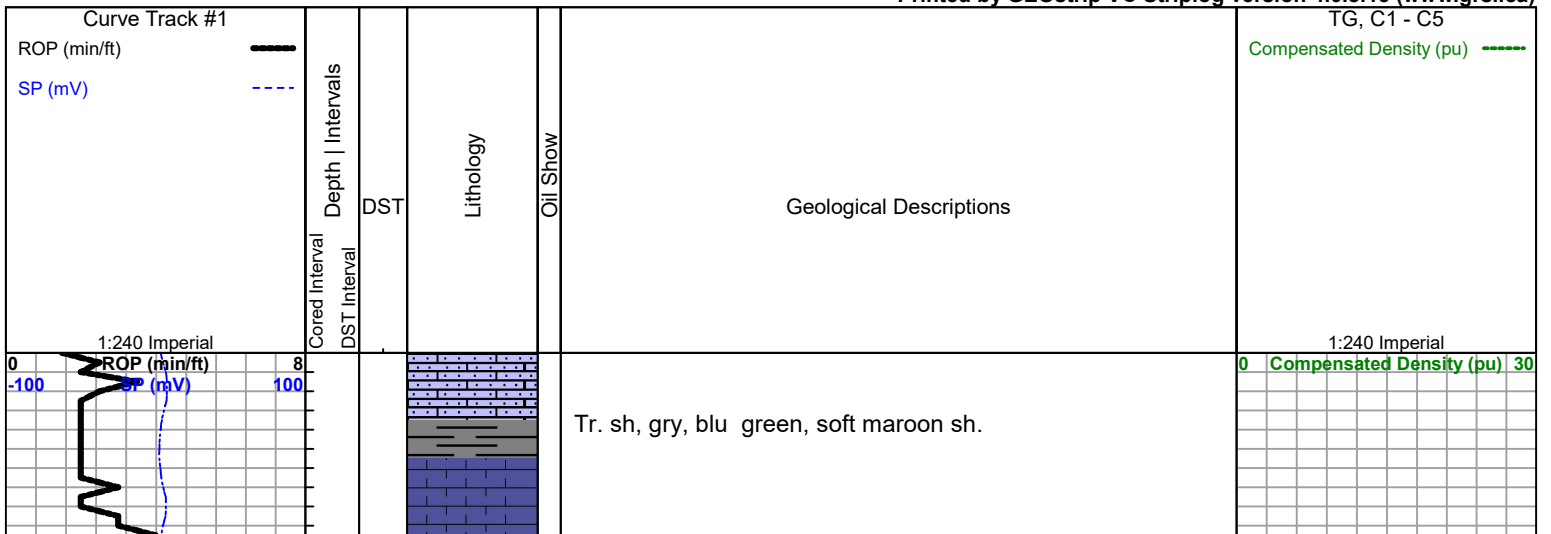
Measurement Type:	Measurement Depth:	TVD:
RTD	3835.00	3835.00
LTD	3836.00	3836.00

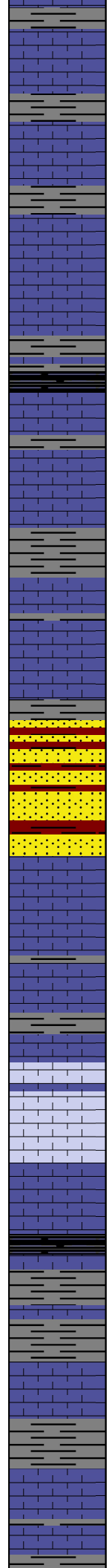
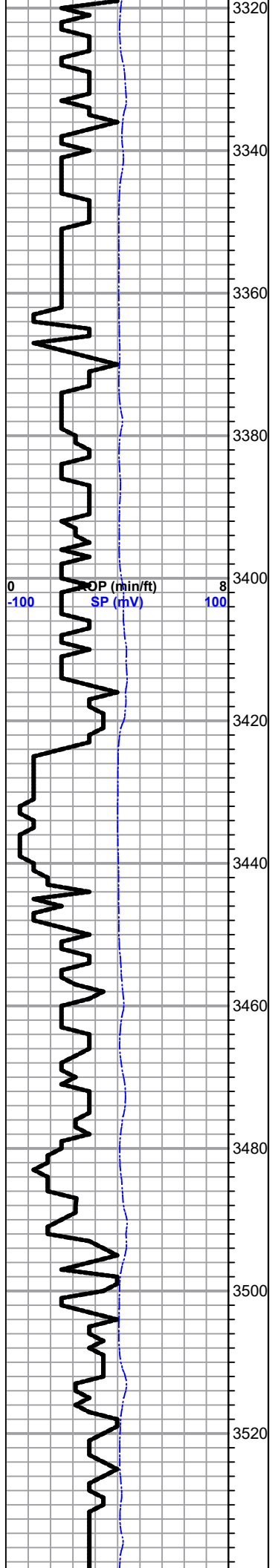
ROCK TYPES

	sdymst		Lmst fw7>		Carbon Sh		Shcol
	Lmst fw<7		shale, gry		shale, red		Ss

OTHER SYMBOLS

- Oil Show**
- Good Show
 - Fair Show
 - Poor Show
 - Spotted or Trace
 - Questionable Stn
 - D Dead Oil Stn
 - Fluorescence
 - * Gas
- DST**
- -
 -
 -





LS, tan, buff., chalky, poor porosity,

LS, tan, ,brn, gran, fair p.p. / scattered porosity, tr. sdy, maroon, brick red sh.

LS, tan, brn, foss, good oom vuggy por., no shwos

LS, ool, poor porosity, dense, no shows

Sh, maroon, gry, greenish

LS, white, tan, ool, poor - fair vuggy porosity, nsfo , no odor

Sh, gry , maroon,

Topeka 3401.0 (-804.0)

○ LS, white, ool, brn discoloration/ stain, nsfo, no odor

Sd. white, vfg. rounded, well sorted, friable, no shows.

Sd. a/a, tr. maroon, brick red shales.

LS, white, foss, poor vis. p.p. por., no shows

Tr. gry, maroon, sh

LS, gry, dense, few foss, gran./ sdy, no shows, no odor, tr. opaque white, chert

Tr. black carb sh

Sh, maroon,. gry , sitly

0 Compensated Density (pu) 30

DST # 1 3594-3612
30-30-30-30

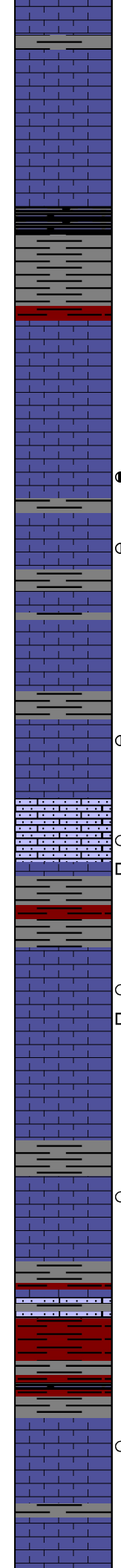
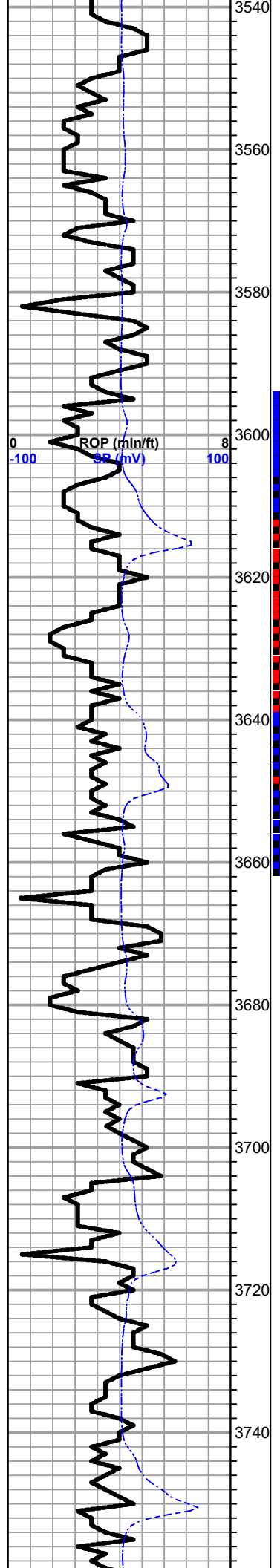
1st Open: 1" blow
2nd open : dead /
Flushed tool

Recovery
10' mud

Pressures:
ISIP 1175 psi
FSIP 1032 psi
IFP 28-53 psi
FFP 32-31 psi
HSH 1729-1704

DST # 2 3605-3637
30-30-45-45

1st Open: BOB 8 mins



LS, white, few foss, + white chalk

LS, white, foss, dens, poor p.p. porosity

Heebner 3567.0 (-970.0)

Sh. black carb

Slug aqua green gry sh.

Toronto 3594.0 (-997.0)

LS, white, ool/ foss, poor p.p. poro. tr. brn dead/ flakey stain, no odor

Lansing 3601.0 (-1004.0)

● LS. tan, white, few vuggy p.p. por, lt. brn stain, dk. spty sfo, faint odor

○ LS, crm, tan, fxl, fair p.p. por., lt. golden brn --> dk brn spty stain, sfo, sl. chalky, tr. pyrite, ft. odor

LS, white, rexld, heavily fractured, black flakey dead oil, no odor

Tr. gry / maroon sh

○ LS, white, oom, good vuggy por, sl. chalky, dk brn stain, sfo, faint odor.

○ LS, ool/ foss, scattered vuggy por., dk. brn --> blk spty stain & dk brn spty sfo, ???odor + lg. pyrite incl. on few.

Slug maroon sh.

○ LS, white, cream, fxl. tr. p.p. por, Tr. black spty stain. blk flakey (dead in app), no odor.

LS, white, fxl, dense, poor por. few p.p --> vuggy por. y, no shows

Sh, gry, maroon, / brick red

○ LS, white, tan, mottled, fxl, poor vis. p.p. por. + re-xlyz in pts, heavily fractured poor vis. porosity, Lt brn spty stain, golden brn, sfo, weak / fair odor Tr. white chalk,

LS, white, crm, fxl, dense, few vuggy in part, no shows

Slug maroon, blk gry sh.

○ LS, white, crm, fxl, dense, few p.p. - vuggy por., tr. blk stain, nsfo, no odor

Sh, maroon, black carb.

1st Open: BOB 0 mins. 15 sec.
1st Close: Weak Surface blow, built to 30" return

2nd Open: BOB 8 mins. 25 sec.
2nd close: Return blow build 9 1/8"

Recovery:
378' GIP
118' GCO
(20%G, 80%O)
126' GCHMCO
(20%G, 50%O, 30%M)

120' SLGCHMCO
(10%G, 55% O, 35%M)

Pressures:
ISIP 1183 psi
FSIP 1174 psi
IFP 64-129 psi
FFP 116-150psi
HSH 1717-1732 psi

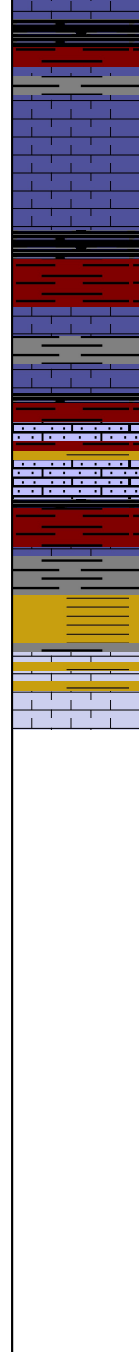
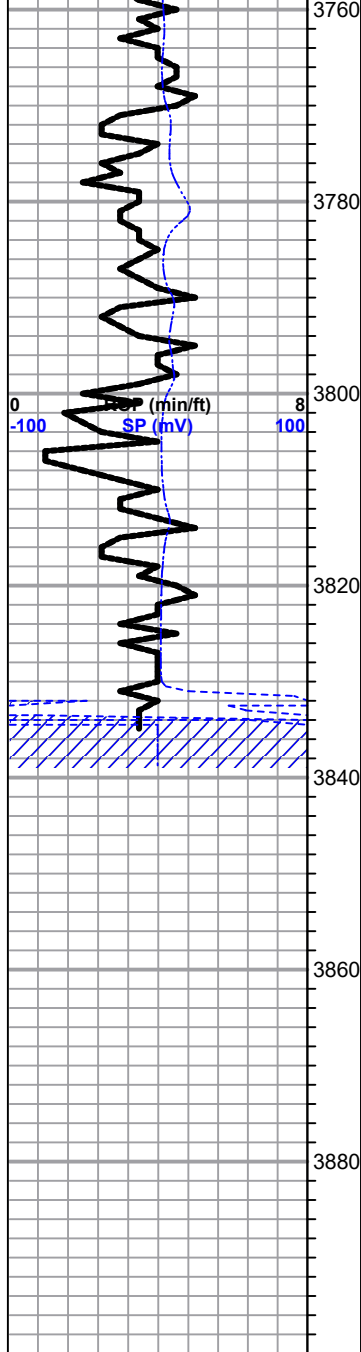
DST #3 3640-3662
30-30-30-30

1st Open: Weak Surface blow

2nd Open; weak Surface blow

Recovery:
20' Mud with trace of oil

Pressures:
ISIP 18 psi
FSIP 34 psi
IFP 17-17 psi
FFP 16-29 psi
HSH 1740-1730 psi



Slug dk blk carb sh

LS, white, crm, dense, poor scatt. p.p. porosotiy, tr. blk stain, flakey dead sfo, no odor

LS, a/a/ dense, no shows + Lg. pyrite cluster

BKC 3805.0 (-1208.0)

Abd. pyrite in samples

Sh, maroon, red brick red, gry

Sh, gry, maroon, purp., (few dolomitic)/ sdy, no shows,

LS, tan, micro ool, fair vis. por., no shows, no odor

RTD 3835.0 (-1238.0)

LTD 3836.0 (-1236.0)

0 Compensated Density (pu) 30