

Confidentiality Requested:

☐ Yes ☒ NoKANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed
Form must be Signed
All blanks must be FilledWELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 6170

Name: Globe Operating, Inc.

Address 1: PO BOX 12

Address 2:

City: GREAT BEND State: KS Zip: 67530 + 0012

Contact Person: Richard Stalcup

Phone: (620) 792-7607

CONTRACTOR: License # 31548

Name: Discovery Drilling

Wellsite Geologist: Chad Counts

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 #:

10/05/2020 10/11/2020 10/12/2020

Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No.: 15-185-24072-00-00

Spot Description:

NE - NW - SE - NE Sec. 11 Twp. 22 S. R. 14 ☐ East ☒ West1640 Feet from ☒ North / ☐ South Line of Section960 Feet from ☒ East / ☐ West Line of Section

Footages Calculated from Nearest Outside Section Corner:

☒ NE ☐ NW ☐ SE ☐ SW

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

Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84

County: Stafford

Lease Name: WILLIAMS Well #: 5

Field Name: Smallwood

Producing Formation: None

Elevation: Ground: 1926 Kelly Bushing: 1934

Total Vertical Depth: 3835 Plug Back Total Depth:

Amount of Surface Pipe Set and Cemented at: 358 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: 49000 ppm Fluid volume: 480 bbls

Dewatering method used: Hauled to Disposal

Location of fluid disposal if hauled offsite:

Operator Name: Bob's Oil Service, Inc.

Lease Name: Siefkes SWD License #: 33779

Quarter NW Sec. 13 Twp. 22 S. R. 12 ☐ East ☒ West

County: Stafford Permit #: D-22,209

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 DistributionALT ☒ I ☐ II ☐ III Approved by: Karen Ritter Date: 11/04/2020

Operator Name: Globe Operating, Inc. Lease Name: WILLIAMS Well #: 5
 Sec. 11 Twp. 22 S. R. 14 ☐ East ☒ West County: Stafford

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 ☒ Yes ☐ No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey ☐ Yes ☒ No Cores Taken ☐ Yes ☒ No Electric Log Run ☒ Yes ☐ No Geologist Report / Mud Logs ☒ Yes ☐ No List All E. Logs Run: Mud Log	☐ Log Formation (Top), Depth and Datum ☐ Sample Name Attached Top Attached Datum Attached
--	---

CASING RECORD ☒ New ☐ 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
Surface	12.25	8.625	23	358	Hi-Lite & 60/40 POZ	360	2% gel, 3% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate				
☐ Protect Casing	-			
☐ Plug Back TD				
☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: ☐ Vented ☐ Sold ☐ Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: ☐ Open Hole ☐ Perf. ☐ Dually Comp. ☐ 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	Globe Operating, Inc.
Well Name	WILLIAMS 5
Doc ID	1535078

Tops

Name	Top	Datum
Anhydrite Top	810	
Anhydrite Base	834	
Heebner Shale	3285	3286
Toronto	3306	3306
Brown Lime	3409	3411
Iola Limestone (H)	3543	3543
Stark	3594	595
BKC	3640	3642
Viola	3676	3677
Simpson Shale	3715	3718
Arbuckle	3763	3767

Form	ACO1 - Well Completion
Operator	Globe Operating, Inc.
Well Name	WILLIAMS 5
Doc ID	1535078

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	358	Hi-Lite & 60/40 POZ	360	2% gel, 3% CC



CEMENT TREATMENT REPORT

Customer:	GLOBE OPERATING INC	Well:	WILLIAM 5	Ticket:	ICT4226
City, State:	SEWARD KS	County:	STAFFORD KS	Date:	10/5/2020
Field Rep:	RICHARD STALCUP	S-T-R:	2-22S-14W	Service:	SURFACE

Downhole Information		Calculated Slurry - Lead		Calculated Slurry - Tail	
Hole Size:	12.25 in	Blend:	H-LITE	Blend:	60/40/2 POZMIX
Hole Depth:	ft	Weight:	12.8 ppg	Weight:	14.8 ppg
Casing Size:	8 5/8 in	Water / Sx:	9.8 gal / sx	Water / Sx:	1.2 gal / sx
Casing Depth:	358 ft	Yield:	1.84 ft ³ / sx	Yield:	5.18 ft ³ / sx
Tubing / Liner:	in	Annular Bbls / Ft.:	bbs / ft.	Annular Bbls / Ft.:	bbs / ft.
Depth:	ft	Depth:	ft	Depth:	ft
Tool / Packer:		Annular Volume:	0.0 bbls	Annular Volume:	0 bbls
Tool Depth:	ft	Excess:		Excess:	
Displacement:	21.5 bbls	Total Slurry:	57.0 bbls	Total Slurry:	27.0 bbls
		Total Sacks:	175 sx	Total Sacks:	125 sx

TIME	RATE	PSI	STAGE BBLs	TOTAL BBLs	REMARKS
5:05 PM			-	-	ON LOCATION, SAFETY MEETING
5:55 PM				-	RUN 8 5/8 CASING
7:15 PM				-	CASING ON BOTTOM
7:20 PM				-	HOOK TO CASING, BREAK CIRC WITH RIG
7:52 PM	4.0	100.0	57.0	57.0	MIX 175 SKS H-LITE, add 200LBS COTTONSEED HULLS
8:08 PM	4.0	100.0	27.0	84.0	MIX 125 SKS 60/40/2 POZMIX
8:20 PM	3.0	100.0		84.0	START DISPLACEMENT
8:28 PM		100.0	21.5	105.5	PLUG DOWN, SHUT IN WELL
					CEMENT TO CELLAR
10:00 PM				-	CEMENT FELL APPROXIMATLY 12 FEET, SENT BULK TRUCK FOR TOP OFF CEMENT
				-	
12:58 PM	1.0	25.0	11.0	11.0	MIX 60 SKS CLASS A 2% CALCIUM CHLORIDE
1:03 AM				11.0	CEMENT TO SURFACE
				11.0	
				11.0	
				11.0	
				11.0	
				11.0	
				11.0	
				11.0	
				11.0	
				11.0	
				11.0	JOB COMPLETE, THANK YOU!
				11.0	MIKE MATTAL
				11.0	MIKE& E.J.
				11.0	
				11.0	

CREW		UNIT	SUMMARY		
Cement:	MATTAL	912	Average Rate	Average Pressure	Total Fluid
Pump Operator:	MCGRRAW	526/521	3.0 bpm	85 psi	117 bbls
Bulk #1:	MCGRRAW	181/532			
Bulk #2:					



**Discovery
Drilling**

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

DRILLER'S LOG

Operator: Globe Operating, Inc. Lic# 6170 Contractor: Discovery Drilling Co., Inc. LIC#31548

P.O. Box 12

PO Box 763

Great Bend, KS 67530 + 0012

Hays, KS 67601

Lease: Williams # 5

Location: 1640 FNL - 960 FEL

NE/NW/SE/NE

Section 11/ 22S/ 14W

Stafford County, KS

Loggers Total Depth: 3833'

API#15- 185-24,072-00-00

Rotary Total Depth: 3835'

Elevation: 1926 GL - 1934 KB

Commenced: 10/5/2020

Completed: 10/12/2020

Casing: 8 5/8" @ 358'W/360sks

Status: D & A

KCC Contact: Heath Walsh

Plugging Info: (1st Plug @ 3768'W/50sks)(2nd Plug @ 870'W/50sks)

(3rd Plug @ 400'W/50sks)(4th Plug @ 60'W/20sks)

(30sks In Rat Hole)(20sks In Mouse Hole)(Total 220sks

60/40Poz 4%Gel-1/4#FS/sk-By Hurricane Services, Inc)

(Completed @ 3:30PM 10/12/2020)

DEPTHS & FORMATIONS (All from KB)

Surface, Sand & Shale	<u>0'</u>	Shale	<u>834'</u>
Dakota Sand	<u>265'</u>	Shale & Lime	<u>1643'</u>
Shale	<u>289'</u>	Shale	<u>1976'</u>
Cedar Hill Sand	<u>515'</u>	Shale & Lime	<u>2568'</u>
Red Bed Shale	<u>628'</u>	Lime & Shale	<u>3452'</u>
Anhydrite	<u>810'</u>	RTD	<u>3835'</u>
Base Anhydrite	<u>834'</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.

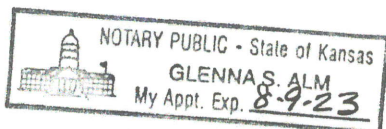
Thomas H. Alm

Subscribed and sworn to before me on 10-15-2020

My Commission expires: 8-9-23

(Place stamp or seal below)

Glenn S. Alm
Notary Public





DRILL STEM TEST REPORT

Prepared For: **Globe Operating Incc.**

P.O. Box 12
Great Bend , Kansas 67530

ATTN: Chad Counts

Williams #5

11-22s-14w Stafford

Start Date: 2020.10.12 @ 00:43:00

End Date: 2020.10.12 @ 08:08:00

Job Ticket #: 01458 DST #: 4

Eagle Testers
1309 Patton Road Great Bend, Kansas 67530
620-791-7394

Printed: 2020.10.13 @ 08:53:29



DRILL STEM TEST REPORT

Globe Operating Incc.
P.O. Box 12
Great Bend , Kansas 67530
ATTN: Chad Counts

11-22s-14w Stafford
Williams #5
Job Ticket: 01458 **DST#: 4**
Test Start: 2020.10.12 @ 00:43:00

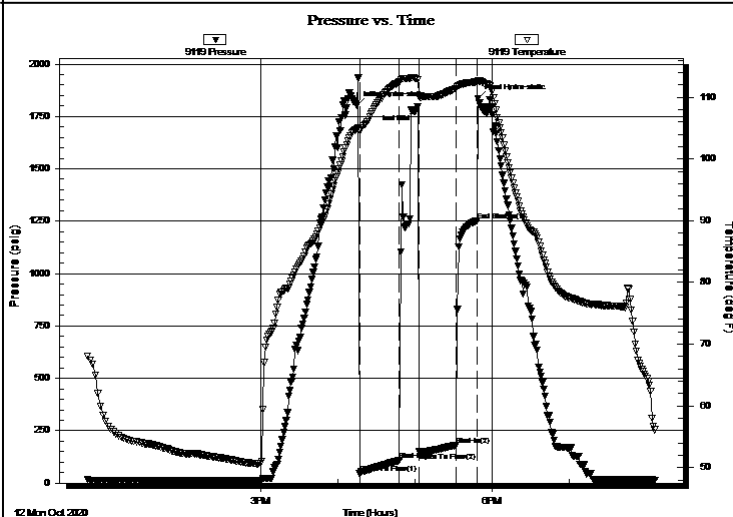
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:19:00
Time Test Ended: 08:08:00
Interval: **3771.00 ft (KB) To 3782.00 ft (KB) (TVD)**
Total Depth: 3833.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Initial)
Tester: Gener Budig
Unit No: 1
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 9119

Press@RunDepth: 1252.61 psig @ ft (KB) Capacity: psig
Start Date: 2020.10.12 End Date: 2020.10.12 Last Calib.: 1899.12.30
Start Time: 12:46:00 End Time: 20:06:30 Time On Btm: 2020.10.12 @ 16:14:59
Time Off Btm: 2020.10.12 @ 17:49:00

TEST COMMENT: 1st Opening 30 Minutes weak building blow built to the bottom of the bucket in 26 minutes
1st Shut-In 15 Minutes no blow back
2nd Opening 30 Minutes weak building blow built to the bottom of the bucket in 24 minutes
2nd Shut-In 15 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1802.10	104.89	Initial Hydro-static
3	44.99	104.54	Open To Flow (1)
34	107.69	112.48	Shut-In(1)
48	1797.76	112.89	tool Slid
48	149.45	110.13	Open To Flow (2)
77	180.52	111.40	Shut-In(2)
94	1252.61	112.49	End Shut-In(1)
95	1835.89	112.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gas in the pipe	0.57
120.00	Oil	1.68
80.00	Oil cut muddy water	1.12
0.00	25%Oil45 % Mud 40% Water	0.00
60.00	Oil cut muddy water	0.84
0.00	40%Oil 30%Mud 30%Water	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Globe Operating Incc.
P.O. Box 12
Great Bend , Kansas 67530
ATTN: Chad Counts

11-22s-14w Stafford
Williams #5
Job Ticket: 01458 **DST#: 4**
Test Start: 2020.10.12 @ 00:43:00

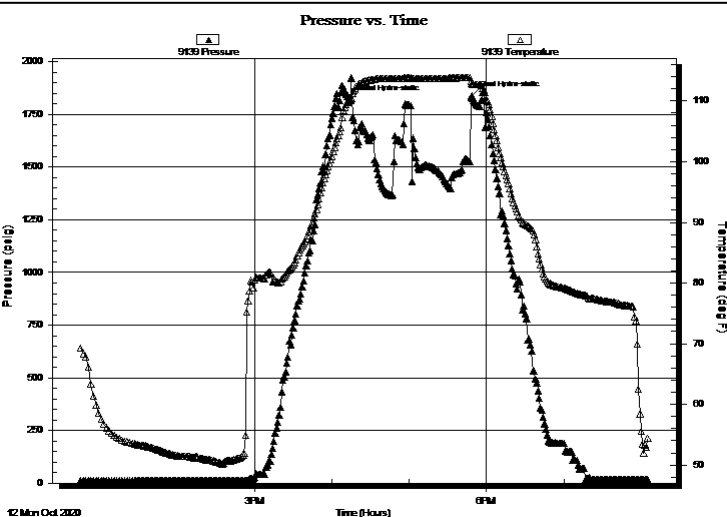
GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 04:19:00
Time Test Ended: 08:08:00
Interval: **3771.00 ft (KB) To 3782.00 ft (KB) (TVD)**
Total Depth: 3833.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Straddle (Initial)
Tester: Gener Budig
Unit No: 1
Reference Elevations: 1934.00 ft (KB)
1926.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 9139

Press@RunDepth: psig @ ft (KB) Capacity: psig
Start Date: 2020.10.12 End Date: 2020.10.12 Last Calib.: 1899.12.30
Start Time: 12:45:00 End Time: 20:05:30 Time On Btm: 2020.10.12 @ 16:14:30
Time Off Btm: 2020.10.12 @ 17:48:30

TEST COMMENT: 1st Opening 30 Minutes weak building blow built to the bottom of the bucket in 26 minutes
1st Shut-In 15 Minutes no blow back
2nd Opening 30 Minutes weak building blow built to the bottom of the bucket in 24 minutes
2nd Shut-In 15 Minutes no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1820.32	110.14	Initial Hydro-static
94	1839.04	112.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gas in the pipe	0.57
120.00	Oil	1.68
80.00	Oil cut muddy water	1.12
0.00	25%Oil45 % Mud 40% Water	0.00
60.00	Oil cut muddy water	0.84
0.00	40%Oil 30%Mud 30%Water	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Globe Operating Incc.

11-22s-14w Stafford

P.O. Box 12
Great Bend , Kansas 67530

Williams #5

Job Ticket: 01458

DST#: 4

ATTN: Chad Counts

Test Start: 2020.10.12 @ 00:43:00

Tool Information

Drill Pipe:	Length: 3741.00 ft	Diameter: 3.80 inches	Volume: 52.48 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 75000.00 lb
		Total Volume:	- bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 55000.00 lb
Depth to Top Packer:	3771.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	3837.78 ft			
Interval between Packers:	66.78 ft			
Tool Length:	89.78 ft			
Number of Packers:	3	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Length (ft) Serial No. Position Depth (ft) Accum. Lengths

Shut In Tool	5.00			3753.00	
Hydraulic tool	5.00			3758.00	
Jars	6.00			3764.00	
Safety Joint	2.00		Fluid	3766.00	
Packer	5.00			3771.00	23.00 Bottom Of Top Packer
Anchor	10.00			3781.00	
Recorder	1.00	9119	Inside	3782.00	
top bootom	5.00			3787.00	
Packerbottom bottom	5.00			3792.00	
Anchor	5.00			3797.00	
Change Over Sub	0.75			3797.75	
Drill Pipe	29.28			3827.03	
Change Over Sub	0.75			3827.78	
Anchor	5.00			3832.78	
Recorder	1.00	9139	Outside	3833.78	
Bullnose	4.00			3837.78	66.78 Anchor Tool
Total Tool Length:	89.78				



DRILL STEM TEST REPORT

FLUID SUMMARY

Globe Operating Incc.

11-22s-14w Stafford

P.O. Box 12
Great Bend , Kansas 67530

Williams #5

Job Ticket: 01458

DST#: 4

ATTN: Chad Counts

Test Start: 2020.10.12 @ 00:43:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 54.00 sec/qt
Water Loss: 10.79 in³
Resistivity: ohm.m
Salinity: 9300.00 ppm
Filter Cake: 1.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig
Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Gas in the pipe	0.568
120.00	Oil	1.683
80.00	Oil cut muddy w ater	1.122
0.00	25%Oil45 % Mud 40% Water	0.000
60.00	Oil cut muddy w ater	0.842
0.00	40%Oil 30%Mud 30%Water	0.000
60.00	Oil cut muddy w ater	0.842
0.00	15% Oil 60%Mud 25%Water	0.000
60.00	Water cut oil	0.842
0.00	60%Oil 3%Mud 37%w ater	0.000

Total Length: 440.00 ft Total Volume: 5.899 bbl

Num Fluid Samples: 0

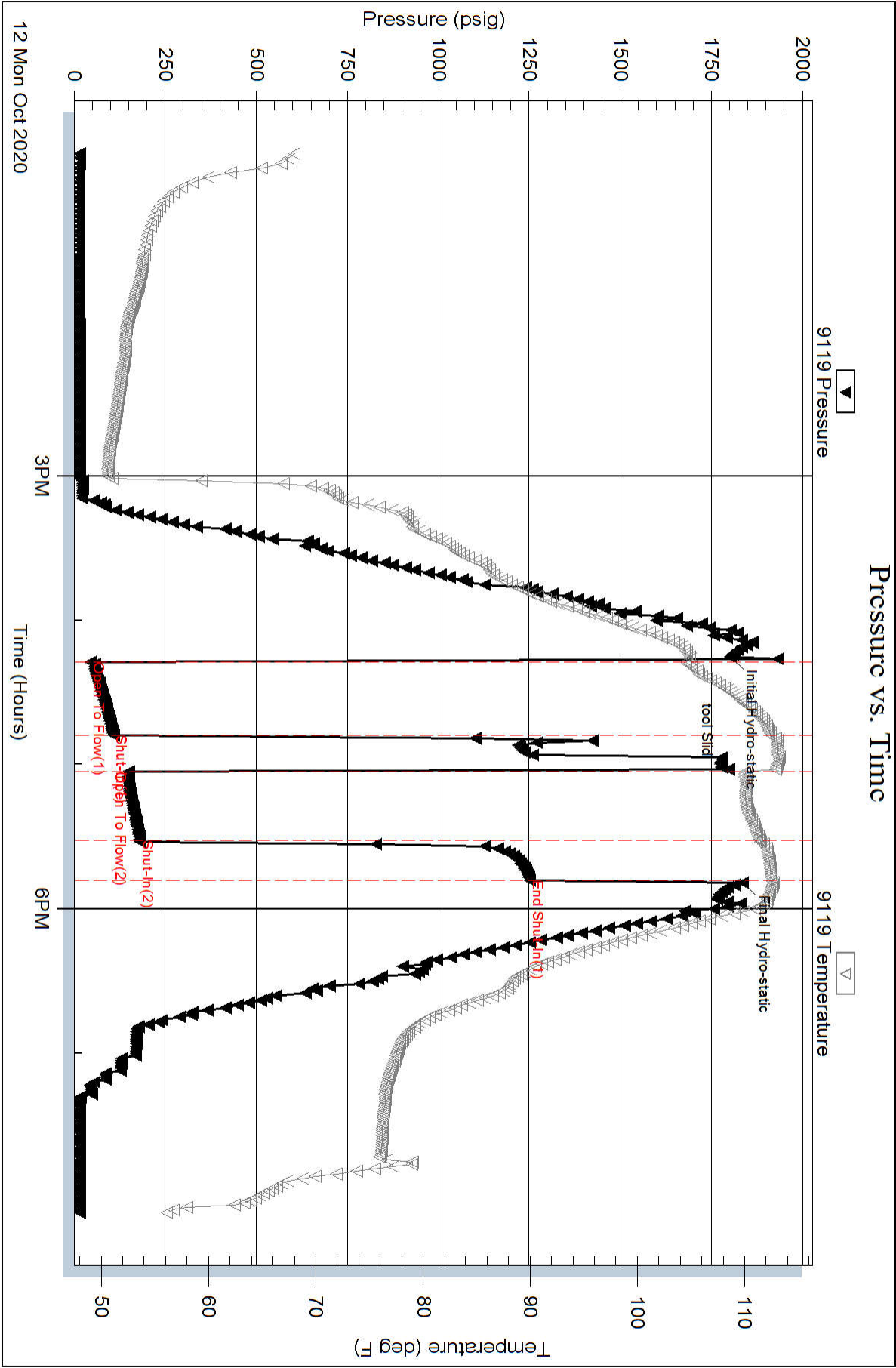
Num Gas Bombs: 0

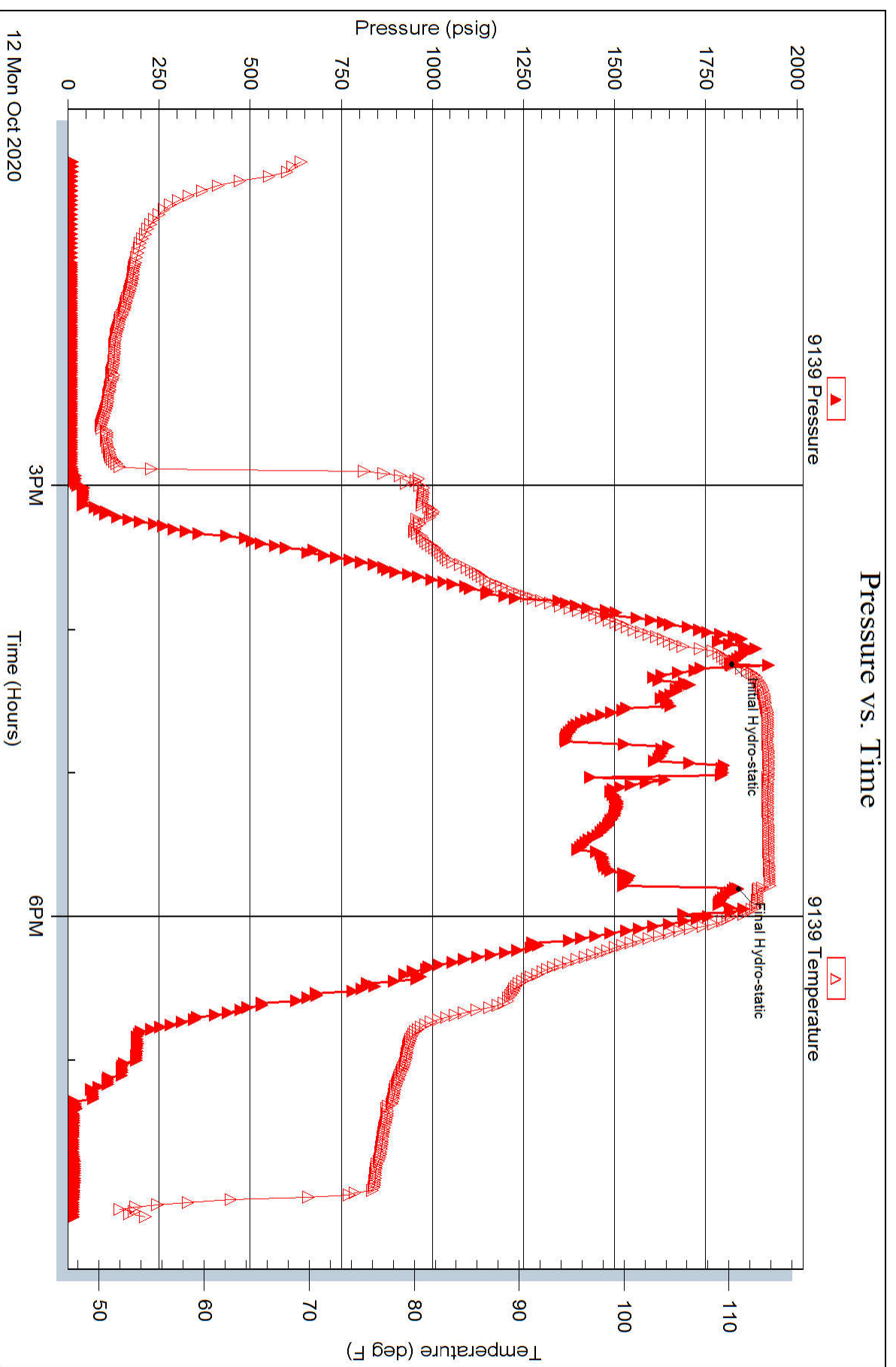
Serial #:

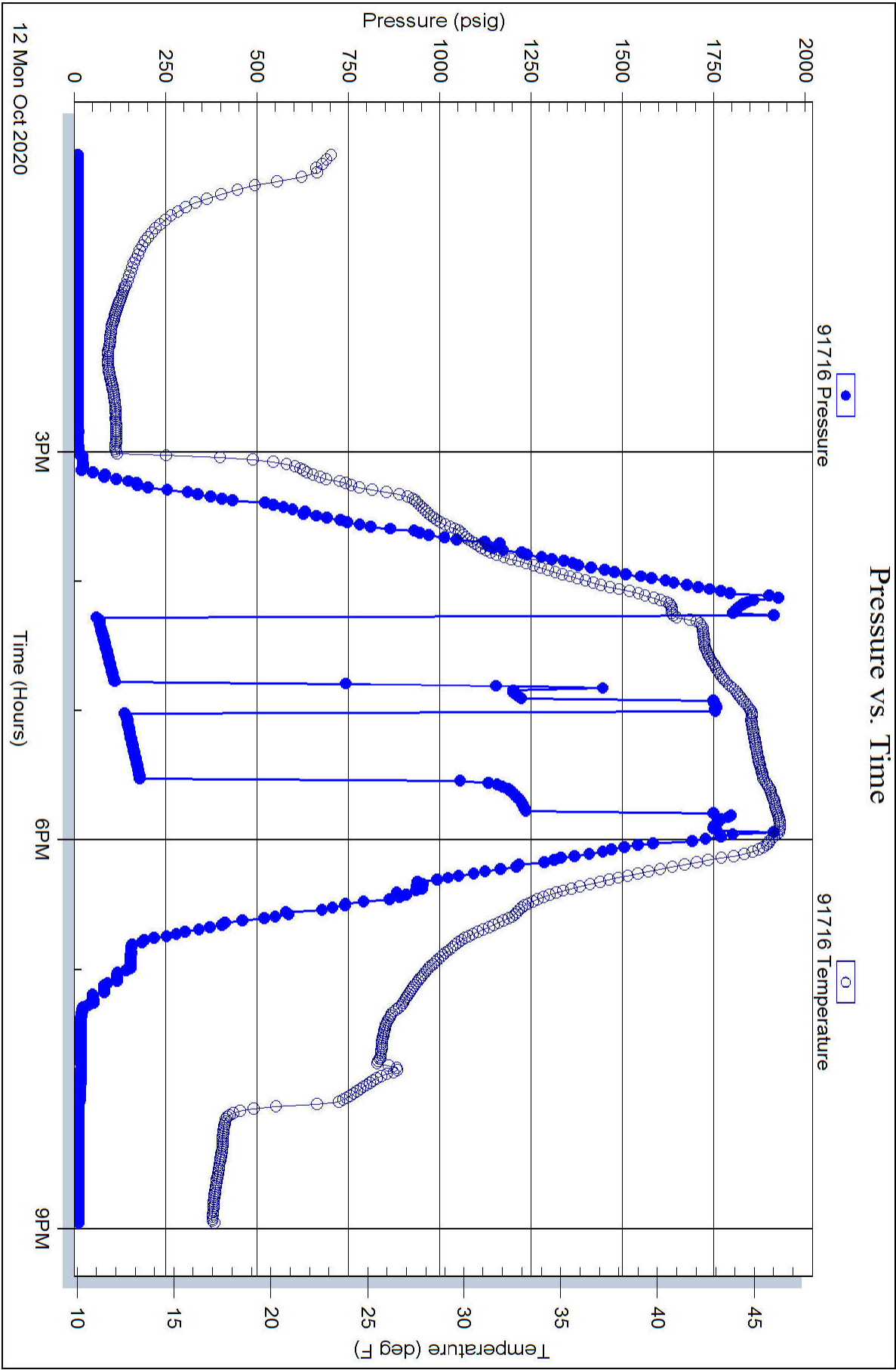
Laboratory Name:

Laboratory Location:

Recovery Comments:







[illegible]

Pore Fluid Depth: 731.64 mlg @	n (%)	Capacity:
Start Date: 2020-10-09	End Date:	Last Core: 1996-10-30
Start Time: 23:41.00	End Time: 05:26.00	Time On Shift: 2020-10-10 @ 01:28.00
		Time Off date: 2020-10-10 @ 02:40.00

TEST COMMENT: 1st opening : 10 Minutes wait surface flow through out
 1st Shut-in : 30 Minutes
 2nd Opening : 30 Minutes wait surface flow through out
 2nd Shut-in : 60 Minutes

Pressure vs. Time

Time (min)	Pressure (psig)	Temp (deg F)	Annotation
0	1763.36	105.65	Initial Pressure stable
1	67.81	102.27	Open to Flow (1)
5	89.89	104.28	Shut-In (1)
35	765.69	104.90	Bld Shut-In (1)
40	619.62	104.71	Open to Flow (2)
45	625.08	104.83	Shut-In (2)
120	731.64	105.20	2nd Shut-In (2)
133	717.87	105.90	Final Pressure stable

Recalculay	
Length (ft)	Description
50.00	Coring Mud
	GCS

Gas Rates			
Core Interval	Flowback Rate (l/min)	Gas Flow (SCF/D)	Gas Flow (m³/D)

Sege TestCo
Rpt. No.: 01458
Printed: 2020-10-10 @ 05:52 PM

Recovery

Length (ft)	Description	Volume (ac)
50.00	Gas to the pipe	0.57
30.00	Oil out mud (Oil @ 90% Mud)	0.42
50.00	Mud out Oil (Oil @ 20% Mud)	0.04

Gas Rates

15 MIN TEST RATE	INITIAL GAS RATE	Gas Rate (DSC)
134.0	134.0	134.0

Start Date:	2020.10.11	End Date:	2020.10.11
Start Time:	07:25:30	End Time:	12:32:30
		L1 Unit CHD:	1999.10.30
		Time On Bit:	2020.05.11 @ 05:05:00
		Time Off Bit:	2020.10.11 @ 10:16:30

TEST COMMENT: 1st Opening 10 Minutes in leak down built to 8 inches into the water
 2nd Opening 10 Minutes
 3rd Opening 10 Minutes in leak down built to 8 inches into the water
 2nd CHD-IN 10 Minutes

Pressure on Flare

Pressure (PSIG)

Time (min)

PRESSURE SUMMARY

Time (hr)	Pressure (PSIG)	Temp. (°F)	Annotation
0	1905.61	103.63	Initial hydro-static
3	26.14	102.04	OPEN FLOW (1)
10	243.98	103.57	CHD-IN (1)
35	1578.31	105.44	END CHD-IN (1)
37	254.00	107.01	OPEN FLOW (2)
66	300.47	104.75	CHD-IN (2)
70	1304.02	109.60	END CHD-IN (2)
72	176.51	100.50	Final hydro-static

Recovery

LEAK IN TIME	Observation	Volume (GAL)
500.00	HAZ IN WITH A NEW SPEAK OF OIL	0.74

Gas Rates

CHD IN TIME	Pressure (PSIG)	Gas Flow (SCFD)

Boyle Testers
Ref. No: 12
Printed: 2020.10.11 @ 12:53:13

Formation: Arbuckle		# Arbuckle		Test Type: Conventional Straddle (Initial)	
Borehole: Ne		Wellbore: Ne		General Group: 1	
Time Tool Connect ID: 1502		Time Dis: 08:30:00		Use Note: 	
Time Tool Disconnect: 08:30:00		Time Dis: 08:30:00		Revision: 1534.00 (N/A)	
Interval: 3771.00 (N) To 3782.00 (N) (TVI)		Time Dis: 08:30:00 (N) (TVI)		Revision: 1520.00 (N) (CT)	
Time Tool: 3633.00 (N) (TVI)		Time Dis: 08:30:00 (N) (TVI)		Revision: 8.00 (N)	
Interval: 7.56 inches-Hole Condition: Fail		Time Dis: 08:30:00 (N) (TVI)		Revision: 8.00 (N)	

Serial #: 9119		Pressure/Rate: 12520.00 pag (N) (TVI)		Capacity: 	
Pressure/Rate: 12520.00 (N) (TVI)		Time Dis: 08:30:00 (N) (TVI)		Lact Cells: 1899.12 30 pag	
Start Time: 12:43:00		End Time: 20:00:00		Time on Start: 20:00:12 (N) 16:14:59	
Time Dis: 12:43:00		Time Dis: 20:00:00		Time on Stop: 20:00:12 (N) 17:45:00	

TEST COMMENT: 1st Convey 30 Minutes at test building down to the bottom of the bucket in 25 minutes.
 2nd Convey 30 Minutes in hole.
 2nd Convey 30 Minutes at test building down to the bottom of the bucket in 24 minutes.
 2nd Convey 30 Minutes on well back.

Pressure vs Time		PRESSURE SUMMARY	
Time (Min)	Pressure (psi)	Time (Min)	Pressure (psi)
34	10552.00	34	10552.00
35	10552.00	35	10552.00
36	10552.00	36	10552.00
37	10552.00	37	10552.00
38	10552.00	38	10552.00
39	10552.00	39	10552.00
40	10552.00	40	10552.00
41	10552.00	41	10552.00
42	10552.00	42	10552.00
43	10552.00	43	10552.00
44	10552.00	44	10552.00
45	10552.00	45	10552.00
46	10552.00	46	10552.00
47	10552.00	47	10552.00
48	10552.00	48	10552.00
49	10552.00	49	10552.00
50	10552.00	50	10552.00

ROCK TYPES

	Coal		Igne		Mist
	Oolitic limestone		Dark grey shale		Salt
	Congl		Black shale		New symbol
	Dol		Lmst		Shale
	Gyp		Meta		Shcol

ACCESSORIES

	Gyp		FOSSIL		Ostra
	Hvymn		Algae		Pelac
	Kael		Amph		Pellet
	Mari		Belm		Pisolite
	Minxl		Bioclst		Plant
	Nodule		Brach		Strom
	Phos		Bryozoa		
	Pyr		Cephal		STRINGER
	Salt		Coral		Anhy
	Sandy		Crin		Arg
	Silt		Echin		Beal
	Sil		Fish		Coal

☐ Vuggy	ROUNDING	☐ Spotted
	☐ Rounded	☐ Ques
SORTING	☐ Subrrnd	☐ Dead
☐ Well	☐ Subang	
☐ Moderate	☐ Angular	INTERVAL
☐ Poor		☐ Core
	OIL SHOW	☐ Dst
	☐ Even	

Core ID	Depth (m)	Lithology	Geological Descriptions	Images	Comments
MD	3200	LS	LS: buff-grey, micro xln-xln, mod argillaceous-chalky, abndnt fossil intracalcists, fair-good vuggy porosity, NSFCC.		Start Logging: 11:00 pm 10/8/20 @3200'
	3220	LS	LS:buff-grey, fn-med xln, argillaceous, fair inln and vuggy por, occ fossil frags, NSFCC.		
	3240	LS	LS: grey-buff, argillaceous, chalky, fair-good inxl and vuggy phl, occ. fossil fragments, NSFCC.		
	3260	LS	LS: cream-grey, very chalky, argillaceous, occ. vuggy por, NSFCC.		
	3280	LS	LS: cream-grey, very chalky, ala. Occ. grey calcareous shale, very firm, sub platy.		*Hole washed out over Hutchinson Salt causing lag time to be increased up to 15 minutes.
	3300	LS	LS: cream-beige, grey, micritic, poor inxl por, very chalky, several w/ leached str, NSFCC.		
	3320	LS	LS: cream, tan, brown, micro xln, no vis por, occ. cherty (brown, opaque), sl. chalky and argillaceous, NSFCC.		
	3340	LS	LS: AA, increase in chert, no vis por, occ. fossil frag, NSFCC.		
	3360	LS	LS: AA		
	3380	LS	Black Shale: firm, platy-subplaty, sl. calc, mod organic, mod brittle. LS: buff, micro xln, no vis por, NSFCC.		
	3400	LS	3320 smpt shale grey green, non platy, gritty/silty, mod soft. LS: cream beige, brown, abndnt fossil intra dist (wackstone), no vis por, dense, NSFCC.		MW 8.7 Vis 65
	3420	LS	3330 smpt: grey, beige, brown, micro xln, brwn & grey bony chert, no vis por, occ fossil fragments, sl. argillaceous. NSFCC.		
	3440	LS	3340 smpt shale: grey, mod firm, sl. silty, calcareous, non platy.		
	3460	LS	3350 smpt shale: grey-green, non platy, smooth-gritty, sl silty, vs sl. calcareous.		
	3480	LS	3360 smpt shale: grey, sl. silty, sub platy, mod brittle, sl. calc.		
	3500	LS	3370 smpt shale A/A		
	3520	LS	3380 smpt grey shale ala, abndnt brick red, non platy/blocky, sl. silty, non calc.		
	3540	LS	3390 smpt med grey shale, smooth-sil. silty, sub platy-platy, occ. blocky when silty, mod firm.		MW 8.7 Vis 65
	3560	LS	3400 smpt med grey shale ala		
	3580	LS	3410 smpt med grey, sub platy, brittle, sl. micaceous, mod firm, sl. calc.		
	3600	LS	3420 smpt predominately shale: grey-med grey, sub platy, sl. silty, sl. micaceous, mod firm. LS: tan-buff, fn-micro xln, sl. sucrosic, chalky, no vis por, NSFCC.		
	3620	LS	3430 smpt: LS: grey, buff, micro xln, dense, argillaceous, chalky, no vispor, occ. fossil fragments, NSFCC. Abndnt med grey shale, subplaty, firm, soft, smooth, non calc.		
	3640	LS	3440: LS: cream, grey, micro xln-fn xln, occ. packstone, ooids and fossil hash w/ no vis por, very chalky/no odor, NSFCC.		MW 8.8 Vis 65
	3660	LS	3450: LS: grey, buff, micritic, no vis por. 2 cutting w/ dead oil stain: LS: micro xln-fn xln, very poor no vis por, rare occ. vug who conn, patchy heavy gils stain, no odor or free oil.		
	3680	LS	3460 smpt: LS: grey, buff, micro xln, occ. fossil frag, no vis por, very dense sl. chalky, NSFCC.		
	3700	LS	3470 smpt: LS: white, micro xln, dense, non arg. occ. rare pp vug, NSFCC. Tr: black shale.		
	3720	LS	3480: LS: cream, white, buff, fn-micro xln, occ. pp vugs (barren), overall very tight, occ. chert, abndnt fossil fragments, NSFCC.		
	3740	LS	3490 smpt: LS: grey, buff, micro xln, lithographic tex, occ. fossil, mod argillaceous, NSFCC.		
	3760	LS	3497' 20" smpt: grey-brown, ls-calcareous shale, occ. oomoldic packstone-grainstone, no vis por, no odor, NSFCC.		
	3780	LS	3497' 40" LS: oolitic, packstone-grainstone, very poor incl por, argillaceous, 1-2 cuttings w/ sfo in random vuggy por, very spotty saturation, and stain, weak oil odor.		
	3800	LS	3497' 60" sample: LS: beige, buff, wackstone-packstone, wimicro xln matrix, no vis por, few cuttings w/ very patchy stain, NSFCC. 3500/83500 smpt: all cavings.		MW 9.1 Vis 55
	3820	LS	3520 smpt: LS: grey, occ. oomoldic, very poor por, micro xln matrix, argillaceous, NSFCC.		
	3840	LS	3530 sample: LS: cream-grey, micro xln-v xln, very poor-no vis por, very chalky, occ. rare patchy dead edge stain, ques odor, no show free oil.		
	3860	LS	3540: LS: cream, grey, dense, rare pp vuggy por, chalky, few cutting with patch dead edge stain. No odor or cut.		
	3880	LS	3550: LS: AA. Occ: brown chert NSFCC.		
	3900	LS	3550 20": Shale: grey-green, sub platy-non platy, soft, smooth non calc. LS: A/A increase chert, bony white, occ. transparent.		
	3920	LS	3550 H Porosity: honeycomb oolitic LS, large casts, very spotty oil sat and stain, several barren vugs, slight odor, slow streaming out.		
	3940	LS	3570 smpt: LS: grey, buff, micritic, no vispor, 5% oolastic por, spotty oil stain and sat, very faint odor NSFCC.		
	3960	LS	3580' LS: cream, micro xln, occ oolitic packstone, no vis por, no oc. A abundant samples, nso.		
	3980	LS	3590: LS: Cream-white, fine-micro xln, very dense, occ. spotty stain and sat, show heavy flaky oil upon break. No detectable odor.		DST#1 3569-3616' 10-30-30-60 Recovered: 80' drilling mud. Good odor. IFP: 88-89psi ISP: 760psi FFP: 92-93psi FSP: 731psi
	4000	LS	30": LS: grey-white, micro xln, fair amount of pp scattered vugs, possible limited connectivity, chalky matrix, heavy oil, staining lining inxl vugs and fractures, sfo-sfo, fair oil odor.		
	4020	LS	60": carried show, sl increase in porosity, fair show gas bubb, fair odor, fair scattered sat. Fair show free oil upon break, 100% dissolves in acid. 3610 smpt: fair show oil in light chalky white, fair odor, ffo upon crush.		
	4040	LS	K Porosity: white, fine xln, sucrosic, chalky, random pp vugs possibly interconnecting. Very heavy black tarry oil stain, some free oil, fair-strong odor, fast cut.		
	4060	LS	3640 smpt: LS: cream, buff, micro xln, no vis por, very dense. Abundant med grey shale subplaty firm, mod carbonaceous, fusulinids.		
	4080	LS	3650 smpt: LS: buff-cream, micro xln, very dense, rare secondary fine xln matrix with spotty oil stain, no free oil, very faint odor.		
	4100	LS	3660 smpt: LS: beige, tan-brown, micro xln, occ rare sec-re xln por, patch oil sth, vs so, very faint odor. Abndnt shales: grey, maroon dove grey, green-grey.		MW 9.3 Vis 80
	4120	LS	3670 smpt: LS: beige, micro xln, very dense, no vis por, chert, off-white-tan, opaque, NSFCC, no odor. Abndnt grey subplaty shale.		
	4140	LS	3680: Dolomite: ls, cream, micro xln, poor-no visible porosity, occ: dead scattered gils stain, no show free oil. No odor.		
	4160	LS	3690 smpt: Dolomitic LS: ala. Increase chert NSFCC.		
	4180	LS	3700 smpt: ala. Maroon & Dove grey shale		
	4200	LS	3710 smpt chert, bone white, yellow, trans & opaque conchoidal frac, very rare edge staining, some sat stain among fractures, fsfo in cup, good odor.		DST#2 Arbucke 15-30-45-45 3713-3774' 60" GIP 30" OCMW (10% OIL) 60" MCO (80% OIL) 26 gravity IFP: 80-90 ISP: 1314psi

MUD LOG

WellSight Systems

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

Measured Depth Log

Well Name: Williams #5

Well Id: 15-185-24072

Location: NE NW SE NE Sec 11 T22S R14W

License Number:

Region: Kansas

Spud Date: 10/5/2020

Drilling Completed: 10/11/20

Surface Coordinates: 1640' FNL 960' FEL

Bottom Hole

Coordinates:

Ground Elevation (ft): 1926

K.B. Elevation (ft): 1934

Logged Interval (ft): 3250

To: 3833

Total Depth (ft): 3500

Formation: Heebner-Arbuckle

Type of Drilling Fluid: Gel based mud

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

OPERATOR

Company: Globe Operating Inc.

Address: Attn:Richard Stalcup

P.O. Box 14

Great Bend, Ks

GEOLOGIST

Name: Chad Counts

Company: MG Oil Inc.

Address: 1256 W. Hwy 40

Russell, Ks 67665

Comments

The Williams #5 was drilled with Discovery Drilling Inc. tools beginning 10-5-2020, and ending 10-11-2020.

Structurally, the well ran lower than seismic suggested, but yet locally even to slightly low to surrounding producers. The Anhydrite was significantly lower than expected, thus explaining the thin isochron maps from Anhydrite-Lansing, and Anhydrite-Arbuckle.

Owing to the structural position of all potential pay intervals, DST's, and drainage from surrounding wells, the Williams #5 was agreed to be plugged and abandoned by all parties.

Respectfully,

Chad Counts