

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	Norstar Petroleum, Inc.
Well Name	BLU UNIT 1-22
Doc ID	1592247

All Electric Logs Run

DIL
CDNL
MEL
Sonic

Form	ACO1 - Well Completion
Operator	Norstar Petroleum, Inc.
Well Name	BLU UNIT 1-22
Doc ID	1592247

Tops

Name	Top	Datum
Swope	1653	-300
Pleasanton	1674	-321
Mississippian	2310	-957
Kinderhook	2721	-1368
Hunton	2868	-1515
Simpson	3033	-1680
Simpson SS	3050	-1697
Arbuckle	3095	-1742

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report
 Ticket No. **5871**
 Foreman Russell McCoy
 Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
8-31-21	1398	BLU Unit 1-22	22	14	11	Lyon	Ks	
Customer <u>Norstar Petroleum Inc.</u>			Safety Meeting RM Jasper AB		Unit #	Driver	Unit #	Driver
Mailing Address <u>88 INDEPENDENCE CIR E. UNIT F 104</u>					105			
City <u>Englewood</u>			State <u>CO</u>		114			
Zip Code <u>80112-5514</u>					128			

Job Type SURFACE PIPE Hole Depth 250 K.B Slurry Vol. 34 BBL Tubing _____
 Casing Depth 233 G.L. Hole Size 12 1/4 Slurry Wt. 15 # Drill Pipe _____
 Casing Size & Wt. 8 5/8 Cement Left in Casing 20 +/- Water Gal/SK 6.5 Other _____
 Displacement 14 BBL Displacement PSI _____ Bump Plug to _____ BPM 5

Remarks: Rig to 8 5/8 casing, Break circulation w/ 10 BBL water mix 140
SKs. Reg 3% CaCl2 2% Gel 1/4 # Floccate @ 15 # yield 1.35 = 34 slurry
DISPLACE w/ 14 BBL WATER & 6 BBL slurry to pit close casing in.
JOB COMPLETE, T-RAR Down. Thank you!
Russell McCoy

API # 15-111-26555-00-00

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C-101	1	Pump Charge	870.00	870.00
C-107	65	Mileage	4.20	273.00
C-200	140	Class A Regular cement	17.35	2429.00
C-205	400 #	CaCl2 = 3%	.69	276.00
C-206	260 #	Gel = 2%	.28	72.80
C-209	35 #	Floccate 1/4 # per/sk	2.60	91.00
C-108	6.58	Tonic x 65 ml/sk	1.40	92.12
			-5%	(272.29)
			Sales Tax	215.16
Authorization by <u>Lighthouse Drlg</u> Title <u>Rig Contractor</u>			Total	4603.45

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7TH
 PO Box 92
 EUREKA, KS 67045
 (620) 583-5561



Cement or Acid Field Report

Ticket No. **5895**

Foreman Russell McClary

Camp Eureka

Date	Cust. ID #	Lease & Well Number	Section	Township	Range	County	State	
9-12-21	1378	BLU unit 1-22	22	16	11	LYON	KS	
Customer Norstar Petroleum			Safety Meeting		Unit #	Driver	Unit #	Driver
Mailing Address 88 Inverness Cir E. Unit F104			RM		105	JASON		
City Englewood			JASON		113	SHANNON		
State CO			SHANNON		12B	RUSSELL		
Zip Code 80112-5514								

Job Type P.T.A. New well Hole Depth 3135 Slurry Vol. _____ Tubing _____
 Casing Depth _____ Hole Size 7 7/8 Slurry Wt. _____ Drill Pipe 4 1/2
 Casing Size & Wt. _____ Cement Left in Casing _____ Water Gal/SK _____ Other _____
 Displacement _____ Displacement PSI _____ Bump Plug to _____ BPM _____

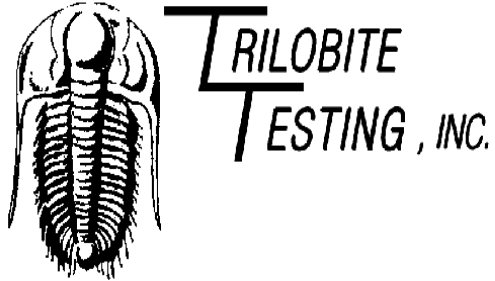
Remarks: Safety meeting + Job Procedure
Flag well as follows

15 @	3130
15 SKs @	2860
15 SKs @	1570
30 SKs @	2'10"
25 SKs @	60'
15 SKs	21 Rathole
10 SKs	mouse hole
125 SKs	TOTAL

API # 15-111-20555-00-00

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C-103	1	Pump Charge	1100.00	1100.00
C-107	65	Mileage	4.30	273.00
C-203	125 SKs	60/40 Pozmix cement	14.75	1843.75
C-206	430 #	# cel = 4%	.28	120.40
C-108B	5.31	Tons (Mileage on Bulk Truck) 65 miles	1.40	488.67
				3,825.82
			-5%	<198.66>
			1.090 Sales Tax	144.31
Authorization	by <u>Charlie</u>		Title	<u>Rig Contractor</u>
			Total	<u>3771.47</u>

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.



DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

88 Inverness Cir E Unit F104
Englewood CO 80112+5514

ATTN: Brad Rine

BLU Unit #1-22

22-16s-11E Lyon,KS

Start Date: 2021.09.10 @ 23:30:00

End Date: 2021.09.11 @ 04:11:17

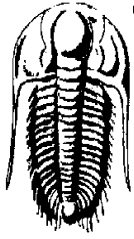
Job Ticket #: 67763 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.09.13 @ 13:37:29



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc
 88 Inverness Cir E Unit F104
 Englewood CO 80112+5514
 ATTN: Brad Rine

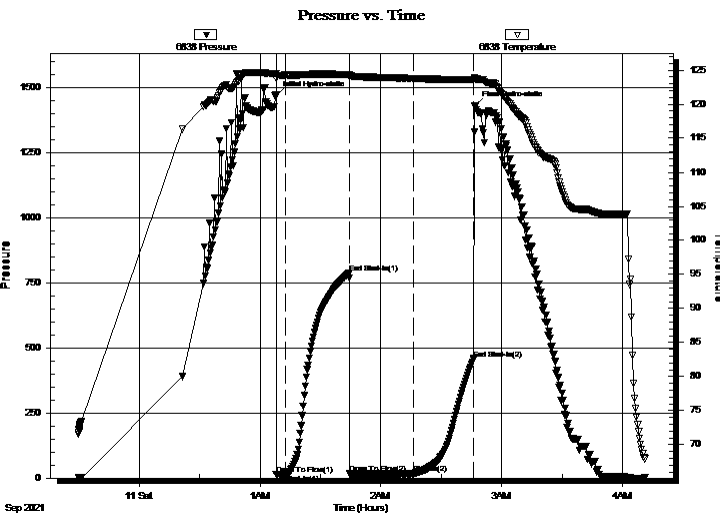
22-16s-11E Lyon, KS
BLU Unit #1-22
 Job Ticket: 67763 **DST#: 1**
 Test Start: 2021.09.10 @ 23:30:00

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 01:08:02 Tester: Spencer J Staab
 Time Test Ended: 04:11:17 Unit No: 84
 Interval: **3035.00 ft (KB) To 3044.00 ft (KB) (TVD)** Reference Elevations: 1353.00 ft (KB)
 Total Depth: 3044.00 ft (KB) (TVD) 1342.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 6838 Inside
 Press@RunDepth: 17.23 psig @ 3036.00 ft (KB) Capacity: psig
 Start Date: 2021.09.10 End Date: 2021.09.11 Last Calib.: 2021.09.11
 Start Time: 23:30:01 End Time: 04:11:17 Time On Btm: 2021.09.11 @ 01:07:57
 Time Off Btm: 2021.09.11 @ 02:46:42

TEST COMMENT: 5-IF-Surface to 1/2"
 30-ISI-No Return
 30-FF-No Blow
 30-FSI-No Return



PRESSURE SUMMARY

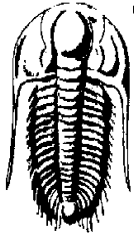
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1469.35	124.51	Initial Hydro-static
1	14.31	123.79	Open To Flow (1)
5	14.29	124.26	Shut-In(1)
37	787.97	124.32	End Shut-In(1)
37	16.48	124.04	Open To Flow (2)
69	17.23	123.76	Shut-In(2)
99	458.43	123.61	End Shut-In(2)
99	1428.64	123.73	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM (Flaky) 100%M	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc
88 Inverness Cir E Unit F104
Englewood CO 80112+5514
ATTN: Brad Rine

22-16s-11E Lyon,KS
BLU Unit #1-22
Job Ticket: 67763 **DST#: 1**
Test Start: 2021.09.10 @ 23:30:00

Tool Information

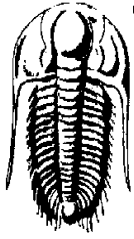
Drill Pipe:	Length: 2736.00 ft	Diameter: 3.82 inches	Volume: 38.78 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 304.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 56000.00 lb
Depth to Top Packer:	3035.00 ft			Final 56000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	30.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3015.00	
Change Over Sub	1.00			3016.00	
Shut In Tool	5.00			3021.00	
Hydraulic tool	5.00		Fluid	3026.00	
Packer	5.00			3031.00	21.00 Bottom Of Top Packer
Packer	4.00			3035.00	
Stubb	1.00			3036.00	
Recorder	0.00	6838	Inside	3036.00	
Recorder	0.00	8875	Outside	3036.00	
Perforations	5.00			3041.00	
Bullnose	3.00			3044.00	9.00 Bottom Packers & Anchor

Total Tool Length: 30.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc

22-16s-11E Lyon,KS

88 Inverness Cir E Unit F104
Englewood CO 80112+5514

BLU Unit #1-22

Job Ticket: 67763

DST#: 1

ATTN: Brad Rine

Test Start: 2021.09.10 @ 23:30:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 300.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM (Flaky) 100%M	0.049

Total Length: 10.00 ft

Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 5#LCM

Serial #: 6838

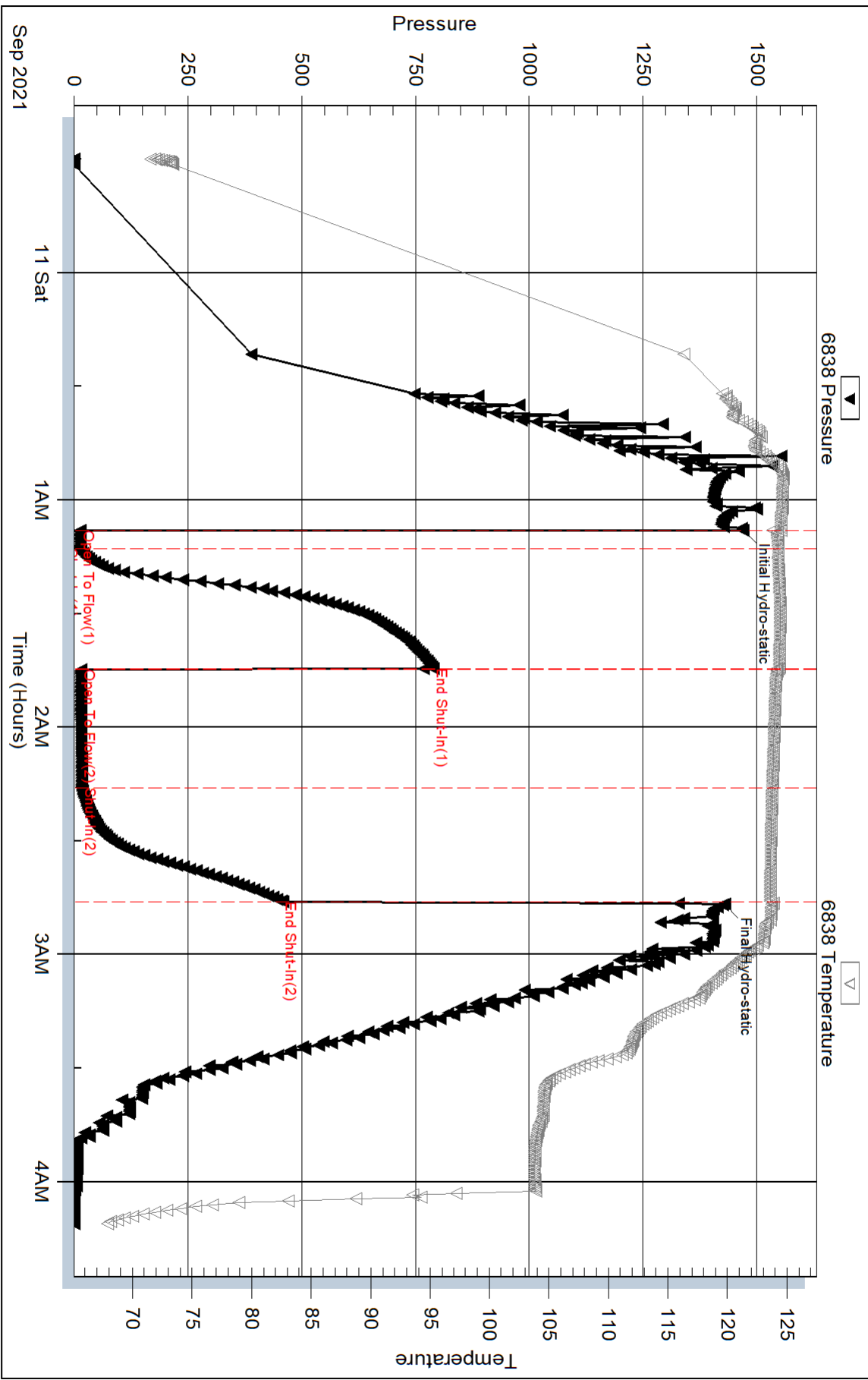
Inside

Norstar Petroleum Inc

BLU Unit #1-22

DST Test Number: 1

Pressure vs. Time

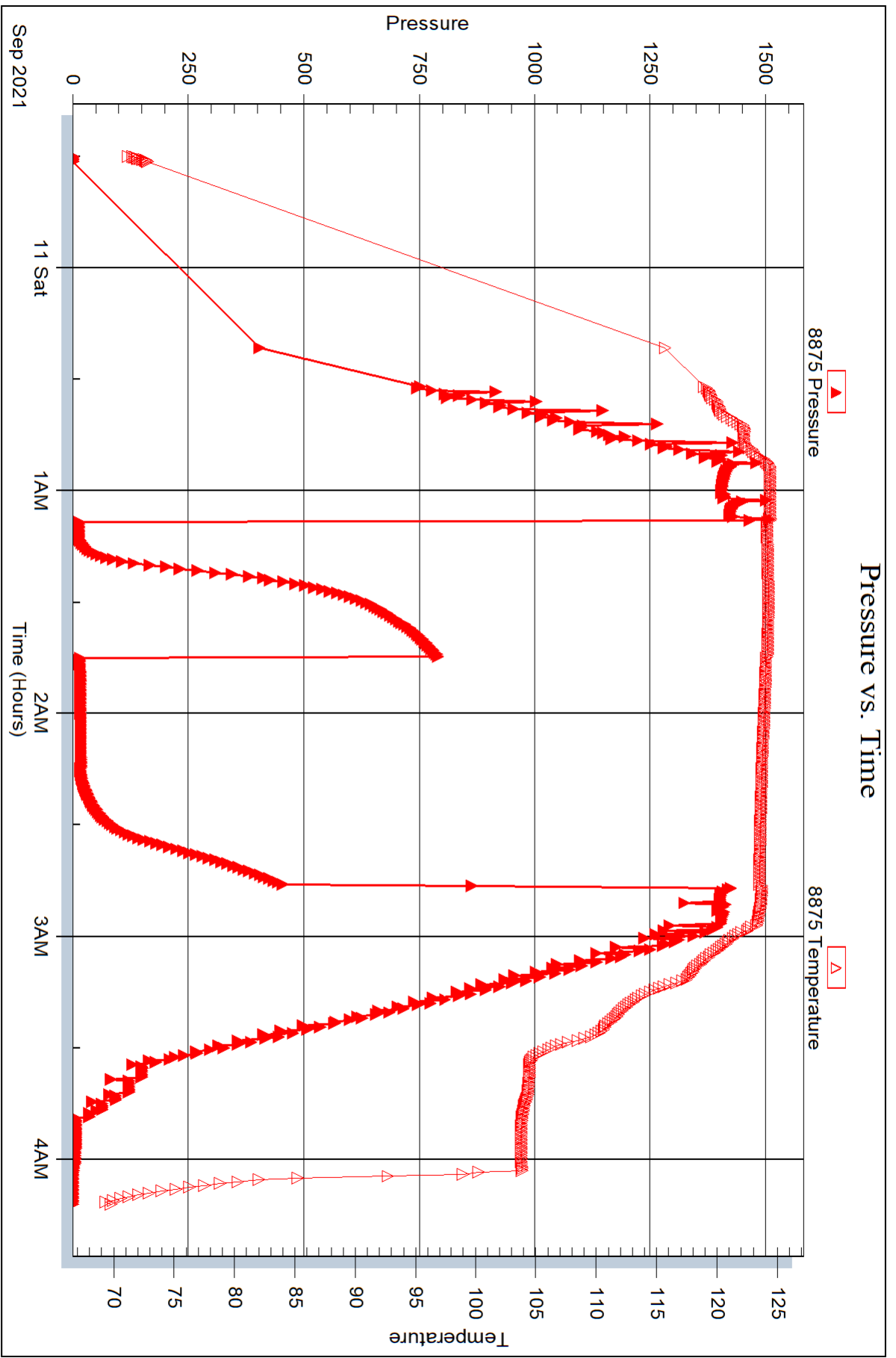


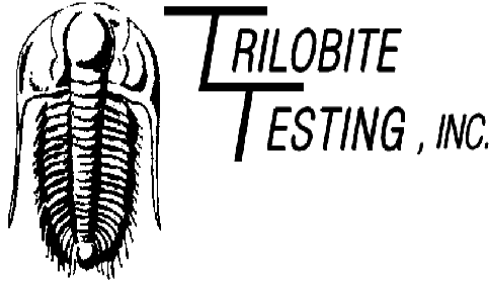
Serial #: 8875

Outside Norstar Petroleum Inc

BLU Unit #1-22

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **Norstar Petroleum Inc**

88 Inverness Cir E Unit F104
Englewood CO 80112+5514

ATTN: Brad Rine

BLU Unit #1-22

22-16s-11E Lyon,KS

Start Date: 2021.09.11 @ 10:30:00

End Date: 2021.09.11 @ 14:55:17

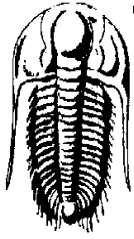
Job Ticket #: 67764 DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2021.09.13 @ 13:31:10



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc
 88 Inverness Cir E Unit F104
 Englewood CO 80112+5514
 ATTN: Brad Rine

22-16s-11E Lyon, KS
BLU Unit #1-22
 Job Ticket: 67764 **DST#: 2**
 Test Start: 2021.09.11 @ 10:30:00

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:58:57
 Time Test Ended: 14:55:17
 Interval: **3045.00 ft (KB) To 3061.00 ft (KB) (TVD)**
 Total Depth: 3061.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 1353.00 ft (KB)
 1342.00 ft (CF)
 KB to GR/CF: 11.00 ft

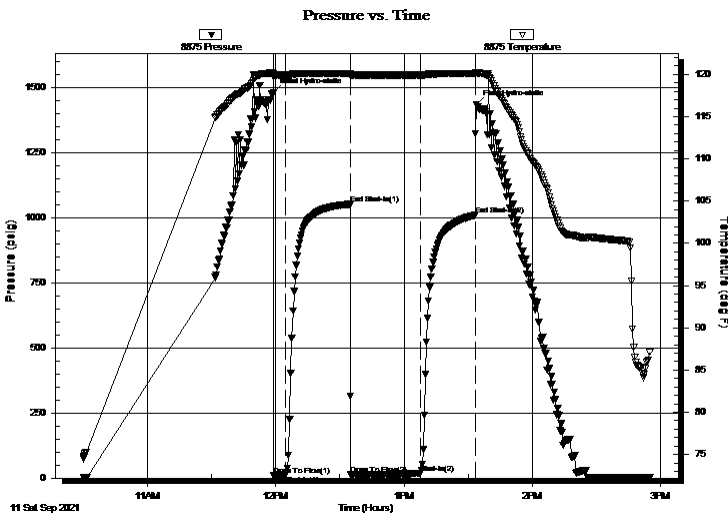
Serial #: 8875

Outside

Press@RunDepth: 17.78 psig @ 3046.00 ft (KB) Capacity: psig
 Start Date: 2021.09.11 End Date: 2021.09.11 Last Calib.: 2021.09.11
 Start Time: 10:30:01 End Time: 14:55:17 Time On Btm: 2021.09.11 @ 11:58:47
 Time Off Btm: 2021.09.11 @ 13:34:07

TEST COMMENT: 5-IF-Surface to 1/2"
 30-ISI-No Return
 30-FF-No Blow
 30-FSI-No Return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1479.54	120.13	Initial Hydro-static
1	10.81	119.72	Open To Flow (1)
6	12.45	119.90	Shut-In(1)
37	1052.70	120.08	End Shut-In(1)
37	13.27	119.83	Open To Flow (2)
69	17.78	119.91	Shut-In(2)
95	1011.45	120.14	End Shut-In(2)
96	1436.96	120.19	Final Hydro-static

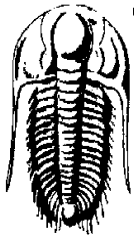
Recovery

Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.05

* Recovery from multiple tests

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Norstar Petroleum Inc
 88 Inverness Cir E Unit F104
 Englewood CO 80112+5514
 ATTN: Brad Rine

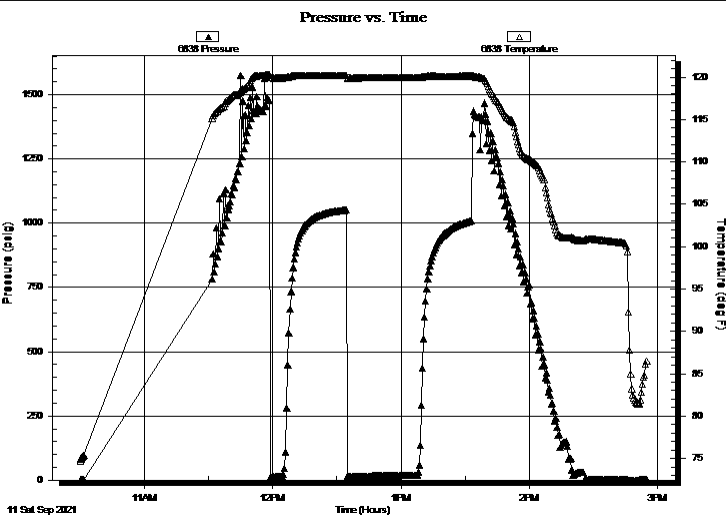
22-16s-11E Lyon, KS
BLU Unit #1-22
 Job Ticket: 67764 **DST#: 2**
 Test Start: 2021.09.11 @ 10:30:00

GENERAL INFORMATION:

Formation: **Simpson**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 11:58:57 Tester: Spencer J Staab
 Time Test Ended: 14:55:17 Unit No: 84
 Interval: **3045.00 ft (KB) To 3061.00 ft (KB) (TVD)** Reference Elevations: 1353.00 ft (KB)
 Total Depth: 3061.00 ft (KB) (TVD) 1342.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 6838 Inside
 Press@RunDepth: psig @ 3046.00 ft (KB) Capacity: psig
 Start Date: 2021.09.11 End Date: 2021.09.11 Last Calib.: 2021.09.11
 Start Time: 10:30:01 End Time: 14:55:17 Time On Btm:
 Time Off Btm:

TEST COMMENT: 5-IF-Surface to 1/2"
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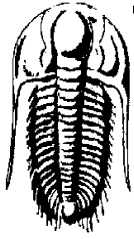


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery		
Length (ft)	Description	Volume (bbl)
10.00	OSM 100%M	0.05

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Norstar Petroleum Inc
88 Inverness Cir E Unit F104
Englewood CO 80112+5514
ATTN: Brad Rine

22-16s-11E Lyon,KS
BLU Unit #1-22
Job Ticket: 67764 **DST#: 2**
Test Start: 2021.09.11 @ 10:30:00

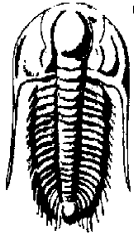
Tool Information

Drill Pipe:	Length: 2736.00 ft	Diameter: 3.82 inches	Volume: 38.78 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.75 inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 304.00 ft	Diameter: 2.25 inches	Volume: 1.50 bbl	Weight to Pull Loose:	60000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	58000.00 lb
Drill Pipe Above KB:	16.00 ft			Final	58000.00 lb
Depth to Top Packer:	3045.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	16.00 ft				
Tool Length:	37.00 ft				
Number of Packers:	1	Diameter:	6.75 inches		
Tool Comments:					

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
-------------------------	--------------------	-------------------	-----------------	-------------------	-----------------------

Change Over Sub	1.00			3025.00	
Change Over Sub	1.00			3026.00	
Shut In Tool	5.00			3031.00	
Hydraulic tool	5.00		Fluid	3036.00	
Packer	5.00			3041.00	21.00 Bottom Of Top Packer
Packer	4.00			3045.00	
Stubb	1.00			3046.00	
Recorder	0.00	6838	Inside	3046.00	
Recorder	0.00	8875	Outside	3046.00	
Perforations	12.00			3058.00	
Bullnose	3.00			3061.00	16.00 Bottom Packers & Anchor

Total Tool Length: 37.00



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Norstar Petroleum Inc
88 Inverness Cir E Unit F104
Englewood CO 80112+5514
ATTN: Brad Rine

22-16s-11E Lyon,KS
BLU Unit #1-22
Job Ticket: 67764 **DST#: 2**
Test Start: 2021.09.11 @ 10:30:00

Mud and Cushion Information

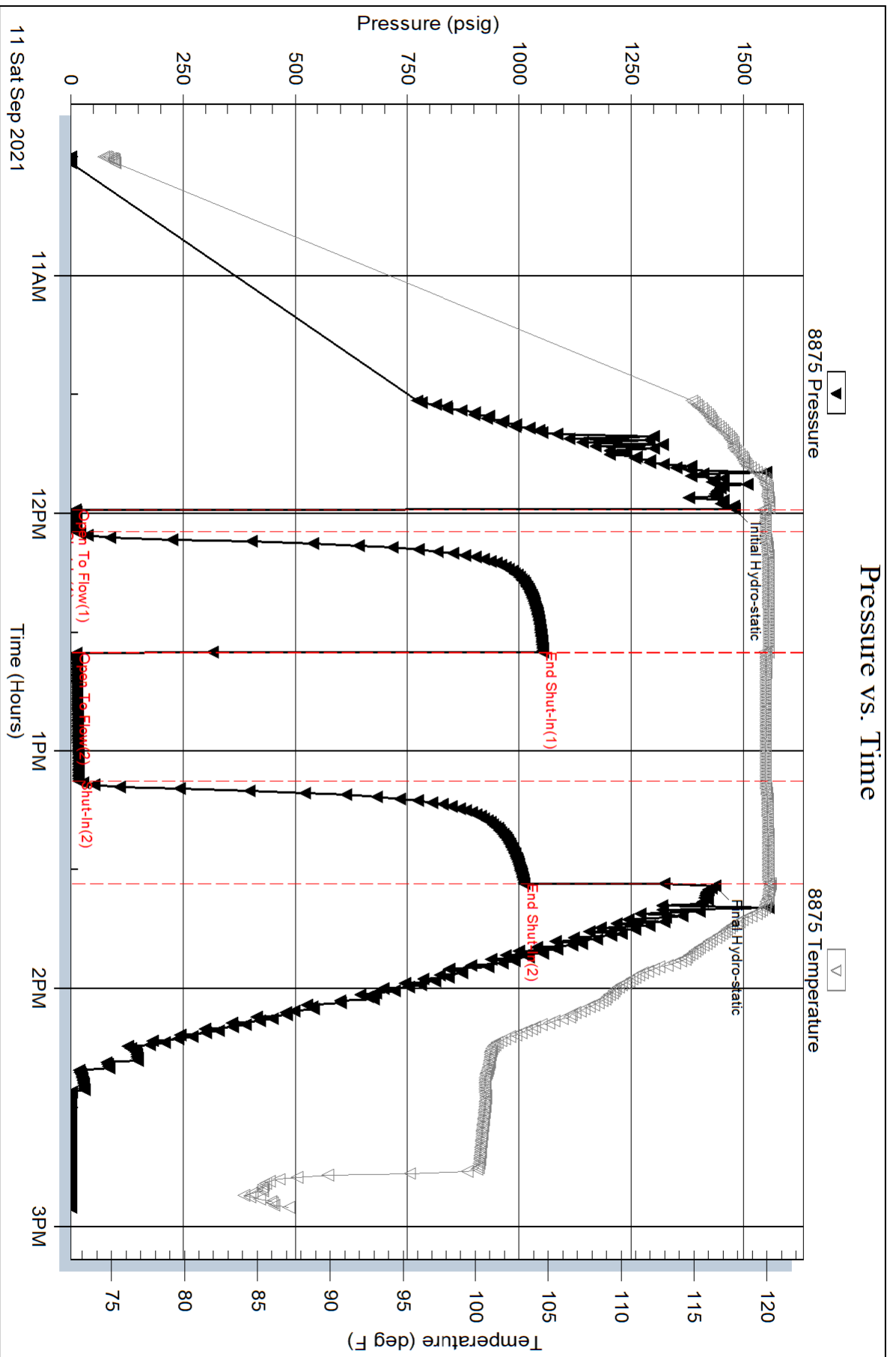
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 600.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OSM 100%M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: 3#LCM



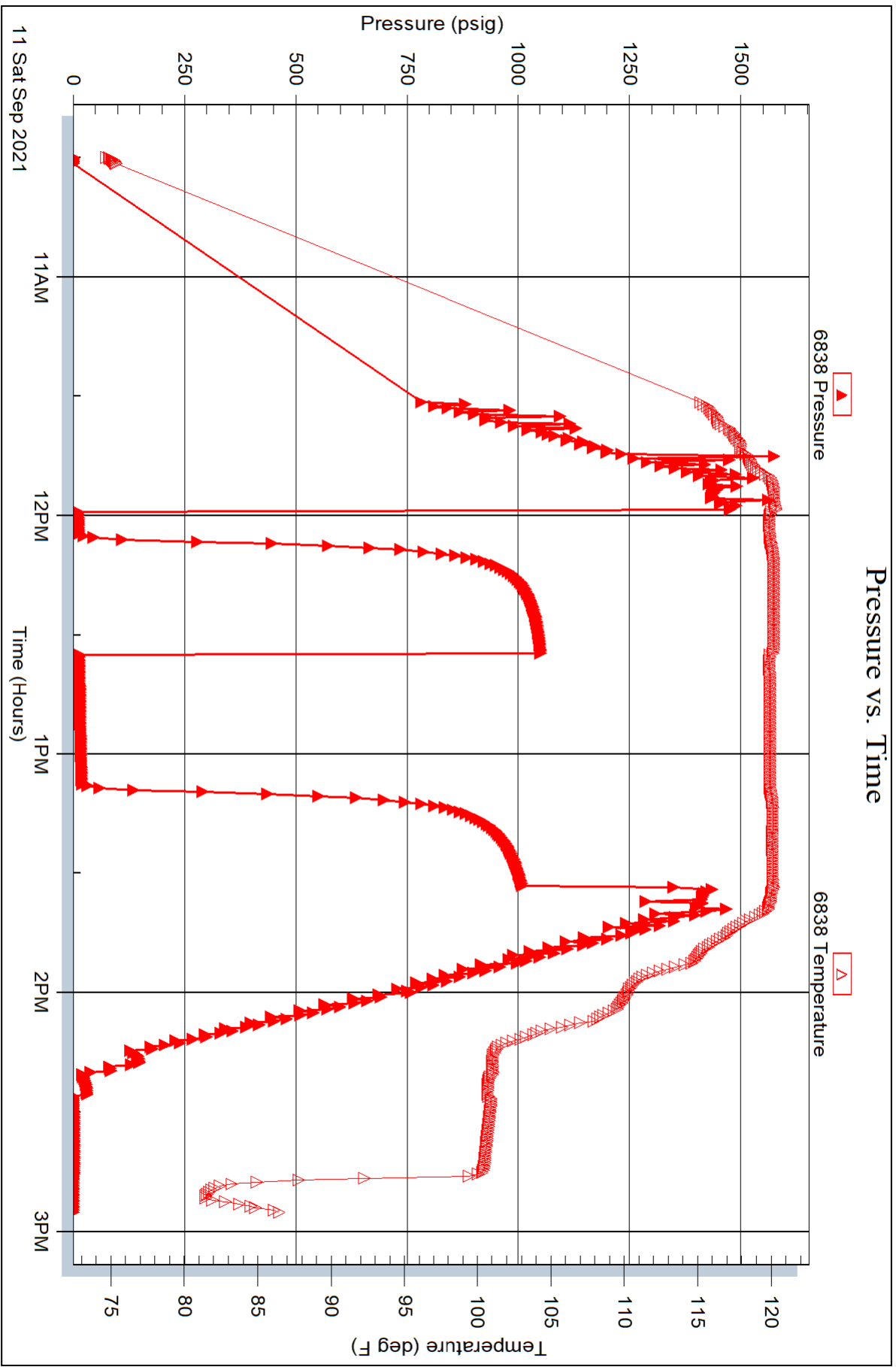
Serial #: 6838

Inside

Norstar Petroleum Inc

BLU Unit #1-22

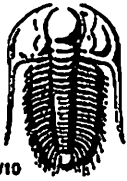
DST Test Number: 2



Triobite Testing, Inc

Ref. No: 67764

Printed: 2021.09.13 @ 13:34:31



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67763

Well Name & No. Bd U Unit # 1-22 Test No. 1 Date 09/10/2004
 Company Norstar Petroleum Inc Elevation 1353 KB 1342 GL
 Address 88 Imperness Cir E Unit 7104 Englewood CO 80112-5514
 Co. Rep / Geo. Brad Line Rig Lighthouse
 Location: Sec. 22 Twp 16 S Rge. 11 E Co. Lyon State KS

Interval Tested 3035' - 3044' Zone Tested Simpson
 Anchor Length 9' Drill Pipe Run 2736' Mud Wt. 9.0
 Top Packer Depth 3030' Drill Collars Run 304' Vis 54
 Bottom Packer Depth 3035' Wt. Pipe Run - WL 8.2
 Total Depth 3044' Chlorides 300 ppm System LCM 5#

Blow Description 17- Surface to 1/2"
150- No Return
177- No Blow
1750- No Return

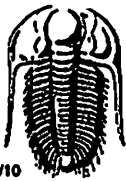
Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>OSM (Flakey)</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 123° Gravity - API RW - @ - °F Chlorides - ppm

(A) Initial Hydrostatic <u>1469</u>	<input checked="" type="checkbox"/> Test <u>1300</u>	T-On Location <u>23:10</u>
(B) First Initial Flow <u>14</u>	<input type="checkbox"/> Jars	T-Started <u>23:30</u>
(C) First Final Flow <u>14</u>	<input type="checkbox"/> Safety Joint	T-Open <u>01:18</u>
(D) Initial Shut-In <u>787</u>	<input type="checkbox"/> Circ Sub	T-Pulled <u>02:58</u>
(E) Second Initial Flow <u>16</u>	<input type="checkbox"/> Hourly Standby	T-Out <u>04:22</u>
(F) Second Final Flow <u>17</u>	<input checked="" type="checkbox"/> Mileage <u>41027</u> 354rt 442.50	Comments
(G) Final Shut-In <u>458</u>	<input type="checkbox"/> Sampler	
(H) Final Hydrostatic <u>1428</u>	<input type="checkbox"/> Straddle	
Initial Open <u>5</u>	<input checked="" type="checkbox"/> Shale Packer <u>250</u>	<input type="checkbox"/> EM Tool
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer	<input type="checkbox"/> Ruined Shale Packer
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder	<input type="checkbox"/> Ruined Packer
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility	Total <u>1992.50</u>
	Sub Total <u>1992.50</u>	MP/DST Disc't

Approved By _____ Our Representative Spencer J. Neal Thanks!
 Trilobite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

785-259-0056



TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 67764

Well Name & No. B2 U Unit #1-22 Test No. 2 Date 09/11/2021
 Company Norstar Petroleum Inc Elevation 1353 KB 1342 GL
 Address 88 Imperium Cir E Unit 7104 Englewood CO 801215574
 Co. Rep / Geo. Brad Rina Rig Lighthouse
 Location: Sec. 22 Twp 16A Rge. 11E Co. Lyon State Ks

Interval Tested 3045' - 3061' Zone Tested Jimerson
 Anchor Length 16' Drill Pipe Run 2736' Mud Wt. 9.0
 Top Packer Depth 3040' Drill Collars Run 304' Vls 60
 Bottom Packer Depth 3045' Wt. Pipe Run - WL 5.6
 Total Depth 3061' Chlorides 600 ppm System LCM 3#

Blow Description 27' Surface to 1/2"
25' No Return
77' No Blow
75' No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>10'</u>	<u>OSM</u>			<u>100</u>	
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 10' BHT 120° Gravity - API RW - @ - ° F Chlorides - ppm

(A) Initial Hydrostatic 1479 Test 1300 T-On Location 10:10
 (B) First Initial Flow 10 Jars _____ T-Started 10:30
 (C) First Final Flow 12 Safety Joint _____ T-Open 11:53
 (D) Initial Shut-In 10.52 Circ Sub _____ T-Pulled 13:28
 (E) Second Initial Flow 13 Hourly Standby _____ T-Out 14:50
 (F) Second Final Flow 17 Mileage 41027 442.50 + 40
 (G) Final Shut-In 1011 Sampler _____
 (H) Final Hydrostatic 1436 Straddle _____
 Shale Packer 250 EM Tool _____
 Extra Packer _____ Ruined Shale Packer _____
 Extra Recorder _____ Ruined Packer _____
 Day Standby _____ Extra Copies _____
 Accessibility _____ Sub Total 0
 Sub Total 2032.50 Total 2032.50

Approved By _____ Our Representative Spencer J. Stuebli
 Tribolite Testing Inc. shall not be liable for damaged of any kind of the property or personnel of the one for whom a test is made, or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statements or opinion concerning the results of any test, tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.
 785-259-0056



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

Well Name: BLU Unit #1-22 - Norstar Petroleum, Inc.
API: 15-111-20555-00-00
Location: NW-NW-SW-NE, Section 22-16S-11E
License Number: KCC # 31652
Spud Date: August 31, 2021
Surface Coordinates: 1322' FNL & 2373' FEL,
of Section
Bottom Hole Vertical Wellbore
Coordinates:
Ground Elevation (ft): 1341 Ft.
Logged Interval (ft): 2250 Ft. To: 3135 Ft. Total Depth (ft): RTD 3135 Ft. LTD 3135 Ft.
Formation: Arbuckle at Total Depth
Type of Drilling Fluid: Chemical

Region: Lyon County, Kansas
Drilling Completed: September 12, 2021
Results: D&A
Field: Wildcat

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

Operator

Company: Norstar Petroleum, Inc.
Address: 88 INverness Circle East-Unit F104
Englewood, Colorado 800112+5514

Geologist

Name: M. Bradford Rine
Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647
Address: 100 South Main, Suite #320A
Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to plug and abandon the "BLU Unit #1-22," on September 12, 2021.

Respectfully submitted,
M. Bradford Rine, geologist

Drilling Information

Rig: Lighthouse Drlg, Rig #1
Pump: Ideco Hydril 6.5 x 14
Drawworks: Skytop Brewster B550
Collars: 423' 2-1/4 x 6-1/4
Drillpipe: 4-1/2" 16.6# XH
Toolpusher: Charlie Coulter

Mud: AJ Services
Gas Detector: None
Drill Stem Tests: Trilobite (Spencer Staab)
Logs: Midwest Wireline (D. Schmidt)
Water: Farm Ponds on Location (AJ Services)
Company Representatives:
Office: Brady Pfeiffer
Field: NA

Daily Drilling Status

Date:	Operations/Depth/Comments
08-27-21	MIRT, RU @ 0'
08-28-21	Shut Down
08-29-21	Shut Down
08-30-21	Shut Down
08-31-21	Spud @ 0'
09-01-21	Prepare to Run Surface Casing @ 250'
09-02-21	Shut Down Due to Covid @ 250'
09-03-21	Shut Down Due to Covid @ 250'
09-04-21	Shut Down Due to Covid @ 250'
09-05-21	Shut Down Due to Covid @ 250'
09-06-21	Shut Down Due to Covid @ 250'
09-07-21	Prepare to Drill Out @ 250'
09-08-21	Drilling @ 1618'
09-09-21	Trip in Hole with New Bit @ 2562'
09-10-21	Drilling @ 2917'
09-11-21	Drilling @ 3051'
09-12-21	Logging @ 3135' RTD Plug in PM.

	Results: D&A			(Well A) Oil	(Well B) D&A				
	Norstar Petroleum, Inc.			J.O. Farmer, Inc.	Dunne-Gardner				
	BLU Unit #1-22			Prellwitz #1	Lowder #1				
	1322'FNL & 2373'FEL			NE-NE-SE	SW-SE-NW				
	Sec. 22-16S-11E			Sec. 16-16S-11E	Sec. 22-16S-11E				
	1353 KB		1397 KB	1335 KB	Well A	Well B			
Formations	Sample	E-Log	Datum	E-Log	Datum	E-Log	Datum	Comparison(s)	
Lansing	NC	1297	56	1342	55	1294	41	1	15
Kansas City	NC	1453	-100	1505	-108	1438	-103	8	3
Swope	NC	1653	-300	1710	-313	1623	-288	13	-12
Pleasanton	NC	1674	-321	1724	-327	1663	-328	6	7
Mississippian	2312	2310	-957	2375	-978	2315	-980	21	23
Kinderhook Sh.	2723	2721	-1368	2759	-1362	2717	-1382	-6	14
Hunton	2868	2868	-1515	2902	-1505	2861	-1526	-10	11
Viola	2944	2950	-1597	2980	-1583	2951	-1616	-14	19
Simpson Dol.	3032	3033	-1680	3060	-1663	3032	-1697	-17	17
Simpson Sd.	3052	3050	-1697	3076	-1679	3045	-1710	-18	13
Arbuckle	3096	3095	-1742	NP	NA	NP?	NA	NA	NA
Pre-Cambrian	NR	NR	NA	3106	-1709	NC	NA	NA	NA
Total Depth	3135	3135	-1782	3115	-1718	3051	-1716	-64	-66

Casing Record, Bit Record, Deviation Surveys

CASING:

Conductor: None

Surface: Ran 230' 8-5/8" 23# casing. (Elite) Cement with 140 sx Common, 3%CC, 2% gel, 1/4# flocele. Plug down at 8:28 PM, on August 31, 2021. Cement did circulate.

Production: P&A (Elite Cementing) Plug as follows: 15 sx at 3130', 15 sx at 2860', 15 sx at 1570', 30 sx at 270', 25 sx from 60' to surface, 15 sx in rathole and 10 sx in mousehole. Plug down at 12:30 PM on 9/12/2021. Dump and clean tanks. Rig released at 1 PM on 9/12/2021

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4			0	250	1.00
2	7-7/8	Smith	616D6 rb	250	2562	25.75
3	7-7/8	JZ	KO1079	2562	3135	20.40

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:
0.75*	250'	1.00*	2562'
0.25*	776'	1.50*	3044'
0.75*	1273'	1.00*	3135'
0.75*	1773'		

PIPE STRAPS:

Difference:	Depth:
+0.01'	2562'
-0.70'	3135'

MUD UP:

Displ & Mud Up @ 2242'

DST #1: 3035-3044 (Simpson)

Times: 05-30-30-30

Initial Open: Wk Blow, built to 1/2" i.b.

Final Open: No Blow

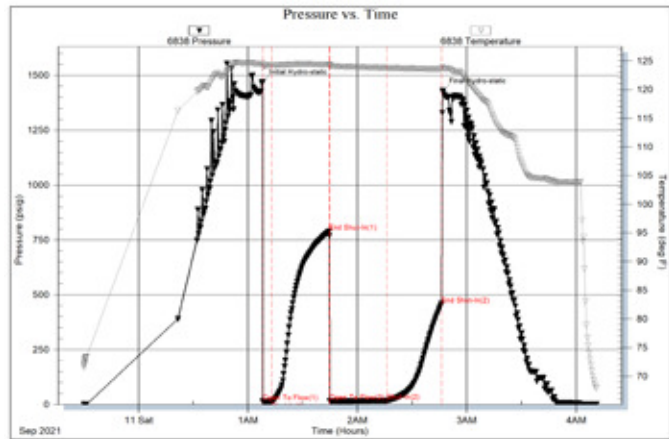
Rec: 10' Oil Specked Mud (flakey dead oil)

IHP: 1469 FHP: 1428

IFP: 14-14 FFP: 16-17

ISIP: 787 FSIP: 458

BHT: 123°F



DST #2: 3045-3061 (Simpson)

Times: 05-30-30-30

Initial Open: Wk Blow, built to 1/4" i.b.

Final Open: No Blow

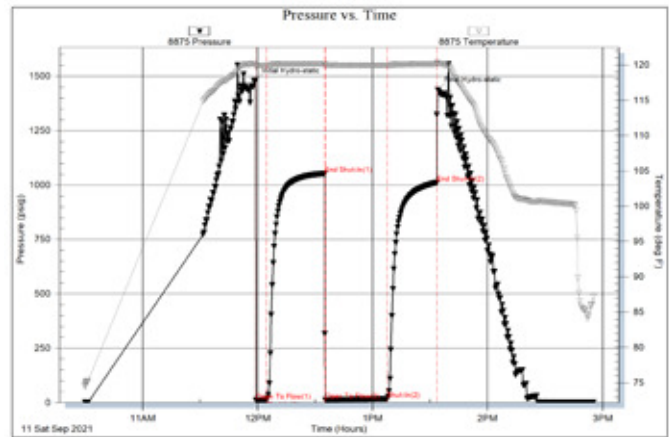
Rec: 10' Oil Specked Mud

IHP: 1479 FHP: 1436

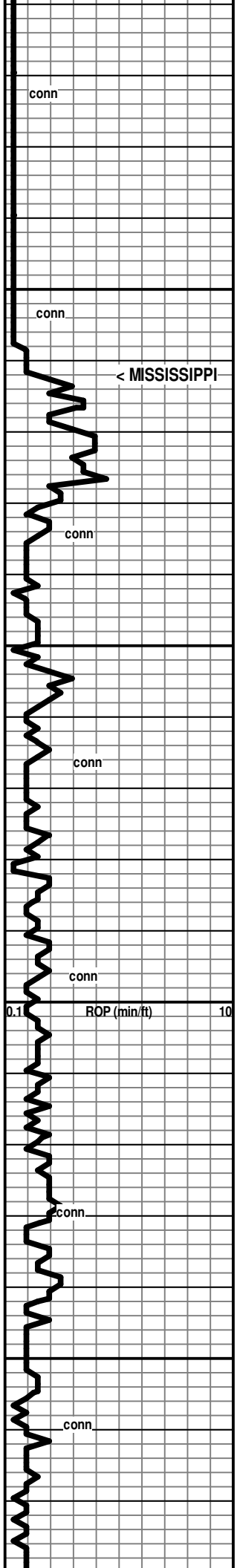
IFP: 10-12 FFP: 13-17

ISIP: 1052 FSIP: 1011

BHT: 120°F



@ 2260 ft. begin 20 ft. samples!



2300

2350

2400

2450



90% Sh gy-pl gm-dk gy-blk; 10% Ls cr-tan, fn xln, dns, silty text in pt, trace of loose pyr

90% Sh gy-pl gm-dk gy-blk; 10% Ls cr-tan, fn xln, dns, silty-sdy text in pt, trace of loose pyr

<----- 2312 (-959)

Ls & Dol Ls & Dol, cr-tan, fn xln, dns, sdy in pt, cherty: fresh, cr, subtransl

Dol cr-tan, vfn-fn xln, pr-fr xln por, sucrosic text to subsucr. Rr fresh chert

Dol cr-tan, vfn-fn xln, pr-fr xln por, scatt pp pores, sucrosic text to subsucr. Rr fresh chert

Ls & Dol Ls wh-cr, fn xln, pr-fr vis xln por

Ls & Dol Ls wh-cr, fn xln, pr-fr vis xln por, foss, cherty, fresh, wh: *Spls 50% shales (slough from above?)

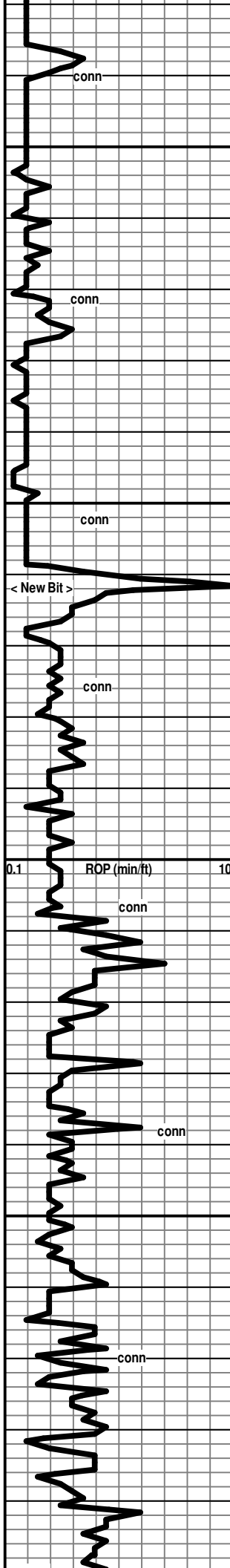
75% Shales, gy-dk gy-blk; 25% Ls & dol ls as above, some fresh chert

85% Shales, gy-dk gy-blk, gmish; 15% Ls/dol Ls as above

Spls 80-85% Shales, pl gm-gy-dk gy-blk; 15-20% Ls and dol, cr-tan, vfn-fn xln, pr-fr xln por to dns, sli cherty

Mud Check, Drlg @ 2378':

Vis	Wt	WL	PV	YP
32	8.7	12	6	5
Chl	Hd	pH	LCM	Solids
260	48	11.0	0	3



2500

2550

2600

2650

2700

85% Shales, pl grn-grn, gy-dk gy-blk; 15% Ls & Dol Ls & Dol, cr-tan, vfn-fn xln, pr-fr-gd xln por, foss in pt, incr in fresh chert, subopaq-opaq

85% Shales, pl grn-grn, gy-dk gy-blk; 15% Ls & Dol Ls & Dol, cr-tan, vfn-fn xln, pr-fr-gd xln por, foss in pt, incr in fresh chert, subopaq-opaq, This interval could be dolom & limey chert!

2690' spl cleaning up!: 60% Ls & Dol & chert, chert is fresh, wh-cr, subtransl-subop-opaq; 40% shales

70% Ls & Dol & chert, chert is fresh, wh-cr, subtransl-subop-opaq; 30% shales

75% Ls/Dol Ls/Dol, cr-tan, vfn-fn xln, dns to pr vis xln por, abund chert: fresh to silty text, wh-pl gy. subtransl-opaq; 25% shales

60% Limey Dol/Dol Ls, cr-tan, vfn-fn xln, dns to pr vis xln por, abund chert: fresh, wh-pl gy. subtransl-opaq; 40% shales with scatt embedded pyr specks

25% Limey Dol/Dol Ls, cr-tan, vfn-fn xln, dns to pr-fr vis xln por, abund chert: fresh, wh-pl gy. subtransl-opaq; 75% shales, pl gy-gy-grnish, silty in pt, with scatt embedded pyr specks

60% Ls cr-tan. fn xlp. chalky to subchalky in pt. dns in pt. sli foss

* Bit Trip @ 2562 Ft.

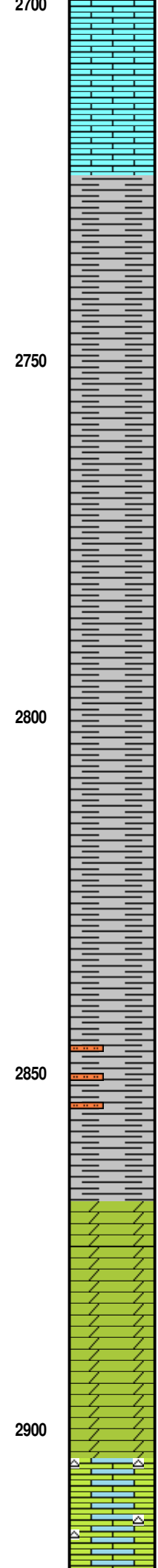
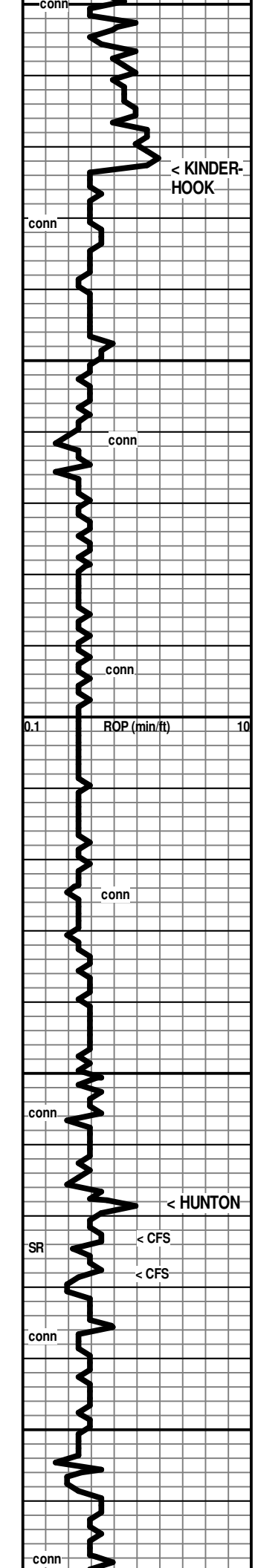
7:00 AM, September 09, 2021

* Pipe Strap @ 2562 Ft.:
Strap: 2583.08
Board: 2583.07
Difference: 0.01'

* Down for Repairs: Generator!

Mud Check, Drlg @ 2672':

Vis	Wt	WL	PV	YP
42	8.9	11.6	7	4
Chl	Hd	pH	LCM	Solids
500	72	10.5	0	4.5



in pt; 40% shales

50% Ls cr-tan, dns, sdy in pt, subchalky in pt; Sh gy-dk gy-blk

← 2723 (-1370)

Shale pl gy-pl grnish gy with some brwonish pcs, soft to subsoft, abund pcs rounded, subsilty in pt

Shale pl gy-pl grnish gy with some brwonish pcs, soft to subsoft, abund pcs rounded, some bladed pcs, subsilty in pt

Shale pl gy-pl grnish gy with some brwonish pcs, soft to subsoft, abund pcs rounded, some bladed pcs, subsilty in pt

Shale pl gy-pl grnish-gy with some brwonish pcs, soft to subsoft, abund pcs rounded, some bladed pcs, subsilty in pt

* Begin 10' Samples!

Shale pl gy-pl grnish-gy with some brwonish pcs, soft to subsoft, abund pcs rounded, some bladed pcs, subsilty in pt

Shale pl gy-pl grnish-gy with some brwonish pcs, soft to subsoft, abund pcs rounded, some bladed pcs, subsilty in pt, some siltstone

Shale pl gy-pl grnish-gy with some brwonish pcs, soft to subsoft, abund pcs rounded, some bladed pcs, subsilty in pt

← 2868 (-1515)

Dol wh-pl gy, fn-md xln, sucrosic-subrhombic text, some rhombic, pr-fr xln por, pr-fr-gd crush

Show Descr. ———>

Dol wh-pl gy, fn-md xln, sucrosic-subrhombic text, some rhombic, pr-fr xln por, pr-fr-gd crush

Show Descr. ———>

Dol wh-pl gy, fn-md xln, sucrosic-subrhombic text, some rhombic, pr-fr xln por, pr-fr-gd crush

Show Descr. ———>

Dol wh-pl gy, fn-md xln, sucrosic-subrhombic text, some rhombic, pr-fr xln por, pr-fr-gd crush, barren

Dol & Limey Dol, cr-tan, fn xln, silty-subsucr text, pr-frxln por, scatt vugs, abund chert: fresh, wh, opa-q-subop, foss in pt

* Mixing and Adding Mud to yield as per Operator spec's!

* Mixing and adding Mud!

Mud Check, Drlg @ 2872':

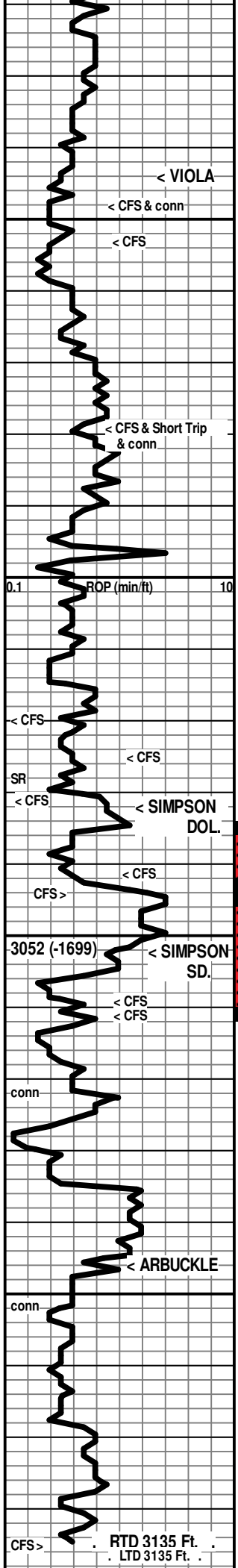
Vis	Wt	WL	PV	YP
54	9.0	8.2	13	14
Chl	Hd	pH	LCM	Solids
300	52	10.0	5	5.2

[< 2873' CFS: Mod+ Odor, Sli sour smell, No Fluor, abund spotty-stringy black tarry & Asphaltic Oil/Stn, NSFO, some vis barren pores]

[< 2878' CFS: Wk Odor, No Fluor, abund spotty-stringy black tarry & Asphaltic Oil/Stn, NSFO, some vis barren pores]

[< 2890' Spl: V Wk Odor, No Fluor, much fewer pcs with Shows of tarry to stringy black Oil/Stn, NSFO, mostly barren]

7:00 AM, September 10, 2021



2950
2950
3000
3050
3100

Dol & Limey Dol, cr-tan, fn xln, silty-subsucr text, pr-frxln por, scatt vugs, abund chert: fresh, wh, opa-q-subop, foss in pt

Dol cr, fn xln, sucrosic text, pr-fr xln por, scatt vugs, some fresh foss chert, wh, opa-q

Sh gy (trace)

← 2944 (-1591)

Dol cr-gy, fn xln, fr-gd xln por, sucrosic-subrhombic, scatt vugs

???

Dol, cr-tan-brn-gy, fn xln, subsucrosic-sucr., pr-fr-gd xln por with scatt vugs

Dol, cr-tan-brn-gy, fn xln, subsucrosic-sucr., sdy in pt, pr-fr xln por, chert: fresh, opa-q, cr-tan, foss in pt

Dol, cr-tan-brn, fn xln, subsucrosic-sucr., silty-sdy in pt, pr-fr xln por, some chalky/limey cement, chert: fresh, opa-q, cr-tan, foss in pt

Dol, cr-tan-brn, fn xln, subsucrosic-sucr., silty-sdy in pt, pr-fr xln por, some chalky/limey cement, chert: fresh, opa-q, cr-tan, foss in pt

Dol, cr-tan, fn xln, subsucrosic-sucr. some subrh., pr-fr xln por,

* moderate am't of "blades" of dk gy-blk shale in circ spl!

← 3020 (-1667)

Dol tan-brn, fn xln, pr-fr vis xln por, some dns, subsucr-sucr.

Dol tan-brn, fn xln, pr-fr vis xln por, some dns, subsucr-sucr.

Sh pl grnsh gy-pl grn, silty in pt

← 3032 (-1679)

Sd tan-brn, vfn-fn grn, gd sort, subrd-subanglr, pr-fr friable, some gd fri, calc in pt, mix of sharp-rd'd clusters, mostly pr-fr vis intergrnlr por, some gd por, Some Dol/Dol sd in 3042-3044' spl, brn, pr-fr xln por with scatt pp pores, pr-fr crush, suc.

Show Descr. →

3050' spl: Sd & Quartz, cr-blk, fn grn sd, well sort, subanglr-subrd, pr-fr fri, black with shale and dead oil, some black sharp qtz, opa-q, some dk shale

3055' & 3059' spl: Sd, clean to dirty, wh-cr-gy, mixed fn grn-md, fr-gd sort, mostly subrd'd, sharp to subrd to rd'd clusters, pr-fr-gd fri., Sd reservoir improves with depth

3061' CFS: Sd, mostly "clean", wh-cr-gy, mixed fn grn-md, fr-gd sort, mostly subrd'd, mostly subrd to rd'd clusters, pr-fr-gd fri., Sd reservoir improves with depth

Show Descr. →

3070' & 3080' spl: Sd, mostly "clean" to "dirty," wh-cr-gy, mixed fn grn-md, fr-gd sort, mostly subrd'd, mostly subrd to rd'd clusters with some sharp clusters, pr-fr-gd fri.,

3090' spl: 90% clean white sand, subrd to rd clusters, fn-md grn, fr-gd sort, fr-gd fri, fr-gd intergrnlr por, some dk-blk pyritic shale

Show desc. →

3100' spl: Mostly Sds, sharp to rd'd clusters, vfn-fn-md grn, pr-fr por, pr-fr fri, abund pyritic sd, abund sdy pyrite, scatt glauc specks, some subvitreous qtz, some gy dk shale, [Tr dead flakey specks]

Arb. ← 3096 (-1743)

3110' spl: Mostly Dol, cr-tan, vfn-fn xln, subsucr-sucrosic, mostly pr vis por, some fr xln por, some dns, abund chert: fresh, wh-cr, trans-opaq, foss in pt, some shale and sand as above [NS]

Mostly Dol, cr-tan, vfn-fn xln, subsucr-sucrosic, mostly pr vis por, Rr fr xln por, some dns, abund chert: fresh, wh-cr, trans-opaq, ool in pt; 20% Shale pl gy-pl grn

*[<2960' spl: tray had a few pcs of Dol (looked just like the T/Hunton pcs above) with spots of Tar/Asphalt, mostly barren pores] Likely from not cleaning re-used spl cups!

DST #1: 3035-3044 (Simpson)
Times: 05-30-30-30
Initial Open: Wk Blow, built to 1/2" i.b.
Final Open: No Blow
Rec: 10' Oil Specked Mud (flakey dead oil)
IHP: 1469 FHP: 1428
IFP: 14-14 FFP: 16-17
ISIP: 787 FSIP: 458
BHT: 123°F

* Short Trip @ 2979 Ft. to prepare for DST's below. Pulled 10 Stands!

DST #2: 3045-3061 (Simpson)
Times: 05-30-30-30
Initial Open: Wk Blow, built to 1/4" i.b.
Final Open: No Blow
Rec: 10' Oil Specked Mud
IHP: 1479 FHP: 1436
IFP: 10-12 FFP: 13-17
ISIP: 1052 FSIP: 1011
BHT: 120°F

[3041' CFS: Stg Odor, No fluor, Mod-Gd shows of Dk Brn Oil (some bleeding, some on crush): mix of FO, NVL oil, thick hvy tarry oil, deadish oil, abund dk stnl
[3044' CFS: Stg Odor, No fluor, Mod-Gd shows of Dk Brn Oil (some bleeding, some on crush): mix of FO, NVL oil, thick hvy tarry oil, deadish oil, abund dk stn. *In mix of Dol, Dol Sd, Sdy Dol, Sd]

7:00 AM, September 11, 2021
[3050' spl: Mild Odor, some black sd, NSFO, trace of dead oil, No bleeding, or tar]
[3059' Spl: Mod Odor, No fluor, abund pcs with blk asphaltic matrix, with scatt trace to sli shows of dk hvy FO & NVL oil, abund barren pcs from 3050 to 3059.]
[3061' Spl: Mild Odor, No fluor, Mod am't pcs with blk asphaltic matrix, with scatt shows of dk hvy FO & NVL oil, incr'd barren pcs from 3059-3061.

[3070' Spl: Mild Odor, No fluor, Mod am't pcs with blk asphaltic to DO matrix, incr'ing barren pcs.

[3080' spl: Fnt Odor, Mod am't pcs with blk asphaltic to DO matrix, incr'ing barren pcs.]
[3090' spl: No Oder, few pcs with blk asphaltic to flakey to DO matrix, 90% barren pcs.]

Mud Check, Drlg @ 3053':

Vis	Wt	WL	PV	YP
60	9.0	6.8	27	34
Chl	Hd	pH	LCM	Solids
600	68	10.0	3	5.2

Mud Check, Drlg @ 3121':

Vis	Wt	WL	PV	YP
47	9.1	8.5	18	7
Chl	Hd	pH	LCM	Solids
550	48	10.0	3	6.0

Total Depth 3135 ft., Reached at 10:00 PM, September 11, 2021!

