

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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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 2698

Date	Sec.	Twp.	Range	County	State	On Location	Finish
1-29-22	31	8	12	Osborne	KS		12:00 pm

Location LORAG 13 1/2 N 1/2 W

Lease Regier	Well No. 2	Owner
Contractor White night		To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Type Job SURFACE		
Hole Size 12 1/4	T.D. 215	Charge To Bruce Oil Co.
Csg. 8-8	Depth 212	Street
Tbg. Size	Depth	City
Tool	Depth	State
Cement Left in Csg. 15	Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.
Meas Line	Displace 12 1/2	Cement Amount Ordered 200.4 89/20 3-2

EQUIPMENT

Pumptrk 17 No.	Cementer Helper	Bill	Common 120
Bulktrk No.	Driver	CRAIG	Poz. Mix 30
Bulktrk 14 No.	Driver	Jordan	Gel. 3
	Driver		Calcium 6

JOB SERVICES & REMARKS

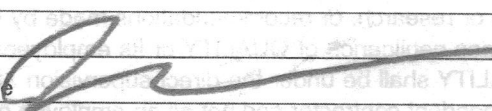
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
	Sand
RAN SJH rate 212	Handling 800
Cement 150.4	Mileage

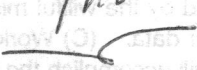
FLOAT EQUIPMENT

	Guide Shoe
	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down

Pumptrk Charge **Surface**
Mileage **36**

Tax
Discount
Total Charge

X Signature 

Thanks 

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 2983

Date	3-8-22	Sec.	Twp.	Range	County	State	On Location	Finish
					Osborne	Ks		4:00 PM

Lease Regier
Well No. 2
Owner To Quality Oilwell Cementing, Inc.
Location Lucas - 13 1/2 N, w/ Into

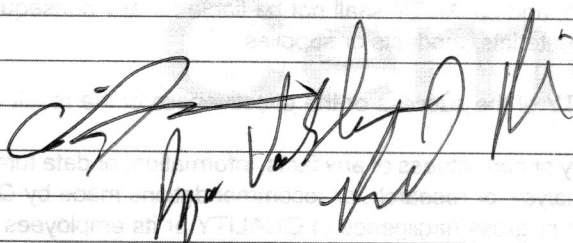
Contractor	Chito's well Service	Charge To	Bruce oil
Type Job	Port Collar	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	

Hole Size	5 1/2"	T.D.		Street	
Csg.	2 7/8"	Depth	1000'	City	State
Tbg. Size	2 7/8"	Depth	1000' 994'	The above was done to satisfaction and supervision of owner agent or contractor.	
Tool	Port Collar	Shoe Joint		Cement Amount Ordered	250 QMDC 1/4# Flo-seal
Cement Left in Csg.		Displace	4 BLS H2O	500# gel on side	

EQUIPMENT			
Pumptrk	18	No.	Cement Helper Dave
Bulktrk	19	No.	Driver Rick
Bulktrk	piu	No.	Driver Clayton
JOB SERVICES & REMARKS			
Remarks:	RBP @ 2700' Circulate		
Rat Hole	oil out of the hole. test		
Mouse Hole	plug to 800#. Held.		
Centralizers	994'		
Baskets	Locate port Collar @ 994'		
D/V or Port Collar	pressure to 800#. Tool		
	Closed open tool + Establish a blow pump 10 sx gel (500#) + 250 sx Cement + Displaced w/ 4 BLS.		
	Closed tool + pressure to 800#		
	Run 5 JTS + wash clean the short way.		
	Cement did Circulate		

Common	250 80/100 Qmge
Poz. Mix	
Gel.	500#
Calcium	
Hulls	
Salt	
Flowseal	50
Kol-Seal	
Mud CLR	48
CFL-117 or CD110 CAF	38
Sand	
Handling	255
Mileage	

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	part collar job	Tax	
Mileage	36	Discount	
Thanks		Total Charge	
			

X Signature

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 2960

Cell 785-324-1041

Date	2-5-22	Sec.	31	Twp.	8	Range	12	County	Osborne	State	Ks	On Location		Finish	11:45 AM
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Location Luray - 13 1/2 N, w/Into

Lease	Regier	Well No.	2	Owner	To Quality Oilwell Cementing, Inc.
Contractor	White Knight	You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.			

Type Job	Longstring	Charge To	Bruce oil
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Hole Size	7 7/8"	T.D.	3054'
Csg.	5 1/2" used 17#	Depth	3046'

Tbg. Size		Depth		City	State
Tool	Port Collar	Depth	1017'	The above was done to satisfaction and supervision of owner agent or contractor.	

Cement Left in Csg.	33.64	Shoe Joint	33.64'	Cement Amount Ordered	130 Com 10% Salt
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Meas Line		Displace	69 3/4 BLS	1/4# Flo-seal	500 gal mud Clear 48
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EQUIPMENT			Common	30
Pumptrk	16	No. Cementer Helper	David	Poz. Mix
Bulktrk	1	No. Driver	Doug Clayton	Gel.
Bulktrk	p.u.	No. Driver	Rick	Calcium

JOB SERVICES & REMARKS

Remarks:		Hulls	
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Rat Hole	305x	Salt	11
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Mouse Hole		Flowseal	32#
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Centralizers	1, 3, 49	Kol-Seal	
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Baskets	2, 4, 50	Mud CLR 48	500 gal
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D/V or Port Collar	#50 1017'	CFL-117 or CD110 CAF 38	
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Pipe on bottom. Break Circulation for 45 mins. Shut down Drop Ball + Set pack triplex shoe @ 900 #PSI	Sand	Handling	1/41
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FLOAT EQUIPMENT

Pump 500 gal mud Clear 48 plug Rathole Hook to Casing + mix 100 ex Cement. Shut down wash pump + lines. Released plug + Displaced w/ 69 3/4 BLS. Released + held.	Guide Shoe	Triplex Shoe	
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	Centralizer	3	
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	Baskets	3	
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	AFU Inserts	Port Collar	
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	Float Shoe		
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	Latch Down	1	
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Lift pressure 600 #			
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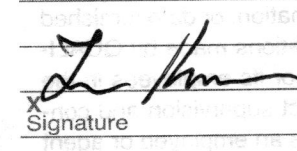
Land plug to 1300 #	Pumptrk Charge	prod string	
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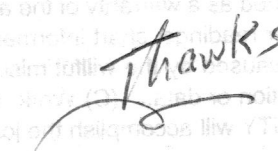
	Mileage	36	
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	Tax		
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	Discount		
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	Total Charge		
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Signature 

Thanks 



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Bruce Oil Company LLC

31-8-12w Osborne,KS

1704 Limestone Rd McPherson,KS 67460

Regier#2

ATTN: Bob Peterson

Job Ticket: 68563

DST#: 1

Test Start: 2022.02.03 @ 11:20:00

GENERAL INFORMATION:

Formation: **LKC A**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:30:00

Time Test Ended: 19:57:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Nathan Aneas

Unit No: 71

Interval: 2999.00 ft (KB) To 3029.00 ft (KB) (TVD)

Reference Elevations: 1773.00 ft (KB)

Total Depth: 3029.00 ft (KB) (TVD)

1768.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 21.71 psig @ 3000.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.02.03

End Date: 2022.02.03

Last Calib.: 2022.02.03

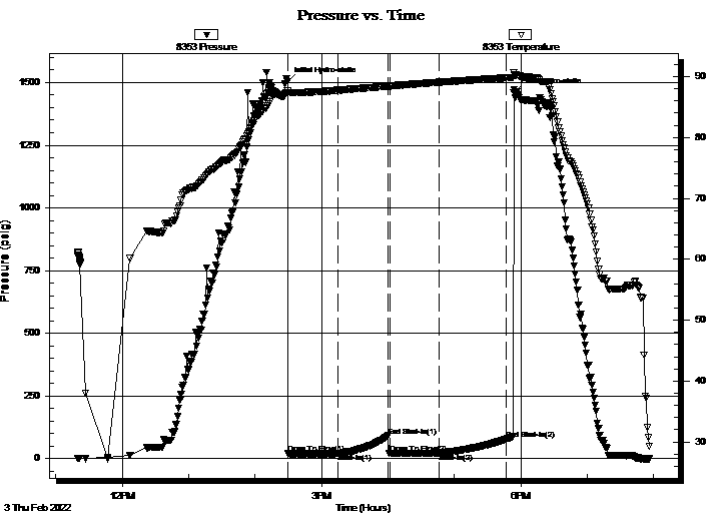
Start Time: 11:20:01

End Time: 19:57:00

Time On Btm: 2022.02.03 @ 14:29:15

Time Off Btm: 2022.02.03 @ 17:53:45

TEST COMMENT: 45:IF- Weak surface blow , built to 1/4 inch in 5 min, final blow is 1/2 inch
 45:IS- No blow back
 45:FF- No blow
 60:FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1502.50	87.64	Initial Hydro-static
1	19.12	87.37	Open To Flow (1)
46	19.94	87.77	Shut-In(1)
91	91.18	88.44	End Shut-In(1)
93	20.32	88.45	Open To Flow (2)
137	21.71	89.09	Shut-In(2)
198	77.05	89.81	End Shut-In(2)
205	1459.52	90.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 80%M 20%O	0.05

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Bruce Oil Company LLC
 1704 Limestone Rd McPherson, KS 67460
 ATTN: Bob Peterson

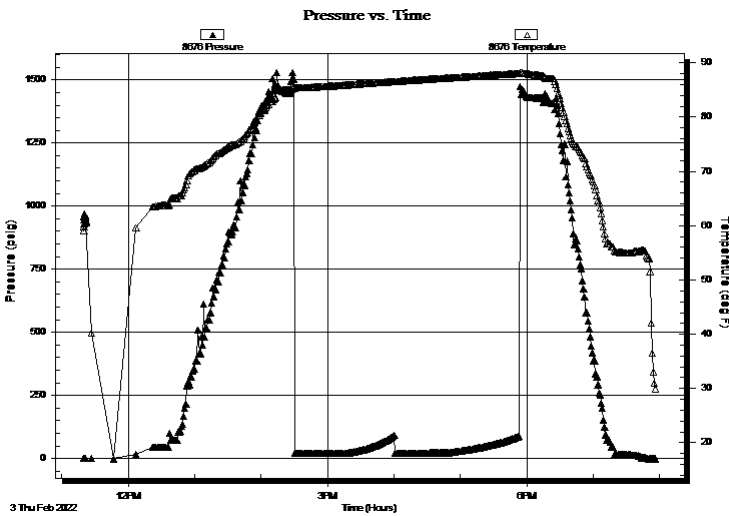
31-8-12w Osborne, KS
Regier#2
 Job Ticket: 68563 **DST#: 1**
 Test Start: 2022.02.03 @ 11:20:00

GENERAL INFORMATION:

Formation: **LKC A**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 14:30:00
 Time Test Ended: 19:57:00
 Interval: **2999.00 ft (KB) To 3029.00 ft (KB) (TVD)**
 Total Depth: 3029.00 ft (KB) (TVD)
 Hole Diameter: 7.87 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Nathan Aneas
 Unit No: 71
 Reference Elevations: 1773.00 ft (KB)
 1768.00 ft (CF)
 KB to GR/CF: 5.00 ft

Serial #: 8676 **Outside**
 Press@RunDepth: psig @ 3000.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.02.03 End Date: 2022.02.03 Last Calib.: 2022.02.03
 Start Time: 11:20:01 End Time: 19:56:15 Time On Btm:
 Time Off Btm:

TEST COMMENT: 45:IF- Weak surface blow , built to 1/4 inch in 5 min, final blow is 1/2 inch
 45:IS- No blow back
 45:FF- No blow
 60:FS- No blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
10.00	OCM 80%M 20%O	0.05

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bruce Oil Company LLC

31-8-12w Osborne,KS

1704 Limestone Rd McPherson,KS 67460

Regier#2

Job Ticket: 68563

DST#: 1

ATTN: Bob Peterson

Test Start: 2022.02.03 @ 11:20:00

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: 41.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.39 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	OCM 80%M 20%O	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:

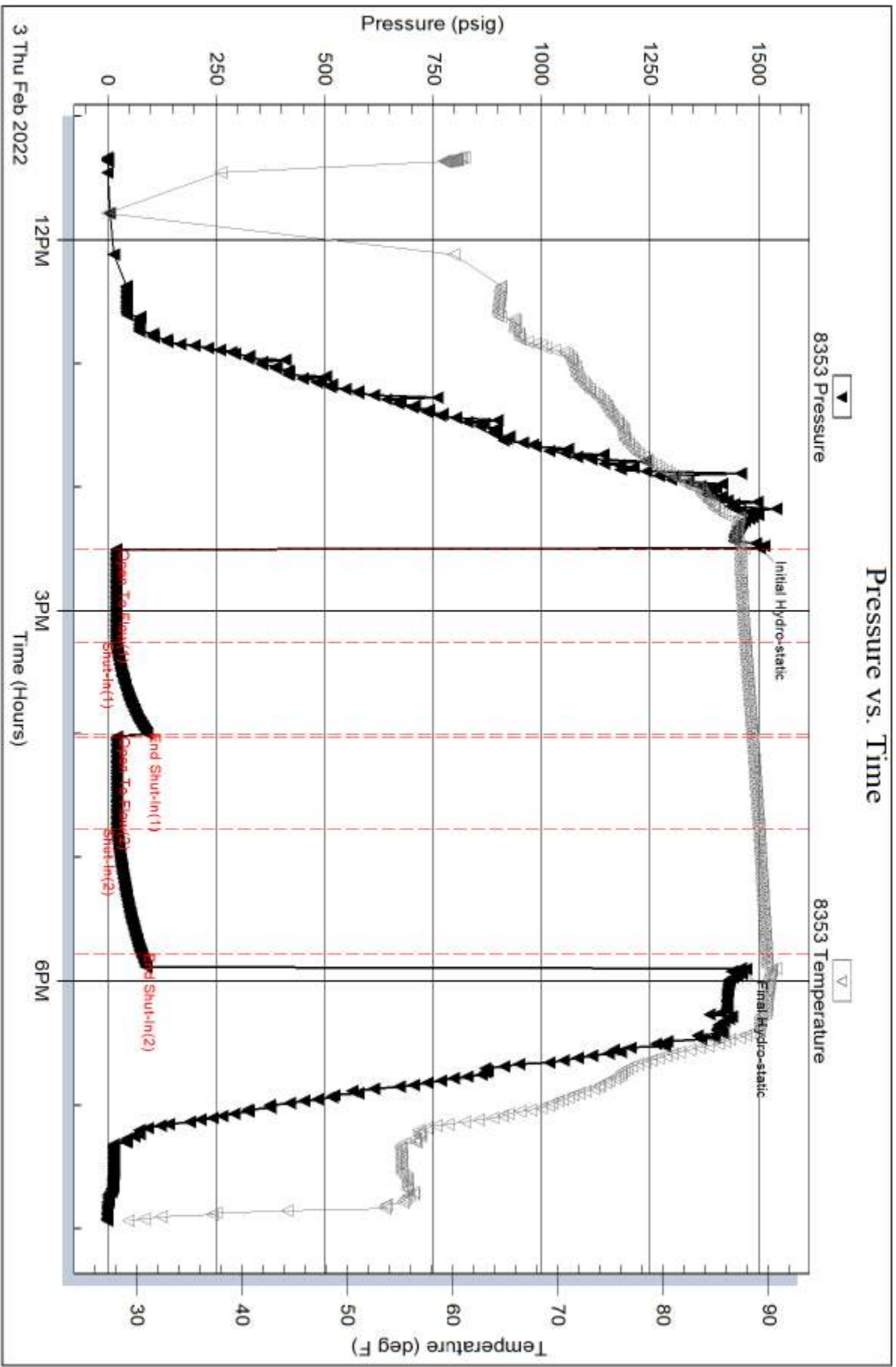
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Inside

Bruce Oil Company LLC

Regier#2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68563

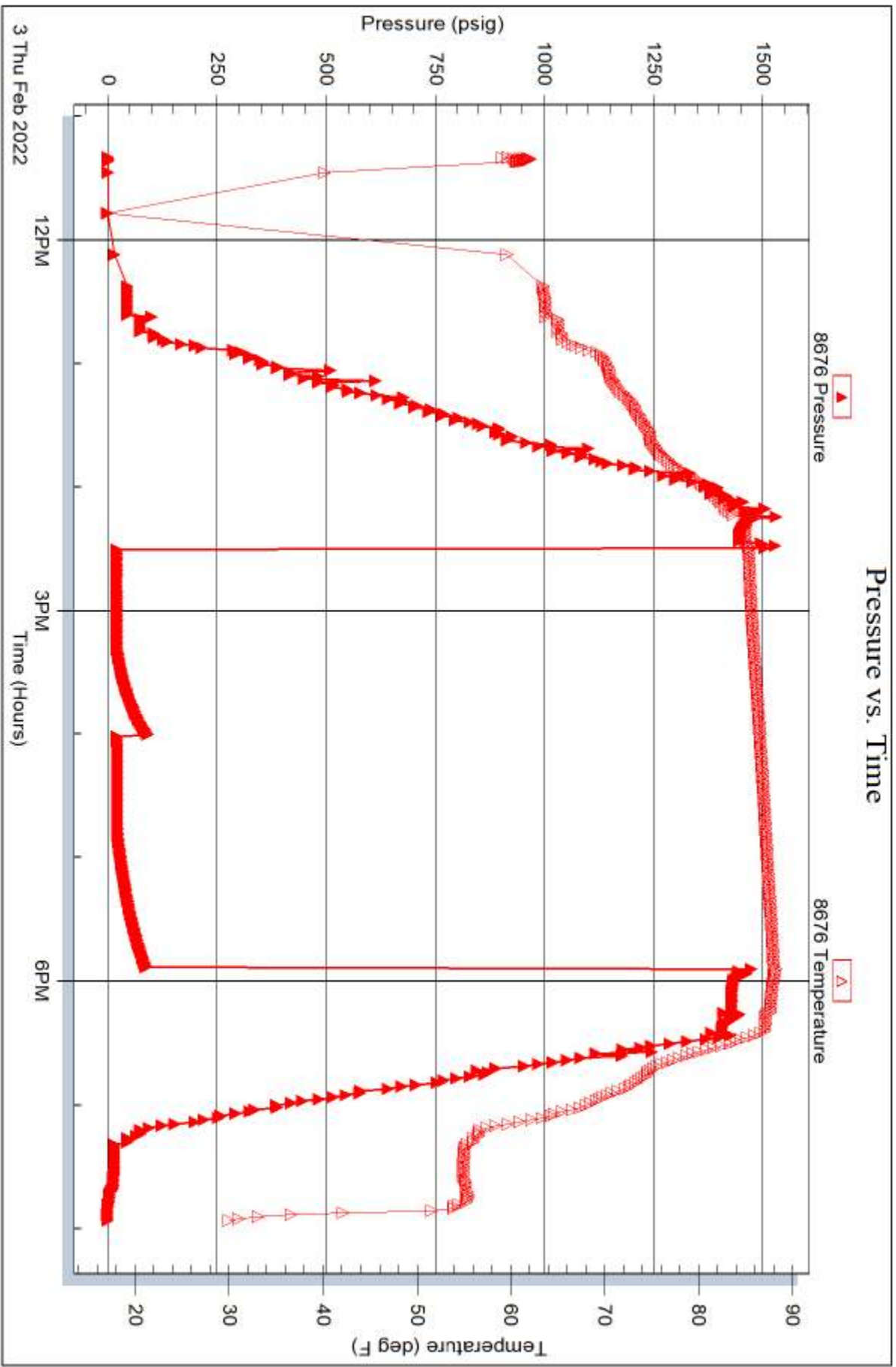
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Serial #: 8676

Outside Bruce Oil Company LLC

Regier#2

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68563

Printed: 2022.02.03 @ 20:55:17



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Bruce Oil Company LLC

31-8-12w Osborne,KS

1704 Limestone Rd McPherson,KS 67460

Regier#2

ATTN: Bob Peterson

Job Ticket: 68564

DST#: 2

Test Start: 2022.02.04 @ 10:15:00

GENERAL INFORMATION:

Formation: **LKC C**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:52:30

Time Test Ended: 18:09:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Nathan Aneas

Unit No: 71

Interval: 3027.00 ft (KB) To 3054.00 ft (KB) (TVD)

Reference Elevations: 1773.00 ft (KB)

Total Depth: 3054.00 ft (KB) (TVD)

1768.00 ft (CF)

Hole Diameter: 7.87 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8353

Inside

Press@RunDepth: 86.74 psig @ 3028.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.02.04

End Date: 2022.02.04

Last Calib.: 2022.02.04

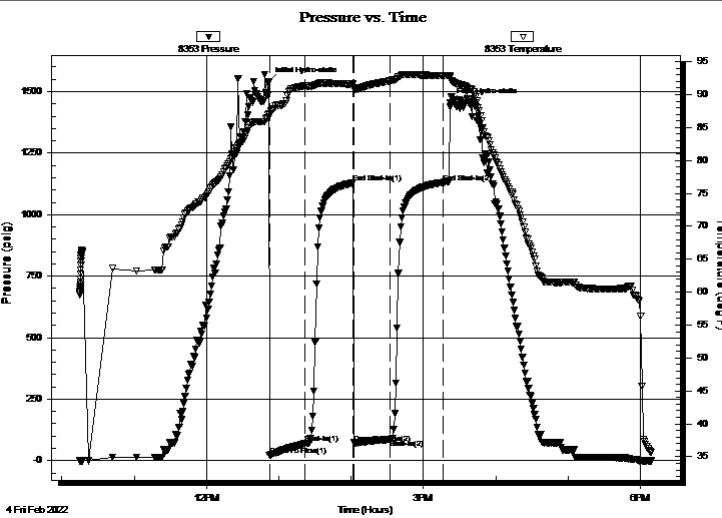
Start Time: 10:15:01

End Time: 18:09:30

Time On Btm: 2022.02.04 @ 12:51:45

Time Off Btm: 2022.02.04 @ 15:22:00

TEST COMMENT: 30:IF- Good surface blow , built to 3 inch in 5 min, BOB in 22 min
 35:IS- Weak surface blow , built to 1/4 inch, then died to weak surface blow
 30:FF- Good surface blow , built to 5 inch in 5 min, BOB in 13 min
 45:FS- Weak surface blow , built to 1/2 inch, then died to weak surface blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1540.32	87.13	Initial Hydro-static
1	21.27	87.00	Open To Flow (1)
31	69.94	91.29	Shut-In(1)
70	1128.54	91.59	End Shut-In(1)
71	72.04	90.93	Open To Flow (2)
101	86.74	92.08	Shut-In(2)
145	1130.77	92.89	End Shut-In(2)
151	1455.89	92.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	SWMCO 60%O 30%M 10%W	0.30
60.00	VSGWMCO 80%O 10%M 5%G 5%W	0.30
60.00	SWMCO 65%O 20%W 15%M	0.83

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Bruce Oil Company LLC

31-8-12w Osborne,KS

1704 Limestone Rd McPherson,KS 67460

Regier#2

Job Ticket: 68564

DST#: 2

ATTN: Bob Peterson

Test Start: 2022.02.04 @ 10:15:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36.6 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 40.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 9.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 6200.00 ppm

Filter Cake: 2.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	SWMCO 60%O 30%M 10%W	0.295
60.00	VSGWMCO 80%O 10%M 5%G 5%W	0.295
60.00	SWMCO 65%O 20%W 15%M	0.833

Total Length: 180.00 ft

Total Volume: 1.423 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

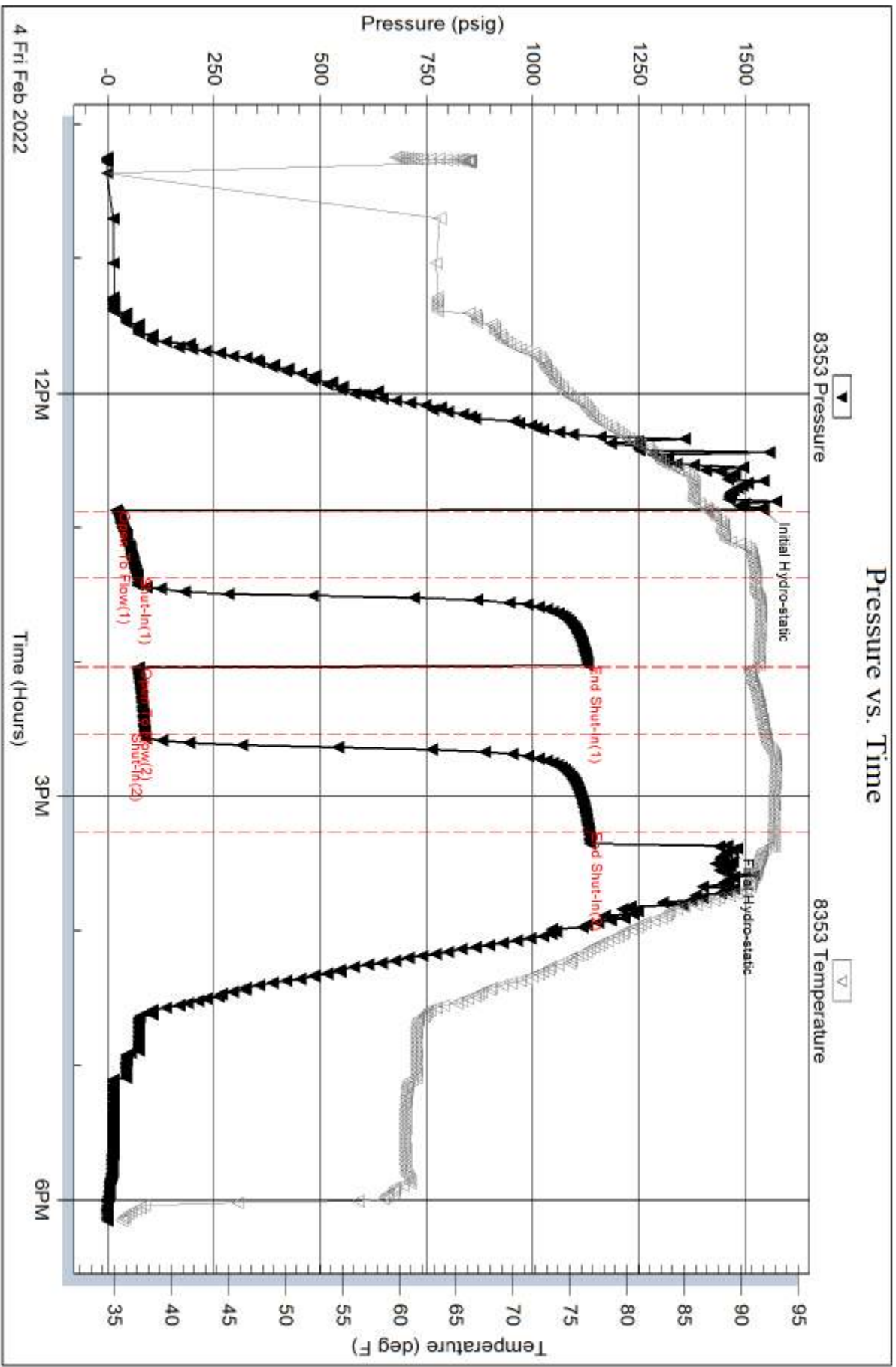
Serial #: 8353

Inside

Bruce Oil Company LLC

Regier#2

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 68564

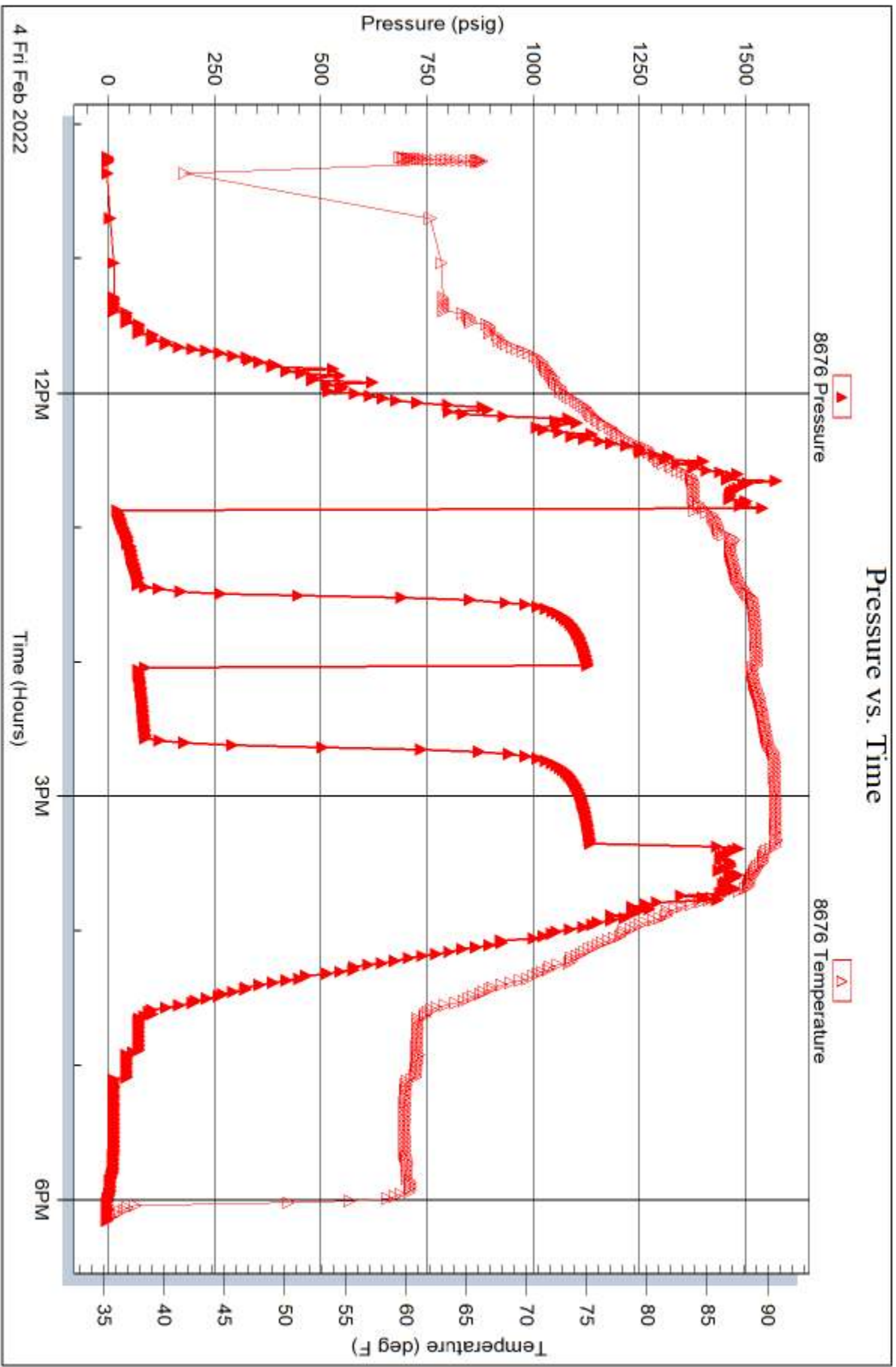
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Serial #: 8676

Outside Bruce Oil Company LLC

Regier#2

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68564

Printed: 2022.02.04 @ 20:40:09

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

BRUCE OIL COMPANY, L.L.C

ELEVATION

KB: 1773'
GL: 1768'
LOG MEASURED
FROM: KB

REGIER #2

31-8-12W
2300' FSL & 2330' FWL
(IRREG. SECTION)
OSBORNE COUNTY, KANSAS
API: 15-141-20490-00-00
LON. -98.7049827 LAT. 39.3137055

SURFACE CASING

8 5/8" SET @ 212'
W/150 SX

PRODUCTION CASING

5 1/2" SET @ 3040'
W/100 SX
PORT COLLAR @1015'

DRILLING CONTR.: WHITE KNIGHT

SPUD: 1-28-22 COMP: 2-6-22
MUD UP: 2200' TYPE MUD: CHEM.
DRILL TIME: 2400' to 3054'
SAMPLES SAVED: 2400' to 3054'
GEOLOGIST: ROBERT J. PETERSEN

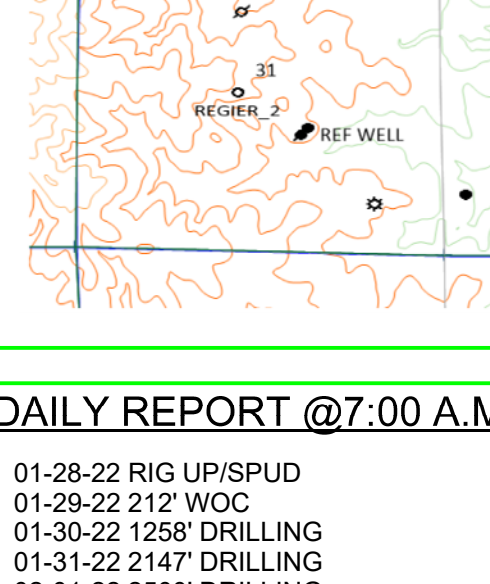
WELL LOG SURVEYS

NONE

SAMPLE LOG TOPS

FORMATION	DEPTH	DATUM	POS
ANHYDRITE	921	+852	+4
BASE ANHYDRITE	959	+814	-1
STOTLER	2483	-710	+2
TARKIO_LS	2536	-763	+6
TOPEKA	2699	-926	+5
QUEEN HILL	2891	-1118	+3
HEEBNER	2963	-1190	+3
TORONTO	2988	-1215	+2
LANSING	3017	-1244	+1
C	3034	-1261	+1
RTD	3046	-1273	FLAT
	3054	-1281	

LOCATION MAP



REFERENCE WELL

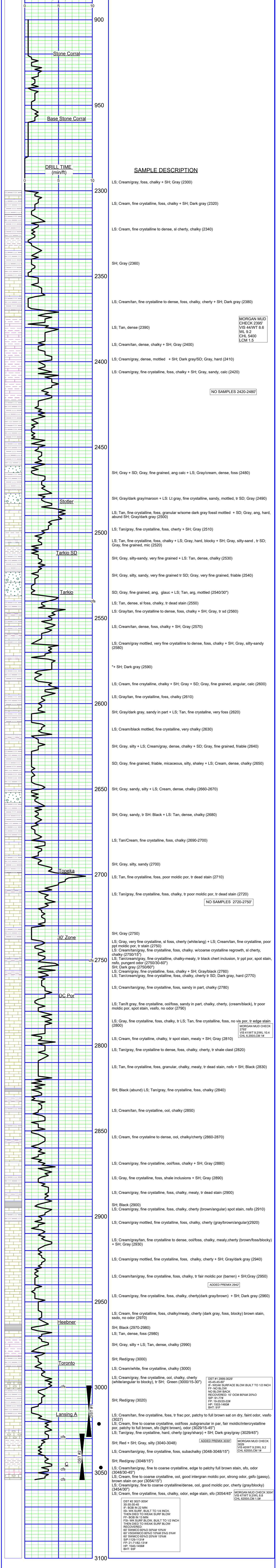
REF. WELL A
BARLINE OIL, LLC
BRANT #1
KB 1747 (RESURVEYED ELEV.)
1650'FSL & 2025' FEL
31-8-12W

DAILY REPORT @7:00 A.M.

01-28-22 RIG UP/SPUD
01-29-22 212' WOC
01-30-22 1258' DRILLING
01-31-22 2147' DRILLING
02-01-22 2500' DRILLING
02-02-22 2729' DRILLING
02-03-22 3029' TOH DST #1
02-04-22 3054' TOH DST#2
02-05-22 3054' RUNNING PROD CASING

REMARKS

PRODUCTION CASING WAS RUN TO FURTHER TEST
THIS WELL FOR COMMERCIAL PRODUCTION.



SAMPLE DESCRIPTION

LS: Cream/gray, foss, chalky + SH; Gray (2300)

LS: Cream, fine crystalline, foss, chalky + SH; Dark gray (2320)

LS: Cream, fine crystalline to dense, sl cherty, chalky (2340)

SH; Gray (2360)

LS: Cream/tan, fine crystalline to dense, foss, chalky, cherty + SH; Dark gray (2380)

LS: Tan, dense (2390)

LS: Cream/tan, dense, chalky + SH; Gray (2400)

LS: Cream/gray, dense, mottled + SH; Dark gray/SD; Gray, hard (2410)

LS: Cream/gray, fine crystalline, foss, chalky + SH; Gray, sandy, calc (2420)

NO SAMPLES 2420-2480'

SH; Gray + SD; Gray, fine grained, ang calc + LS; Gray/cream, dense, foss (2480)

SH; Gray/dark gray/maroon + LS: Lt gray, fine crystalline, sandy, mottled, tr SD; Gray (2490)

LS: Tan, fine crystalline, foss, granular w/some dark gray fossil mottled + SD; Gray, ang, hard, abund SH; Gray/dark gray (2500)

LS: Tan/gray, fine crystalline, foss, cherty + SH; Gray (2510)

LS: Tan, fine crystalline, foss, chalky + LS; Gray, hard, blocky + SH; Gray, silty-sand, tr SD; Gray, fine grained, mic (2520)

SH; Gray, silty-sandy, very fine grained + LS: Tan, dense, chalky (2530)

SH; Gray, silty, sandy, very fine grained tr SD; Gray, very fine grained, friable (2540)

SD; Gray, fine grained, ang, glauc + LS; Tan, arg, mottled (2540/30")

LS: Tan, dense, sl foss, chalky, tr dead stain (2550)

LS: Gray/tan, fine crystalline to dense, foss, chalky + SH; Gray, tr sd (2560)

LS: Cream/tan, dense, foss, chalky + SH; Gray (2570)

LS: Cream/gray mottled, very fine crystalline to dense, foss, chalky + SH; Gray, silty-sandy (2580)

*+ SH; Dark gray (2590)

LS: Cream, fine crystalline, chalky + SH; Gray + SD; Gray, fine grained, angular, calc (2600)

LS: Gray/tan, fine crystalline, foss, chalky (2610)

SH; Gray/dark gray, sandy in part + LS; Tan, fine crystalline, very foss (2620)

LS: Cream/black mottled, fine crystalline, very chalky (2630)

SH; Gray, silty + LS; Cream/gray, dense, chalky + SD; Gray, fine grained, friable (2640)

SD; Gray, fine grained, friable, micaceous, silty, shaley + LS; Cream, dense, chalky (2650)

SH; Gray, sandy, silty + LS; Cream, dense, chalky (2660-2670)

SH; Gray, sandy, tr SH: Black + LS: Tan, dense, chalky (2680)

LS: Tan/Cream, fine crystalline, foss, chalky (2690-2700)

SH; Gray, silty, sandy (2700)

LS: Tan, fine crystalline, foss, poor moldic por, tr dead stain (2710)

LS: Tan/gray, fine crystalline, foss, chalky, tr poor moldic por, tr dead stain (2720)

NO SAMPLES 2720-2750'

SH; Gray (2750)

LS: Gray, very fine crystalline, sl foss, cherty (white/ang) + LS; Cream/tan, fine crystalline, poor ppt moldic por, tr stain (2750)

LS: Cream/tan/gray, fine crystalline, foss, chalky, w/coarse crystalline regrowth, sl cherty, chalky (2750/15")

LS: Tan/cream/gray, fine crystalline, chalky-mealy, tr black chert inclusion, tr ppt por, spot stain, nsfo, pungent odor (2750/30-60")

SH; Dark gray (2750/60")

LS: Cream/gray, fine crystalline, foss, chalky + SH; Gray/black (2760)

LS: Tan/cream/gray, fine crystalline, foss, chalky, cherty tr SD; Dark gray, hard (2770)

LS: Cream/tan/gray, fine crystalline, foss, sandy in part, chalky (2780)

LS: Tan/lt gray, fine crystalline, ool/foss, sandy in part, chalky, cherty, (cream/black), tr poor moldic por, spot stain, vsfso, no odor (2790)

LS: Gray, fine crystalline, foss, chalky, tr LS; Tan, fine crystalline, foss, no vis por, tr edge stain (2800)

LS: Cream, fine crystalline, chalky, tr spot stain, mealy + SH; Gray (2810)

LS: Tan/gray, fine crystalline to dense, foss, chalky, cherty, tr shale clast (2820)

LS: Tan, fine crystalline, foss, granular, chalky, mealy, tr dead stain, nsfo + SH; Black (2830)

SH; Black (abund) LS; Tan/gray, fine crystalline, foss, chalky (2840)

LS: Cream/tan, fine crystalline, ool, chalky (2850)

LS: Cream, fine crystalline to dense, ool, chalky/cherty (2860-2870)

LS: Cream/gray, fine crystalline, ool/foss, chalky + SH; Gray (2880)

LS: Gray, fine crystalline, foss, shale inclusions + SH; Gray (2890)

LS: Cream/gray, fine crystalline, foss, chalky, mealy, tr dead stain (2900)

SH; Black (2900)

LS: Cream/gray, fine crystalline, foss, chalky, cherty (brown/angular) spot stain, nsfo (2910)

LS: Cream/gray mottled, fine crystalline, foss, chalky, cherty (gray/brown/angular)(2920)

LS: Cream/gray/tan, fine crystalline to dense, ool/foss, chalky, mealy, cherty (brown/foss/blocky) + SH; Gray (2930)

LS: Cream/gray mottled, fine crystalline, foss, chalky, cherty + SH; Gray/dark gray (2940)

LS: Cream/tan/gray, fine crystalline, foss, chalky, tr fair moldic por (barren) + SH; Gray (2950)

ADDED PREMIX 2942'

LS: Cream/gray, fine crystalline, foss, chalky, cherty(dark gray/brown) + SH; Dark gray (2960)

LS; Ool, fine crystalline, foss, chalky/mealy, cherty (dark gray, foss, blocky) brown stain, ssdo, no odor (2970)

SH; Black (2970-2980)

LS: Tan, dense, foss (2980)

SH; Gray, silty + LS; Tan, dense, chalky (2990)

SH; Red/gray (3000)

LS: Cream/white, fine crystalline, chalky (3000)

LS: Cream/gray, fine crystalline, ool, chalky, cherty (white/angular to blocky), tr SH; Green (3000/15-30")

SH; Red/gray (3020)

LS: Cream/tan, fine crystalline, foss, tr frac por, patchy to full brown sat on dry, faint odor, vsfso (3027)

LS: Cream, fine to coarse crystalline, ool/foss, subgranular in par, fair moldic/intercrystalline por, patchy to full brown, sfo (light brown), odor (3029/15-45")

LS: Tan/gray, fine crystalline, hard, cherty (gray/sharp) + SH; Dark gray/gray (3029/45")

ADDED PREMIX 3027'

SH; Red + SH; Gray, silty (3040-3048)

LS: Cream/tan/gray, fine crystalline, foss, subchalky (3048-3048/15")

SH; Red/gray (3048/15")

LS; Cream/gray, fine to coarse crystalline, edge to patchy full brown stain, sfo, odor (3048/30-45")

LS; Cream, fine to coarse crystalline, ool, good intergran moldic por, strong odor, gsfo (gassy), brown stain on por (3054/15")

LS: Cream/gray, fine to coarse crystalline/dense, ool, good moldic por, cherty (gray/blocky) (3454/30")

LS: Cream, fine crystalline, foss, chalky, odor, edge stain, sfo (3054/45")

ADDED PREMIX 3054'

MORGAN MUD CHECK 3029
VIS 40W/T 9.2/WL 9.2
CHL 6.200/LCM 1.5#

DST #1 2999-3029'
45-45-45-46"
FF-WEAK SURFACE BLOW BUILT TO 1/2 INCH
FF-NO BLOW
NO BLOW BACK
RECOVERED: 10' OCM 80%M 20%O
SIP: 91-77#
FP: 19-30/29-22#
HP: 1503-1466#
BHT: 91F

DST #2 3027-3054'
30-35-30-45
IF: BOB IN 22 MIN
IS: WK SURF BUILT TO 1/4 INCH
THEN DIED TO WEAK SURF BLOW
FF: BOB IN 13 MIN
FS: WK SURF BLOW, BUILT TO 1/2 INCH
THEN DIED TO WEAK SURF BLOW
RECOVERED:
60' SWMCO 60%O 30%M 10%W
60' VSGWMC 80%O 10%M 5%G 5%W
SIP: 125-1131#
FP: 21-71/82-131#
HP: 1549-1456#
BHT: 93F

MORGAN MUD CHECK 3054'
VIS 47W/T 9.2/WL 9.8
CHL 6.200/LCM 1.5#