

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 Recompletion Date _____ 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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 1774

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-8-20	18	21	17	Pawnee	Kansas		6:45 PM

Lease	Well No.	Owner	
PF UNIT	1-18	LARNED 2W TO RD 190 - 2X 3/4 N 1/2 W	
Contractor	Rig #	To Quality Oilwell Cementing, Inc.	
Discovery DALG	"TERRY W."	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		Charge To	
Cement Long Surface		SHELBY RESOURCES LLC	
Hole Size	T.D.	Street	
12 1/4	1092'		
Csg.	Depth	City	
8 5/8 New 23 #	1090'	State	
Tbg. Size	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
		V# 170 -	
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered	
40'		450 SX 60/40 48cc 29gel	

EQUIPMENT		Common
Pumptrk 16	No. Cementer	270
	Helper	Poz. Mix 180
Bulktrk 19	No. Driver	Gel. 8
	Driver	Calcium 20
Bulktrk	No. Driver	
	Driver	

JOB SERVICES & REMARKS		Hulls
Remarks:		Salt
Rat Hole		Flowseal 225 #
Mouse Hole		Kol-Seal
Centralizers		Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
Ran 26 New Joints of 23# csg.		Handling 478
Set @ 1090		Mileage

FLOAT EQUIPMENT	
Received Circulation	Guide Shoe
Mixed 450 SX 60/40 4+2	Centralizer
Release Rubber Plug	Baskets
Displace a TOTAL of 67 BBL	AFU Inserts
Land Plug. Had 500 # Lift Pass	Float Shoe
SHUT IN @ 500 #	Latch Down

Cement Did Circulate	1 - 8 5/8 Solid Rubber Plug
To Surface	1 - 8 5/8 Baffle Plate
	Pumptrk Charge Long Surface
	Mileage 28

X Signature	Tax
[Signature]	Discount
	Total Charge

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 1964

Date	3-13-20	Sec.	18	Twp.	21	Range	17	County	Dawnee	State	KS	On Location		Finish	12:15 AM
Lease								Well No.		Owner					
PF Unit								1-18		To Quality Oilwell Cementing, Inc.					
Contractor										You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Discovery #2															
Type Job										Charge To					
Rotary Plug										Shelby Resources					
Hole Size								T.D.		Street					
7 7/8								2340							
Csg.								Depth		City					
Tbg. Size								Depth		State					
Tool								Depth		The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.								Shoe Joint		Cement Amount Ordered					
										170 60/40 4 1/2 GEL 1/4 #10					
Meas Line								Displace		Common					
										102					
EQUIPMENT										Poz. Mix					
Pumptrk								No.		68					
16								Cement		6					
								Helper		Calcium					
Bulktrk								No.		Hulls					
14								Driver		Salt					
								Driver		Flowseal					
								Driver		50#					
								Driver		Kol-Seal					
								Driver		Mud CLR 48					
								Driver		CFL-117 or CD110 CAF 38					
								Driver		Sand					
								Driver		Handling					
								Driver		176					
								Driver		Mileage					
								Driver		FLOAT EQUIPMENT					
								Driver		Guide Shoe					
								Driver		Centralizer					
								Driver		Baskets					
								Driver		AFU Inserts					
								Driver		Float Shoe					
								Driver		Latch Down					
								Driver		Pumptrk Charge					
								Driver		plug					
								Driver		Mileage					
								Driver		28					
								Driver		Tax					
								Driver		Discount					
								Driver		Total Charge					

Thanks

X Signature



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Shelby Resources LLC

18-21s-17w

13949 W. Colfax Ave BLDG 1 STE 120
Lakewood CO 80401+3248

P-F- Unit

Job Ticket: 65756

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2020.03.10 @ 13:43:00

GENERAL INFORMATION:

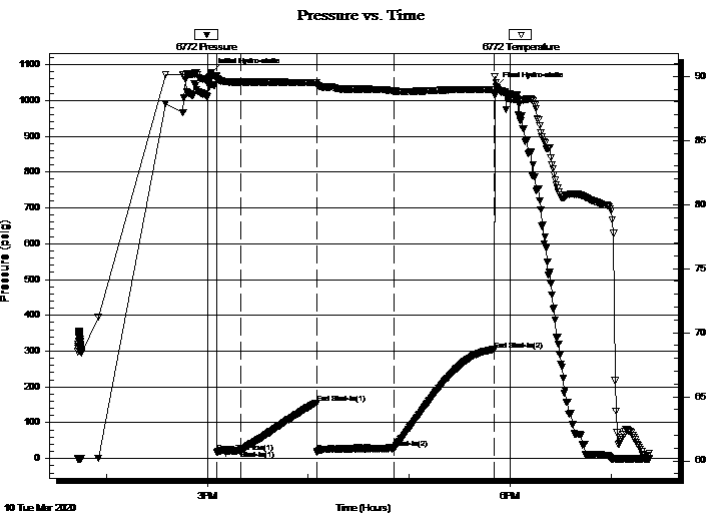
Formation: **Herrington-Kriter**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 15:05:40
 Tester: Benny Mulligan
 Time Test Ended: 19:23:09
 Unit No: 66
 Interval: **2011.00 ft (KB) To 2080.00 ft (KB) (TVD)**
 Reference Elevations: 2084.00 ft (KB)
 Total Depth: 2080.00 ft (KB) (TVD)
 2076.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 8.00 ft

Serial #: 6772

Inside

Press@RunDepth: 27.82 psig @ 2012.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.03.10 End Date: 2020.03.10 Last Calib.: 2020.03.10
 Start Time: 13:43:01 End Time: 19:23:10 Time On Btm: 2020.03.10 @ 15:02:20
 Time Off Btm: 2020.03.10 @ 17:51:30

TEST COMMENT: IF-15- Built to 5"
 IS-45- no blow back
 FF-45- BOB 37mins total build of 14"
 FS-60- no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1078.36	89.98	Initial Hydro-static
4	17.66	89.77	Open To Flow (1)
18	22.34	89.55	Shut-In(1)
63	155.08	89.53	End Shut-In(1)
63	17.45	89.36	Open To Flow (2)
109	27.82	88.85	Shut-In(2)
168	303.38	88.96	End Shut-In(2)
170	1039.22	89.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%M	0.21
0.00	GIP 30'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

18-21s-17w

13949 W. Colfax Ave BLDG 1 STE 120
Lakewood CO 80401+3248

P-F- Unit

Job Ticket: 65756

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2020.03.10 @ 13:43:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 83000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	Mud 100%M	0.212
0.00	GIP 30'	0.000

Total Length: 30.00 ft Total Volume: 0.212 bbl

Num Fluid Samples: 0

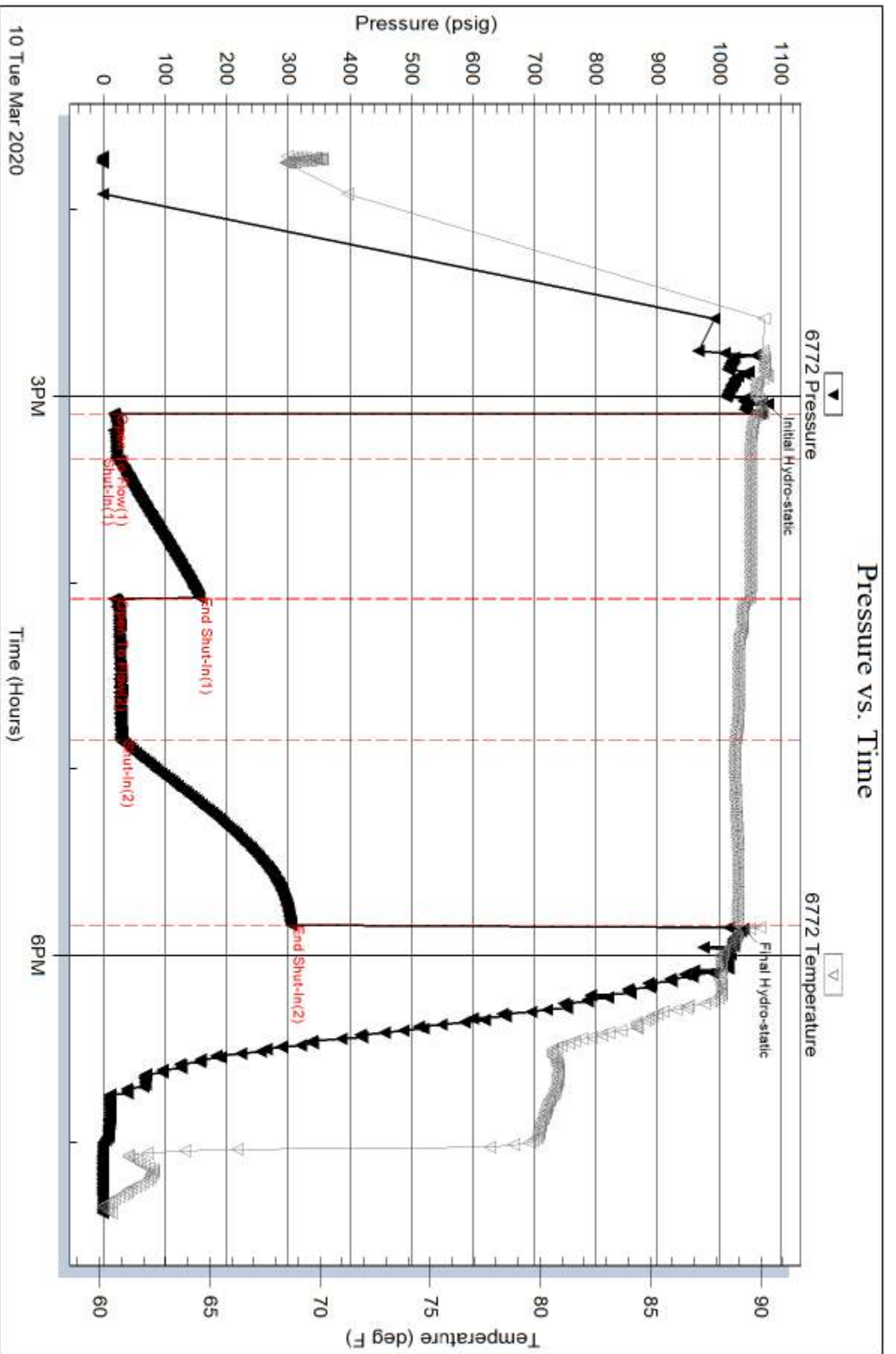
Num Gas Bombs: 0

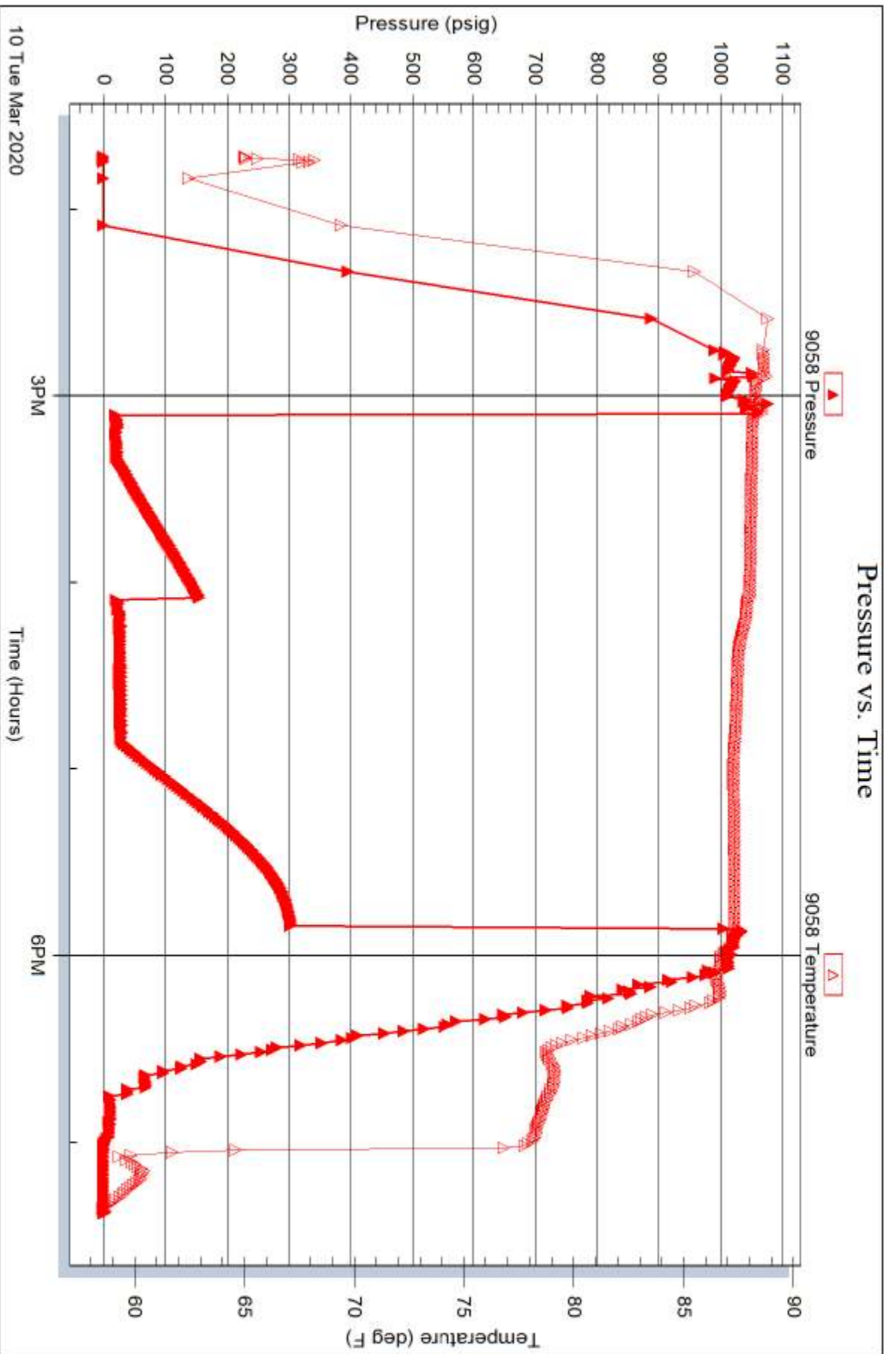
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Shelby Resources LLC

18-21s-17w

13949 W. Colfax Ave BLDG 1 STE 120
Lakewood CO 80401+3248

P-F- Unit

Job Ticket: 65758

DST#: 3

ATTN: Jeremy Schwartz

Test Start: 2020.03.11 @ 17:31:00

GENERAL INFORMATION:

Formation: **Ft. Riley**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:53:20

Time Test Ended: 01:24:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: 2194.00 ft (KB) To 2232.00 ft (KB) (TVD)

Reference Elevations: 2084.00 ft (KB)

Total Depth: 2232.00 ft (KB) (TVD)

2076.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 55.64 psig @ 2195.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.03.11

End Date:

2020.03.12

Last Calib.:

2020.03.12

Start Time: 17:31:01

End Time:

01:24:20

Time On Btm:

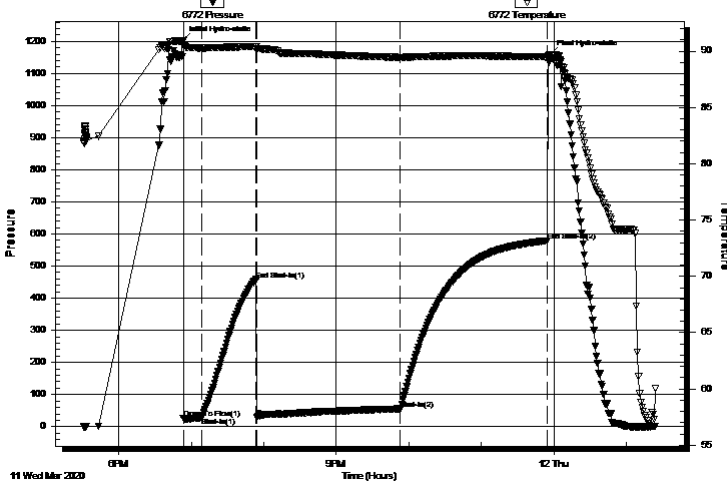
2020.03.11 @ 18:52:20

Time Off Btm:

2020.03.11 @ 23:57:00

TEST COMMENT: IF-15- BOB 9mins 30secs total build of 16"
IS-45- no blow back
FF-120- BOB 26mins total build of 34"
FS-120- no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1202.75	90.95	Initial Hydro-static
1	26.01	90.61	Open To Flow (1)
17	28.58	90.28	Shut-In(1)
62	457.51	90.37	End Shut-In(1)
62	29.39	90.24	Open To Flow (2)
181	55.64	89.44	Shut-In(2)
302	579.17	89.48	End Shut-In(2)
305	1158.60	89.62	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	W.M. 10%W 90%M	0.64

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources LLC

18-21s-17w

13949 W. Colfax Ave BLDG 1 STE 120
Lakewood CO 80401+3248

P-F- Unit

Job Ticket: 65758

DST#: 3

ATTN: Jeremy Schwartz

Test Start: 2020.03.11 @ 17:31:00

GENERAL INFORMATION:

Formation: **Ft. Riley**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:53:20

Time Test Ended: 01:24:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: 2194.00 ft (KB) To 2232.00 ft (KB) (TVD)

Reference Elevations: 2084.00 ft (KB)

Total Depth: 2232.00 ft (KB) (TVD)

2076.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6769 Outside

Press@RunDepth: psig @ 2195.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.03.11 End Date: 2020.03.12

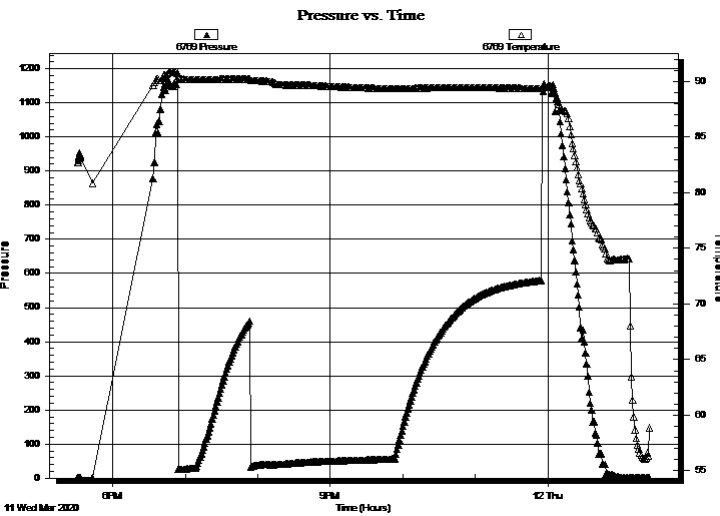
Last Calib.: 2020.03.12

Start Time: 17:31:01 End Time: 01:24:20

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-15- BOB 9mins 30secs total build of 16"
IS-45- no blow back
FF-120- BOB 26mins total build of 34"
FS-120- no blow back



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
90.00	W.M. 10%W 90%M	0.64

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

18-21s-17w

13949 W. Colfax Ave BLDG 1 STE 120
Lakewood CO 80401+3248

P-F- Unit

Job Ticket: 65758

DST#: 3

ATTN: Jeremy Schwartz

Test Start: 2020.03.11 @ 17:31:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 42.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 81000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	W.M. 10%W 90%M	0.637

Total Length: 90.00 ft Total Volume: 0.637 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

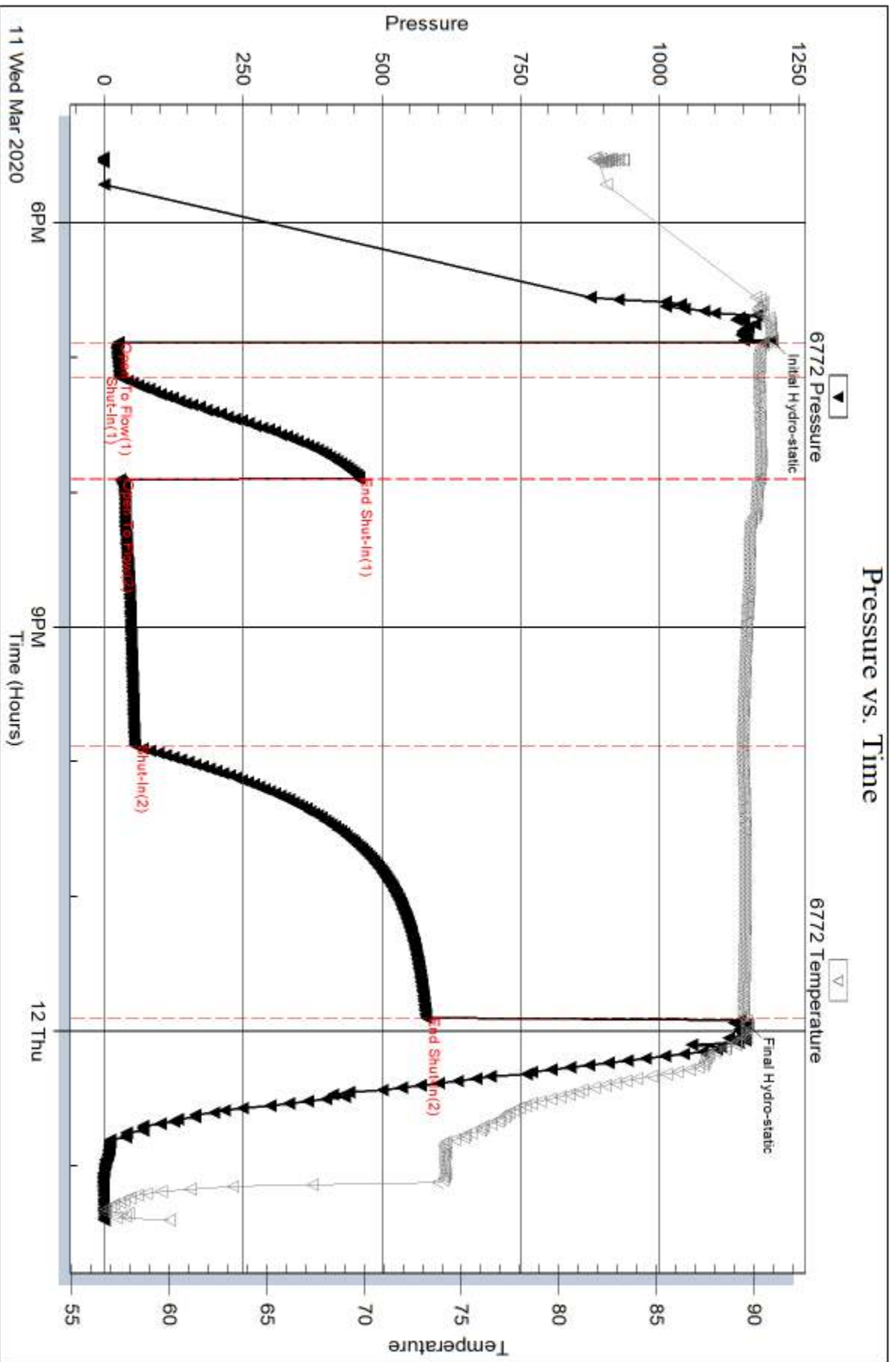
Serial #:

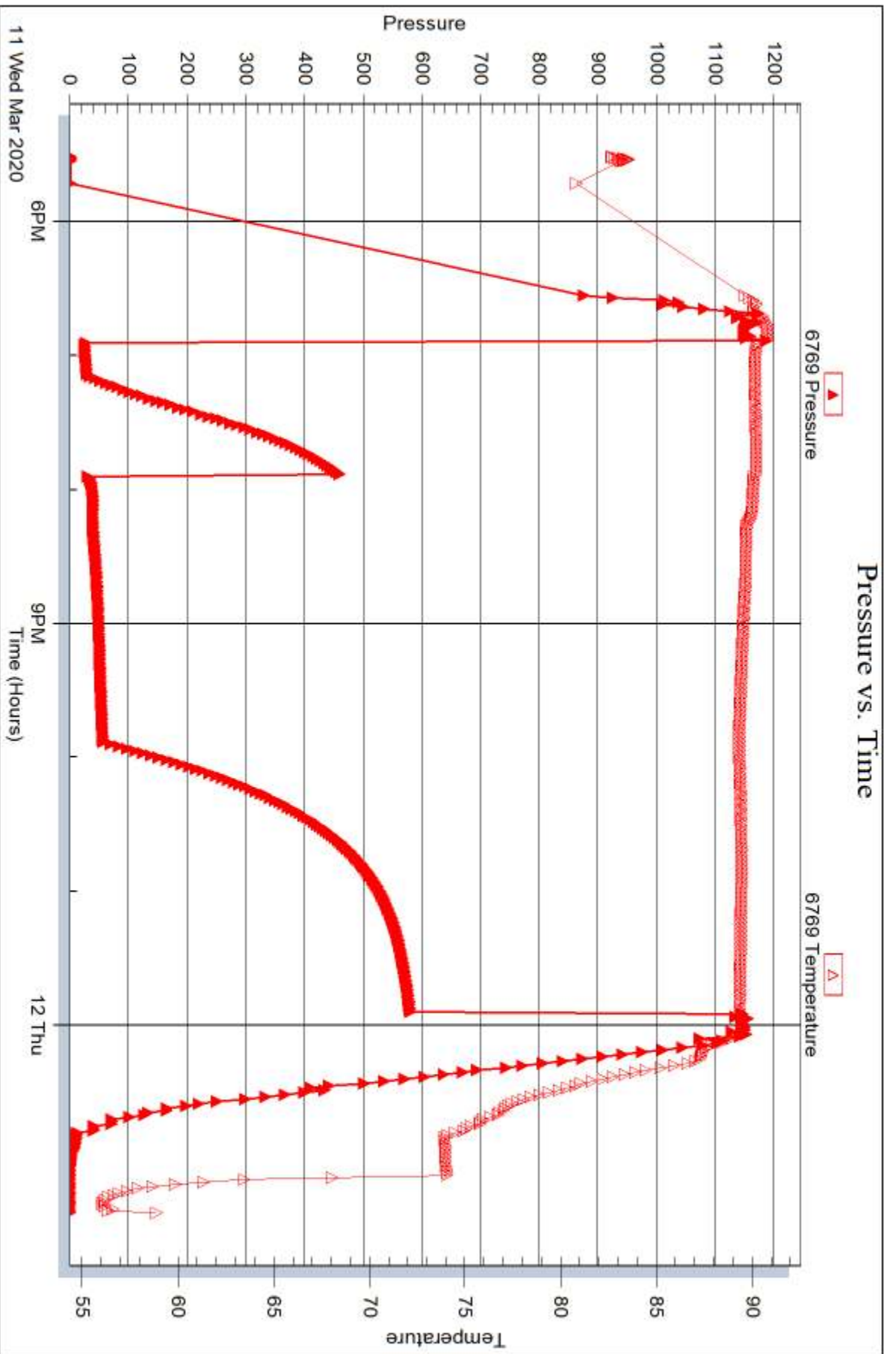
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Shelby Resources LLC

18-21s-17w

13949 W. Colfax Ave BLDG 1 STE 120
Lakewood CO 80401+3248

P-F- Unit

Job Ticket: 65757

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2020.03.11 @ 02:45:00

GENERAL INFORMATION:

Formation: **Winfield**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:30:50

Time Test Ended: 09:42:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: 2076.00 ft (KB) To 2151.00 ft (KB) (TVD)

Reference Elevations: 2084.00 ft (KB)

Total Depth: 2151.00 ft (KB) (TVD)

2076.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 150.50 psig @ 2077.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.03.11

End Date:

2020.03.11

Last Calib.:

2020.03.11

Start Time:

02:45:01

End Time:

09:42:10

Time On Btm:

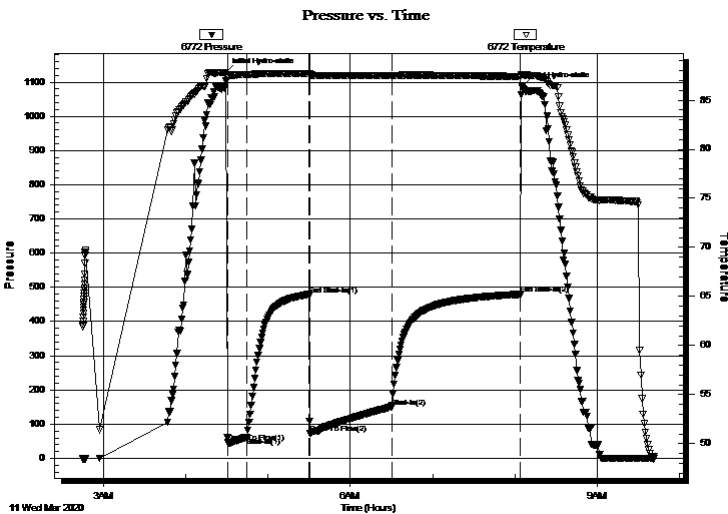
2020.03.11 @ 04:29:10

Time Off Btm:

2020.03.11 @ 08:05:30

TEST COMMENT: IF-15-BOB 1min total build of 80"
IS-45- no blow back
FF-60- BOB 15sec total build of 85"
FS-90- 2 1/2" blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1128.37	87.81	Initial Hydro-static
2	47.62	87.52	Open To Flow (1)
16	62.06	87.58	Shut-In(1)
61	476.51	87.71	End Shut-In(1)
62	72.48	87.60	Open To Flow (2)
121	150.50	87.47	Shut-In(2)
215	479.67	87.42	End Shut-In(2)
217	1087.03	87.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud 100%M	0.42
120.00	W.M. 30%W 70%M	0.85
120.00	M.W. 80%W 20%M	0.85

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Shelby Resources LLC

18-21s-17w

13949 W. Colfax Ave BLDG 1 STE 120
Lakewood CO 80401+3248

P-F- Unit

Job Ticket: 65757

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2020.03.11 @ 02:45:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 10.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 52.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 13.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 83000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
60.00	Mud 100%M	0.425
120.00	W.M. 30%W 70%M	0.850
120.00	M.W. 80%W 20%M	0.850

Total Length: 300.00 ft Total Volume: 2.125 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

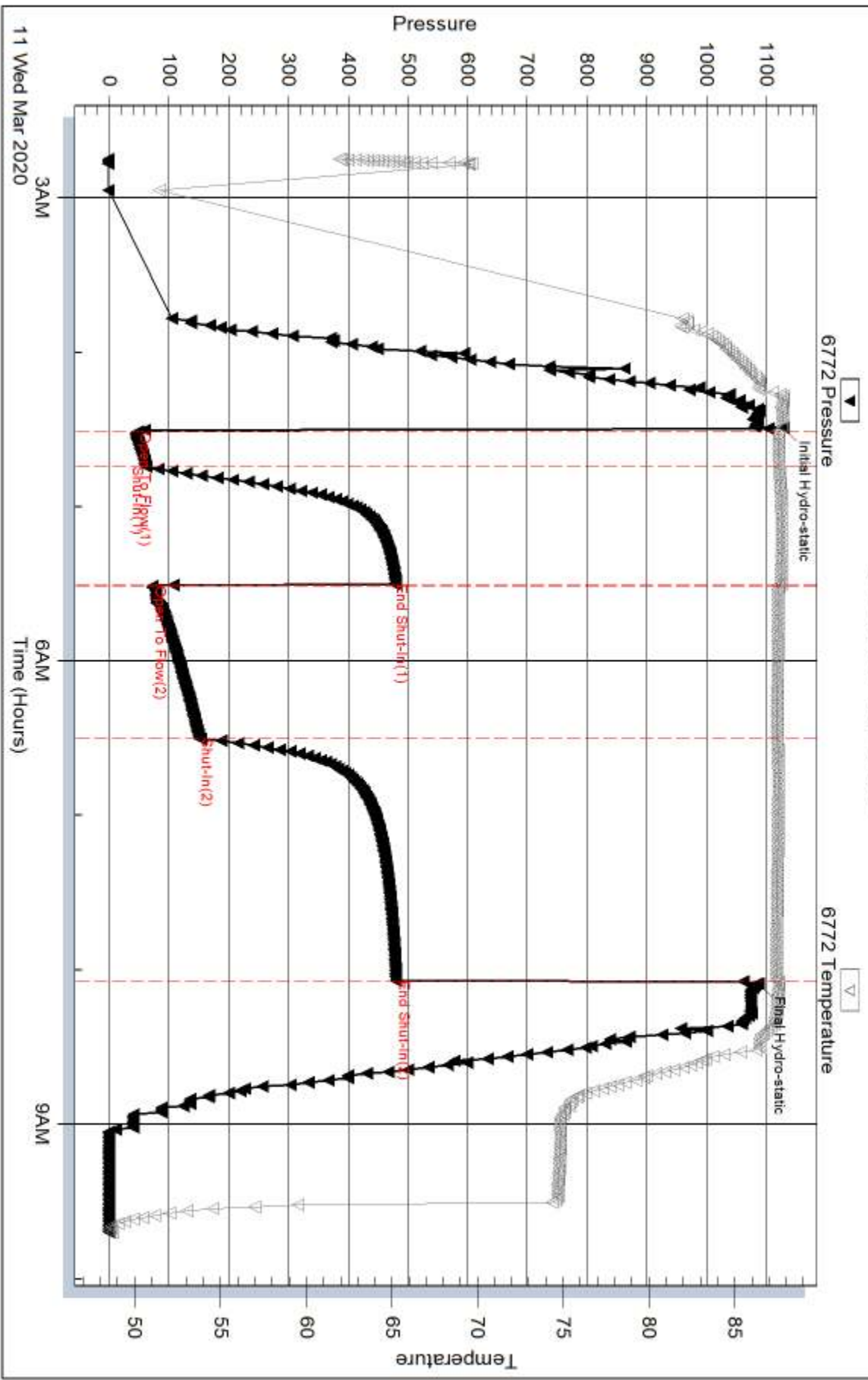
Serial #:

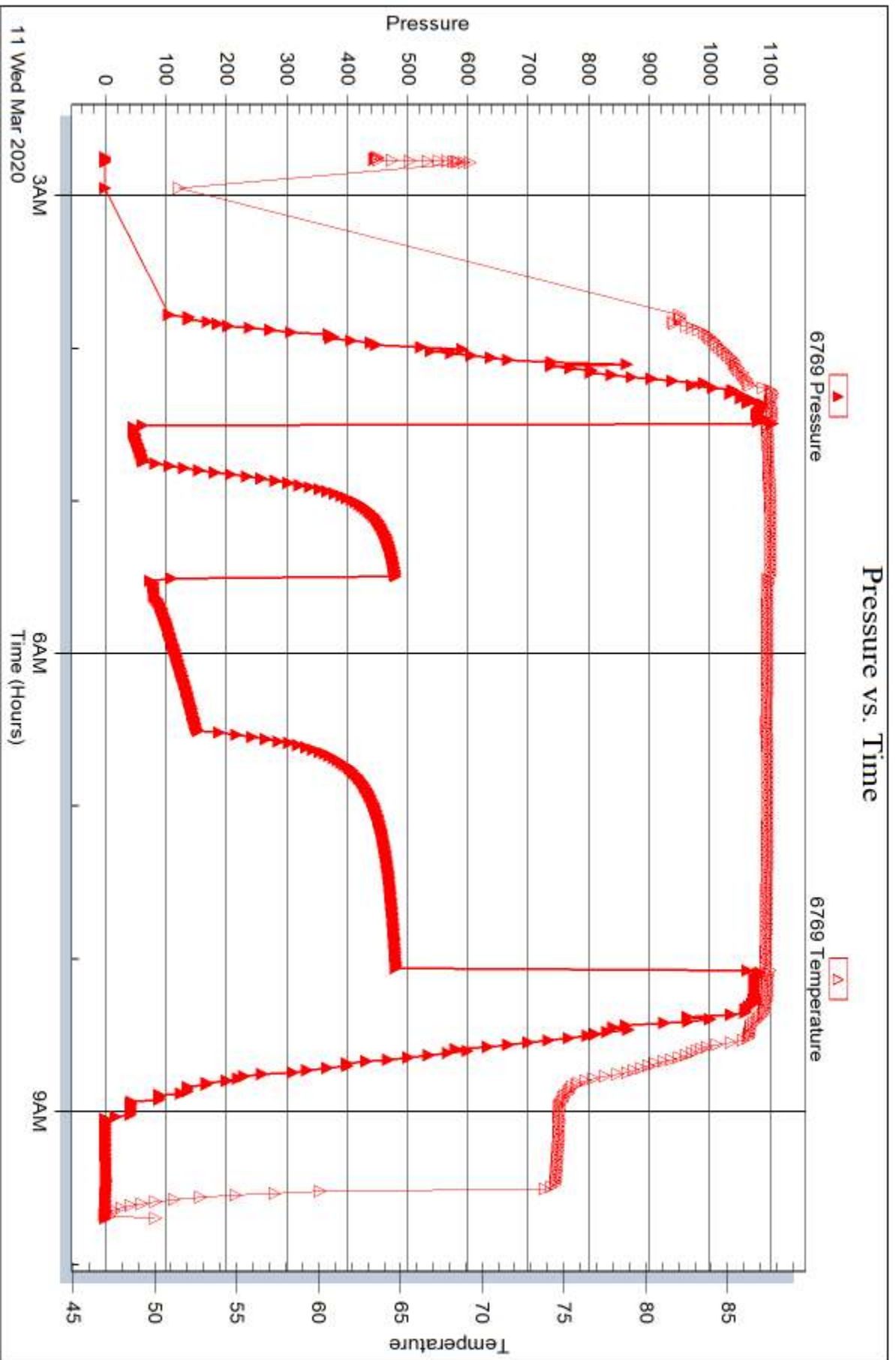
Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time







Scale 1:240 Imperial

Well Name: P-F Unit #1-18
 Surface Location: 2440' FSL_2085' FWL, Sec. 18-T21s-R17w
 Bottom Location:
 API: 15-165-21858-00-00
 License Number: 31725
 Spud Date: 3/7/2020 Time: 3:30 PM
 Region: Pawnee
 Drilling Completed: 3/12/2020 Time: 9:00 AM
 Surface Coordinates:
 Bottom Hole Coordinates:
 Ground Elevation: 2076.00ft
 K.B. Elevation: 2084.00ft
 Logged Interval: 1980.00ft To: 2340.00ft
 Total Depth: 2340.00ft
 Formation: Chase Group
 Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

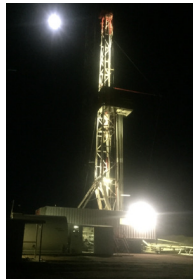
Company: Shelby Resources, LLC
 Address: 13949 W Colfax Ave., Bldg 1, Ste 120
 Lakewood, CO 80401

Contact Geologist: Jeff Zoller / Jeremy Schwartz
 Contact Phone Nbr: 620-786-0807 / 203-671-6034

Well Name: P-F Unit #1-18
 Location: 2440' FSL_2085' FWL, Sec. 18-T21s-R17w
 API: 15-165-21858-00-00

Pool: Kansas Field: Fort Larned
 State: Kansas Country: USA

LOGGED BY



Company: Mile High Exploration, LLC
 Address: 14645 Sterling Road
 Colorado Springs, CO 80921

Phone Nbr: 203-671-6034
 Logged By: Geologist

Name: Jeremy Schwartz

NOTES

The Shelby Resources, LLC P-F Unit #1-18 was drilled to a total depth of 2340', bottoming below the base of the Florence formation. An iBall Instruments Bloodhound gas detector was employed in the drilling of said well.

3 DST's were conducted during the drilling of this well throughout the Chase Group. The DST reports can be found at the bottom of this log.

Due to negative DST results in the Chase, lack of sample shows, gas kicks, and subsequent log analysis it was determined by all parties involved to plug and abandon the well. The dry samples were saved and will be available for further review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted,
Jeremy Schwartz
Geologist

CONTRACTOR

Contractor: Discovery Drilling
Rig #: 2
Rig Type: mud rotary
Spud Date: 3/7/2020
TD Date: 3/12/2020
Rig Release:

Time: 3:30 PM
Time: 9:00 AM
Time:




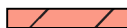

ELEVATIONS

K.B. Elevation: 2084.00ft
K.B. to Ground: 8.00ft
Ground Elevation: 2076.00ft

DATE	DEPTH	ACTIVITY
Tuesday, March 10, 2020	1940'	Geologist Jeremy Schwartz on location @ ~0200hrs, 1940', drlg ahead, CFS @ 2060',
	2080'	resume drlg, CFS @ 2080', TOH to conduct DST #1 in the Herrington-Krider
Wednesday, March 11, 2020	2151'	successful test, resume drlg, CFS @ 2151', drop survey, strap out of hole in order to
		conduct DST #2 in the Winfield, successful test, resume drlg, CFS @ 2232', gas kick in
	2232'	Ft. Riley warrants DST, TOH to conduct DST #3 in the Ft. Riley
Thursday, March 12, 2020	2340'	successful test, resume drlg, TD of 2340' reached @ 0900hrs, CTCH 1hr, drop survey
		TOH to conduct logging operations, logging operations complete @ 1620hrs
		Geologist Jeremy Schwartz off location @ 1700hrs

	P-F Unit 1-18				GAS - P&A				GAS - P&A				D&A			
	Internorth/Aspen Drlg				Northern Natural Gas Prod.				Messman-Rinehart Oil Co.							
	Froetschner 1				Prusa 1-18				Froetschner A 1							
	NE-SW-NW Sec. 18-215-17W				C S/2 Sec. 18-215-17W				C-SW-NW Sec. 18-215-17W							
KB		2084		KB		2102		KB		2080		KB		2094		
LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.
ANHYDRITE TOP	1086	998	1082	1002	1110	992	+ 6	+ 10	1079	1001	- 3	+ 1	1105	989	+ 9	+ 13
BASE	1110	974			1137	965	+ 9		1104	976	- 2		1130	964	+ 10	
PADDOCK LS	1984	100	1981	103	1996	106	- 6	- 3	1984	96	+ 4	+ 7	1994	100	+ 0	+ 3
HOLLENBERG LS	2004	80	2001	83	2018	84	- 4	- 1	2006	74	+ 6	+ 9	2016	78	+ 2	+ 5
HERRINGTON	2036	48	2034	50	2051	51	- 3	- 1	2037	43	+ 5	+ 7	2048	46	+ 2	+ 4
KRIDER	2058	26	2057	27	2073	29	- 3	- 2	2058	22	+ 4	+ 5	2068	26	+ 0	+ 1
WINFIELD	2086	-2	2088	-4	2104	-2	+ 0	- 2	2088	-8	+ 6	+ 4	2098	-4	+ 2	+ 0
TOWANDA	2153	-69	2152	-68	2174	-72	+ 3	+ 4					2167	-73	+ 4	+ 5
FT RILEY	2201	-117	2200	-116	2216	-114	- 3	- 2					2216	-122	+ 5	+ 6
B/FLORENCE	2282	-198	2282	-198	2306	-204	+ 6	+ 6					2298	-204	+ 6	+ 6
RTD			2340	-256	2335	-233		- 23	2145	-65		- 191	3305	-1211		+ 955
LTD	2341	-257			2333	-231	- 26		2141	-61	- 196		3304	-1210	+ 953	








ROCK TYPES



 Dolprim
 Lmst fw<7
 shale, red
 Dolsec
 shale, gry

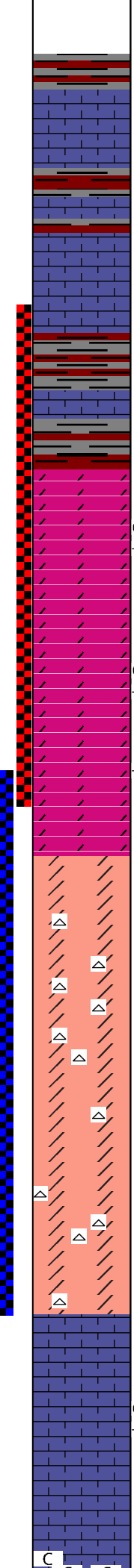
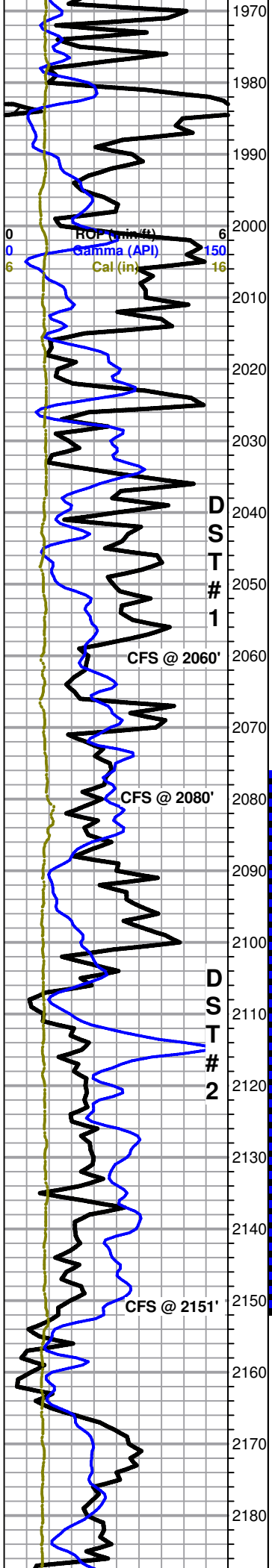
ACCESSORIES

MINERAL **FOSSIL** **TEXTURE**
 △ Chert White ∪ Bioclastic or Fragmental C Chalky

OTHER SYMBOLS

MISC
 Daily Report
 Digital Photo
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File

DST
 DST Int
 DST alt



Paddock LS 1981 (+103)

LS, gray, micro-xln and dense with no visible porosity, also with abundant anhydrite and metal shavings from bit, very fine small crushed up sample, no show or odor

Hollenberg LS 2001 (+83)

LS, gray with some scattered brown, micro-xln and dense with no visible porosity, with anhydrite and metal shavings as above, also with some scattered green to gray and maroon to red shale, no show or odor

Herrington 2034 (+50)

Shelby P-F Unit dst 1.jpg

As above, with influx tan to cream and gray dolomite, micro-xln and sucrosic with poor visible porosity, most fairly friable to friable, some dense, most appear barren, upon break few chips have SSG, few very scattered chips with good heavily saturated brown to black clingy, live free oil show, GSFO in tray, very fine sample with abundant small dolomite chips in bottom of tray along with metal shavings, no odor

Krider 2057 (+27)

2060' 30&60" Influx gray dolomite, micro-xln, some fairly friable to friable, some dense, occasional gas bubble upon break, NSFO in tray, no odor

~2060-2070' Dolomite as above, most chips appear barren with poor visible porosity, some scattered chips with scattered worm-like somewhat vuggy porosity, mostly poor overall visible porosity, few chips also with very scattered stain/clingy free oil, upon break some chips release rainbow to opaque sheen on water and slight gas show, NSFO in tray, no odor

2080' 60" Dolomite, light gray to gray with some very scattered tan, micro-xln, some friable to fairly friable, some dense, overall poor visible porosity, upon break some chips with slight show gas bubbles, NSFO in tray, no odor

Winfield 2088 (-4)

Shelby P-F Unit dst 2.jpg

Mostly gray LS to dolimitic LS, with some very scattered cream to white, micro-xln, most hard and dense with poor visible porosity, some scattered chips have few small vugs but overall poor porosity, some very scattered mostly poor pinpoint porosity in some chips as well, trace chert, NSFO in tray, no show or odor

As above, slight increase in chert, no show or odor

Dolimitic LS as above, mostly gray with some scattered cream, most chips fairly friable to very friable, some chips with fair pinpoint to slightly vuggy porosity, overall increase in visible porosity, increase in chert as well, NSFO in tray, no show or odor

Mostly same as above, with slight increase in cream chips with fair pinpoint to vuggy porosity, NSFO in tray, no show or odor

Gray to cream dolimitic LS as above, decrease in overall porosity, still some chips with fair pinpoint to slightly vuggy porosity, NSFO in tray, no show or odor

Poor sample with abundant red and gray clay and red shale, still carrying gray to cream dolimitic LS as above with overall poor visible porosity, with some very scattered chips with poor to fair pinpoint to slightly vuggy porosity, NSFO in tray, heavy red wash, no show or odor

2150' 30&60" Mostly same as above, poor samples with heavy red wash, scattered dolimitic LS and chert, no show or odor

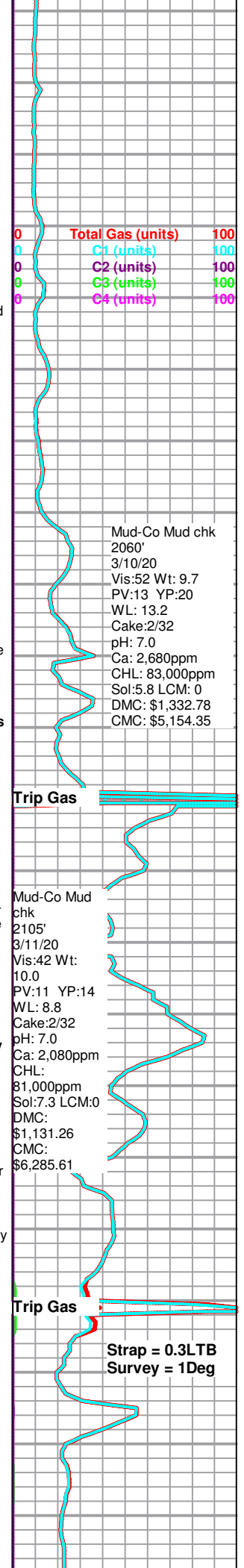
Towanda 2152 (-68)

LS to dolimitic LS, gray to cream, micro-xln, some scattered poor to fair pinpoint porosity, overall poor visible porosity, some scattered soft and chalky in part, NSFO in tray, no show or odor

Mostly gray LS as described above, some scattered fair pp porosity, found one chip saturated with heavy, clingy live free oil, upon break chip had GSFO and SSG, no odor

LS, mostly gray with some very scattered cream, micro-xln, most dense with poor visible porosity, some scattered chips with scattered mostly poor pp porosity, no show or odor

~2190' poor very fine crushed sample, appears to be mostly same as above, very chalky, no show or odor



very chalky, no show or odor

Shelby P-F Unit dst 3.jpg

Ft. Riley 2200 (-116)

Poor sample very fine crushed LS, gray with slight influx cream, micro-xln, mostly dense with poor visible porosity, very chalky, fair show free gas bubbles in tray, no odor

LS as above, with some very scattered gray, oomoldic with mostly poor oomold porosity, upon break some chips have SSG and show mostly poor inter-oomold porosity, no odor

LS, gray to cream, micro-xln, mostly dense with poor visible porosity, with some scattered cream chips, very friable with fair pp porosity, with some scattered chert, no show or odor

2232' 30&60" LS, cream to gray, micro-xln, soft and chalky in part to dense, mostly poor visible porosity, some scattered small chips cream, with fair visible pp porosity, few fairly vuggy, occasional gas bubble in porosity, upon break some chips release slight show gas bubbles, fair show free gas bubbles in tray, fairly chalky, no odor

LS as above, mostly poor visible porosity, some scattered gas bubbles in tray, very chalky, no odor

LS, gray to cream, micro-xln, mostly dense with poor visible porosity, some soft and chalky in part, fairly chalky, few very scattered gas bubbles in tray, no odor

LS, gray to cream, micro-xln, some fossiliferous, mostly poor visible porosity, some scattered small cream chips with poor to fair visible pp porosity, friable, slightly less chalky, no show or odor

LS as above, slightly chalky, no show or odor

Base Florence 2282 (-198)

LS, gray to cream, micro-xln, mostly dense with poor visible porosity, some scattered cream chips with poor to fair pp porosity, few very scattered gas bubbles in tray, no odor

LS as above, trace free gas bubbles in tray, no odor

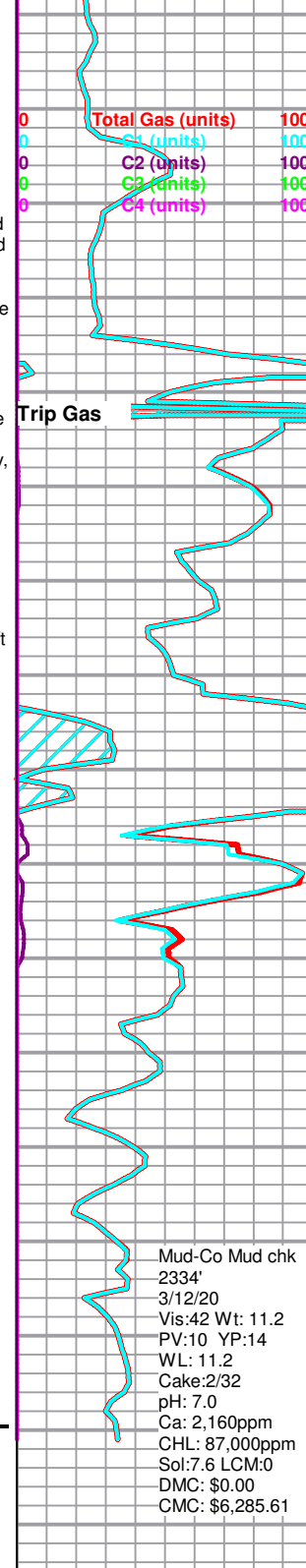
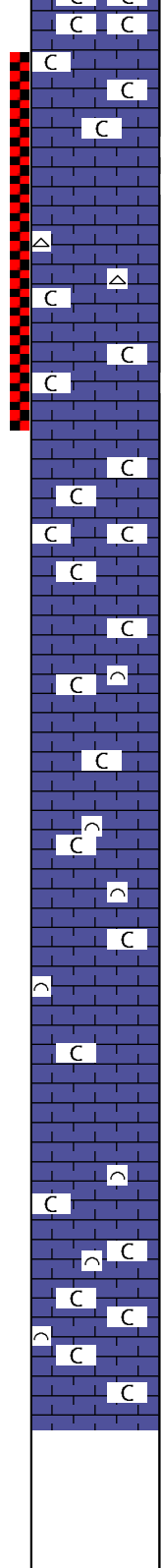
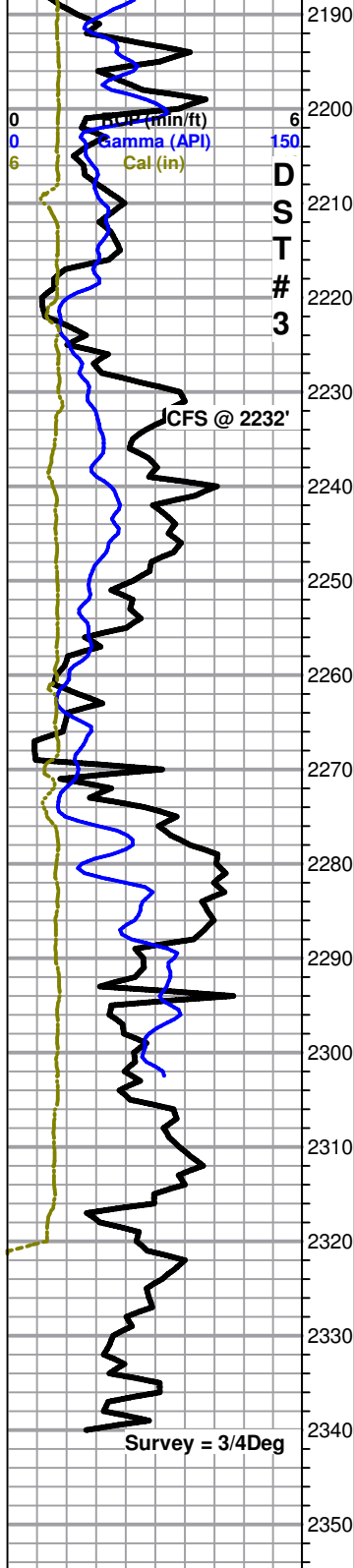
LS as above, slightly chalky, no show or odor

LS, gray to cream, micro-xln, mostly dense with poor visible porosity, some scattered slightly fossiliferous. fairly chalky, no show or odor

LS as above, fairly chalky, no show or odor

2340' 30&60" LS as above, some soft and chalky in part, fairly chalky sample, no show or odor

Rotary TD 2340' @ 0900hrs 3/12/20
Eli Wireline Services Logging TD @ 2341'
Complete Logging Operations @ 1620hrs 3/12/20
Geologist Jeremy Schwartz off location @ 1700hrs 3/12/20



Mud-Co Mud chk
2334'
3/12/20
Vis:42 Wt: 11.2
PV:10 YP:14
WL: 11.2
Cake:2/32
pH: 7.0
Ca: 2,160ppm
CHL: 87,000ppm
Sol:7.6 LCM:0
DMC: \$0.00
CMC: \$6,285.61

DRILL STEM TEST REPORT

Shelby Resources LLC

18-21s-17w

13949 W. Colfax Ave BLDG 1 STE 120
Lakewood CO 80401+3248

P-F- Unit

Job Ticket: 65756

DST#: 1

ATTN: Jeremy Schwartz

Test Start: 2020.03.10 @ 13:43:00



GENERAL INFORMATION:

Formation: **Herrington-Kriter**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:05:40

Time Test Ended: 19:23:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: **2011.00 ft (KB) To 2080.00 ft (KB) (TVD)**

Reference Elevations: 2084.00 ft (KB)

Total Depth: 2080.00 ft (KB) (TVD)

2076.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 27.82 psig @ 2012.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.03.10

End Date: 2020.03.10

Last Calib.: 2020.03.10

Start Time: 13:43:01

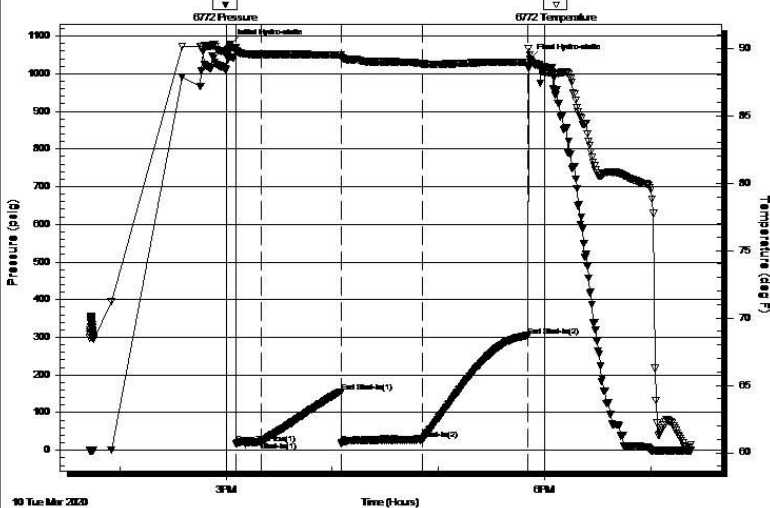
End Time: 19:23:10

Time On Btm: 2020.03.10 @ 15:02:20

Time Off Btm: 2020.03.10 @ 17:51:30

TEST COMMENT: IF-15- Built to 5"
IS-45- no blow back
FF-45- BOB 37mins total build of 14"
FSI-60- no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1078.36	89.98	Initial Hydro-static
4	17.66	89.77	Open To Flow (1)
18	22.34	89.55	Shut-In(1)
63	155.08	89.53	End Shut-In(1)
63	17.45	89.36	Open To Flow (2)
109	27.82	88.85	Shut-In(2)
168	303.38	88.96	End Shut-In(2)
170	1039.22	89.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Mud 100%M	0.21
0.00	GIP 30'	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Shelby Resources LLC

18-21s-17w

13949 W. Colfax Ave BLDG 1 STE 120
Lakewood CO 80401+3248

P-F- Unit

Job Ticket: 65757

DST#: 2

ATTN: Jeremy Schwartz

Test Start: 2020.03.11 @ 02:45:00



TRILOBITE
TESTING, INC

GENERAL INFORMATION:

Formation: **Winfield**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:30:50

Time Test Ended: 09:42:09

Test Type: Conventional Bottom Hole (Initial)

Tester: Benny Mulligan

Unit No: 66

Interval: **2076.00 ft (KB) To 2151.00 ft (KB) (TVD)**

Reference Elevations: 2084.00 ft (KB)

Total Depth: 2151.00 ft (KB) (TVD)

2076.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6772 Inside

Press@RunDepth: 150.50 psig @ 2077.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.03.11 End Date: 2020.03.11

Last Calib.: 2020.03.11

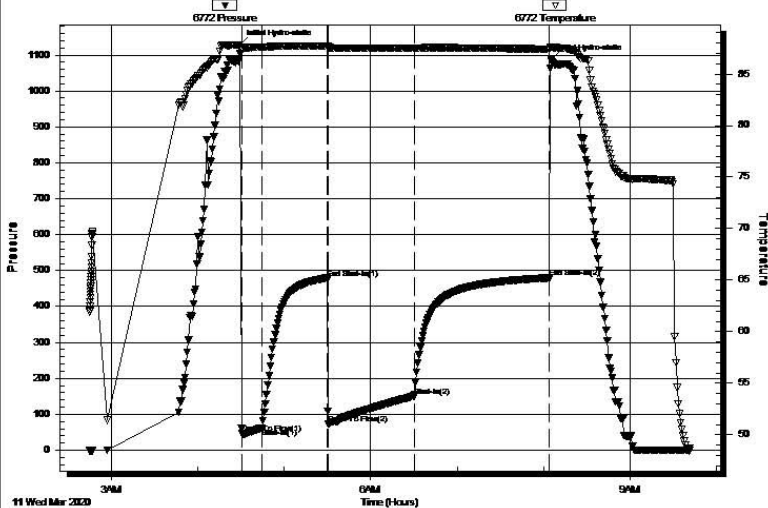
Start Time: 02:45:01 End Time: 09:42:10

Time On Btm: 2020.03.11 @ 04:29:10

Time Off Btm: 2020.03.11 @ 08:05:30

TEST COMMENT: IF-15-BOB 1min total build of 80"
IS-45- no blow back
FF-60- BOB 15sec total build of 85"
FSI-90- 2 1/2" blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1128.37	87.81	Initial Hydro-static
2	47.62	87.52	Open To Flow (1)
16	62.06	87.58	Shut-In(1)
61	476.51	87.71	End Shut-In(1)
62	72.48	87.60	Open To Flow (2)
121	150.50	87.47	Shut-In(2)
215	479.67	87.42	End Shut-In(2)
217	1087.03	87.59	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Mud 100%M	0.42
120.00	W.M. 30%W 70%M	0.85
120.00	M.W. 80%W 20%M	0.85

Gas Rates

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

