KOLAR Document ID: 1730873

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 # 33922
Name: Mustang Energy Corporation
Address 1: PO BOX 1121
Address 2:
City: HAYS State: KS Zip: 67601 + 1121
Contact Person: Rod Brin
Phone: (785) 623-0533
CONTRACTOR: License # 31548
Name: Discovery Drilling
Wellsite Geologist: Cameron Brin
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 #:

09/12/2023 Spud Date or Recompletion Date
09/17/2023 Date Reached TD
09/18/2023 Completion Date or Recompletion Date

API No.: 15-051-27094-00-00
Spot Description:
__ - __ - N2 - N2 Sec. 31 Twp. 11 S. R. 19 ☐ East ☑ West
660 Feet from ☑ North / ☐ South Line of Section
2640 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Ellis
Lease Name: M-S UNIT Well #: 1-31
Field Name:
Producing Formation: none
Elevation: Ground: 2147 Kelly Bushing: 2155
Total Vertical Depth: 3800 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 221 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: 5200 ppm Fluid volume: 240 bbls
Dewatering method used: Haul Off Pit
Location of fluid disposal if hauled offsite:
Operator Name: Cla Mar Oil Co
Lease Name: Dechant SWD License #: 6509
Quarter SW Sec. 17 Twp. 14 S. R. 18 ☐ East ☑ West
County: Ellis Permit #: D-24,904

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:** David Befort **Date:** 10/05/2023

Operator Name: Mustang Energy Corporation Lease Name: M-S UNIT Well #: 1-31

Sec. 31 Twp. 11 S. R. 19 ☐ East ☑ West County: Ellis

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 *(Attach Additional Sheets)*	☑ Yes	☐ No
Samples Sent to Geological Survey	☑ Yes	☐ No
Cores Taken	☐ Yes	☑ No
Electric Log Run	☑ Yes	☐ No
Geologist Report / Mud Logs	☑ Yes	☐ No

List All E. Logs Run:

Micro
Neutron Density
Dual Induction

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
Anhydrite	1519	+636
Base	1560	+595
Heebner	3391	-1236
LKC	3430	-1275
Base	3655	-1500
Arbuckle	3732	-1577

CASING RECORD ☑ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	.25	.625	23	221	80/20 POZ	150	2%gel 3%cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

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

Date of first Production/Injection or Resumed Production/ Injection:	Producing Method: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Mustang Energy Corporation
Well Name	M-S UNIT 1-31
Doc ID	1730873

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	.25	.625	23	221	80/20 POZ	150	2%gel 3%cc

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. 3425

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9/12/23	31	11S	19W	Ellis	KS		11:30 am

Location Yocemento N Buckeye E 1/2 4N 1/2W

Lease M-S Well No. 1-31

Owner

Contractor Discovery

Type Job Surface

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.

Hole Size T.D. 221

Csg. 8 5/8 Depth

Charge To Mustang Energy

Tbg. Size Depth

Street

Tool Depth

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg. Shoe Joint

Cement Amount Ordered 150 80/20 3cc 2%

Meas Line Displace 13.10

EQUIPMENT

Pumptrk 17	No.	Cementer Helper	Jordy
Bulktrk 14	No.	Driver Driver	Doug
~~Bulktrk~~ PU	No.	Driver Driver	Nick

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

Ran Surface pipe, broke Circulation pumped 150sks, displaced 13.10 bbl Cement did circulate!

Thanks!

X Signature

Common	120
Poz. Mix	30
Gel.	3
Calcium	6
Hulls	
Salt	
Flowseal	
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	159
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	Surface
Mileage	15
Tax	
Discount	
Total Charge	

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. 3592

Date	Sec.	Twp.	Range	County	State	On Location	Finish
9/18/23	31	11	19	Ellis	Kansas		12:15am

Location Yocemento + I-70 7N 2W ½N Winto

Lease M-S unit Well No. 1-31

Contractor Discovery Drilling

Type Job

Hole Size 7 7/8 T.D. 3800

Csg. Drill pipe Depth 3700

Tbg. Size Depth

Tool Depth

Cement Left in Csg. Shoe Joint

Meas Line Displace

Owner
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.

Charge To Mustang Energy

Street

City State

The above was done to satisfaction and supervision of owner agent or contractor.

Cement Amount Ordered 305 60/40 4% gel ¼# flow

EQUIPMENT

Pumptrk 16	No.	Cementer	
		Helper	Tim
Bulktrk 9	No.	Driver	
		Driver	Doug
Bulktrk PU	No.	Driver	
		Driver	David

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

3700' - 50 sks
1500' - 50 sks
800' - 100 sks
270' - 50 sks
40' - 10 sks
Rathole - 30 sks
Mouse hole - 15 sks

Cement Did Circulate

X Signature

Common	183
Poz. Mix	122
Gel.	11
Calcium	
Hulls	
Salt	
Flowseal	75
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	316
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
1-Dry hole plug	
Pumptrk Charge	plug
Mileage	15
Tax	
Discount	
Total Charge	

Thanks

MUSTANG ENERGY CORPORATION

Scale 1:240 Imperial

Well Name:	M-S UNIT #1-31		
Surface Location:	N2, N2, Sec 31, T11S, R19W		
Bottom Location:			
API:	15-051-27094		
License Number:	33922		
Spud Date:	9/12/2023	Time:	8:00 AM
Region:	ELLIS COUNTY		
Drilling Completed:	9/17/2023	Time:	11:00 AM
Surface Coordinates:	660' FNL & 2640' FEL		
Bottom Hole Coordinates:			
Ground Elevation:	2147.00ft		
K.B. Elevation:	2155.00ft		
Logged Interval:	3050.00ft	To:	3800.00ft
Total Depth:	3800.00ft		
Formation:	ARBUCKLE		
Drilling Fluid Type:	CHEMICAL MUD		

OPERATOR

Company:	MUSTANG ENERGY CORPORATION		
Address:	PO BOX 1121 HAYS, KS 67601		
Contact Geologist:	ROD BRIN		
Contact Phone Nbr:	785-623-0533		
Well Name:	M-S UNIT #1-31		
Location:	N2, N2, Sec 31, T11S, R19W		
API:	15-051-27094		
Pool:		Field:	STAR
State:	KS	Country:	

SURFACE CO-ORDINATES

Well Type:	Vertical
Longitude:	-99.472789
Latitude:	39.057739
N/S Co-ord:	660' FNL
E/W Co-ord:	2640' FEL

LOGGED BY

Company:	KEYSTONE CONSULTING, LLC		
Address:	2511 E 19TH HAYS, KS 67601		
Phone Nbr:	(785) 639-0721		
Logged By:	Geologist	Name:	CAMERON BRIN

CONTRACTOR

Contractor:	DISCOVERY DRILLING		
Rig #:	2		
Rig Type:	MUD ROTARY		
Spud Date:	9/12/2023	Time:	8:00 AM
TD Date:	9/17/2023	Time:	11:00 AM

Rig Release: 9/18/2023 Time: 12:15 AM

ELEVATIONS

K.B. Elevation: 2155.00ft Ground Elevation: 2147.00ft
K.B. to Ground: 8.00ft

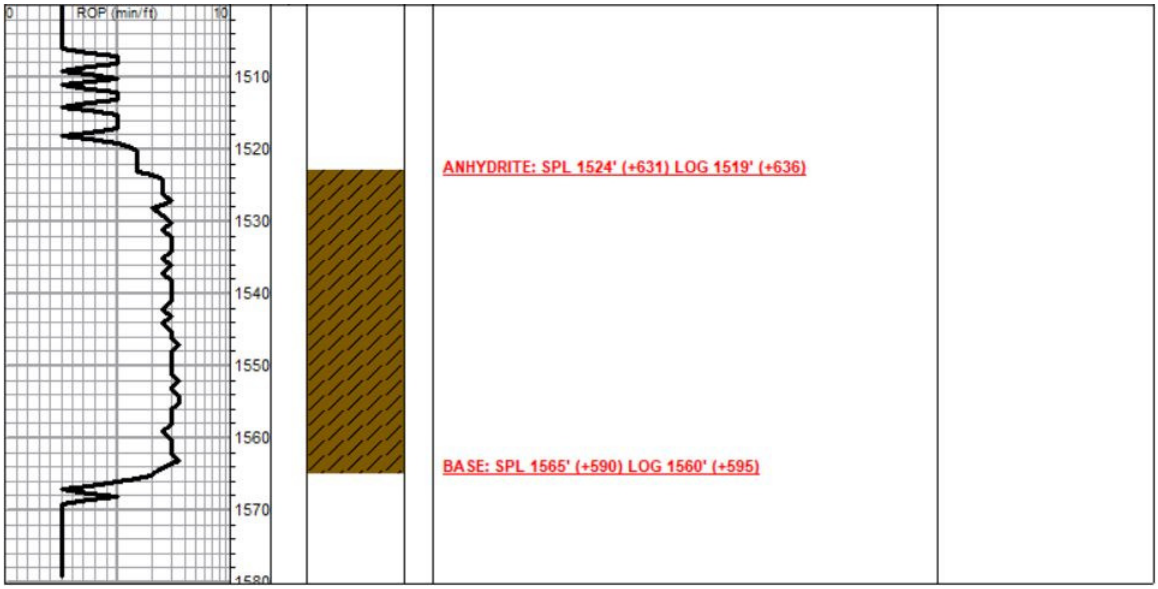
NOTES

DUE TO NEGATIVE RESULTS ON DST #1, DECISION WAS MADE TO PLUG AND ABANDON THE M-S UNIT #1-31

TOPS COMPARISON

	M-S UNIT #1-31				• ROXANNE #1-31 MUSTANG ENERGY SE, NW, NW, NE, SEC 31,T11S, R19W						P&A 12/14/95 DALE SOLOMON B #6-31 DON E PRATT NW,NW,NE, Sec. 31, T11S, R19W						P&A 12/18/90 DALE SOLOMON B #7-31 DON E PRATT SW,NW,NE, Sec. 31, T11S, R19W						D&A 9/11/82 SPREEN B #2-31 DON E PRATT NE, NE, NW, Sec. 31, T11S, R19W					
	KB	2155	GL	2147	KB	2142					KB	2147					KB	2155					KB	2137				
	LOG TOPS		SAMPLE TOPS		LOG		LOG		SMPL.		COMP. CARD		LOG		SMPL.		LOGS		LOG		SMPL.		GEO REPORT		LOG		SMPL.	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.		CORR.		DEPTH	DATUM	CORR.		CORR.		DEPTH	DATUM	CORR.		CORR.		DEPTH	DATUM	CORR.		CORR.	
ANHYDRITE TOP	1519	636	1524	631	1503	639	-	3	-	8	1510	637	-	1	-	6	1521	634	+	2	-	3	1507	630	+	6	+	1
BASE	1560	595	1565	590	1544	598	-	3	-	8	1546	601	-	6	-	11	1558	597	-	2	-	7	1551	586	+	9	+	4
TOPEKA	3169	-1014	3170	-1015	3146	-1004	-	10	-	11	3150	-1003	-	11	-	12	3167	-1012	-	2	-	3	3160	-1023	+	9	+	8
HEEBNER SHALE	3391	-1236	3390	-1235	3367	-1225	-	11	-	10	3372	-1225	-	11	-	10	3388	-1233	-	3	-	2	3384	-1247	+	11	+	12
TORONTO	3413	-1258	3409	-1254	3386	-1244	-	14	-	10	3394	-1247	-	11	-	7	3411	-1256	-	2	+	2	3405	-1268	+	10	+	14
LKC	3430	-1275	3430	-1275	3407	-1265	-	10	-	10	3414	-1267	-	8	-	8	3430	-1275	+	0	+	0	3424	-1287	+	12	+	12
BKC	3655	-1500	3651	-1496	3630	-1488	-	12	-	8	3636	-1489	-	11	-	7	3654	-1499	-	1	+	3	3649	-1512	+	12	+	16
CONGLOMERATE	3700	-1545	3700	-1545																								
ARBUCKLE	3732	-1577	3725	-1570	3699	-1557	-	20	-	13	3706	-1559	-	18	-	11	3730	-1575	-	2	+	5						
TOTAL DEPTH	3800	-1645	3800	-1645	3791	-1649	+	4	+	4	3800	-1653	+	8	+	8	3781	-1626	-	19	-	19	3749	-1612	-	33	-	33

ANHYDRITE



DST #1 3682'-3740' (ARBUCKLE)

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mustang Energy Corporation

PO BOX 1121
Hays KS 67601+1121

ATTN: Cameron Brin

31-11s-19w Ellis KS

M-S-Unit #1-31

Job Ticket: 71140 **DST#: 1**

Test Start: 2023.09.16 @ 23:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:04:57
Time Test Ended: 05:16:52

Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer J Staab
Unit No: 84

Interval: 3682.00 ft (KB) To 3740.00 ft (KB) (TVD)
Total Depth: 3740.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

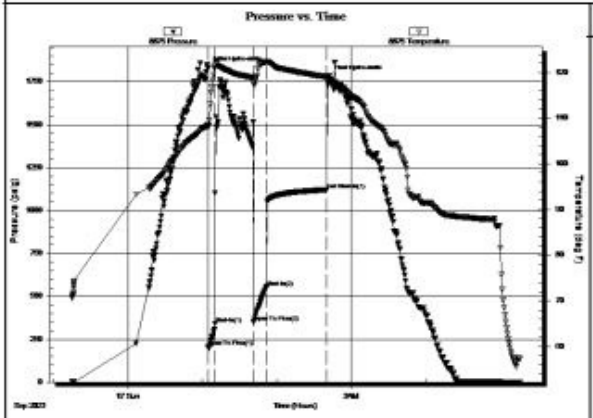
Reference Elevations: 2155.00 ft (KB)
2147.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8875 **Inside**
Press@RunDepth: 338.97 psig @ 3685.00 ft (KB)
Start Date: 2023.09.16 End Date: 2023.09.17
Start Time: 23:15:01 End Time: 05:16:52

Capacity: psig
Last Calib.: 2023.09.17
Time On Btm: 2023.09.17 @ 01:04:42
Time Off Btm: 2023.09.17 @ 02:42:22

TEST COMMENT: 5-IF-BOB 1.5 mins Built to 54"

30-ISI-Weak Surface Died @20 mins ***Trapped Hydrostatic***
10-FF-BOB 1.5 mins Built to 85.75"
45-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.00	108.41	Initial Hydro-static
1	204.28	108.02	Open To Flow (1)
6	338.97	120.98	Shut-In(1)
37	350.92	118.28	Open To Flow (2)
48	554.46	122.33	Shut-In(2)
96	1121.46	119.07	End Shut-In(1)
98	1781.54	118.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	SMCW 10%M 90%W	3.97
660.00	MW w/ scum oil 50%M 50%W	9.36
120.00	SWCM w/ oil spots 10%W 90%M	1.70
0.00	RW=.294@55F=29,000	0.00

Gas Rates

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

Trilobite Testing, Inc Ref. No: 71140 Printed: 2023.09.17 @ 08:05:02

ROCK TYPES

Dolprim, Dolsec, Lmst fw7>, Lscongl, shale, gry, Carbon Sh, shale, red

ACCESSORIES

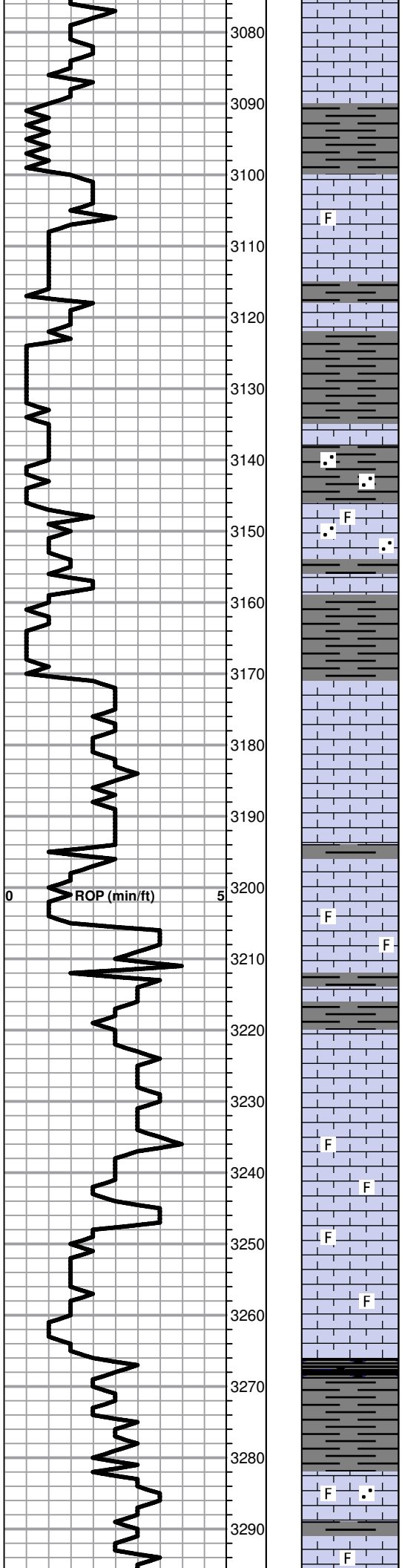
MINERAL
- Chert, dark
- Sandy
- Silty
- Chert White
- Euhed rhombs of dol or

FOSSIL
- F Fossils < 20%
- Oolite
- Oomoldic

STRINGER
- Chert
- Limestone
- green shale

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)

Curve Track #1 ROP (min/ft)	Depth | Intervals (Cored Interval, DST Interval)	DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3
1:240 Imperial						1:240 Imperial
0 ROP (min/ft) 5	3060				**1' DRILL TIME FROM 1500'-1580' FOR ANHYDRITE** **1' DRILL TIME FROM 3050'-RTD** **10' WET & DRY SAMEPLES FROM 3100'-RTD**	GEO ON LOCATION @ 6 AM 9/15/23 8 5/8" SURFACE CASING SET @ 221' KB
	3070				Lm- tan-gray, fnxln	SURVEY @ 221' (3/4°)



Lm- A/A, sli cherty

Sh- gray-green, blocky

Lm- tan-gray, fnxln-v.fngrn, few scat foss

Lm- A/A, cherty in prt, chalky in prt

Sh- gray, soft

Lm- tan, fnxln

Sh- gray, sandy in prt

Lm- tan-gray, v.fn-fnxln, cherty in prt, sact foss, scat Ss clusters, v. fngrn, well sorted, well rounded

Sh- gray, soft

TOPEKA: SPL 3170' (-1015) LOG 3169' (-1014)

Lm- crm, fnxln-fngrn, cherty in prt

Lm- A/A

Lm- crm-gray, cherty

Lm- crm-tan-gray, v.fnxln-fngrn, scat foss, cherty in prt

Sh- gray, waxy

Lm- tan-gray, v.fnxln, cherty

Lm- crm, v.fn-fnxln, scat foss, cherty in prt

Lm- tan, fnxln-fngrn, scat foss, sli chalky

Lm- A/A, tr xln por, NSO

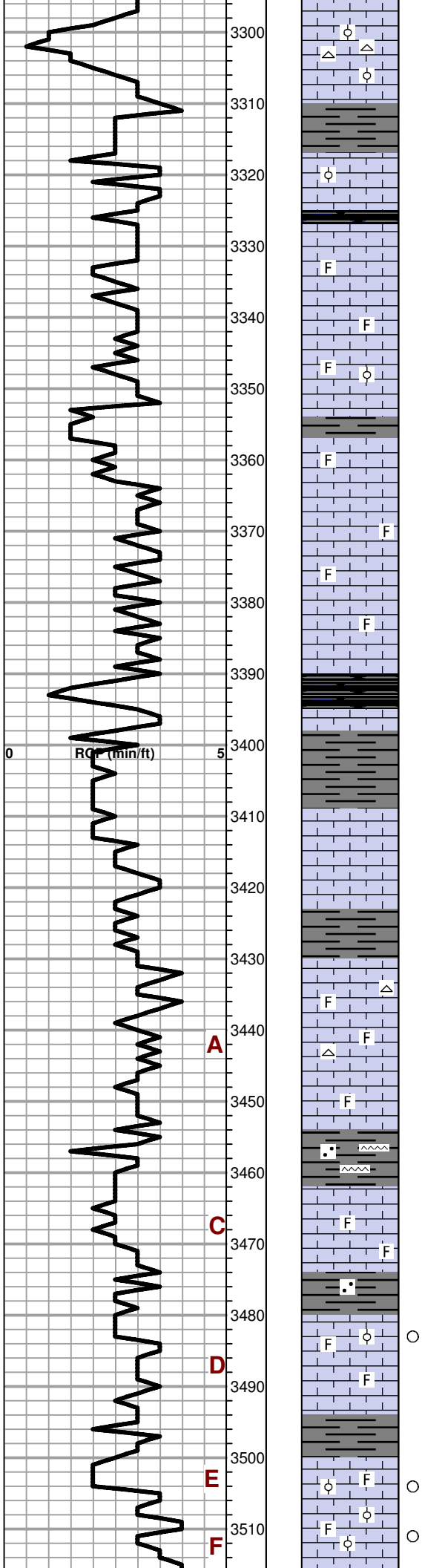
Sh- blk, carb

Sh- gray, soft

Lm- tan, fnxln-fngrn, scat foss, sandy

Lm- crm-tan, micro-fnxln, scat foss, cherty in prt

DISPLACEMENT
COMPLETE @ 3003'



Lm- crm-tan, micro-fnxln, scat foss, cherty in prt

Lm- crm, fnxln, oolitic in prt, scat tan-wt chert

Sh- gray, waxy

Lm- crm-gray, v.fn-fnxln, oolitic in prt, chalky in prt

Sh- blk, carb

Lm- crm-tan-gray, micro-fnxln, scat foss, cherty

Lm- crm-tan, fnxln, oolitic in prt, no vis stn, v. sli sheen FO in cup, v. faint odor

Lm- crm-tan, v.fn-fnxln, foss

Lm- crm, v.fn-fnxln, foss, sli chalky

Lm- A/A

HEEBNER: SPL 3390' (-1235) LOG 3391' (-1236)

Sh- blk, carb

Lm- crm-tan, v.fnxln, dense

Sh- gray- blk

TORONTO: SPL 3409' (-1254) LOG 3413' (-1258)

Lm- crm-tan, v.fnxln, cherty in prt

Sh- gray, splintery

LANSING: SPL 3430' (-1275) LOG 3430' (-1275)

Lm- crm, v.fnxln, foss, scat tan-wt chert

Lm-chert- A/A, sli chalky in prt

Sh- lt. gray- green, sli sandy
Chert- tan-wt, angular, fresh

Lm- crm-tan, v.fnxln-fngrn, scat foss, cherty in prt

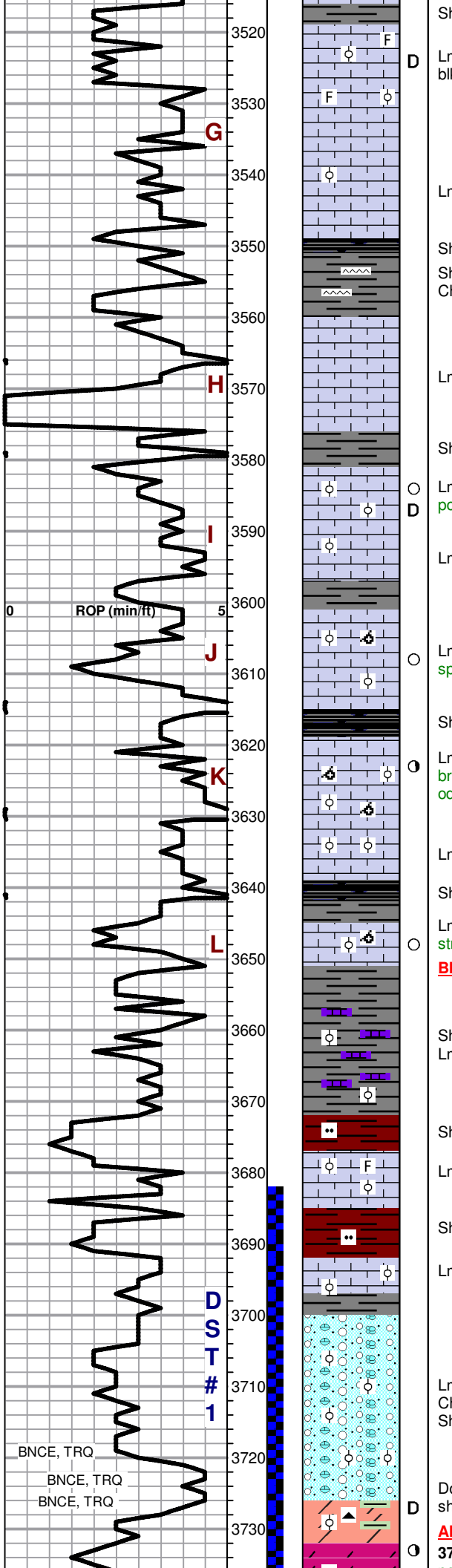
Sh- lt. gray-green, sandy

Lm- crm-tan, v.fn-fnxln, foss, oolitic in prt, 4-5 scat pcs w/ pr ppt-oolitic por, spotty brn stn in por, NSFO, no odor

Sh- gray

Lm- crm, v.fn-fnxln, foss, oolitic, 3-4 scat pcs w/ v. pr ppt por, v. spotty brn face stn & tr stn in por, NSFO, no odor

Lm- crm, v.fn-fnxln, foss, oolitic in prt, 1 pc w/ v. pr ppt por, brn spotty face stn, NSFO, no odor



Sh- gray, soft

Lm- crm-tan, v.fnxln, foss, oolitic in prt, cherty, dense, 2-3 pcs w/ dead blk flaky stn

Lm- A/A, no stn

Sh- blk, carb

Sh- gray
Chert- tan-wt, sub angular- angular

Lm- crm, v.fnxln, dense, cherty

CLOCK STOPPED FROM 3570'-3575'

Sh- gray

Lm- crm, fnxln, oolitic, scat pr ppt-inoolitic por, scat spotty brn stn in por & blk dead stn, NSFO, mod odor

Lm- A/A

Lm- crm, v.fnxln, oolitic in prt, scat pr ppt & tr oomoldic por, scat brn spotty stn & blk dead stn, NSFO, mod odor

Sh- blk, carb

Lm- crm, fnxln, oolitic, scat pr ppt & pr-fr oomoldic-oolicastic por, scat brn-blk sli sat stn in por, mod SFO in cup & bleeding when heated, gd odor

Lm- crm, fnxln, oolitic, chalky in prt

Sh- blk, carb

Lm- crm, fnxln, oolitic, scat pr ppt & pr-fr oomoldic por, scat spotty, brn stn in por, sli SFO in cup, mod odor

BKC: SPL 3651' (-1496) LOG 3655' (-1500)

Sh- green- gray
Lm- crm, fnxln, foss, oolitic, chalky in prt

Sh- red, silty

Lm- crm, v.fn-fnxln, foss, oolitic, cherty, dense

Sh- red, silty

Lm- crm- tan, v.fn-fnxln, oolitic

DST #1
3682'-3740' (ARB)
5-30-10-45
300' SMCW
660' MW w/ SCUM O
120' SWCM w/ O SPTS
SIP: 1121#
INITIAL SHUT IN TRAPPED HYDROSTATIC

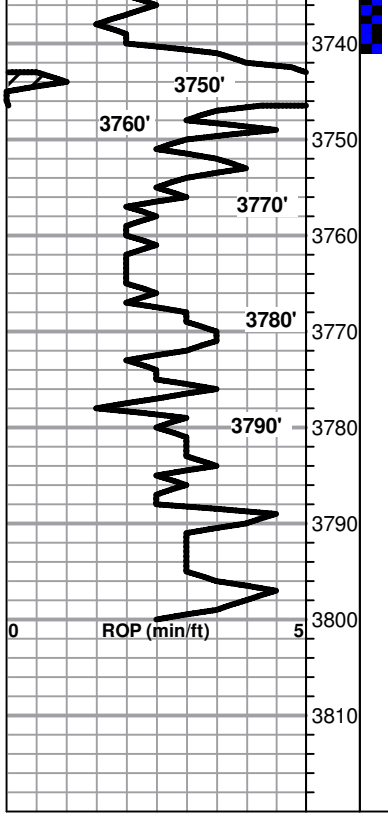
Lm- A/A, dense
Chert-tan, sub angular, oolitic
Sh- brn-green

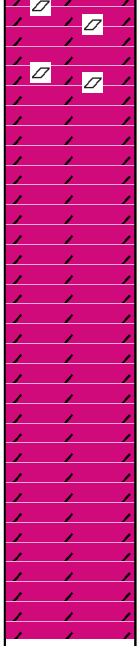
Dolo- crm, fn-mdxln, reworked, scat pr xln por, dead blk stn, scat turq shale, Lm- crm, v.fn-fnxln, oolitic, Chert- tan-orange

ARBUCKLE: SPL 3725' (-1570) LOG 3732' (-1577)

3734'-60min Dolo-crm, md-corxln, rhombic in prt, scat fairly tight inxln

CFS @ 3731'





◑	por w/ few scat vugs, brn-blk sli sat stn, sheen FO in cup & upon crush, mod odor	CFS @ 3735'
	3737'-30min Dolo- crm, md-corxln, rhombic, pr-fr inxln por w/ few scat vugs, brn-blk sub sat stn in por, fr sheen FO in cup & upon crush, mod odor	CFS @ 3737'
○		CFS @ 3740'
○	**3740'**- Dolo- A/A	SURVEY @ 3740' (3°) MISRUN
○	**3750'**- Dolo- crm, fn-corxln, rhombic in prt, scat pr ppt-inxln por, few scat pcs w/ spotty brn-blk stn, few FO drops in cup, faint odor	PIPE STRAP 0.87' SHORT TO BOARD
○	**3760'**- Dolo, crm, fn-mdxln, dense, sucrosic in prt, scat pr ppt-inxln por, scat spotty brn-blk stn, v. sli sheen FO in cup, mod odor	
	3770'- Dolo- A/A	
D	**3780'**- Dolo- crm, fn-mdxln, sucrosic in prt, scat pr ppt-inxln & tr vuggy por, few scat pcs w/ spotty brn-blk stn, sli sheen FO in cup, faint odor	
	3790'- Dolo- crm, fnxln, sucrosic in prt, scat pr inxln & tr vuggy por, few scat pcs w/ blk dead stn, NSFO, pr odor	
	Dolo- A/A, NSO, no odor	
	RTD: SPL 3800' (-1645)	SURVEY @ RTD (1 3/4°)
		GEO OFF LOCATION @ 5:30 PM 9/17/23

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corporation**

PO Box 1121
Hays KS 67601+1121

ATTN: Cameron Brin

M-S-Unit #1-31

31-11s-19w Ellis,KS

Start Date: 2023.09.16 @ 23:15:00
End Date: 2023.09.17 @ 05:16:52
Job Ticket #: 71140 DST #: 1

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620

Printed: 2023.09.19 @ 16:24:28

DRILL STEM TEST REPORT

Mustang Energy Corporation

PO Box 1121
Hays KS 67601+1121

ATTN: Cameron Brin

31-11s-19w Ellis,KS

M-S-Unit #1-31

Job Ticket: 71140 **DST#: 1**

Test Start: 2023.09.16 @ 23:15:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:04:57
Time Test Ended: 05:16:52

Test Type: Conventional Bottom Hole (Initial)
Tester: Spencer J Staab
Unit No: 84

Interval: 3682.00 ft (KB) To 3740.00 ft (KB) (TVD)
Total Depth: 3740.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

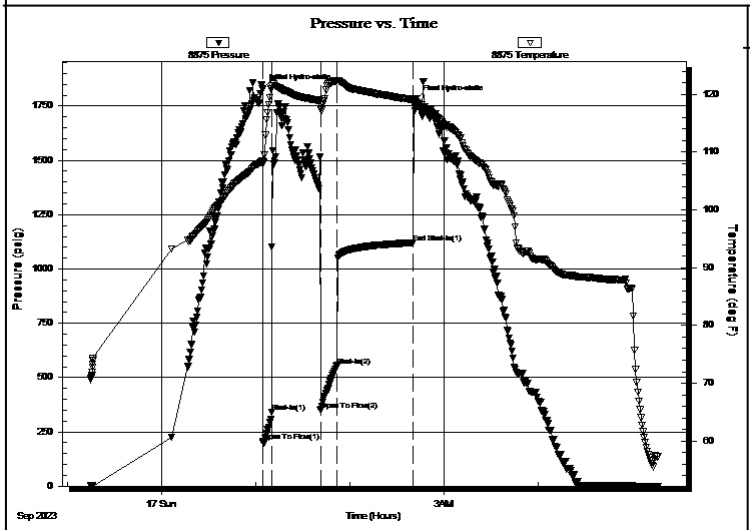
Reference Elevations: 2155.00 ft (KB)
2147.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 8875 **Inside**

Press@RunDepth: 338.97 psig @ 3685.00 ft (KB)
Start Date: 2023.09.16 End Date: 2023.09.17
Start Time: 23:15:01 End Time: 05:16:52

Capacity: psig
Last Calib.: 2023.09.17
Time On Btm: 2023.09.17 @ 01:04:42
Time Off Btm: 2023.09.17 @ 02:42:22

TEST COMMENT: 5-IF-BOB 1.5 mins Built to 54"
30-ISI-Weak Surface Died @20 mins - tool slid - ***Trapped Hydrostatic***
10-FF-BOB 1.5 mins Built to 85.75"
45-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1831.00	108.41	Initial Hydro-static
1	204.28	108.02	Open To Flow (1)
6	338.97	120.98	Shut-In(1)
37	350.92	118.28	Open To Flow (2)
48	554.46	122.33	Shut-In(2)
96	1121.46	119.07	End Shut-In(1)
98	1781.54	118.76	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
300.00	SMCW 10%M 90%W	3.97
660.00	MW w / scum oil 50%M 50%W	9.36
120.00	SWCM w / oil spots 10%W 90%M	1.70
0.00	RW=.294@55F=29,000	0.00

Gas Rates

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

DRILL STEM TEST REPORT

Mustang Energy Corporation

PO Box 1121
Hays KS 67601+1121

ATTN: Cameron Brin

31-11s-19w Ellis,KS

M-S-Unit #1-31

Job Ticket: 71140 **DST#: 1**

Test Start: 2023.09.16 @ 23:15:00

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Unit No: 84

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Total Depth: 3740.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

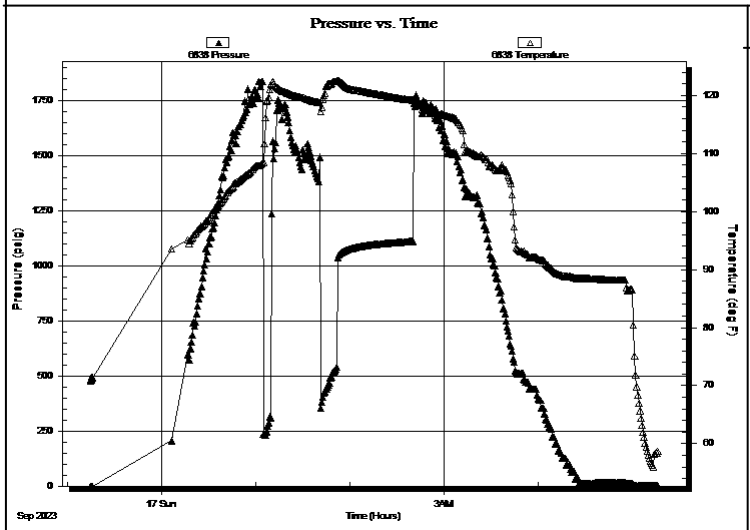
Reference Elevations: 2155.00 ft (KB)
2147.00 ft (CF)
KB to GR/CF: 8.00 ft

Serial #: 6838 **Inside**

Press@RunDepth: psig @ 3685.00 ft (KB)
Start Date: 2023.09.16 End Date: 2023.09.17
Start Time: 23:15:01 End Time: 05:16:52

Capacity: psig
Last Calib.: 2023.09.17
Time On Btm:
Time Off Btm:

TEST COMMENT: 5-IF-BOB 1.5 mins Built to 54"
30-ISI-Weak Surface Died @20 mins - tool slid - ***Trapped Hydrostatic***
10-FF-BOB 1.5 mins Built to 85.75"
45-FSI-No Return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
300.00	SMCW 10%M 90%W	3.97
660.00	MW w / scum oil 50%M 50%W	9.36
120.00	SWCM w / oil spots 10%W 90%M	1.70
0.00	RW=.294@55F=29,000	0.00

Gas Rates

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

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corporation

PO Box 1121
Hays KS 67601+1121

ATTN: Cameron Brin

31-11s-19w Ellis,KS

M-S-Unit #1-31

Job Ticket: 71140 **DST#: 1**

Test Start: 2023.09.16 @ 23:15:00

Tool Information

Drill Pipe:	Length:	3628.00 ft	Diameter:	3.82 inches	Volume:	51.43 bbl	Tool Weight:		2200.00 daN
Heavy Wt. Pipe:	Length:	ft	Diameter:	2.75 inches	Volume:	- bbl	Weight set on Packer:		25000.00 daN
Drill Collar:	Length:	30.00 ft	Diameter:	2.25 inches	Volume:	0.15 bbl	Weight to Pull Loose:		70000.00 daN
					Total Volume:	- bbl	Tool Chased		ft
Drill Pipe Above KB:		3.00 ft					String Weight:	Initial	62000.00 daN
Depth to Top Packer:		3682.00 ft						Final	66000.00 daN
Depth to Bottom Packer:		ft							
Interval betw een Packers:		58.00 ft							
Tool Length:		85.00 ft							
Number of Packers:		2	Diameter:	6.75 inches					

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			3656.00		
Shut In Tool	5.00			3661.00		
Hydraulic tool	5.00			3666.00		
Gap Sub	4.00			3670.00		
Safety Joint	3.00			3673.00		
Packer	5.00			3678.00	27.00	Bottom Of Top Packer
Packer	4.00			3682.00		
Stubb	1.00			3683.00		
Perforations	1.00			3684.00		
Change Over Sub	1.00			3685.00		
Recorder	0.00	6838	Inside	3685.00		
Recorder	0.00	8875	Inside	3685.00		
Drill Pipe	32.00			3717.00		
Change Over Sub	1.00			3718.00		
Perforations	19.00			3737.00		
Bullnose	3.00			3740.00	58.00	Bottom Packers & Anchor
Total Tool Length:	**85.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corporation

PO Box 1121
Hays KS 67601+1121

ATTN: Cameron Brin

31-11s-19w Ellis,KS

M-S-Unit #1-31

Job Ticket: 71140 **DST#: 1**

Test Start: 2023.09.16 @ 23:15:00

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:	29000 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	7.20 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	3000.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	SMCW 10%M 90%W	3.975
660.00	MW w / scum oil 50%M 50%W	9.356
120.00	SWCM w / oil spots 10%W 90%M	1.701
0.00	RW=.294@55F=29,000	0.000

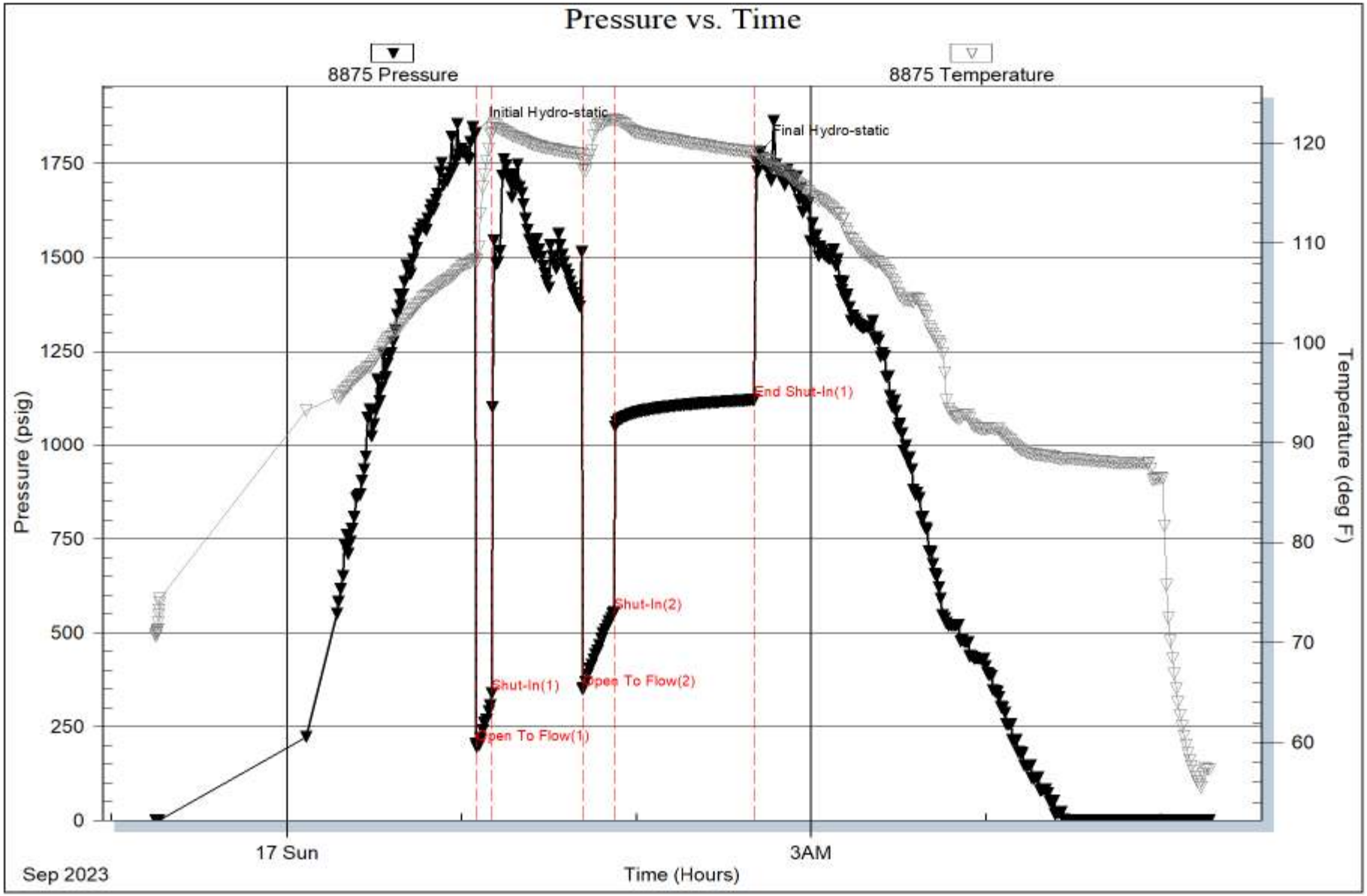
Total Length: 1080.00 ft Total Volume: 15.032 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

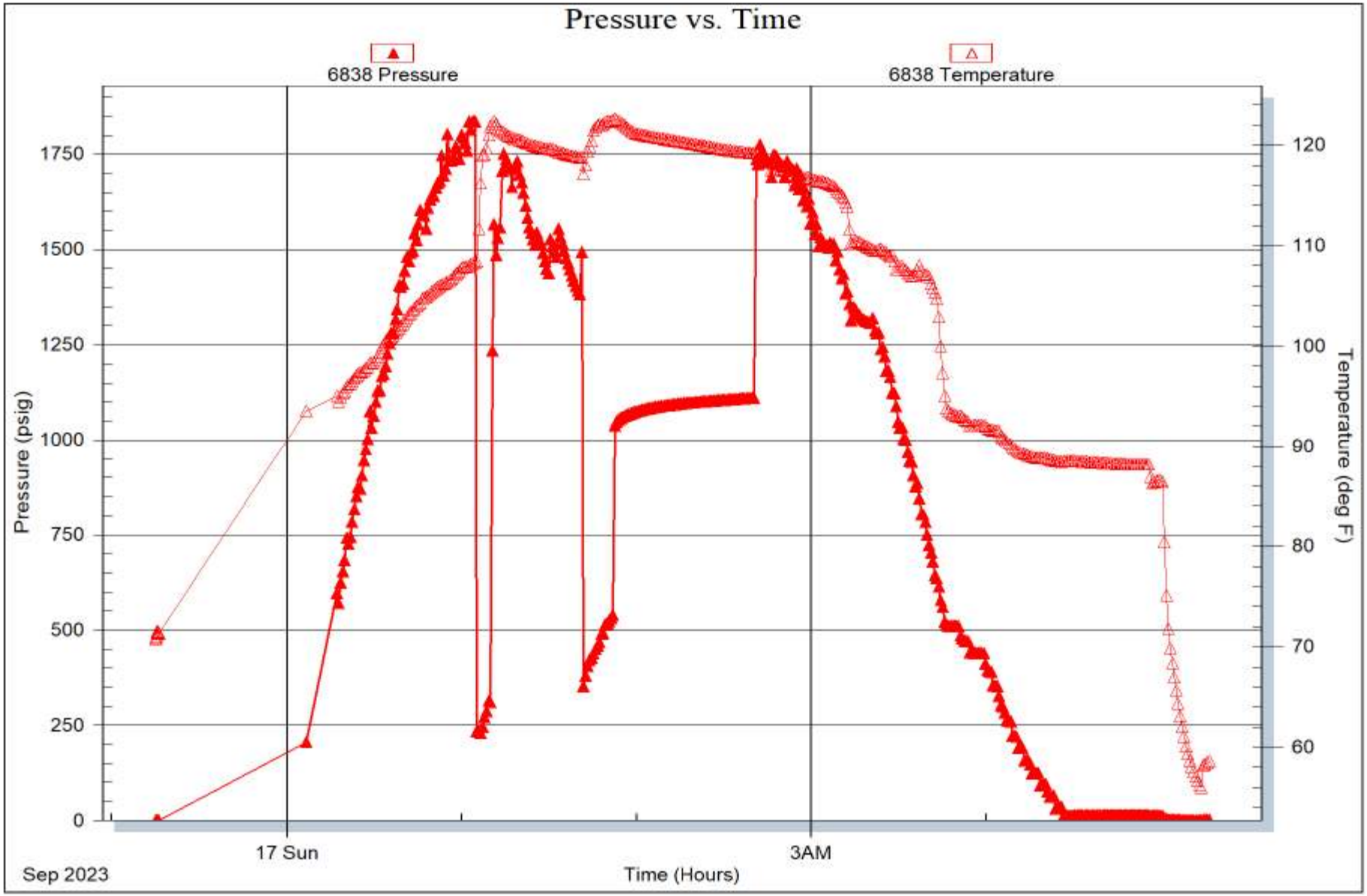
Recovery Comments: 2#LCM
RW=.294@55F

Serial #: 8875 **Inside** Mustang Energy Corporation M-S-Unit #1-31 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 71140 Printed: 2023.09.19 @ 16:24:29

Serial #: 6838 **Inside** Mustang Energy Corporation M-S-Unit #1-31 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 71140 Printed: 2023.09.19 @ 16:24:29

TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 71140

Well Name & No. M-S Unit #1-31 Test No. 1 Date 09/16/2023

Company Mustang Energy Corporation Elevation 2155' KB 2147' GL

Address PO BOX 1121 Hays Ks 67601 +1121

Co. Rep / Geo Cameron Brin Rig Discovery #2

Location: Sec. 31 Twp 11s Rge. 19w Co. Ellis State Ks

Interval Tested 3682' - 3740' Zone Tested Arbuckle

Anchor Length 58' Drill Pipe Run 3628' Mud Wt. 9.0

Top Packer Depth 3677' Drill Collars Run 30' Vis 54

Bottom Packer Depth 3682' Wt. Pipe Run — WL 7.2

Total Depth 3740' Chlorides 3000 ppm System LCM 2#

Blow Description 57- BOB 1.5 mins; Built to 54"
DST Weak Surface; Died @ 20 mins
77- BOB 1.5 mins; Built to 85.75"
75D- No Return

Rec 300'	Feet of SMCW	%gas	%oil	90 %water	10 %mud	
Rec 660'	Feet of MW w/scum oil	%gas	%oil	50 %water	50 %mud	
Rec 120'	Feet of SWCM w/oil spots	%gas	%oil	10 %water	90 %mud	
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 1080' BHT 119° Gravity ~~29.1~~ API RW ~~5.274~~ @ 55 °F Chlorides 29,000 ppm

Initial Hydrostatic 1831	☒ Test 1800	☐ Ruined Shale Packer	
Initial Flow 204 to 338	☐ Jars	☐ Ruined Packer	
Initial Shut-In — trapped Hydrostatic	☐ Circ Sub	☐ Hotel	
Final Flow 350 to 554	☐ Hourly Standby	☐ EM Tool Successful -350	
Final Shut-In 1121	☒ Mileage ~~44~~ 77 x 2 77+77	☐ Accessibility	
Final Hydrostatic 1781	☐ Sampler	☐ Gas Sample	
T- On Location 21:15	☐ Straddle	☐ Oversized Hole	
Initial Flow 5 T-Started 23:15	☐ Shale Packer	☐ Sub Total -350	
Initial Shut-In 30 T-Open 01:05	☐ Extra Packer	☐ Total 1604	
Final Flow 10 T-Pulled 02:35	☐ Extra Recorder	☒ Tool Loaded 09/17 @ 18:00	
Final Shut-In 45 T-Out 05:16	☐ Day Standby	☐ MP/DST Disc't	

Comments

Approved By Our Representative