

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 |
|--|---|

| CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used | | | | | | | |
|---|-------------------|---------------------------|-------------------|---------------|----------------|--------------|----------------------------|
| Report all strings set-conductor, surface, intermediate, production, etc. | | | | | | | |
| Purpose of String | Size Hole Drilled | Size Casing Set (In O.D.) | Weight Lbs. / Ft. | Setting Depth | Type of Cement | # Sacks Used | Type and Percent Additives |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| ADDITIONAL CEMENTING / SQUEEZE RECORD | | | | |
|--|------------------|----------------|--------------|----------------------------|
| Purpose: | Depth Top Bottom | Type of Cement | # Sacks Used | Type and Percent Additives |
| <input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone | | | | |
| | | | | |

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

| | | | | |
|---|--|---------|-------------|-----------------------|
| Date of first Production/Injection or Resumed Production/Injection: | Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____ | | | |
| Estimated Production Per 24 Hours | Oil Bbls. | Gas Mcf | Water Bbls. | Gas-Oil Ratio Gravity |

| | | |
|---|--|------------------------------------|
| DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i> | METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i> | PRODUCTION INTERVAL: Top Bottom |
|---|--|------------------------------------|

| 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
Cell 785-324-1041

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

No. 2738

| | | | | | | | | | | | | | | | |
|------|---------|------|----|------|----|-------|----|--------|-------|-------|----|-------------|--|--------|----------|
| Date | 3-23-22 | Sec. | 22 | Twp. | 11 | Range | 19 | County | Ellis | State | Ks | On Location | | Finish | 10:45 Am |
|------|---------|------|----|------|----|-------|----|--------|-------|-------|----|-------------|--|--------|----------|

Lease **VINE** Well No. **5** Location **YO CEMENTO N TO Riverview rd**

Contractor **DISCOVERY** Owner **12 EQS INTO**
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 **PTA** Charge To **MUSTANG ENERGY**

Hole Size **7 7/8** T.D. **3570**

Csg. Depth Street

Tbg. Size Depth City 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 **255M 60/40-4**
4 #10 seal

Meas Line Displace

EQUIPMENT

| | | | | | | |
|---------|----|-----|----------|------|----------|-----|
| Pumptrk | 17 | No. | Cementer | Bill | Common | 133 |
| | | | Helper | | Poz. Mix | 102 |

| | | | | | | |
|---------|--|-----|--------|------|------|---|
| Bulktrk | | No. | Driver | RICK | Gel. | 9 |
|---------|--|-----|--------|------|------|---|

| | | | | | | |
|---------|--|-----|--------|--------|---------|--|
| Bulktrk | | No. | Driver | Jordan | Calcium | |
|---------|--|-----|--------|--------|---------|--|

JOB SERVICES & REMARKS

Remarks: Hulls

Rat Hole **15** Salt

Mouse Hole **30** Flowseal **50#**

Centralizers Kol-Seal

Baskets Mud CLR 48

D/V or Port Collar CFL-117 or CD110 CAF 38

3480 Sand

1325 Handling **264**

600 Mileage

40 **10 sks**

FLOAT EQUIPMENT

Guide Shoe

Centralizer **1 8 3/8 Rubber plug**

Baskets **1 8 3/8 Baffle plate**
AFU Inserts **From Surface Job**

Float Shoe

Latch Down

1- 8 3/8 wood

Pumptrk Charge **plug**

Mileage **17**

Tax

Discount

Total Charge

Signature **Ryan Jack**

Thanks



MUSTANG

ENERGY CORPORATION

Scale 1:240 Imperial

Well Name: VINE #5
Surface Location: NW, NW, SE, SE, Sec. 22, T11S, R19W
Bottom Location:
API: 15-051-27030
License Number: 33922
Spud Date: 3/15/2022 Time: 3:00 PM
Region: ELLIS CO.
Drilling Completed: 3/22/2022 Time: 9:00 AM
Surface Coordinates: 1105' FSL & 1110' FEL
Bottom Hole Coordinates:
Ground Elevation: 1972.00ft
K.B. Elevation: 1980.00ft
Logged Interval: 2850.00ft To: 3570.00ft
Total Depth: 3570.00ft
Formation: ARBUCKLE
Drilling Fluid Type: CHEMICAL

OPERATOR

Company: MUSTANG ENERGY CORPORATION
Address: P.O. BOX 1121

Contact Geologist: ROD BRIN
Contact Phone Nbr: 785-623-0533
Well Name: VINE #5
Location: NW, NW, SE, SE, Sec. 22, T11S, R19W
API: 15-051-27030
Pool: Field: SOLOMON
State: KS Country:

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.411395
Latitude: 39.076975
N/S Co-ord: 1105' FSL
E/W Co-ord: 1110' FEL

LOGGED BY

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

CONTRACTOR

Contractor: DISCOVERY DRILLING
Rig #: 4
Rig Type: MUD ROTARY
Spud Date: 3/15/2022 Time: 3:00 PM
TD Date: 3/22/2022 Time: 9:00 AM

ELEVATIONS

K.B. Elevation: 1980.00ft
K.B. to Ground: 8.00ft

Ground Elevation: 1972.00ft

NOTES

Due to negative results in all 3 Dst's, decision was made to plug and abandon the Vine #5 well.

TOPS COMPARISON

| FORMATION | VINE #5 | | | | VINE #1 | | | | VINE #2 | | | | VINE #4 | | | | P&A 4/1/70 | | | |
|-----------------|-----------------------|-------|-------|-------|---------------------------|-------|-------|-------|---------------------------|-------|-------|-------|------------------------------|-------|-------|-------|------------|-------|-------|-------|
| | BLACK DIAMOND OIL | | | | BLACK DIAMOND OIL | | | | BLACK DIAMOND OIL | | | | SKELLY OIL | | | | | | | |
| | SE, SE, Sec. 22-11-19 | | | | NE, SE, SE, Sec. 22-11-19 | | | | W2, W2, SE, Sec. 22-11-19 | | | | C, SW, NE, SE, Sec. 22-11-19 | | | | | | | |
| | KB | 1980 | GL | 1972 | KB | 2026 | LOG | SMPL. | KB | 2115 | LOG | SMPL. | KB | 2118 | LOG | SMPL. | RB | 1980 | LOG | SMPL. |
| DEPTH | DATUM | DEPTH | DATUM | DEPTH | DATUM | LOG | CORR. | DEPTH | DATUM | LOG | CORR. | DEPTH | DATUM | LOG | CORR. | DEPTH | DATUM | LOG | CORR. | |
| ANHYDRITE TOP | 1302 | 678 | 1256 | 724 | 1304 | 722 | + 2 | 0 | 1406 | 709 | + 6 | 15 | 1402 | 716 | + 2 | 8 | 1257 | 723 | | 1 |
| BASE | 2929 | -949 | 2928 | -948 | 2973 | -947 | - 2 | 1 | 3062 | -947 | - 2 | 1 | 3070 | -952 | + 3 | 4 | 2955 | -975 | + 26 | 27 |
| TOPEKA | 3152 | -1172 | 3152 | -1172 | 3195 | -1169 | - 3 | 3 | 3285 | -1170 | - 2 | 2 | 3295 | -1177 | + 5 | 5 | | | | |
| HEEBNER SHALE | 3167 | -1187 | 3169 | -1189 | 3212 | -1186 | - 1 | 3 | 3302 | -1187 | + 0 | 2 | 3310 | -1192 | + 5 | 3 | | | | |
| TORONTO | 3192 | -1212 | 3192 | -1212 | 3236 | -1210 | - 2 | 2 | 3326 | -1211 | - 1 | 1 | 3336 | -1218 | + 6 | 6 | 3196 | -1216 | + 4 | 4 |
| LKC | 3411 | -1431 | 3414 | -1434 | 3458 | -1432 | + 1 | 2 | 3546 | -1431 | + 0 | 3 | 3555 | -1437 | + 6 | 3 | | | | |
| BKC | | | | | 3504 | -1478 | | | 3595 | -1480 | | | | | | | 3466 | -1486 | | |
| PENN BASAL SAND | 3481 | -1501 | 3484 | -1504 | 3522 | -1496 | - 5 | 8 | 3611 | -1496 | - 5 | 8 | 3627 | -1509 | + 8 | 5 | 3488 | -1508 | + 7 | 4 |
| ARBUCKLE | 3571 | -1591 | 3570 | -1590 | 3610 | -1584 | - 7 | 6 | 3648 | -1533 | - 58 | 57 | 3659 | -1541 | - 50 | 49 | 3510 | -1530 | - 61 | 60 |
| TOTAL DEPTH | | | | | | | | | | | | | | | | | | | | |

DST #1 2935'-3010' (TOPEKA)

DRILL STEM TEST REPORT

Mustang Energy Corp. 22-11-19w, Ellis, KS

PO Box 1121 Vine #5
Hays, KS 67601 Job Ticket: 68231 **DST#: 1**

ATTN: Cameron Brin Test Start: 2022.03.20 @ 10:53:00

GENERAL INFORMATION:

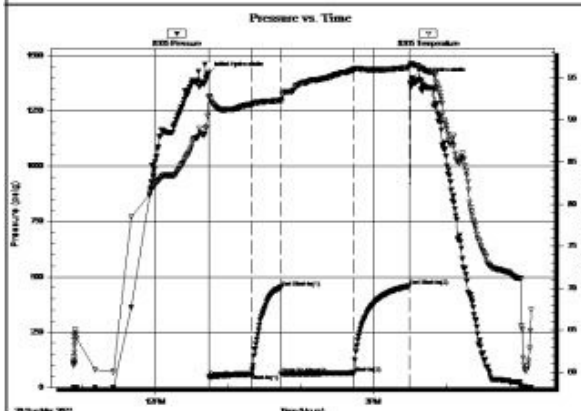
Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:44:47
 Time Test Ended: 17:11:02
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Kevin Webster
 Unit No: 72

Interval: **2935.00 ft (KB) To 3010.00 ft (KB) (TVD)**
 Total Depth: 3010.00 ft (KB) (TVD)
 Reference Elevations: 1977.00 ft (KB)
 1972.00 ft (CF)
 Hole Diameter: 7.78 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8365 Outside

Press@RunDepth: 66.06 psig @ 3007.00 ft (KB) Capacity: psig
 Start Date: 2022.03.20 End Date: 2022.03.20 Last Calib.: 2022.03.20
 Start Time: 10:53:01 End Time: 17:11:02 Time On Btm: 2022.03.20 @ 12:44:17
 Time Off Btm: 2022.03.20 @ 15:31:47

TEST COMMENT: 30 min IF- WSB built to 3"
 30 min IS- No returns
 60 min FF- WSB built to 2"
 45 min FSI- No returns


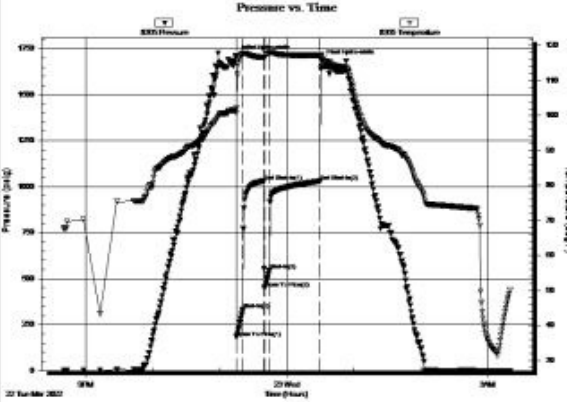


| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1420.49 | 92.74 | Initial Hydro-static |
| 1 | 46.40 | 92.68 | Open To Flow (1) |
| 36 | 59.70 | 91.86 | Shut-in(1) |
| 60 | 453.05 | 92.38 | End Shut-in(1) |
| 60 | 60.60 | 92.15 | Open To Flow (2) |
| 120 | 66.06 | 96.05 | Shut-in(2) |
| 166 | 458.55 | 96.30 | End Shut-in(2) |
| 168 | 1395.99 | 96.69 | Final Hydro-static |


| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 45.00 | VSOCM 1% O 99% M | 0.36 |

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

DST #2 3469'-3489' (ARBUCKLE)

| | | | | | | | | | | |
|--|---|--|---|----------------------|----------------|-----------------|------------------|--|--|--|
|  <p>TRILOBITE TESTING, INC</p> | DRILL STEM TEST REPORT | | | | | | | | | |
| | Mustang Energy Corp. PO Box 1121 Hays, KS 67601 ATTN: Cameron Brin | 22-11-19w, Ellis, KS Vine #5 Job Ticket: 68232 DST#: 2 Test Start: 2022.03.22 @ 20:40:00 | | | | | | | | |
| GENERAL INFORMATION: | | | | | | | | | | |
| Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 23:14:32 Time Test Ended: 03:20:02 | | Test Type: Conventional Bottom Hole (Reset) Tester: Kevin Webster Unit No: 72 | | | | | | | | |
| Interval: 3469.00 ft (KB) To 3489.00 ft (KB) (TVD) Total Depth: 3489.00 ft (KB) (TVD) Hole Diameter: 7.78 inches Hole Condition: Fair | | Reference Elevations: 1977.00 ft (KB) 1972.00 ft (CF) KB to GR/CF: 5.00 ft | | | | | | | | |
| Serial #: 8365 Outside | | | | | | | | | | |
| Press@RunDepth: 544.79 psig @ 3486.00 ft (KB) Start Date: 2022.03.22 End Date: 2022.03.23 Start Time: 20:40:01 End Time: 03:20:02 | | Capacity: psig Last Calib.: 2022.03.22 Time On Btm: 2022.03.22 @ 23:14:17 Time Off Btm: 2022.03.23 @ 00:30:47 | | | | | | | | |
| TEST COMMENT: 5 min IF- Strong blow , BOB 1 min 20 min ISI- Returns built to 15" 5 min FF- BOB ASAO 45 min FSI- Returns built to 41" | | | | | | | | | | |
|  | PRESSURE SUMMARY | | | | | | | | | |
| | Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation | | | | | | |
| | 0 | 1709.57 | 101.53 | Initial Hydro-static | | | | | | |
| | 1 | 180.75 | 100.83 | Open To Flow (1) | | | | | | |
| | 6 | 332.51 | 117.62 | Shut-in(1) | | | | | | |
| | 25 | 1030.69 | 116.70 | End Shut-in(1) | | | | | | |
| | 26 | 448.58 | 116.51 | Open To Flow (2) | | | | | | |
| | 30 | 544.79 | 117.95 | Shut-in(2) | | | | | | |
| | 76 | 1030.72 | 117.25 | End Shut-in(2) | | | | | | |
| | 77 | 1682.94 | 116.94 | Final Hydro-static | | | | | | |
| Recovery | | Gas Rates | | | | | | | | |
| Length (ft) | Description | Volume (bbl) | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:25%;">Choke (inches)</td> <td style="width:25%;">Pressure (psig)</td> <td style="width:50%;">Gas Rate (Mcf/d)</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table> | | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) | | | |
| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) | | | | | | | | |
| | | | | | | | | | | |
| 124.00 | GMW 5%G 50% W 45% M | 1.47 | | | | | | | | |
| 1550.00 | GMW 5% G 90% W 5%M | 21.74 | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| * Recovery from multiple tests | | | | | | | | | | |

DST #3 3497'-3517' (ARBUCKLE)

| | | | |
|--|---|--|--|
|  <p>TRILOBITE TESTING, INC</p> | DRILL STEM TEST REPORT | | |
| | Mustang Energy Corp. PO Box 1121 Hays, KS 67601 ATTN: Cameron Brin | 22-11-19w, Ellis, KS Vine #5 Job Ticket: 68223 DST#: 3 Test Start: 2022.03.23 @ 17:57:00 | |
| GENERAL INFORMATION: | | | |
| Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 20:02:47 | | Test Type: Conventional Straddle (Reset) Tester: Kevin Webster | |

Time Test Ended: 00:17:02

Unit No: 72

Interval: 3497.00 ft (KB) To 3517.00 ft (KB) (TVD)

Reference Elevations: 1977.00 ft (KB)

Total Depth: 3517.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8365

Outside

Press@RunDepth: 228.90 psig @ 3517.00 ft (KB)

Capacity: psig

Start Date: 2022.03.23

End Date:

2022.03.24

Last Calib.: 2022.03.23

Start Time: 17:57:01

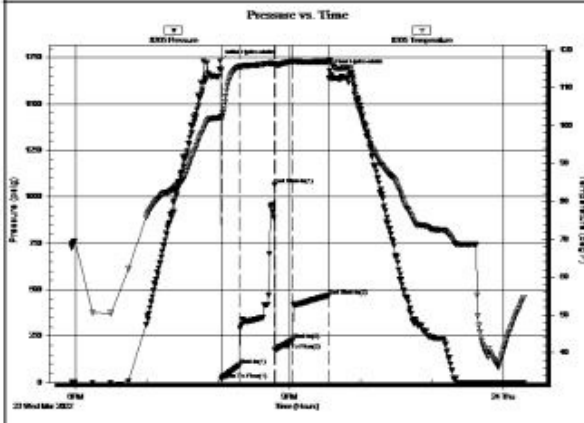
End Time:

00:17:02

Time On Btm: 2022.03.23 @ 20:01:47

Time Off Btm: 2022.03.23 @ 21:33:32

TEST COMMENT: 15 min IF- WSB BOB 9 min
30 min ISI- Returns built to 13"
15 min FF- Strong blow BOB ASAO
30 min FSI- Returns built to 14"



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1731.14 | 102.18 | Initial Hydro-static |
| 1 | 16.14 | 101.54 | Open To Flow (1) |
| 16 | 91.56 | 115.61 | Shut-In(1) |
| 46 | 1065.73 | 116.34 | End Shut-In(1) |
| 46 | 175.52 | 116.08 | Open To Flow (2) |
| 61 | 228.90 | 116.92 | Shut-In(2) |
| 92 | 465.23 | 116.92 | End Shut-In(2) |
| 92 | 1676.78 | 117.19 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------------|--------------|
| 2.00 | GO 10% G 90% O | 0.01 |
| 528.00 | GMW 5% G 50% W 45% M | 7.15 |
| 124.00 | GMW 5% G 90% W 5% M | 1.74 |
| 0.00 | shut in tool appears to be leaking | 0.00 |
| 0.00 | during both shut-ins | 0.00 |

Gas Rates

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

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 68223

Printed: 2022.03.23 @ 07:15:41

ANHYDRITE



ROCK TYPES

- ▲ Cht vari
- ▨ Dolsec
- ▨ shale, grn
- ▨ Carbon Sh
- ▨ Dolprim
- ▨ Lmst fw7>
- ▨ shale, gry

ACCESSORIES

MINERAL

- ▲ Chert, dark
- △ Chert White

FOSSIL

- F Fossils < 20%
- φ Oolite

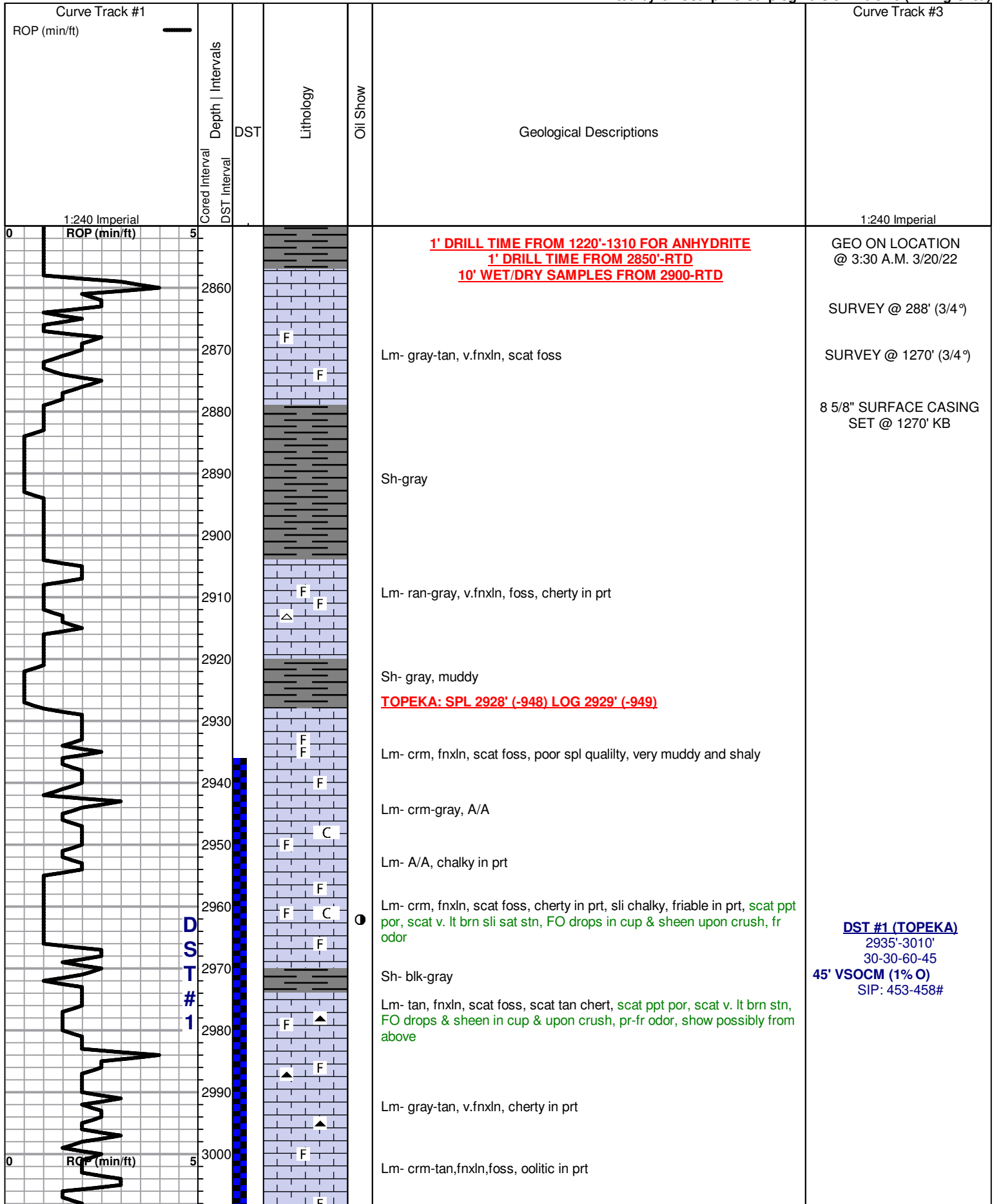
STRINGER

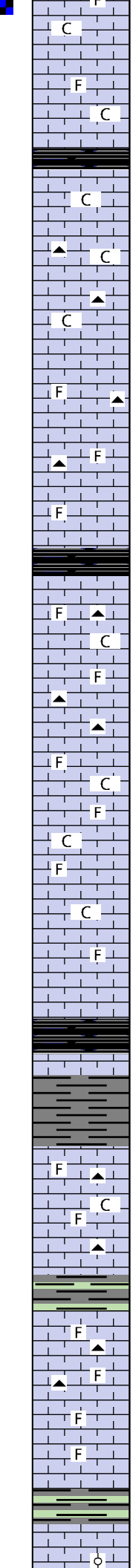
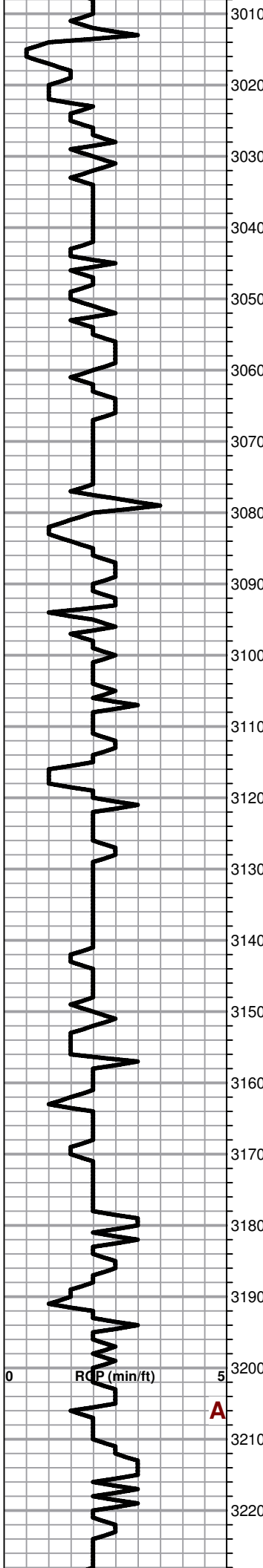
- ~~~~ Chert

TEXTURE

- C Chalky

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





Lm- tan, fnxn, oolitic, sli chalky

Lm- crm-tan, fnxn, scat foss, sucrosic in prt, chalky in prt, scat ppt por, NSO

Sh- blk, carb

Lm- tan, fnxn, sucrosic, chalky in prt, **scat pr inxln por, few pcs w/ v. lt brn stn, FO drops in cup, sli odor**

Lm- tan, fnxn, sucrosic, chalky, friable, scat tan chert, pr inxln por, NSO

Lm- A/A

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

Lm- A/A

Sh- blk-gray

Lm- crm, fnxn, foss, chalky in prt, scat tan-wt chert

Lm- A/A

Lm- crm, fnxn, scat foss, chalky

Lm- crm, fnxn, scat foss, chalky in prt, **scat pr inxln-ppt por, v. few scat pcs w/ v. lt brn stn, NSFO, no odor**

HEEBNER: SPL 3152' (-1172) LOG 3152' (-1172)

Sh- blk, carb

TORONTO: SPL 3169' (-1189) LOG 3167' (-1187)

Lm- crm, fnxn, foss, chalky in prt, tan-wt chert, **scat pr inxln-ppt por, few scat pcs w/ brn stn in por, sli sheen FO in cup, no odor**

Sh- green- gray

LKC: SPL 3192' (-1212) LOG 3192' (-1212)

Lm- crm, fnxn, scat foss, cherty in prt, **scat pr inxln-ppt por, v. few pcs w/ lt brn stn in pores, NSFO, no odor**

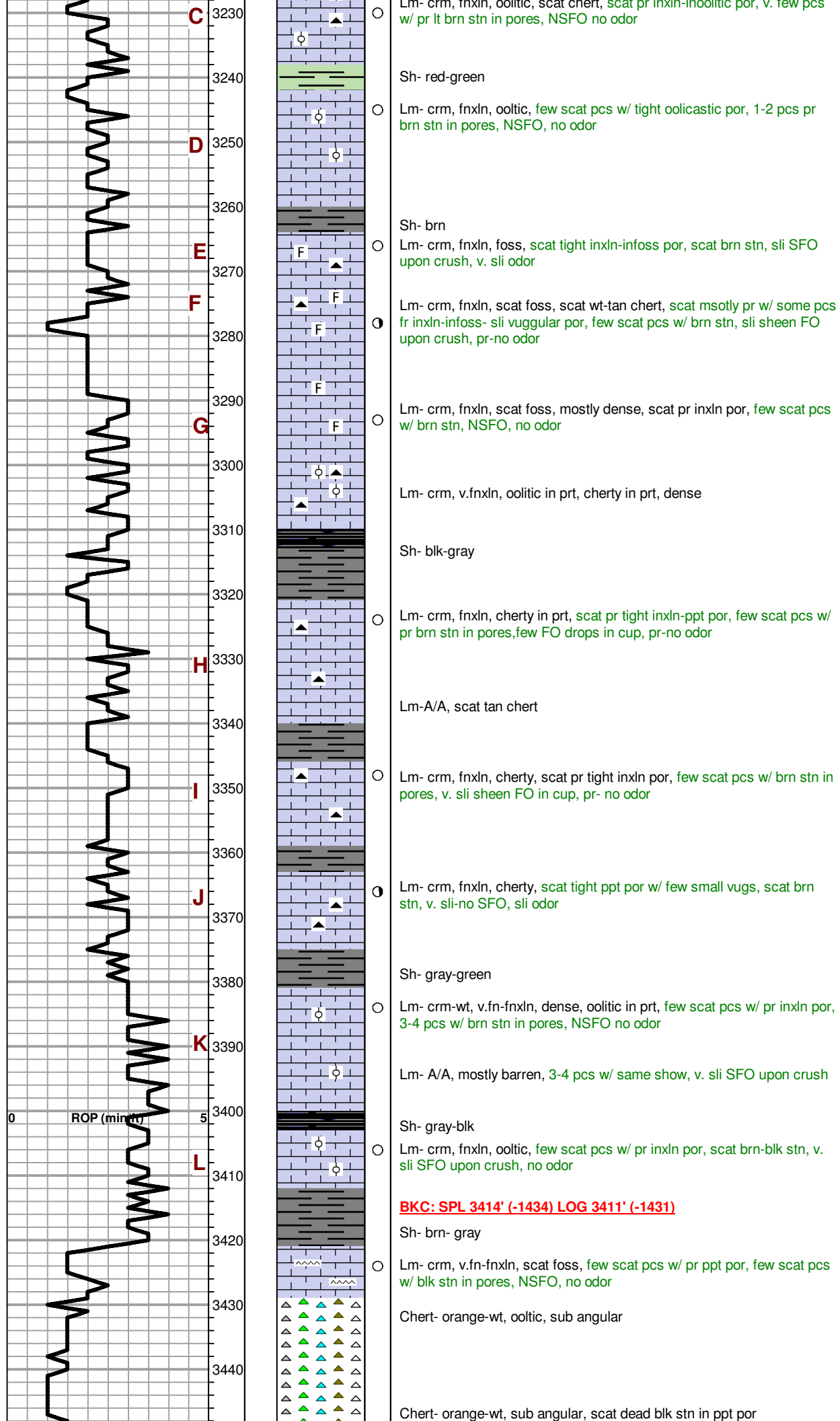
Lm- A/A

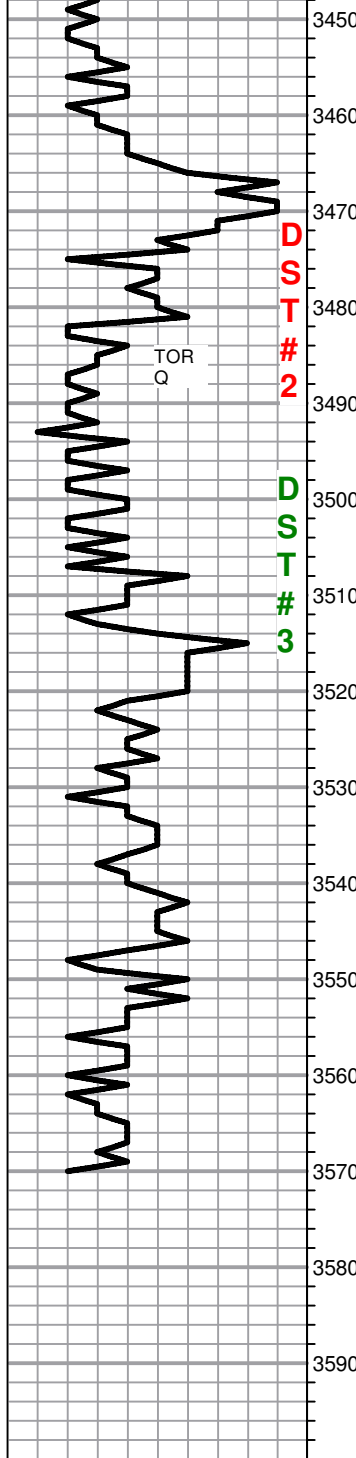
Sh- gray- green

Lm- crm, fnxn, oolitic, scat chert, scat pr inxln in oolitic por, v. few pcs

0 RCP (min/ft) 5

A





3450
3460
3470
3480
3490
3500
3510
3520
3530
3540
3550
3560
3570
3580
3590

D Chert- vari color, oolitic in prt, scat ppt por, dead blk stn throughout

Chert-A/A

D Dolo- wt, fnxln, dense, scat ppt por, dead blk stn

Sh- vari color
ARBUCKLE: SPL 3484' (-1504) LOG 3481' (-1501)

● Dolo- tan, fnxln, sucrosic, scat fr inxln- sli vuggulr por, fr brn sat stn, fr SFO upon crush, mod odor

● Dolo- tan, fnxln-mdgrn, sucrosic in prt, pr-fr inxln-ingranular por, fr brn sat stn, fr SFO, fr-gd odor

● Dolo- crm-tan, fnxln-mdgrn, sucrosic in prt, fr inxln- ingranular por, fr brn sat stn, fr sheen FO in cup, fr odor

● Dolo- tan, fnxln-fngrn, sucrosic in prt, fr inxln-ingranular-vuggy por, fr brn sat stn, fr sheen & droplets in cup, fr odor

○ Dolo- crm-tan, fnxln-fngrn, sucrosic in prt, pr-fr inxln por, fr brn-blk sat stn, fr sheen & FO droplets in cup, fr odor

○ Dolo- crm, fnxln-fngrn, mostly tight inxln por, pr-fr heavy brn stn, fr-gd sheen FO in cup, pr-fr odor

○ Dolo- crm- lt pink, fnxln-fngrn, sucrosic in prt, mostly tight inxln- vuggular por, pr-fr heavy brn-blk stn, fr sheen FO in cup, pr-fr odor

○ Dolo- crm- lt pink, fnxln-mdgrn, sucrosic in prt, mostly barren, scat tight inxln por, few scat pcs w/ blk stn, pr sheen FO in cup, pr odor

Dolo- A/A
RTD: SPL 3570' (-1590) LOG 3571' (-1591)

DST #2 (ARBUCKLE)
3469'-3489'
5-20-5-45
124' GMW
1550' GMW
SIP: 1030-1030#

CFS @ 3489'

SAMPLES WERE NOT CAUGHT FROM 3490'-3510'

DST #3 (ARBUCKLE)
STRADDLE
3797'-3517'
15-30-15-30

2' GO
528' GMW
124' GMW
SIP: 1065-465#
SHUT IN TOOL APPEARED TO BE LEAKING WHICH AFFECTED THE PRESSURES

SURVEY @ RTD (1 1/2°)

GEO OFF
LOCATION @ 1
A.M.3/23/22



DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp.**

PO Box 1121
Hays, KS 67601

ATTN: Cameron Brin

Vine #5

22-11-19w Ellis,KS

Start Date: 2022.03.20 @ 10:53:00

End Date: 2022.03.20 @ 17:11:02

Job Ticket #: 68231 DST #: 1

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

Printed: 2022.03.25 @ 09:03:01



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Mustang Energy Corp.

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

Vine #5

Job Ticket: 68231

DST#: 1

ATTN: Cameron Brin

Test Start: 2022.03.20 @ 10:53:00

GENERAL INFORMATION:

Formation: **Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:44:47

Time Test Ended: 17:11:02

Test Type: Conventional Bottom Hole (Initial)

Tester: Kevin Webster

Unit No: 72

Interval: 2935.00 ft (KB) To 3010.00 ft (KB) (TVD)

Reference Elevations: 1977.00 ft (KB)

Total Depth: 3010.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8365 Outside

Press@RunDepth: 66.06 psig @ 3007.00 ft (KB)

Capacity: psig

Start Date: 2022.03.20 End Date: 2022.03.20

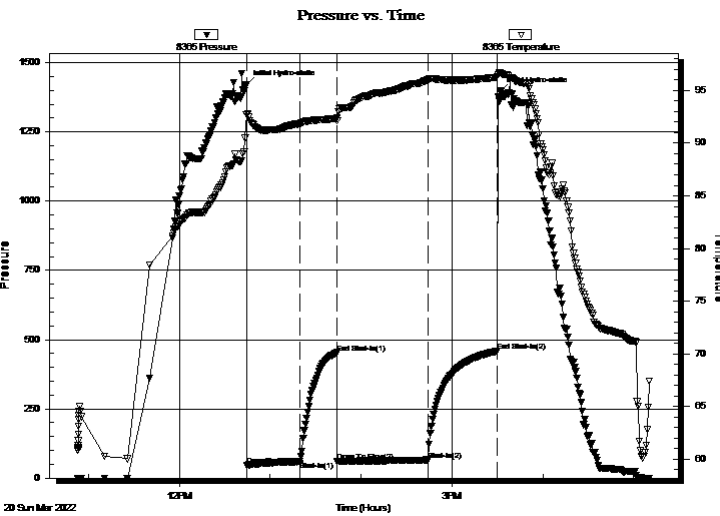
Last Calib.: 2022.03.20

Start Time: 10:53:01 End Time: 17:11:02

Time On Btm: 2022.03.20 @ 12:44:17

Time Off Btm: 2022.03.20 @ 15:31:47

TEST COMMENT: 30 min IF- WSB built to 3"
30 min IS- No returns
60 min FF- WSB built to 2"
45 min FSI- No returns



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1420.49 | 92.74 | Initial Hydro-static |
| 1 | 46.40 | 92.68 | Open To Flow (1) |
| 36 | 59.70 | 91.86 | Shut-In(1) |
| 60 | 453.05 | 92.38 | End Shut-In(1) |
| 60 | 60.60 | 92.15 | Open To Flow (2) |
| 120 | 66.06 | 96.05 | Shut-In(2) |
| 166 | 458.55 | 96.30 | End Shut-In(2) |
| 168 | 1395.99 | 96.69 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------|--------------|
| 45.00 | VSOCM 1% O 99% M | 0.36 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corp.

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

Vine #5

Job Ticket: 68231

DST#: 1

ATTN: Cameron Brin

Test Start: 2022.03.20 @ 10:53:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 2900.00 ft | Diameter: 3.80 inches | Volume: 40.68 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 30.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 55000.00 lb |
| | | | <u>Total Volume: 40.83 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 14.00 ft | | | String Weight: Initial 44000.00 lb |
| Depth to Top Packer: | 2935.00 ft | | | Final 44000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 75.00 ft | | | |
| Tool Length: | 94.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 2921.00 | |
| Hydraulic tool | 5.00 | | | 2926.00 | |
| Packer | 5.00 | | | 2931.00 | 19.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 2935.00 | |
| Stubb | 1.00 | | | 2936.00 | |
| Perforations | 6.00 | | | 2942.00 | |
| Change Over Sub | 1.00 | | | 2943.00 | |
| Drill Pipe | 63.00 | | | 3006.00 | |
| Change Over Sub | 1.00 | | | 3007.00 | |
| Recorder | 0.00 | 8365 | Outside | 3007.00 | |
| Recorder | 0.00 | 6752 | Outside | 3007.00 | |
| Bullnose | 3.00 | | | 3010.00 | 75.00 Bottom Packers & Anchor |

Total Tool Length: 94.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp.

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

Vine #5

Job Ticket: 68231

DST#: 1

ATTN: Cameron Brin

Test Start: 2022.03.20 @ 10:53:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|------------------|---------------|
| 45.00 | VSOCM 1% O 99% M | 0.358 |

Total Length: 45.00 ft Total Volume: 0.358 bbl

Num Fluid Samples: 0

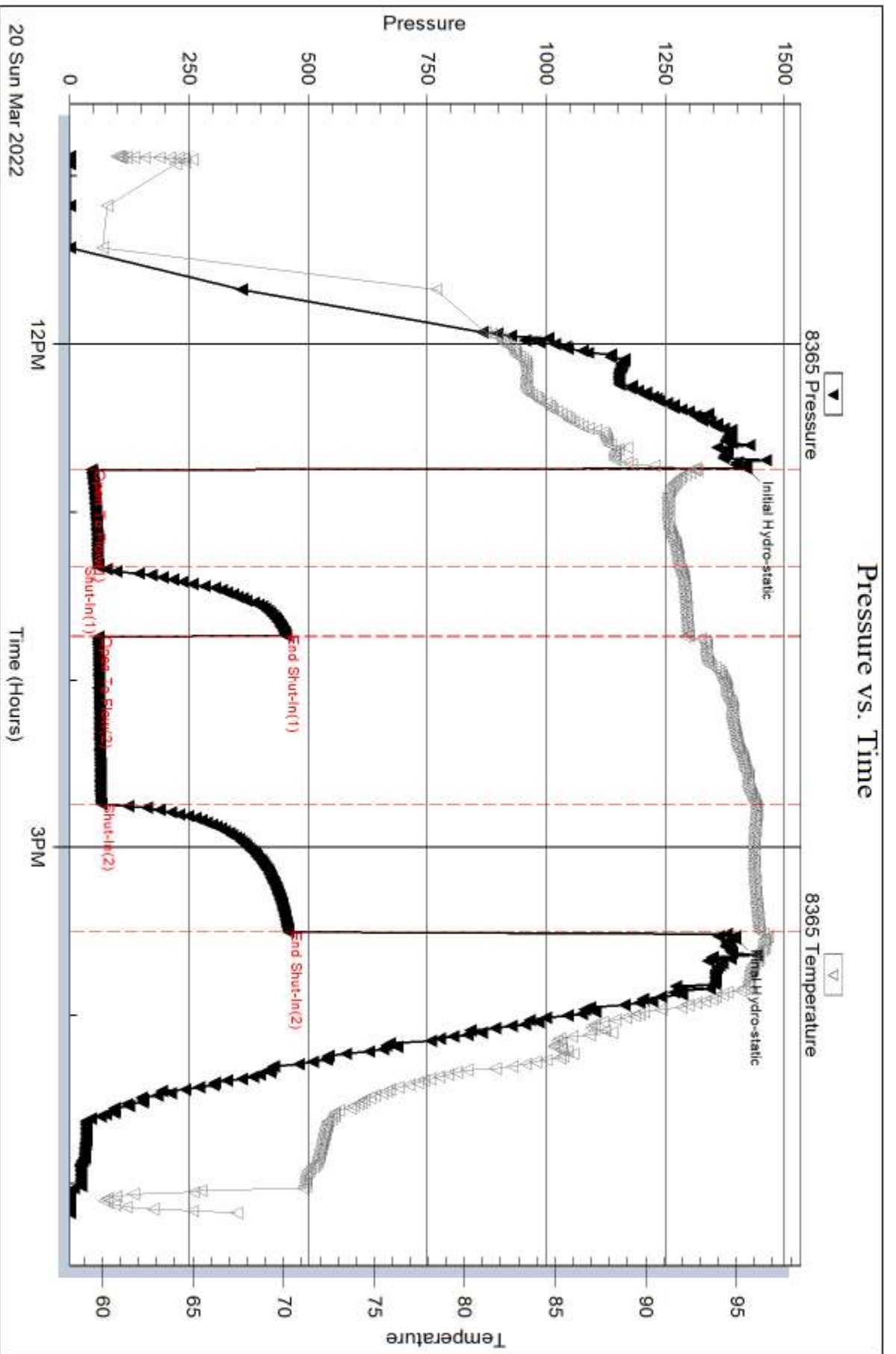
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3# LCM

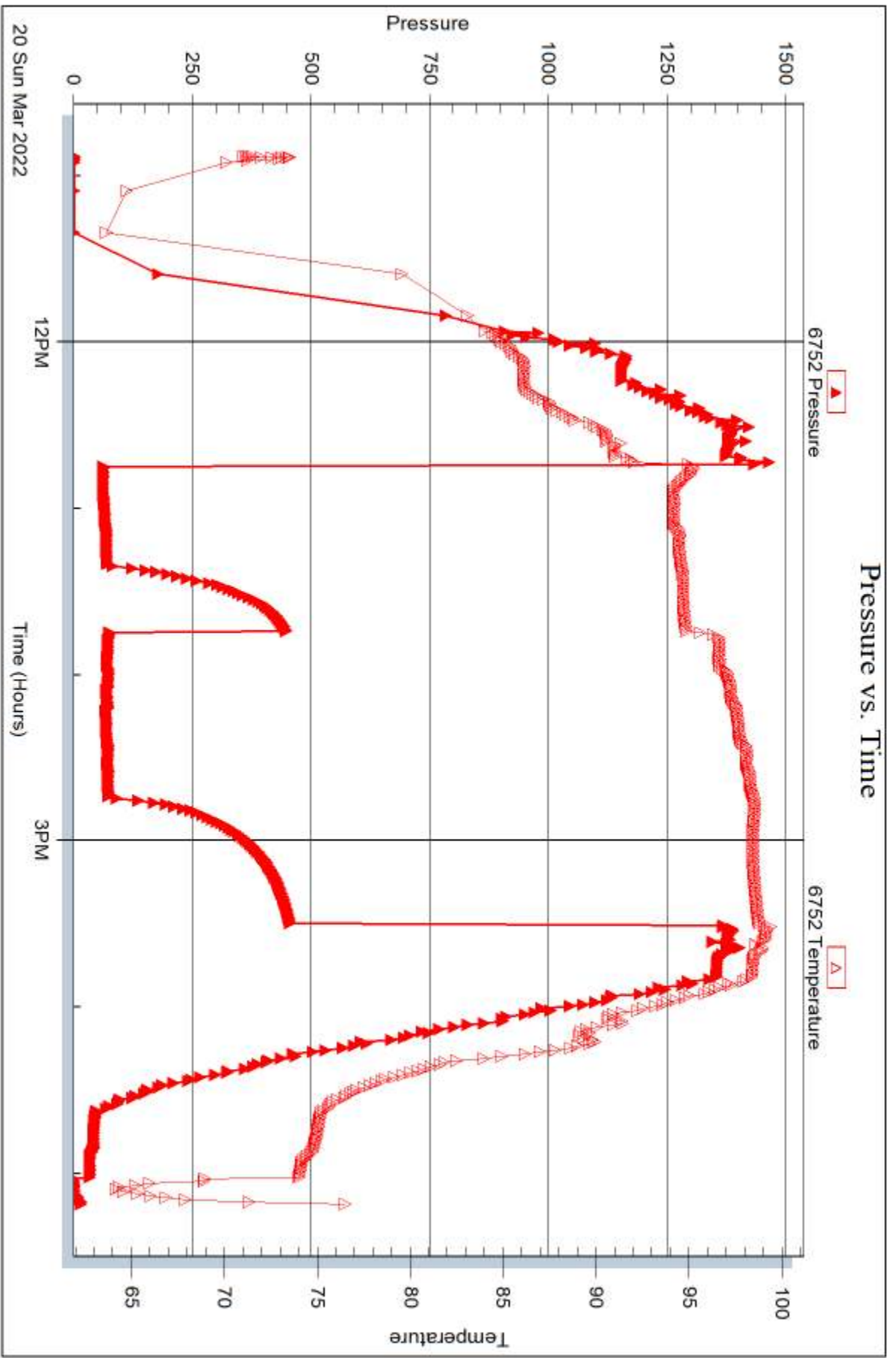


Serial #: 6752

Outside Mustang Energy Corp.

Vine #5

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 68231

Printed: 2022.03.25 @ 09:03:02



DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp.**

PO Box 1121
Hays, KS 67601

ATTN: Cameron Brin

Vine #5

22-11-19w Ellis,KS

Start Date: 2022.03.22 @ 20:40:00

End Date: 2022.03.23 @ 03:20:02

Job Ticket #: 68232 DST #: 2

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

Printed: 2022.03.25 @ 08:51:42



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mustang Energy Corp.

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

Vine #5

Job Ticket: 68232

DST#: 2

ATTN: Cameron Brin

Test Start: 2022.03.22 @ 20:40:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:14:32

Time Test Ended: 03:20:02

Test Type: Conventional Bottom Hole (Reset)

Tester: Kevin Webster

Unit No: 72

Interval: 3469.00 ft (KB) To 3489.00 ft (KB) (TVD)

Reference Elevations: 1977.00 ft (KB)

Total Depth: 3489.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8365 Outside

Press@RunDepth: 544.79 psig @ 3486.00 ft (KB)

Capacity: psig

Start Date: 2022.03.22

End Date:

2022.03.23

Last Calib.:

2022.03.22

Start Time: 20:40:01

End Time:

03:20:02

Time On Btm:

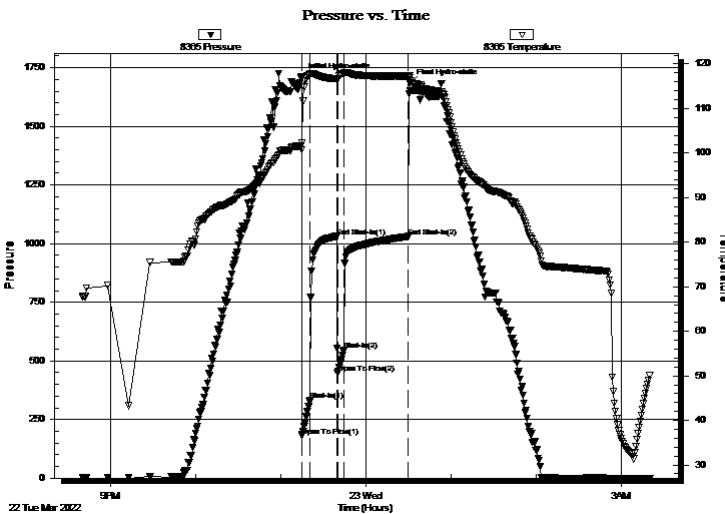
2022.03.22 @ 23:14:17

Time Off Btm:

2022.03.23 @ 00:30:47

TEST COMMENT: 5 min IF- Strong blow , BOB 1 min
20 min ISL- Returns built to 15"
5 min FF- BOB ASAO
45 min FSI- Returns built to 41"

PRESSURE SUMMARY



| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1709.57 | 101.53 | Initial Hydro-static |
| 1 | 180.75 | 100.83 | Open To Flow (1) |
| 6 | 332.51 | 117.62 | Shut-In(1) |
| 25 | 1030.69 | 116.70 | End Shut-In(1) |
| 26 | 448.58 | 116.51 | Open To Flow (2) |
| 30 | 544.79 | 117.95 | Shut-In(2) |
| 76 | 1030.72 | 117.25 | End Shut-In(2) |
| 77 | 1682.94 | 116.94 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|---------------------|--------------|
| 124.00 | GMW 5%G 50% W 45% M | 1.47 |
| 1550.00 | GMW 5% G 90% W 5%M | 21.74 |
| | | |
| | | |
| | | |

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corp.

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

Vine #5

Job Ticket: 68232

DST#: 2

ATTN: Cameron Brin

Test Start: 2022.03.22 @ 20:40:00

Tool Information

| | | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------|-------------|
| Drill Pipe: | Length: 3430.00 ft | Diameter: 3.80 inches | Volume: 48.11 bbl | Tool Weight: | 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: | 25000.00 lb |
| Drill Collar: | Length: 30.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: | 60000.00 lb |
| | | | <u>Total Volume: 48.26 bbl</u> | Tool Chased | 0.00 ft |
| Drill Pipe Above KB: | 10.00 ft | | | String Weight: Initial | 48000.00 lb |
| Depth to Top Packer: | 3469.00 ft | | | Final | 52000.00 lb |
| Depth to Bottom Packer: | ft | | | | |
| Interval between Packers: | 20.00 ft | | | | |
| Tool Length: | 39.00 ft | | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | | |
| Tool Comments: | | | | | |

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths | |
|---------------------------|--------------|------------|----------|------------|----------------|-------------------------|
| Shut In Tool | 5.00 | | | 3455.00 | | |
| Hydraulic tool | 5.00 | | | 3460.00 | | |
| Packer | 5.00 | | | 3465.00 | 19.00 | Bottom Of Top Packer |
| Packer | 4.00 | | | 3469.00 | | |
| Stubb | 1.00 | | | 3470.00 | | |
| Perforations | 16.00 | | | 3486.00 | | |
| Recorder | 0.00 | 8365 | Outside | 3486.00 | | |
| Recorder | 0.00 | 6752 | Outside | 3486.00 | | |
| Bullnose | 3.00 | | | 3489.00 | 20.00 | Bottom Packers & Anchor |
| Total Tool Length: | 39.00 | | | | | |



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp.

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

Vine #5

Job Ticket: 68232

DST#: 2

ATTN: Cameron Brin

Test Start: 2022.03.22 @ 20:40:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|---------------------|---------------|
| 124.00 | GMW 5%G 50% W 45% M | 1.466 |
| 1550.00 | GMW 5% G 90% W 5%M | 21.742 |

Total Length: 1674.00 ft

Total Volume: 23.208 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

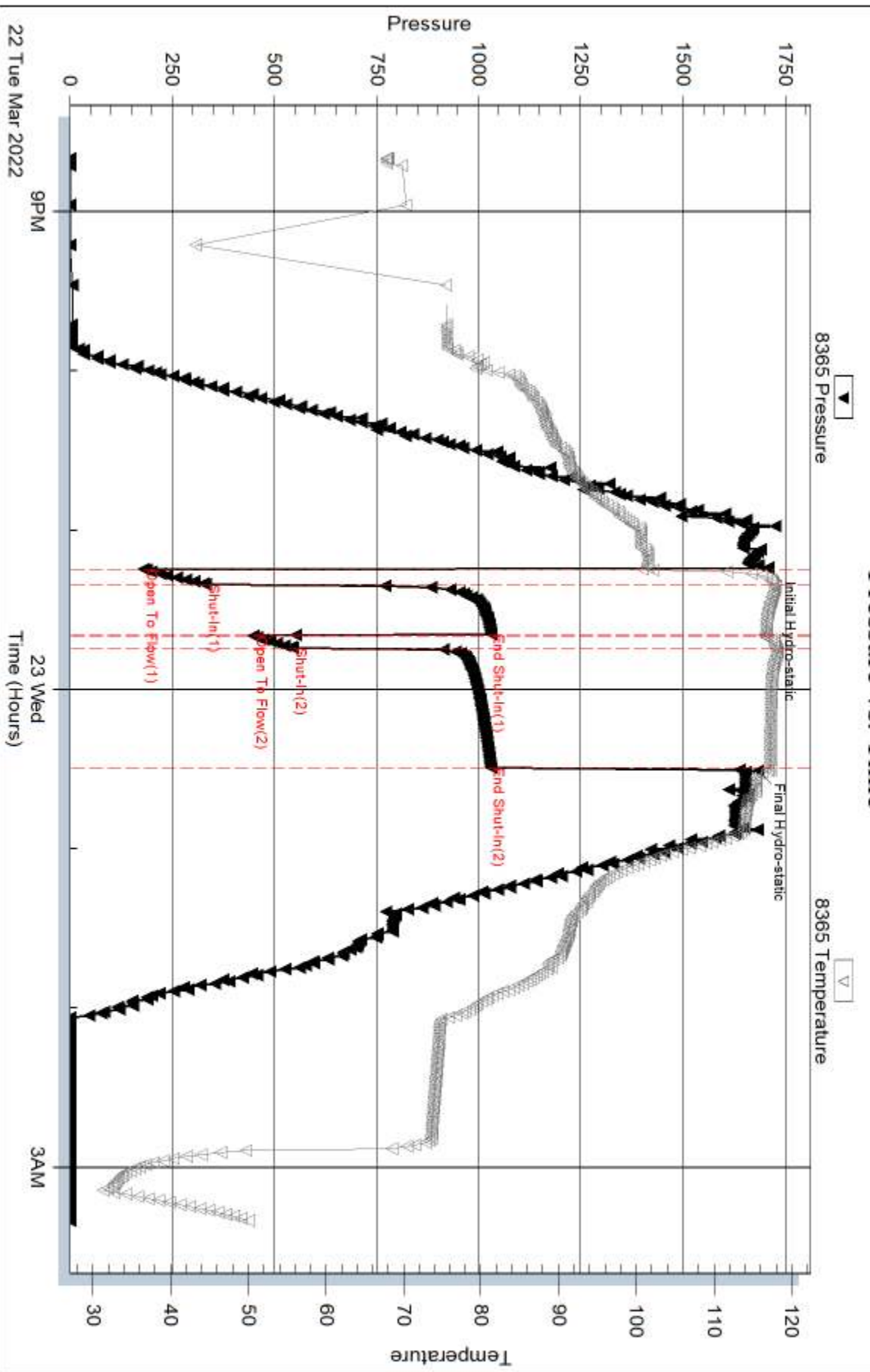
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3#LCM

Pressure vs. Time

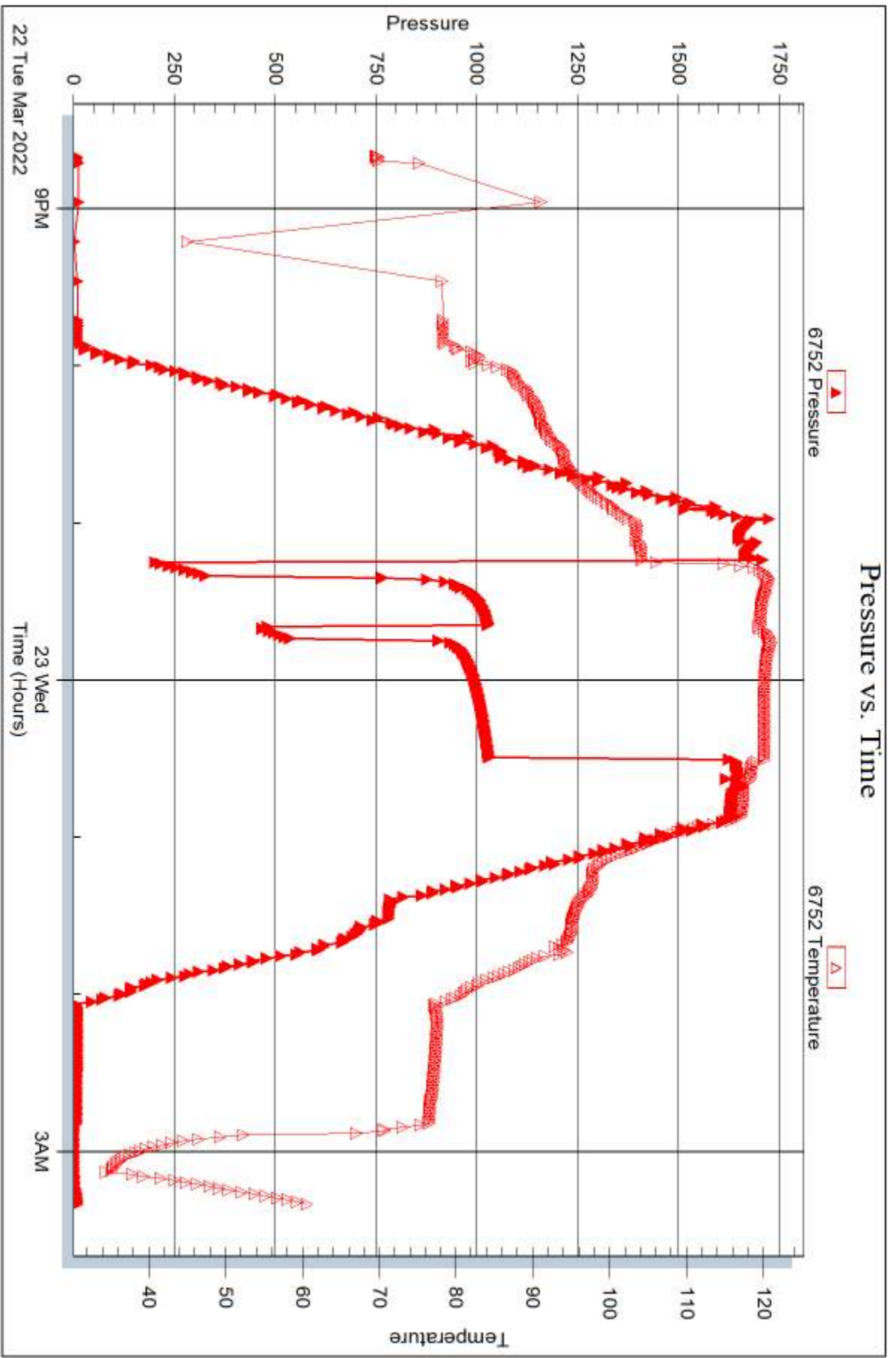


Serial #: 6752

Outside Mustang Energy Corp.

Vine #5

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 68232

Printed: 2022.03.25 @ 08:51:42



DRILL STEM TEST REPORT

Prepared For: **Mustang Energy Corp.**

PO Box 1121
Hays, KS 67601

ATTN: Cameron Brin

Vine #5

22-11-19w Ellis,KS

Start Date: 2022.03.23 @ 17:57:00

End Date: 2022.03.24 @ 00:17:02

Job Ticket #: 68223 DST #: 3

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

Printed: 2022.03.25 @ 08:48:07



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Mustang Energy Corp.

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

Vine #5

Job Ticket: 68223

DST#: 3

ATTN: Cameron Brin

Test Start: 2022.03.23 @ 17:57:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:02:47

Time Test Ended: 00:17:02

Test Type: Conventional Straddle (Reset)

Tester: Kevin Webster

Unit No: 72

Interval: 3497.00 ft (KB) To 3517.00 ft (KB) (TVD)

Reference Elevations: 1977.00 ft (KB)

Total Depth: 3517.00 ft (KB) (TVD)

1972.00 ft (CF)

Hole Diameter: 7.78 inches Hole Condition: Fair

KB to GR/CF: 5.00 ft

Serial #: 8365 Outside

Press@RunDepth: 228.90 psig @ 3517.00 ft (KB)

Capacity: psig

Start Date: 2022.03.23

End Date:

2022.03.24

Last Calib.:

2022.03.23

Start Time:

17:57:01

End Time:

00:17:02

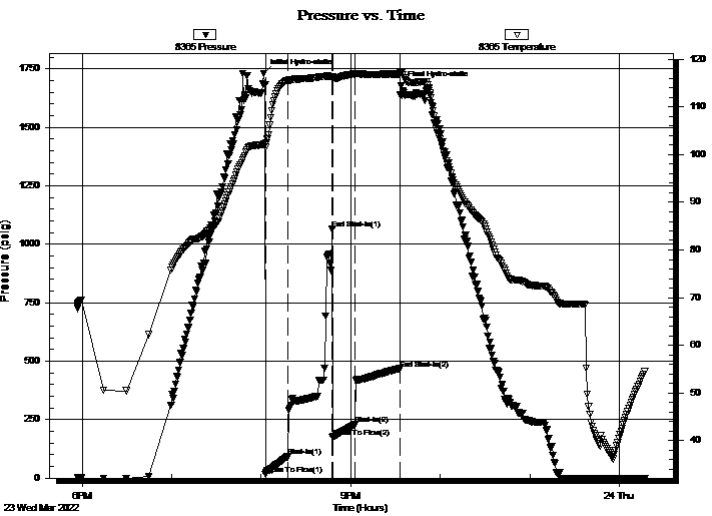
Time On Btm:

2022.03.23 @ 20:01:47

Time Off Btm:

2022.03.23 @ 21:33:32

TEST COMMENT: 15 min IF- WSB BOB 9 min
30 min ISI- Returns built to 13"
15 min FF- Strong blow BOB ASAO
30 min FSI- Returns built to 14"



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 1731.14 | 102.18 | Initial Hydro-static |
| 1 | 16.14 | 101.54 | Open To Flow (1) |
| 16 | 91.56 | 115.61 | Shut-In(1) |
| 46 | 1065.73 | 116.34 | End Shut-In(1) |
| 46 | 175.52 | 116.08 | Open To Flow (2) |
| 61 | 228.90 | 116.92 | Shut-In(2) |
| 92 | 465.23 | 116.92 | End Shut-In(2) |
| 92 | 1676.78 | 117.19 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|------------------------------------|--------------|
| 2.00 | GO 10% G 90% O | 0.01 |
| 528.00 | GMW 5% G 50% W 45% M | 7.15 |
| 124.00 | GMW 5% G 90% W 5% M | 1.74 |
| 0.00 | shut in tool appears to be leaking | 0.00 |
| 0.00 | during both shut-ins | 0.00 |

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Mustang Energy Corp.

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

Vine #5

Job Ticket: 68223

DST#: 3

ATTN: Cameron Brin

Test Start: 2022.03.23 @ 17:57:00

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3467.00 ft | Diameter: 3.80 inches | Volume: 48.63 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 30.00 ft | Diameter: 2.25 inches | Volume: 0.15 bbl | Weight to Pull Loose: 60000.00 lb |
| | | | <u>Total Volume: 48.78 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 27.00 ft | | | String Weight: Initial 50000.00 lb |
| Depth to Top Packer: | 3497.00 ft | | | Final 52000.00 lb |
| Depth to Bottom Packer: | 3517.00 ft | | | |
| Interval between Packers: | 20.00 ft | | | |
| Tool Length: | 90.00 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

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

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|-------------------------------|
| Shut In Tool | 5.00 | | | 3475.00 | |
| Hydraulic tool | 5.00 | | | 3480.00 | |
| Jars | 5.00 | | | 3485.00 | |
| Safety Joint | 3.00 | | | 3488.00 | |
| Packer | 5.00 | | | 3493.00 | 27.00 Bottom Of Top Packer |
| Packer | 4.00 | | | 3497.00 | |
| Stubb | 1.00 | | | 3498.00 | |
| Perforations | 19.00 | | | 3517.00 | |
| Recorder | 0.00 | 8365 | Outside | 3517.00 | |
| Recorder | 0.00 | 6752 | Outside | 3517.00 | 20.00 Tool Interval |
| Packer | 4.00 | | | 3521.00 | |
| Stubb | 1.00 | | | 3522.00 | |
| Change Over Sub | 1.00 | | | 3523.00 | |
| Drill Pipe | 31.00 | | | 3554.00 | |
| Change Over Sub | 1.00 | | | 3555.00 | |
| Perforations | 2.00 | | | 3557.00 | |
| Recorder | 0.00 | 6755 | | 3557.00 | |
| Bullnose | 3.00 | | | 3560.00 | 43.00 Bottom Packers & Anchor |

Total Tool Length: 90.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mustang Energy Corp.

22-11-19w Ellis,KS

PO Box 1121
Hays, KS 67601

Vine #5

Job Ticket: 68223

DST#: 3

ATTN: Cameron Brin

Test Start: 2022.03.23 @ 17:57:00

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:

40000 ppm

Viscosity: 48.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbbl |
|--------------|------------------------------------|----------------|
| 2.00 | GO 10% G 90% O | 0.010 |
| 528.00 | GMW 5% G 50% W 45% M | 7.151 |
| 124.00 | GMW 5% G 90% W 5% M | 1.739 |
| 0.00 | shut in tool appears to be leaking | 0.000 |
| 0.00 | during both shut-ins | 0.000 |

Total Length: 654.00 ft

Total Volume: 8.900 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 3#LCM

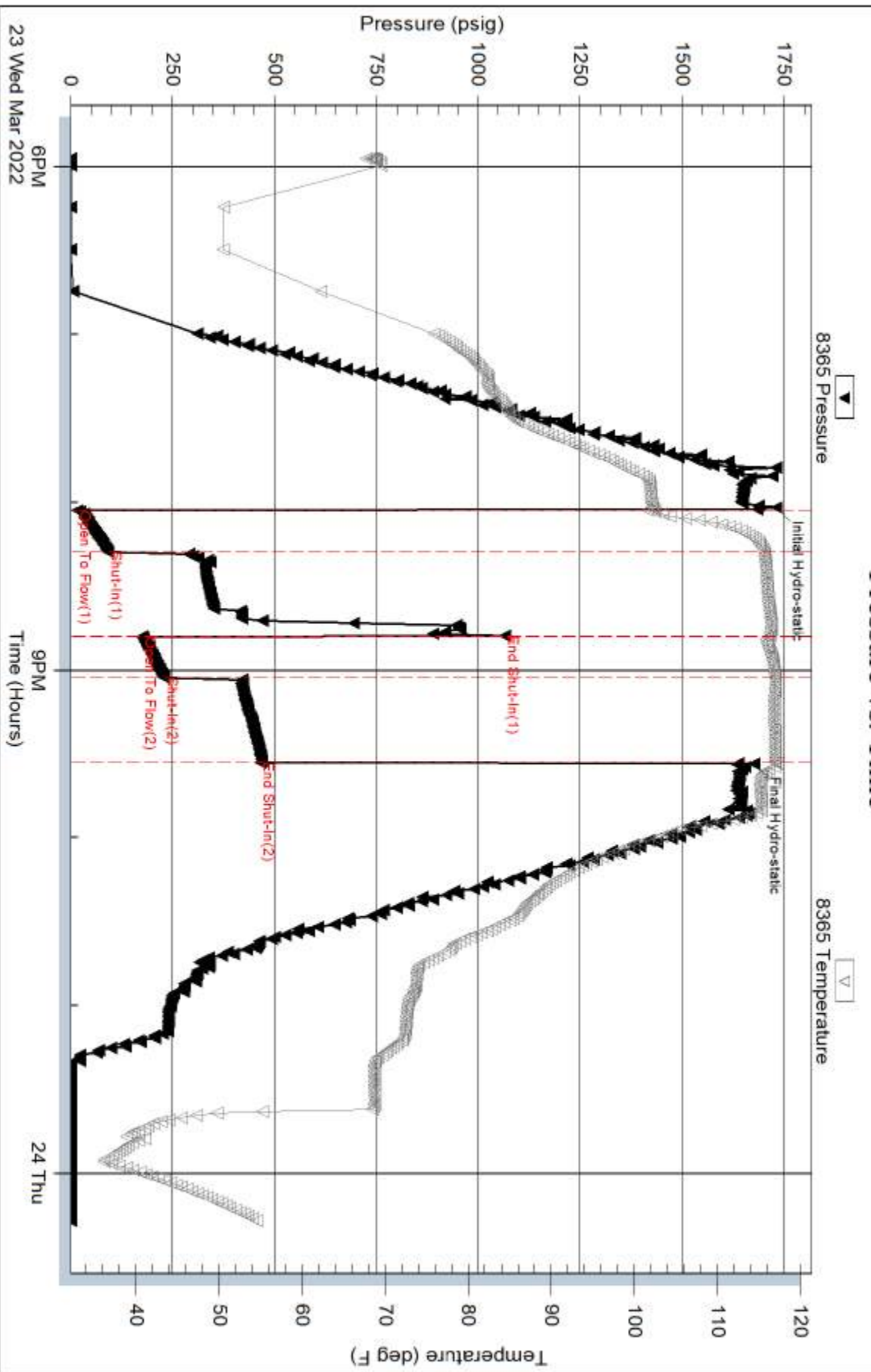
Serial #: 8365

Outside Mustang Energy Corp.

Vine #5

DST Test Number: 3

Pressure vs. Time



Trilobe Testing, Inc

Ref. No: 68223

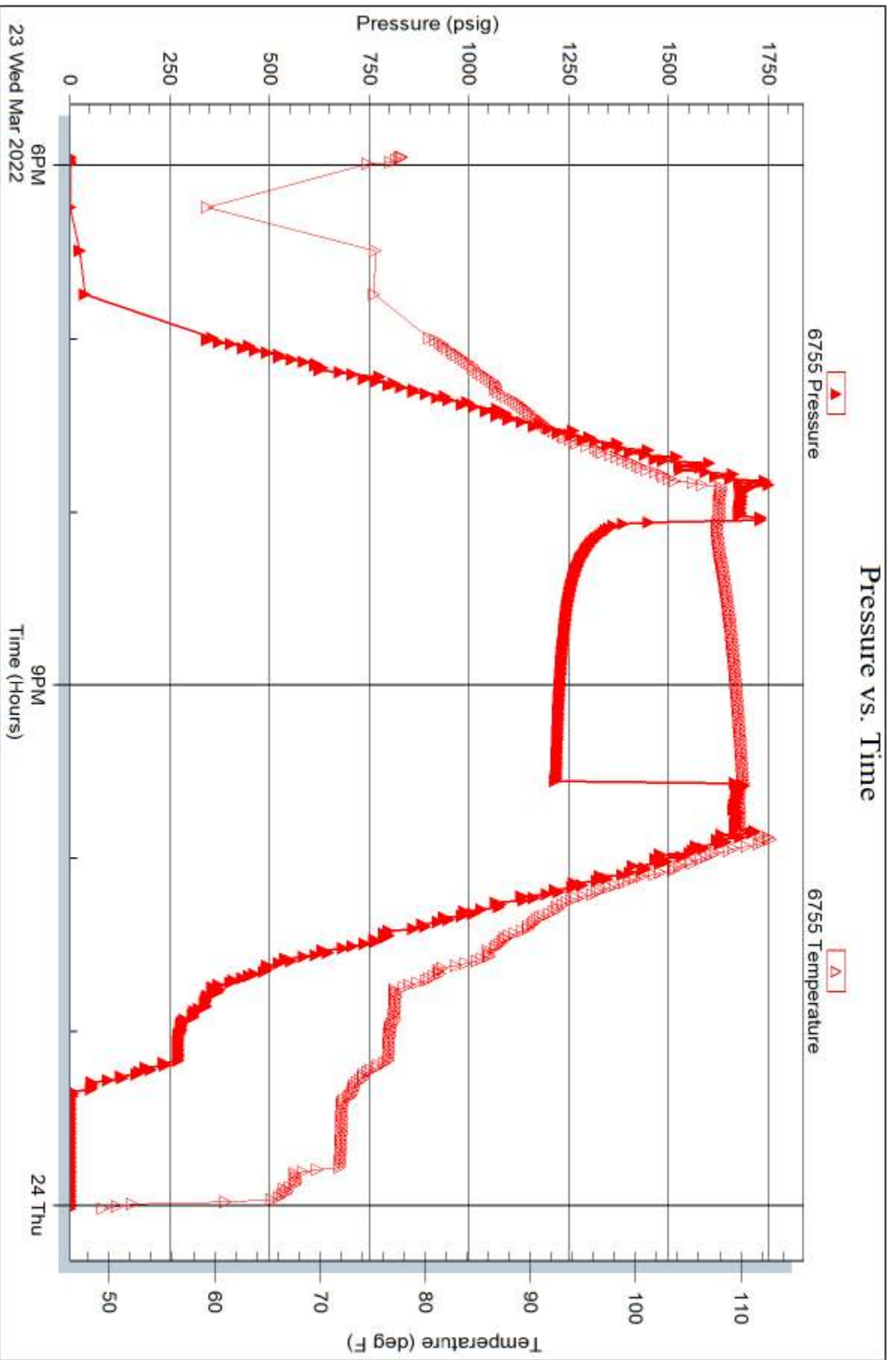
Printed: 2022.03.25 @ 08:49:43

Serial #: 6755

Mustang Energy Corp.

Vine #5

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 68223

Printed: 2022.03.25 @ 08:49:44



TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

NO. 68231

Well Name & No. wine #5 Test No. 1 Date 3/20/22
 Company Mustang Energy corp Elevation 1977 KB 1977 GL
 Address PO box 1121 Hays, KS 67601
 Co. Rep / Geo. cameron Brim Rig Discovery #4
 Location: Sec. 22 Twp 11 Rge. 19W Co. Ellis State KS

Interval Tested 2935 - 3010 Zone Tested TOPPKA
 Anchor Length 75 Drill Pipe Run 2900 Mud Wt. 8.7
 Top Packer Depth 2930 Drill Collars Run 30 Vls 54
 Bottom Packer Depth 2935 Wt. Pipe Run 6 WL 8.8
 Total Depth 3010 Chlorides 2000 ppm System LCM 3 #

Blow Description FF - WSB built to 3"
EST - No returns
EF - WSB built to 2"
EST - No returns

| Rec | Feet of | %gas | %oil | %water | %mud |
|-----|---------|------|------|--------|------|
| 45 | 150CM | | 1 | | 94 |
| | | %gas | %oil | %water | %mud |
| | | %gas | %oil | %water | %mud |
| | | %gas | %oil | %water | %mud |
| | | %gas | %oil | %water | %mud |

Rec Total 45 BHT 96 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm
 (A) Initial Hydrostatic 1420 Test 1300 T-On Location 10:00
 (B) First Initial Flow 46 Jars _____ T-Started 10:53
 (C) First Final Flow 59 Safety Joint _____ T-Open 12:45
 (D) Initial Shut-In 453 Circ Sub _____ T-Pulled 15:30
 (E) Second Initial Flow 60 Hourly Standby _____ T-Out 17:15
 (F) Second Final Flow 66 Mileage 46 RT 69 Comments _____
 (G) Final Shut-In 458 Sampler _____
 (H) Final Hydrostatic 1395 Straddle _____

Initial Open 30 Shale Packer _____
 Initial Shut-In 30 Extra Packer _____
 Final Flow 60 Extra Recorder _____
 Final Shut-In 45 Day Standby _____
 Sub Total 1369 Accessibility _____
 Total 1369 EM Tool _____
 MP/DST Disc't _____ Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 1369

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



TESTING INC.
1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68232**

Well Name & No. Vine #5 Test No. 2 Date 3/21/22
 Company Mustang Energy Corp. Elevation 1977 KB 1972 GL
 Address PO Box 1121 Hays, KS 67601
 Co. Rep / Geo. Cameron Brin Rig Discovery #4
 Location: Sec. 22 Twp 11 Rge. 19W Co. Ellis State Ks

Interval Tested 3469-3489 Zone Tested Arbuckle
 Anchor Length 20' Drill Pipe Run 3430 Mud Wt. 8.7
 Top Packer Depth 3464 Drill Collars Run 30 Vis 54
 Bottom Packer Depth 3469 Wt. Pipe Run 0 WL 8.8
 Total Depth 3489 Chlorides 2000 ppm System LCM 3#

Blow Description IF - strong blow, BOBIMIN
ISI - Returns built to 15"
EF - BOBASA
FBI - Returns built to 41"

| Rec | Feet of | %gas | %oil | %water | %mud |
|-------------|-------------|----------|-----------|-----------|----------|
| <u>124</u> | <u>6 MW</u> | <u>5</u> | <u>50</u> | <u>45</u> | <u>0</u> |
| <u>1550</u> | <u>6 MW</u> | <u>5</u> | <u>90</u> | <u>5</u> | <u>0</u> |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |
| Rec | Feet of | %gas | %oil | %water | %mud |

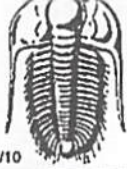
Rec Total 1074 BHT 118 Gravity _____ API RW 3 @ 55° F Chlorides 3000 ppm

(A) Initial Hydrostatic 1709 Test 1300 T-On Location 19:45
 (B) First Initial Flow 180 Jars _____ T-Started 20:40
 (C) First Final Flow 332 Safety Joint _____ T-Open 23:17
 (D) Initial Shut-In 1030 Circ Sub 50 T-Pulled 00:32
 (E) Second Initial Flow 448 Hourly Standby _____ T-Out 03:15
 (F) Second Final Flow 544 Mileage 46 RT 69 Comments _____
 (G) Final Shut-In 1030 Sampler _____
 (H) Final Hydrostatic 1682 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____

Initial Open 5 EM Tool _____
 Initial Shut-In 20 Ruined Shale Packer _____
 Final Flow 7 Ruined Packer _____
 Final Shut-In 45 Extra Copies _____

Sub Total 1419 Sub Total 0
 Total 1419 MP/DST Disc't _____

Approved By _____ Our Representative [Signature]
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TRIBOLITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. **68233**

Well Name & No. Vine #5 Test No. 3 Date 3/22/22
 Company Mustang Energy Corp Elevation 1977 KB 1972 GL
 Address Pobox 1121 Hays, KS 67601
 Co. Rep / Geo. Cameron Brin Rig Discovery #4
 Location: Sec. 27 Twp 11 Rge. 19 Co. Ellis State KS

Interval Tested 3497 - 3517 Zone Tested ArbucklP
 Anchor Length 20 Drill Pipe Run 3407 Mud Wt. 9.2
 Top Packer Depth 3497 Drill Collars Run 30 Vis 48
 Bottom Packer Depth 3517 Wt. Pipe Run 0 WL 8
 Total Depth 3571 Chlorides 5000 ppm System LCM 3#

Blow Description IF - WSB BOB 9 min
FSI - Returns built to 13"
EF - Strong blow BOB ASAO
FSI - Returns built to 14"

| Rec | Feet of | %gas | %oil | %water | %mud |
|------------|------------|-----------|-----------|-----------|-----------|
| <u>2</u> | <u>60</u> | <u>10</u> | <u>90</u> | | |
| <u>578</u> | <u>6mw</u> | <u>5</u> | | <u>50</u> | <u>45</u> |
| <u>124</u> | <u>9mw</u> | <u>5</u> | | <u>90</u> | <u>5</u> |
| | | | | | |
| | | | | | |

Rec Total 652 BHT 112 Gravity _____ API RW .279 @ 44.6 °F Chlorides 40,000 ppm

(A) Initial Hydrostatic 1731 Test 1300 T-On Location 16:15
 (B) First Initial Flow 16 Jars _____ T-Started 17:57
 (C) First Final Flow 91 Safety Joint _____ T-Open 20:03
 (D) Initial Shut-In 1065 Circ Sub _____ T-Pulled 21:33
 (E) Second Initial Flow 175 Hourly Standby _____ T-Out 00:30
 (F) Second Final Flow 228 Mileage 46RT 96
 (G) Final Shut-In 465 Sampler _____
 (H) Final Hydrostatic 1676 Straddle 600 EM Tool _____
 Shale Packer _____ Ruined Shale Packer _____
 Extra Packer _____ Ruined Packer _____
 Extra Recorder _____ Extra Copies _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 1996
 Sub Total 1996 MP/DST Disc't _____

Initial Open 15
 Initial Shut-In 30
 Final Flow 15
 Final Shut-In 30

Approved By _____ Our Representative [Signature]
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