

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

Form ACO-1

January 2018

Form must be Typed

Form must be Signed

All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

New Well Re-Entry Workover

Oil WSW SWD

Gas DH EOR

OG GSW

CM (Coal Bed Methane)

Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____

Well Name: _____

Original Comp. Date: _____ Original Total Depth: _____

Deepening Re-perf. Conv. to EOR Conv. to SWD
 Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite:

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

INSTRUCTIONS: Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

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

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

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5) (Submit ACO-4)</i>	PRODUCTION INTERVAL: Top Bottom
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	MALONEY 1-15
Doc ID	1687282

All Electric Logs Run

DI Log
CD/Neu PE Log
Micro Log
Sonic Log
Dual Rec Cement Bnd Log

Form	ACO1 - Well Completion
Operator	Grand Mesa Operating Company
Well Name	MALONEY 1-15
Doc ID	1687282

Tops

Name	Top	Datum
Onaga Sh	2117	-572
Topeka	2550	-1005
Calhoun Sh	2627	-1082
Queen Hill Sh	2812	-1267
Heebner	3055	-1510
Lansing	3825	-1740
Hushpuckney Sh	3677	-2132
Misissippian	3948	-2403
Gilmore City	4041	-2496
Kinderhook Sh	4115	-2570
Woodford Sh	4255	-2710
Viola	4281	-2736
Simpson Sand	4328	-2783
Arbuckle	4437	-2892
LTD	4460	0

GRAND MESA

OPERATING COMPANY

(316)-265-3000
FAX: (316) 265-3455

1700 N. WATERFRONT PARKWAY
BLDG. 600
WICHITA, KANSAS 67206-5514

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

Well Name: Maloney #1-15
API: 15-095-22350
Location: NE SW NW NW Sec.15 T28S-R8W
License Number: 9855
Spud Date: 12/27/2022
Surface Coordinates: 4466' FSL 4769' FEL
Lat: 37.615780 Lng: -98.188432 (NAD 1927)
Bottom Hole (Same)
Coordinates:
Ground Elevation (ft): 1534 K.B. Elevation (ft): 1545
Logged Interval (ft): 1750 To: 4460 Total Depth (ft): 4460
Formation: Arbuckle
Type of Drilling Fluid: Waterbased Chemical Mud
Region: Kansas
Drilling Completed: 1/9/2023

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

OPERATOR

Company: Grand Mesa Operating Company
Address: 1700 North Waterfront Parkway
Building #600
Wichita, Kansas 67206

GEOLOGIST

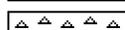
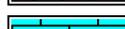
Name: Gareth Dinkel
Company: Grand Mesa Operating Company
Address: 1700 North Waterfront Parkway
Building #600
Wichita, Kansas 67206

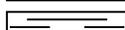
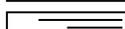
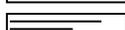
COMMENTS

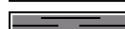
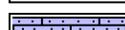
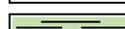
Due to the favorable thickness of Mississippian chert and supported DST results of DST #2 and #3, It was decided by all parties to run 5-1/2in. production casing to further test the Maloney #1-15.

Respectfully Submitted,
Gareth Dinkel

ROCK TYPES

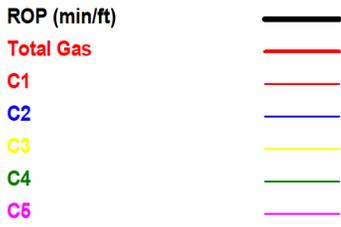
 Anhy
 Cht
 Coal
 Congl
 Dol
 Gyp
 Lmst

 Salt
 Shale
 Shcol
 Shgy
 Slst
 Ss
 Carb sh

 Dol
 Dtd
 Gry sh
 Sandylms
 Shale
 Slstsn
 Shlysts

 Sltys
 Sdy dolo
 Silty dolo
 Shy dolo
 Shaly ls

Curve Track 1



Lithology

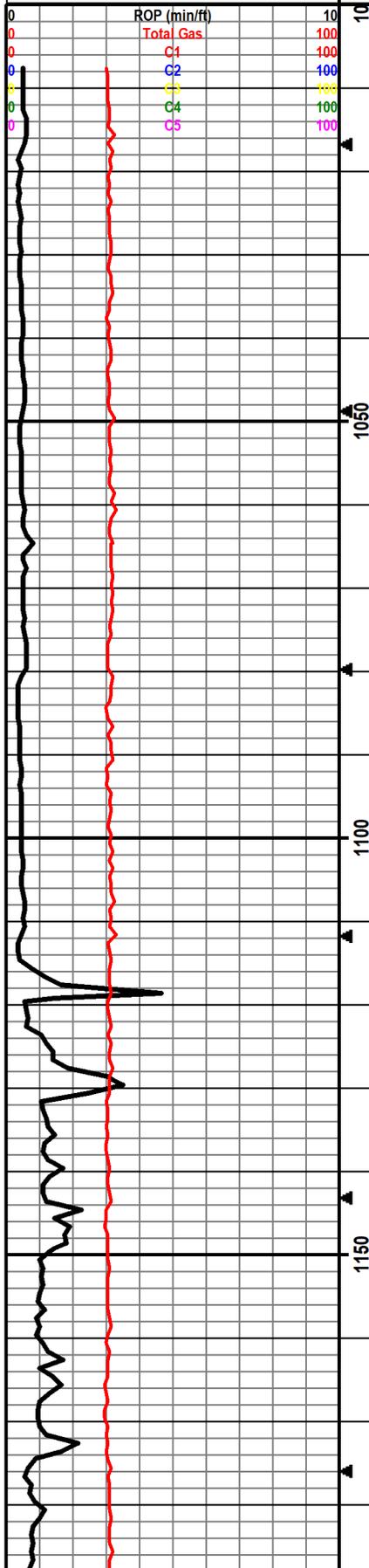
CFS Point

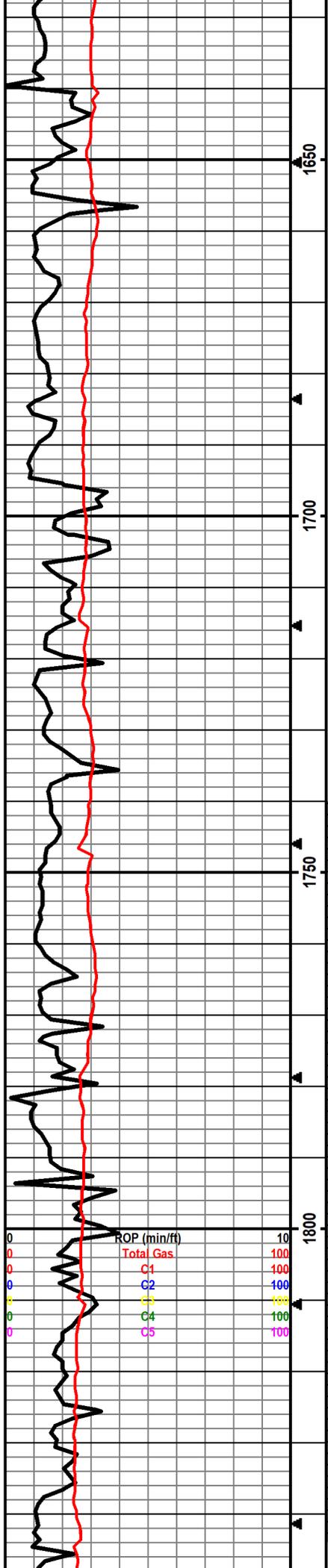
Oil Shows

Geological Descriptions

Remarks

MD

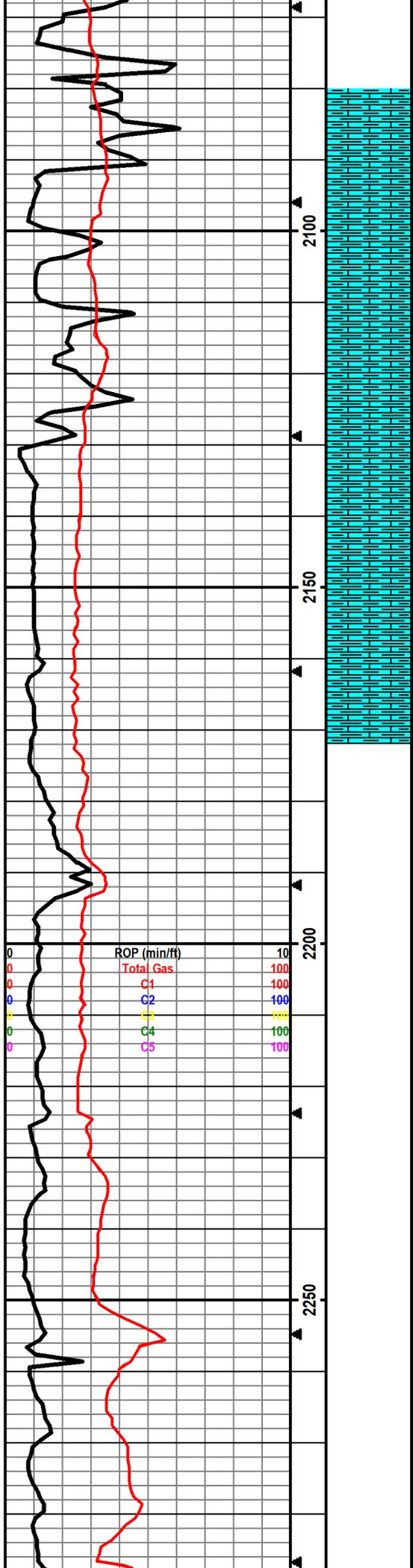




0 ROP (min/ft) 10
 0 Total Gas 100
 0 C1 100
 0 C2 100
 0 C3 100
 0 C4 100
 0 C5 100

Begin 10ft Samples at 1750ft

- Sh-gm-gry, dense waxy, no vis por. NS. NO. 1750
- Predom Sh-AA, Few Ls-cm, micro-xln, earthy, arg. no vis por. NS NO 1760
- Sh- gm-gry, dense, waxy few scat pcs Anhy-wht, soft, NS NO 1770
- Sh-gm-gry, dense waxy 1780
- Predom Sh-AA, w/ LS-cm, micro-xln, dense, v. arg, earthy, no vis por, NS NO 1790
- Sh-gry-gen dense waxy 1800
- Sh-gry-gm, v. dense, waxy w/ flood LS- tan-bm, micro-xln, v.dense, arg w/red clay, NS NO 1810
- LS-cm-red mott mustard, micro-xln, dense, arg, earthy, sl. sandy, NS NO 1820
- LS AA 1830
- Sh-gry-blk, dense, waxy, no vis por. NS NO 1840
- Sh- AA 1850



Begin 10ft Samples 2090ft.

Ls-tan-brn, micro-xln, v. dense, crin, no vis por., NS NS 2090

Ls-crm-gry, mott wht, micro-xln, dense, earthy, arg. nov is por., NS NO 2100

Flood sh-gm-gry, dense globular, NS NO 2110

Ls-crm-gry, micro-xln, v. dense earthy, arg. no vis por., NS NO 2120

Ls- AA 2130

Ls-crm, micro-xln, v. dense, few foss (pelletal) no vis por., NS NO 2140

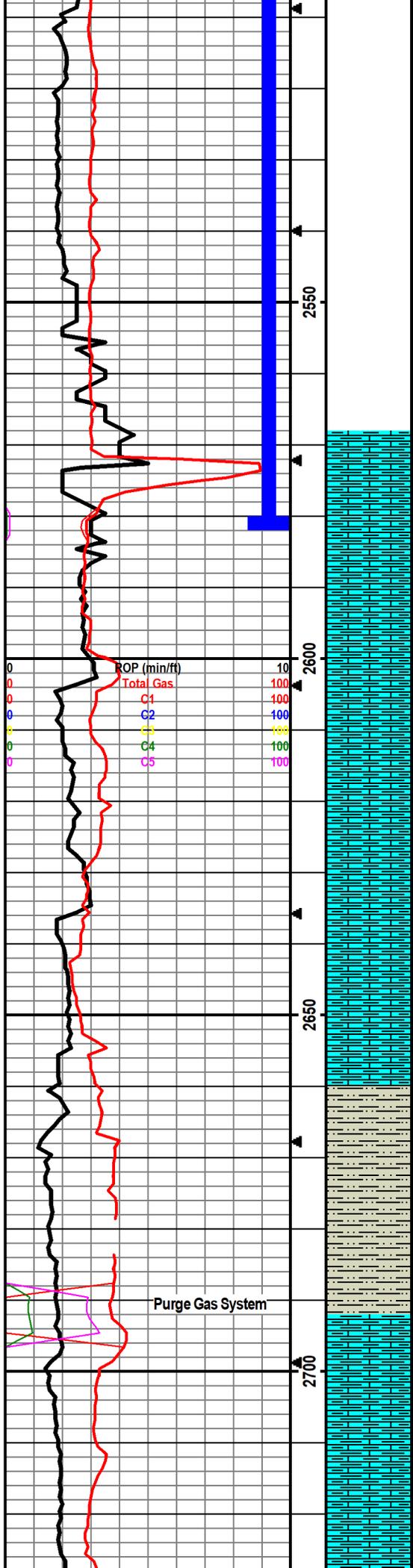
AA 2150

Flood Sh-wht, soft globular, 2160

AA, few pcs LS-crm, micro-xln, dense, sandy, No vis por. NS NO 2170

Sh-wht-soft globular, few gry-gm, silty, waxy, no vis por NS NO 2180

IFP: 72-72#
 ISIP: 366#
 FFP: 74-74#
 FSIP: 339#
 HP: 1342-1325#



Begin 20ft samples at 2580ft.

Ls-crm mott wht, mico-xln, dense, foss (pelletal-ool), earthy, arg., no vis por., NS NO 2580

Ls-tan-crm mott, wht. micro-xln, dense, earthy, few sl. sandy, no vis por., NS NO 2600

Ls-crm, mott wht, micro-xln, dense, arg., earthy, no vis por., NS NO 2620

Ls- crm, micro-xln, dense, sl spar, pelletal, no vis por., NS NO 2640

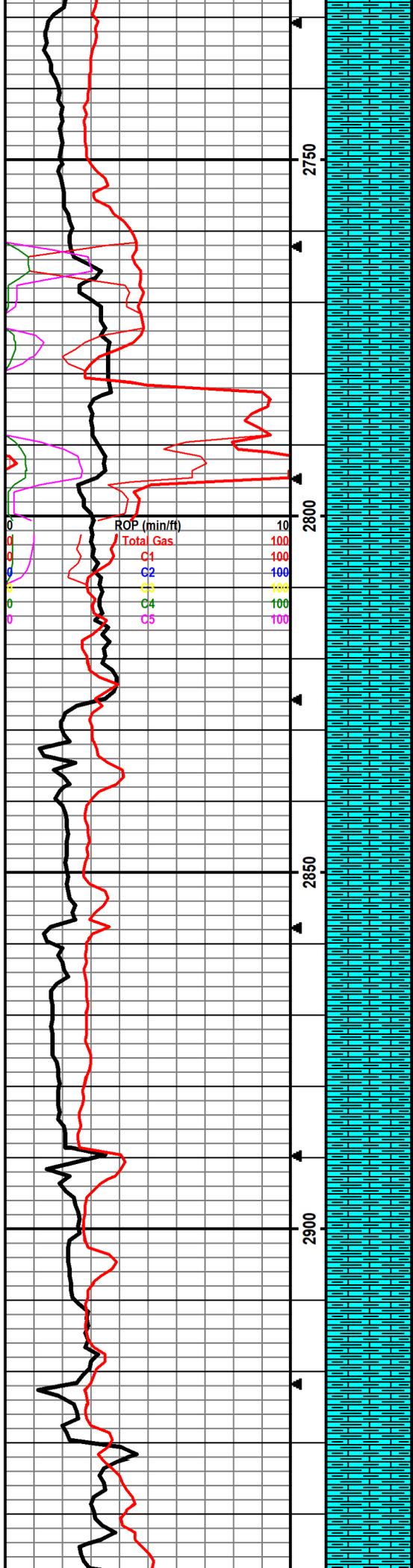
Predom LS- AA w/ few siltstn- gry, dense, no vis por., NS NO 2660

Siltstn-gry, dense waxy, few sl. pyritic., NS NO 2680

Siltstn- gry-grm, dense waxy, few sl. pyritic, NS NO 4700

LS-crm, micro-xln, dense, sl sandy, no vis por., NS NO 2720

Possum belly gate was changed causing mud level to rise high on gas extractor resulting in spike in background. No gas kick



LS-crm-brn, micro-xln, dense, pelletal, sl. sandy, w/ f. pp por., ns no 2740

LS- AA 2760

LS-crm, micro-xln, dense, foss (pelletal-fuss) no vis por., NS NO 2780

LS-wht-crm, mico-xln, dense, sl. chalky, v. few w/ sl pp. por., NS NO NO Flour,
Begin 10ft. Samples at 2800ft.

Ls-crm-brn, micro-xln, dense sl. art, w/ abun. chalk wht. globular, no vis por.
NS NO NO Flour. 2810

Ls-crm-gry, micro-xln, sl. dense, sl. chalky, no vis por. NS NO 2820

Predom Ls- AA few dense, sl. cherty, no vis por., NS NO 2830

Ls-crm-tan, micro-xln, dense no vis por., NS NO 2840

Flood Siltstn-gry, dense waxy, few Ls-crm mott brn, v. soft, earthy, NO vis por.,
NS NO 2850

Ls-crm, mott brn, micro-xln, dense, arg, no vis por., NS NO 2860

LS AA 2870

Predom Ls cm, micro-xln, dense, sl. sparry, no vis por., w/ flood Sh-gry-blk,
dense waxy, NS NO 2880

Flood Ls- cm mott brn, micro-xln, dense, earthy, arg. sl sparry in some, few
w/ v. sl pp por, NS NO 2890

Ls cm, micro-xln, dense, sl. sparry, no vis por., NS NO 2900

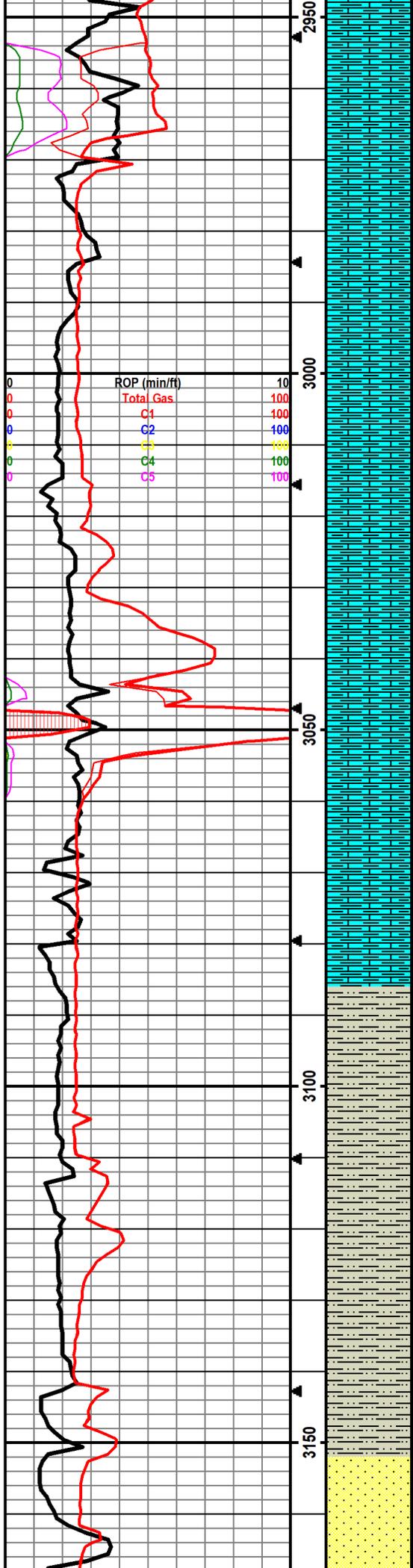
Ls- wht-crm, micro-xln dense, no vis por., NS NO 2910

LS-crm-tan mico-xln, dense, no vis por., NS no 2920

Predom LS AA, Few-siltstn-gry-blk, dense waxy, No vis por., NS NO 2930

Ls- crm-micro-xln, dense, sl. arg, no vis por., NS NO 2940

Ls- AA 2950



Ls-crm-tan, micro-xln, dense, sl. arg, no vis por., NS NO 2960

Ls AA 2970

Ls-crm-tan, micro-xkn, dense, sl sparry, arg, no vis por., NS NO 2980

Predom Ls-AA, w/ few sh- gry-blk dense waxy, no vis por., NS NO 2990

Flood Ls-crm-gry, micro-xln, dense, sl sparry, no vis por., NS NO 3000

Ls-crm, micro-xln, sl. dense, chalky, no vis por., NS NO 3010

Ls-crm-tan, micro-xln, dense, sl. spary, sl. chalky, no vis por., NS NO 3020

Ls- AA 3030

Ls- crm-wht, micro-xln, dense, sl chalky, no vis por., NS NO 3040

Ls-crm-tan, micro-xln, dense, few sl. sparry, no vis por., NS NO 3050

Heebner Shale 3,046ft (-1501)

Flood Sh-blk, dense carb, no vis por., NS NO 3060

Ls-tan, bm, micro-xln, dense sl. sandy w/ SH-blk, AA no vis por., NS NO 3070

Ls-tan-bm, micro-xln, dense, sl. sandy, sl. arg, no vis por., NS NO 3080

Ls-crm mott bm, micro-xln, dense, sl. spary, arg, no vis por., NS NO 3090

Flood Sh- blk, dene sl. carb, w/ silstn-gry-gm dense waxy, no vis por., NS NO 3100

Flood sh-gry-gm, dense waxy 3110

AA 3120

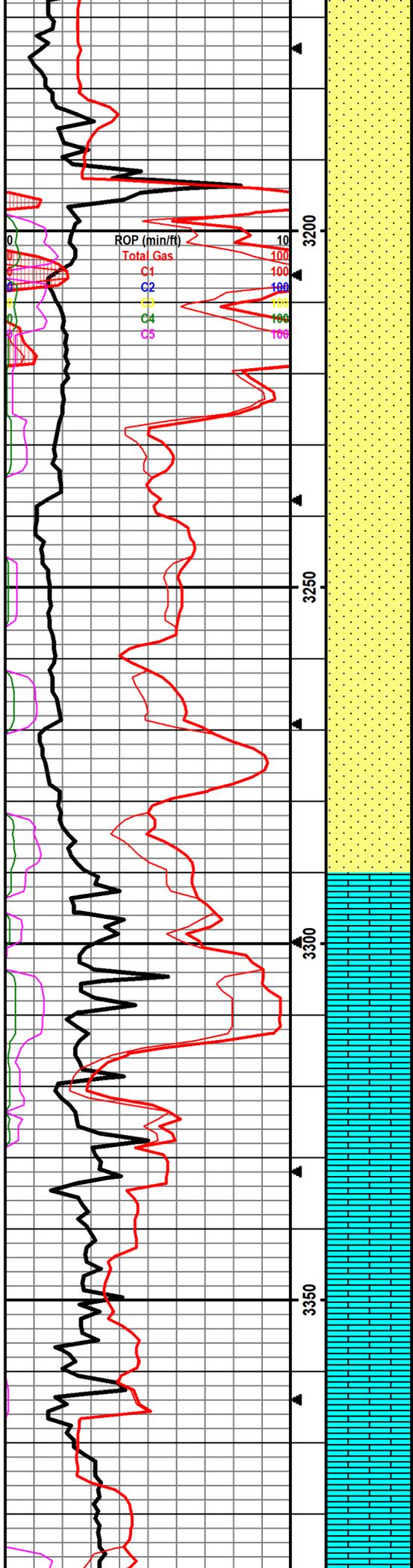
Sh-gry-gm, dense waxy, few silty soft, no vis por. NS NO 3130

Sh- AA 3140

Siltstn; gry-gm, soft globular, NS NO 3150

Predom Siltstn AA, Few clust SS-gm-trans, dense w. cmted, w. sorted, No vis por., NS NO 3160

Flood, SS-gry-gm, dense, w. cmted, w/sorted, pyritic in some, no vis por., NS NO 3170



SS AA 3180

SS-crm-gry, dense, w.cmted, w.sorted, mded, pyritic in some, no vis por. NS NO 3190

SS - AA NS NO 3200

SS-gry-gm, w. cmted, sorted, friable, no vis por. NS NO 3207 Stop

SS-gry-gm, w. cmted, sorted, submded, frisable, no vis por., NS NO NO Flour 3707 30 min 3220

SS- AA, abun. lithic frags, micacious, pyritic, NS NO NO flour 3707 60 min

CFS 3207ft
Stop/30/60

SS-gry- gm, sl. friable, AA NS NO 3720

SS- AA 3730

SS- gry- gm, w. cmted, sorted, sub-mded, dense, no vis por., micacious, pyritic, NS NO 3740

SS- AA 3750

SS- AA, few sl. dense friable, no vis por., NS NO 3760

AA -AA 3770

SS-gry-gm, w.cmted, sl dense, friable, w. sorted, w. mded, micacious, pyritic, no vis por., NS NO 3780

SS- AA 3790

Lansing 3,290ft. (-1745)

Predom SS: AA Few Ls-crm, micro-xln, dense, sparry, no vis por., 3300 NS NO

Ls-crm-tan, micro-xln, dense, few pcs foss (ool) hvy re-xln spar, no vis 3310 por., NS NO

Ls-crm-tan, micro-xln, dense, sparry, no vis por., NS NO 3323 Stop

Ls- tan-brn, micro-xln, v.dense, foss (pelletal-ool) hvy re-xln spar., sl arg, no vis por., NS NO 3323 30min

3323 60min

Ls- crm-brn, micro-xln v. dense, sparry, no vis por., NS NO 3340

CFS 3323ft.
30/60min

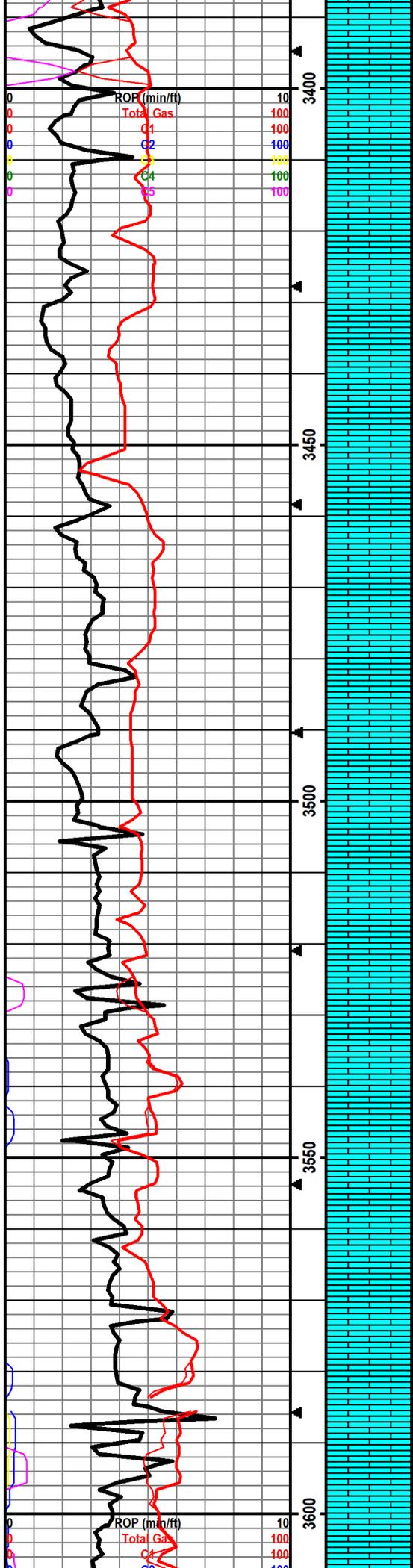
Predom Ls- crm, micro-xln dense, few soft sl. chalky, no vis por., NS NO 3350

Ls- crm, micro-xln, dense, few sl foss (ool) w/ hvy rexln spar. w/ Sh-gry blk dense waxy no vis por., NS NO 3360

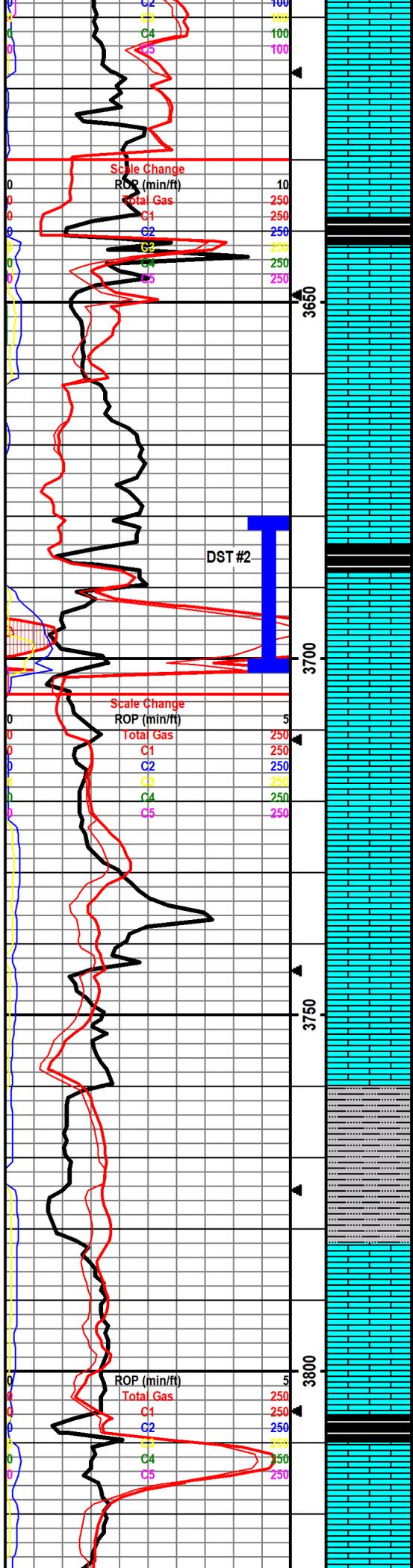
Ls- crm, micro-xln dense, sl. sparry on edges w/ sl. inter-xln por. NS NO 3370

Ls crm-tan, micro-xln, dense, sl. chalky, no vis por., NS NO 3380

Ls-crm-gry, micro-xln, dense, no vis por., NS N O 3390



- LS-cm-ft. bm, micro-xln, v. dense, sparry, no vis por., few sl. arg. NS NO 3400
- LS lt. bm, micro-xln, v. dense, sparry, no vis por. NS NO 3410
- LS bm mott cm, micro-xln, v. dense sparry, sl. chalky, no vis por., NS NO 3420
- LS AA no vis por., NS NO 3430
- Predom, Ls- cm-bm, micro-xln dense, few wht soft, sl. chalky, no vis por., NS NO 3440
- Ls- bm, mott wht, micro-xln, v.dense, sparry, w/ Sh gry-blk, dense waxy, no vis por., NS NO 3450
- AA no vis por., NS NO 3460
- Ls-tan-bm, micro-xln, dense, abun chalk wht, globular, no vis por. NS NO-3470
- Flood Ls- blk, dense, w/ Sh-dense waxy, no vis por., NS NO 3480
- Predom Ls -AA few cm mott bm micro-xln dense, No vis por., NS NO 3490
- Ls cm mott blk, micro-xln dense, no vis por. NS NO 3500
- Ls-bm, micro-xln, dense, no vis por. NS NO 3510
- Ls- cm mott bm, micro-xln, sl. dense, sl. chalky, no vis por., NS NO 3520
- Ls- cm-bm, micro-xln, v. dense, sparry, no vis por., NS NO 3530
- Ls-cm, micro-xln dense, sl. sparry few sh-gry-blk dense waxy, no vis por, NS NO 3540
- Ls- cm, micro-xln, sl. dense, no vis por., NS NO 3550
- Ls- cm-tan, micro-xln, dense, sparry, no vis por., NS NO 3560
- LS- cm, micro-xln v. dense, sl. sparry, w/ few pcs scat chert- gry fresh sharp. no vis por., NS NO 3570
- Ls- cm, micro-xln, v. dense, sl. sparry, no vis por., NS NO 3580
- LS cm, mico-xln, dense , no vis por., NS NO 3590
- Ls cm-tan, mico-xln, v. dense no vis por., NS NO 3600
- Ls-cm to bm, micro-xln, dense, no vis por., NS NO 3610



Ls- bm mott cm, micro-xln, dense, no vis por., NS NO 3620

Ls- cm, micro-xln, v. dense, no vis por., NS NO 3630

Stark Shale 3,638ft. (-2093)

3,638ft Kelly Swivel locked up. Unable to circulate, TOH to replace swivel. Back on bottom 3:53 A.M. Take off drilling 4:53 A.M.

Flood Sh- blk, dense sl. carb, w/sl. show bubbles, w/ Ls-tan-bm micro-xln, v.dense, sl. pyritic, No vis por., NSFO, Sl. odor. 3650

Ls-tan-bm micro-xln, dense, few sl. pelletal, no vis por., NS NO No Flour 3660

LS-tan, micro-xln, v. dense, few sl. sparry, no vis por., NS NO, No Flour 3660 30min

Ls-AA no vis por. NS NO No Flour 3660 60min

Ls- tan, micro-xln, v.dense, no vis por. 3670 NS NO

Ls-bm, micro-xln v.dense, no vis por., NS NO 33680

Ls- AA, no vis por., NS NO 3790

CFS 3660ft
Stop/30/60

Hushpuckney Shale 3,684ft. (-2139)

Flood Sh- blk, dense, brittle, sl. show bubbles, 3700

Flood Ls-tan, micro-xln, sl. dense, v. foss (ool) w/ f-good inter-ool to ool castics por. even bm stain, sl. SFO, g. SFO on break, stng odor (pungent sulfery) 3% trey flour, bright green 3701 30min

CFS 3701ft
Stop/30/60

PDC in hole following DST #2

Ls- tan, micro-xln, sl. dense, v. foss (ool) AA, NSFO, barren, no flour, f. cup odor. 3730

Ls bm mott cm, micro-xln v.dense, no vis por., NS NO 3740

Ls-bm, micro-xln v. dense, sl. sparry, no vis por. NS NO 3750

Ls- AA no vis por., NS NO 3760

Predom Ls AA - 2 pcs sl pelletal, w/ mod inter-xln spar. w/ sl. inter-xln por. NS NO No flour 3770

DST #2
3,360ft. -3,701ft.
30-45-30-45

Rec: 820'Total
820ft. GW
(5%G 95%W)

IFP: 114-360#
ISIP: 1151#
FFP: 389-588#
FSIP: 1149#
HP: 1840-1847#

Flood Siltstn -gry-gm, bm, dense sl waxy no vis por., NS NO 3780

Predomo siltstn AA w/ Ls cm-gm micro-xln, sl dense no vis por., NS NO 3790

Siltstn-gry-gm, soft waxy, no vis por., NS NO 3800

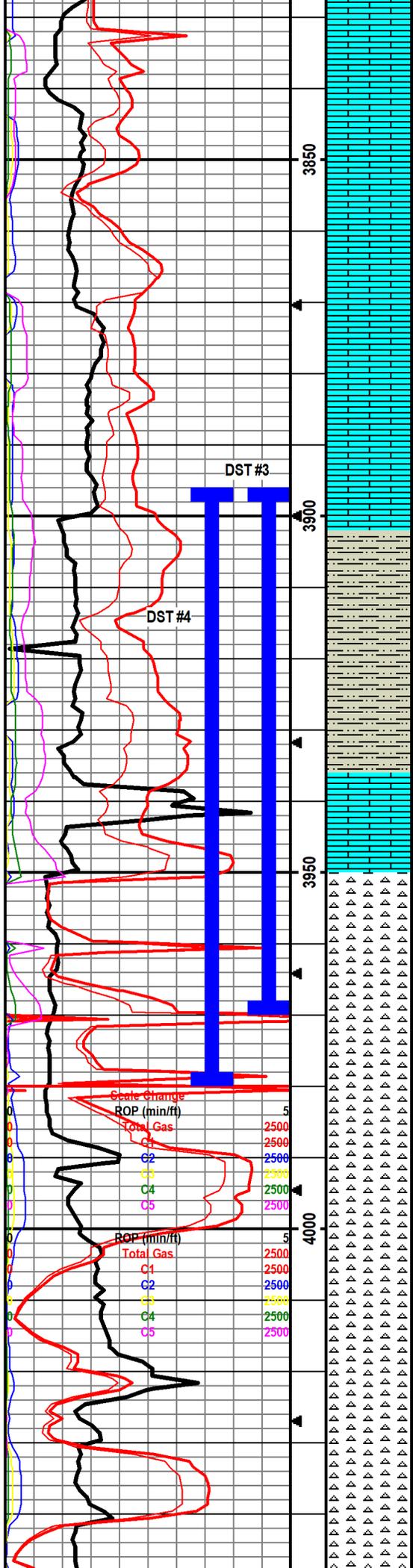
Ls- cm- tan, micro-xln, sl. dense no vis por., NS NO 3810

Ls- cm, micro-xln, sl dense, few bm, v.dense, sparry no vis por. NS NO 3820

Flood Sh-blk fissle, sl. carb, sl. gas bubbles, NS NO 3830

Ls cm mott wht, micro-xln dense, sl. chalky few pelletal, w/ hvy re-xln spar. no vis por., NS NO 3833 30min

CFS 3833
30/60min



Ls AA 3833 60min	3,896ft. -3,970ft. 45-45-75-90	DST #3
Sh-blk, dense fissle, sl, carb, NS NO 3870		
Ls-crm mott wht, micro-xln, sl. dense, arg. earthy, no vis por.s NS NO 3880	189ft. WM (15%W 85%M)	
Predom Ls AA, few pcs Sh-bld dense sl. carb, no vis por NS NO 3890		
Ls-tan-bm, micro-xln v.dense, sl. sparry, no vis por. SN NO 3900		
3910		
AA 3920		
Predom Ls AA, w/ Sh, gry dense waxy no vis pores NS NO 3930		
Sh-gry-gm, mottled, maroon, dense, waxy, NS NO 3940		
Sh gry-gm, mustard, marron, dense waxy NS NO 3950		
Sh-gry mott gm, maroon, soft waxy, few Ls crm, micro-xln, pelletal, dense no vis por., NS NO 3950 30min		
Sh- AA 3pcs chert, v.dense, weathered, w/vf. iner-xln por. spotted bm stain, rest Ls-crm bm, micro-xln NSFO NO 3950 60min		
Mississippian 3,950ft. (-2405)		
Flood chert 10%, wht fresh, few weathered w/ fine inter-xln por. spotty light bm stain NS. v. sl. odor 3960 30min		
2% chert-wht, few weathered w/ fine inter-xln por w/ spotty light bm stain, w/ Ls-tan-bm, v.dense, pale green flour NS NO		
5% chert-wht mostly weathered w/ fine inner-xln to sl. pp por. few sl vuggy, spotty light bm-blk stain, pale green flour,		
10% chert- wht, 10% fresh sharp 50% mostly weathered w/ finer inner-xln por- pp. por spott bm stain, sl. SFO, few 40% v. wethered, hvy blk stain, g. vuggy por, G. SFO w/ gas bubbles, pale green flour. sl. odor. 4010		
10 % chert- wht, 20% fresh sharp, 60% mostly weathered w/ fine inner-xln to pp. por, spotty brown stain, 10% v. weathered, vuggy, even brown stain, GSFO, gas bubbles, few barren, pale green flour no odor. 4020		
10% chert - wht 80% fresh sharp, w/ inter-xln to sl. pp. por., NS NO 20% sl. weathered, w/ inter-xln to sl. pp por., sl. bm stain, NS NO NO Flour., 4030		
10% chert - wht, 90% fresh sharp, no vis por, 10% fresh w/ sl pp-vuggy por., NS NO No flour 4040		
Chert- wht fresh sharp, v. dense, no vis por. NS NO no flour. 4050		
Chert- wht fresh shar, v. dense, no vis por., NS NO no flour 4060		

Rec: 369' Total
180ft. WM
(30%W 70%M)

189ft. WM
(15%W 85%M)

IFP: 43-186#
ISIP: 1154#
FFP: 192-236#
FSIP: 1140#
HP: 2024-1958#

DST #4
3,892ft.-3,980ft.
45-45-75-90

Rec: 680' Total
180ft. GWM
(20%G 40%W)

311ft. GWM
(15%G 25%W)

189 GM
(10%G 90%M)

IFP: 40-52#
ISIP: 441#
FFP: 81-80#
FSIP: 495#
HP: 1790-1711#

CFS 3950
Stop 30/60

CFS 3960
Stop/30/60

CFS 3970
Stop/30/60

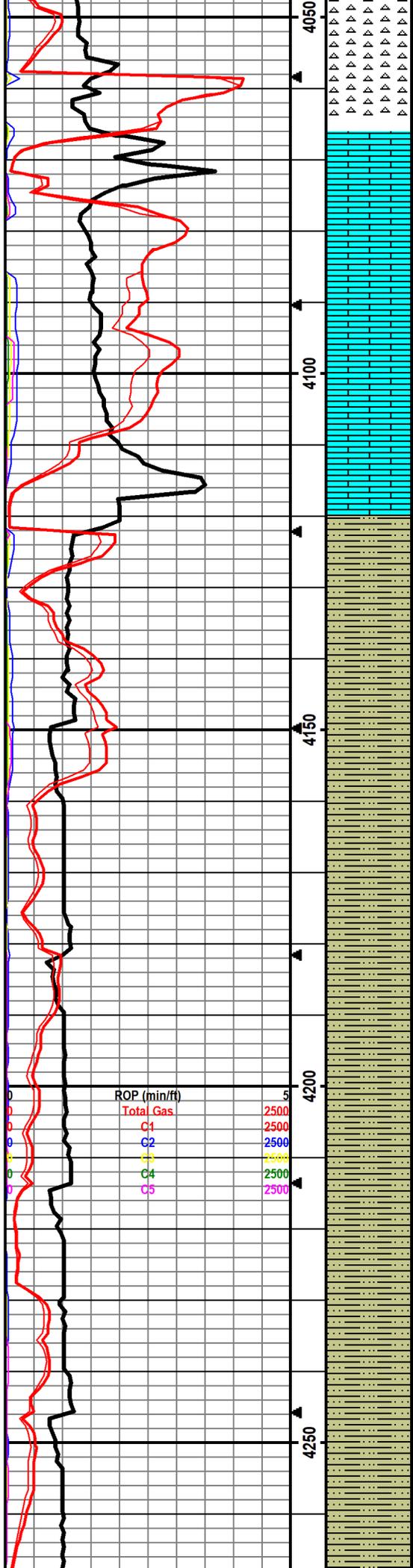
CFS 3980
Stop/30/60

PDC in hole following DST #3

PDC in hole following DST #4

Gas Scale Change

3950-Down Sample Quality Poor. Abun. Sluffing Shale from unconformity and uphole.



Chert-wht, fresh, sharp, v. dense, no vis por., NS NO no flour 4070

Chert-wht-fresh, sharp, v. dense, no vis por., NS NO No Flour. 4080

Gilmore City 4,067ft. (-2522)

Predom 60% Chert AA, W/ LS 40% -cm-gry, tan, micro-xln v. dense, NS NO No flour 4090

Ls- cm-gry,, micro-xln, dense, no vis por, NS NO No flour 4100

Ls- cm mott gm, micro-xln dense, no vis por., NS NO 4110

Flood clean Ls (finally) bm mott cm, micro-xln, sl. dense no vis por., NS NO 4120

Predom Ls- AA, few bm, v.dense, sl sparry, no vis por. NS NO 4130

Kinderhook Shale 4,122ft. (-2577)

Sh-gry, gry mott gm, bm, dense waxy, few sl. silty, no vis por. NS NO 4140

Sh- gry-gren, sl. dense, sl. waxy, no vis por., NS NO 4150

AA 4160

Sh-gry-gm, sl. dense, sl. waxy, few silty, dense, pyritic, NS NO 4170

Sh-gry-gm, sl dense sl waxy, silty, NS NO 4180

AA 4190

Sh- gry dense waxy, NS NO 4200

Sh- gm-gry, dense waxy, few silty, pyritic NS NO 4210

Sh- gm-gry, dense waxy SN NO 4220

Sh-gry, dense waxy NS NO 4230

AA- 4240

Sh- gry-gm, dense, sl waxy, few silty, pyritic, NS NO 4250

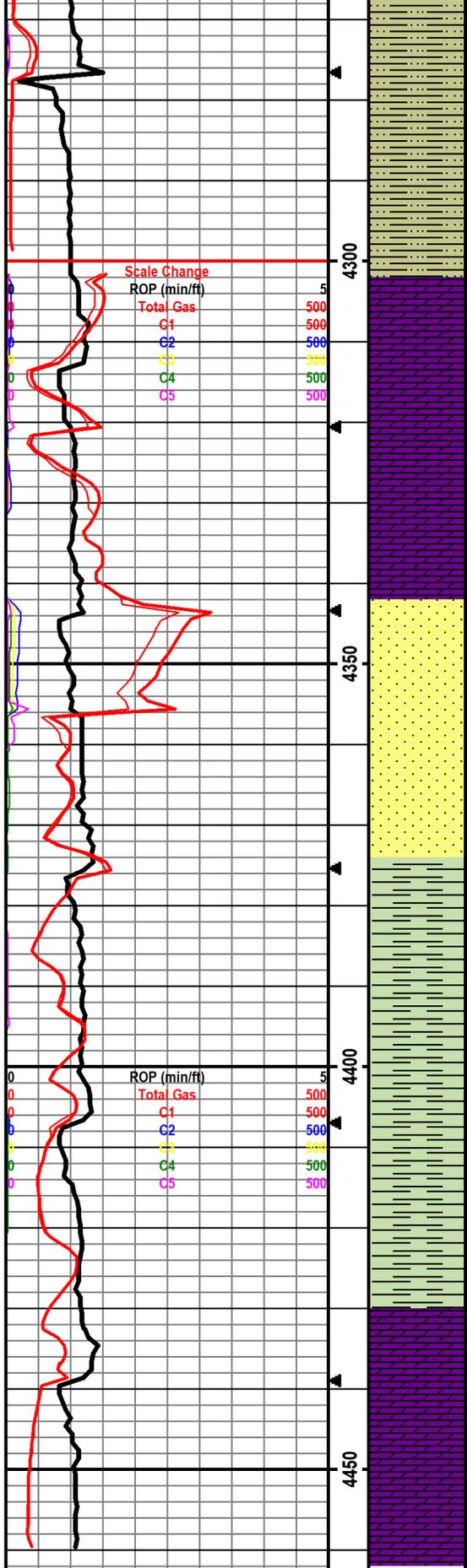
Sh- gry-gm dense, sl. waxy, NS NO4260

Sh- gry-gm, dense, sl. waxy, pyritic, NS NO 4270

Sh- gry- gren dense sl waxy few silty NS NO 4280

Sh-gry-gm, dense waxy NS NO 4290

Sample Quality Improved



Sh-gry-gm, dense waxy NS NO 4250

Predom Sh-AA, Few: bm, sl dense, waxy, sl. dense NS NO 4302 30min

Gas Scale Change

Viola 4,302ft. (-2757)

CFS 4302
30/60min

Predom Sh AA w/ few pcs Dolo-bm, dense, v. fine-xln, few surcrosic soft, no vis por., NS NO 4302 60min

Flood Dolo-bm, fine xln, sl. dense, surcrosic, sl. pyritic, no vis por. NS NO No flour 4320 30min

Dolo- brown, fine-xln, sl. dense, surcrosic, NS NO No Flour. 4320 60min

CFS 4320
30/60

Dolo -brown, med-xln, sl. dense surcrosic, f. inter-xln por., NS NO No flour. 4340

Dolo- brown, med-xln, sl dense surcrosic, few limy, dense, sl. chalky, no vis por.s NS NO - 4350

Simpson 4,344ft. (-2799)

CFS 4355
30/60min

SS-Trans-gm, w. cmtd, sub-mded, sorted, sl. dense, glac in some, No vis por., NS NO 4355 30min

SS-Trans-gm, w. cmtd, sub-mded, sorted, sl. dense, glac in some, No vis por., NS NO 4355 60min

SS-AA, few arg., glac, no vis por. NS NO no flour 4390

SS- trans-gm, bm, mod. cmtd, sub-mded, sorted, sl arg. soft, pyritic w/f. inter-gran por. NS NO no flour w/ Sh-bm-blkm dense fissle, sl. carb, NS NO 4400

Sh- gry-gm dense waxy 4410

Flood Sh- gry-gm, few bm, mottled, dense waxy NS NO 4420

Sh- AA 4430

Sh- gry-gm, dense waxy, few silty-sandy, pyritic NS NO NO flour 4440

AA 4450

Arbuckle 4,430ft. (-2885)

Dolo -cm-bm, v. f-xln, dense, no vis por., NS NO 4460

Dolo- cm-bm, f-xln, sl. dense, surcrosic, no vis por.s NS NO 4460 30min

Dolo-cm-bm, f-xln, sl. dense, no vi spor. NS NO 4460 60min

CFS 4460
30/60min

RTD 4,460ft. 8:25 A.M. 1/8/2023

LTD 4,490ft. 5:36 P.M 1/8/2023



DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206

ATTN: Gareth Dinkel

Maloney #1-15

15-28s-8W Kingman,KS

Start Date: 2022.12.31 @ 23:22:00

End Date: 2023.01.01 @ 07:19:47

Job Ticket #: 69271 DST #: 1

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

Printed: 2023.01.09 @ 15:18:19



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N Waterfront Pkw y
 Bldg 600
 Wichita KS 67206
 ATTN: Garet Dinkel

15-28s-8W Kingman,KS

Maloney #1-15

Job Ticket: 69271

DST#: 1

Test Start: 2022.12.31 @ 23:22:00

GENERAL INFORMATION:

Formation: **Howard/Topeka**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:44:47

Time Test Ended: 07:19:47

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: **2475.00 ft (KB) To 2583.00 ft (KB) (TVD)**

Reference Elevations: 1545.00 ft (KB)

Total Depth: 2620.00 ft (KB) (TVD)

1532.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6751

Inside

Press@RunDepth: 74.37 psig @ 2477.00 ft (KB)

Capacity: psig

Start Date: 2022.12.31

End Date:

2023.01.01

Last Calib.:

1899.12.30

Start Time: 23:22:01

End Time:

07:19:47

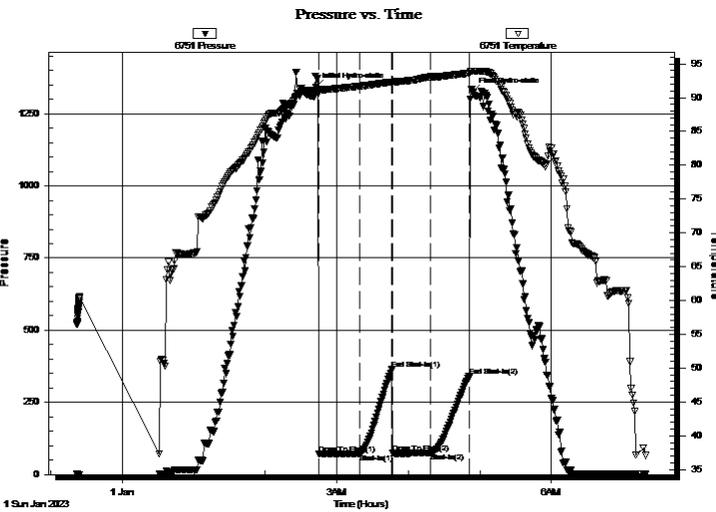
Time On Btm:

2023.01.01 @ 02:42:17

Time Off Btm:

2023.01.01 @ 04:53:47

TEST COMMENT: IF: 30 min., weak surface blow , 1 inch
 IS: 30 min., no blow back
 FF: 30 min., weak surface blow , died 10 min.
 FS: 30 min., no blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1342.86	91.14	Initial Hydro-static
3	72.33	90.74	Open To Flow (1)
37	72.83	91.69	Shut-In(1)
64	366.01	92.30	End Shut-In(1)
65	74.05	92.28	Open To Flow (2)
96	74.37	93.07	Shut-In(2)
129	339.71	93.65	End Shut-In(2)
132	1325.36	93.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	100%M	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

15-28s-8W Kingman,KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206
ATTN: Garet Dinkel

Maloney #1-15

Job Ticket: 69271

DST#: 1

Test Start: 2022.12.31 @ 23:22:00

Tool Information

Drill Pipe:	Length: 2285.00 ft	Diameter: 3.80 inches	Volume: 32.05 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 32.94 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	17.00 ft			String Weight: Initial 50000.00 lb
Depth to Top Packer:	2475.00 ft			Final 50000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	145.00 ft			
Tool Length:	172.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments: Straddle good

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

Shut In Tool	5.00			2453.00	
Hydraulic tool	5.00			2458.00	
Jars	5.00			2463.00	
Safety Joint	3.00			2466.00	
Packer	5.00			2471.00	27.00 Bottom Of Top Packer
Packer	4.00			2475.00	
Stubb	1.00			2476.00	
Change Over Sub	1.00			2477.00	
Recorder	0.00	8672	Outside	2477.00	
Recorder	0.00	6751	Inside	2477.00	
Drill Pipe	95.00			2572.00	
Change Over Sub	1.00			2573.00	
Pickup sub perf	5.00			2578.00	
Blank Off Sub	1.00			2579.00	
Packer - Shale	4.00			2583.00	
Stubb	1.00			2584.00	
Recorder	0.00	6668	Below	2584.00	
Change Over Sub	1.00			2585.00	
Drill Pipe	31.00			2616.00	
Change Over Sub	1.00			2617.00	
Bullnose	3.00			2620.00	145.00 Bottom Packers & Anchor

Total Tool Length: 172.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

15-28s-8W Kingman,KS

1700 N Waterfront Pkw y
Bldg 600
Wichita KS 67206
ATTN: Garet Dinkel

Maloney #1-15

Job Ticket: 69271

DST#: 1

Test Start: 2022.12.31 @ 23:22:00

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: 57.00 sec/qt

Cushion Volume:

bbf

Water Loss: 18.15 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 61000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
5.00	100%M	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbf

Num Fluid Samples: 0

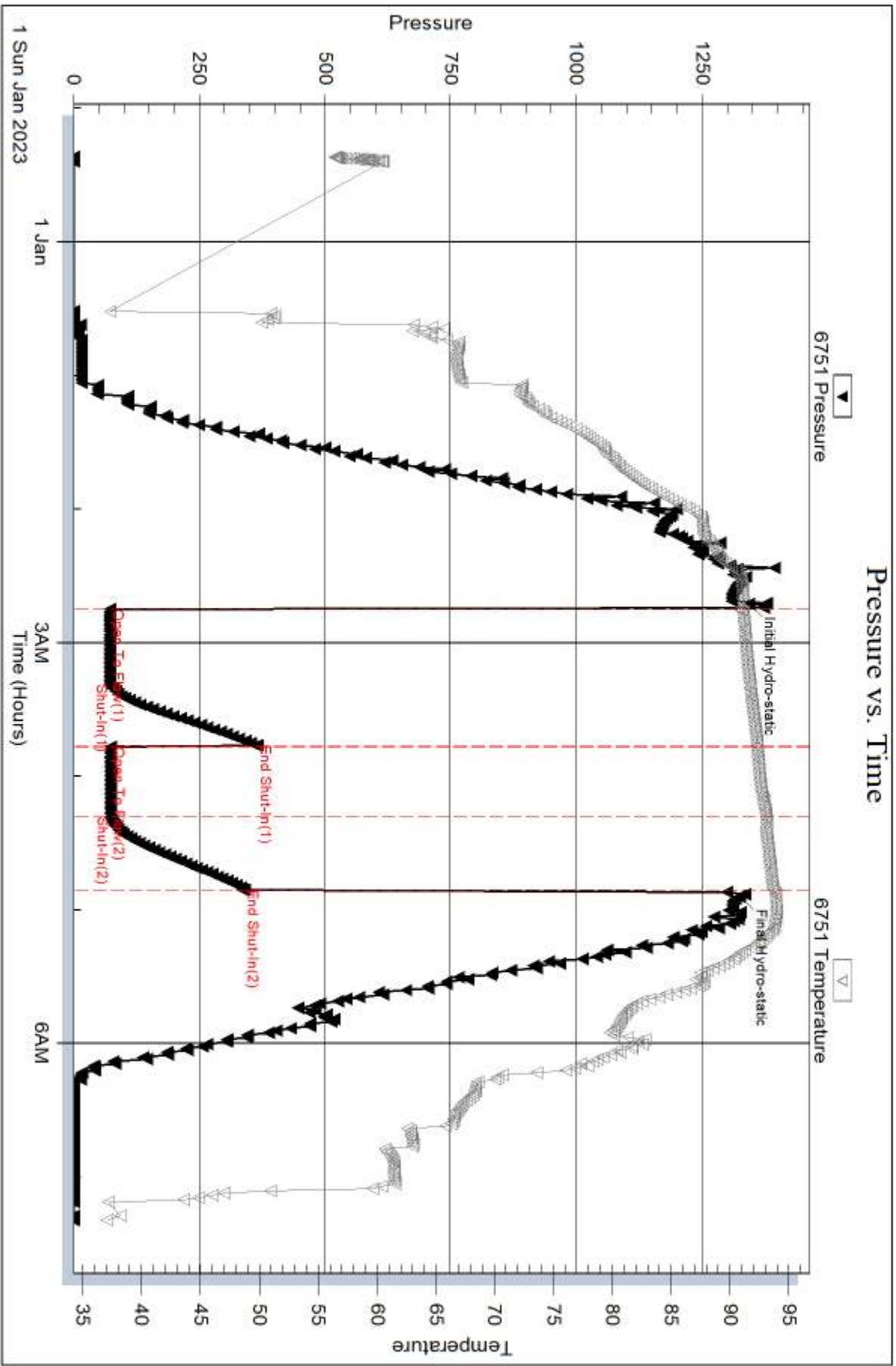
Num Gas Bombs: 0

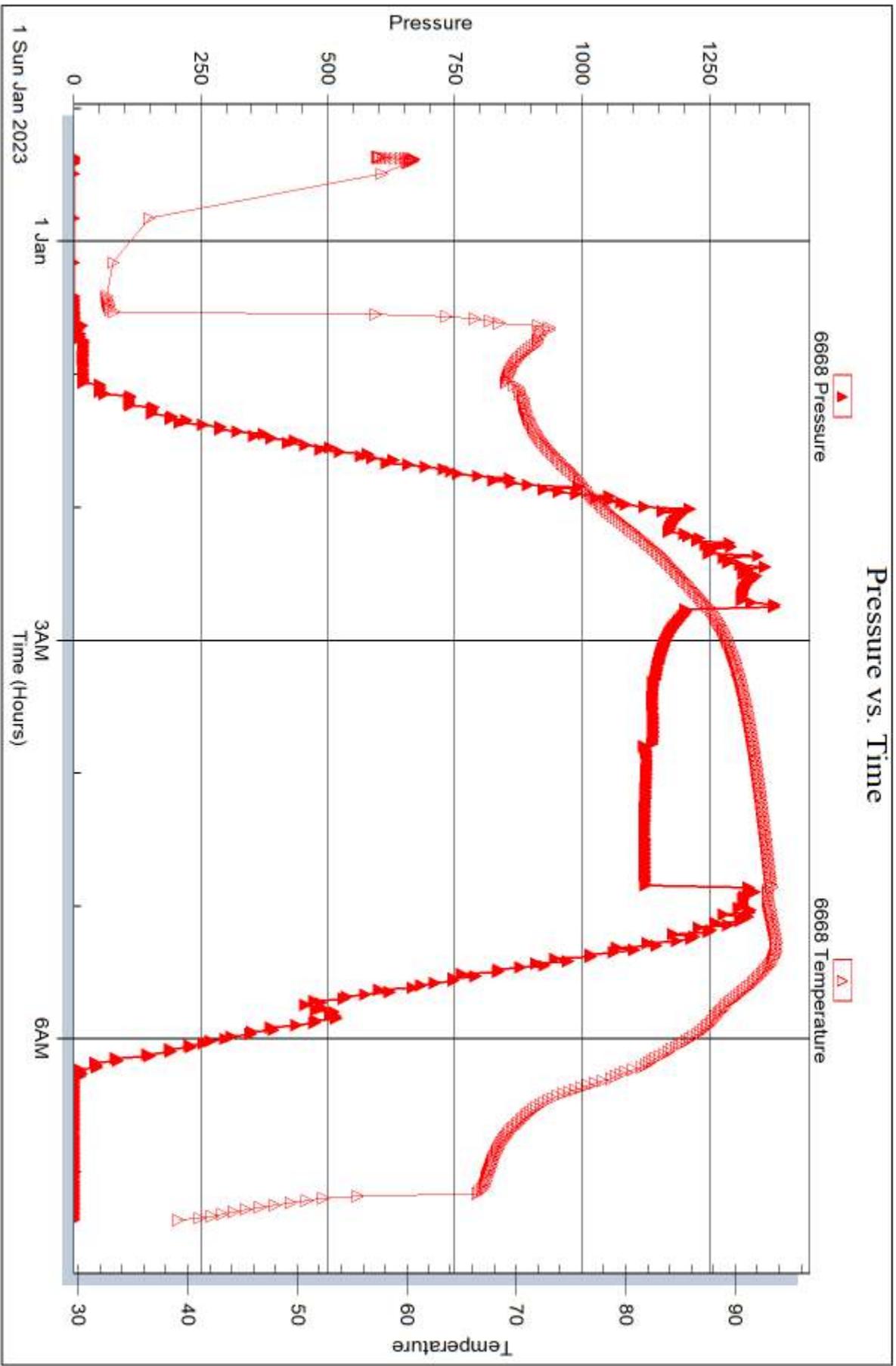
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206

ATTN: Gareth Dinkel

Maloney #1-15

15-28s-8W Kingman,KS

Start Date: 2023.01.04 @ 14:28:13

End Date: 2023.01.08 @ 19:11:35

Job Ticket #: 69272 DST #: 2

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

Printed: 2023.01.09 @ 15:17:41



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
1700 N Waterfront Pkw y
Bldg 600
Wichita KS 67206
ATTN: Garet Dinkel

15-28s-8W Kingman,KS

Maloney #1-15

Job Ticket: 69272

DST#: 2

Test Start: 2023.01.04 @ 14:28:13

GENERAL INFORMATION:

Formation: **Hertha**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:04:30

Time Test Ended: 19:11:35

Test Type: Conventional Bottom Hole (Initial)

Tester: Chris Hagman

Unit No: 69

Interval: 3680.00 ft (KB) To 3701.00 ft (KB) (TVD)

Reference Elevations: 1545.00 ft (KB)

Total Depth: 3701.00 ft (KB) (TVD)

1532.00 ft (CF)

Hole Diameter: 7.80 inches Hole Condition: Good

KB to GR/CF: 13.00 ft

Serial #: 6751 Outside

Press@RunDepth: 588.85 psig @ 3683.00 ft (KB)

Capacity: psig

Start Date: 2023.01.04

End Date: 2023.01.08

Last Calib.: 1899.12.30

Start Time: 14:31:14

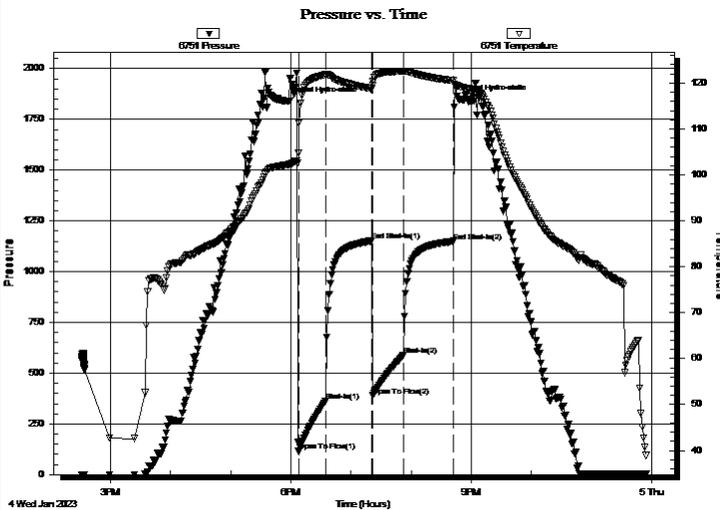
End Time: 19:14:35

Time On Btm: 2023.01.04 @ 17:57:30

Time Off Btm: 2023.01.04 @ 20:48:00

TEST COMMENT: IF: 30 min., BOB 1.5 min., strong building blow , 69 inches
IS: 45 min., blow back 2 min., 1.1 inches
FF: 30 min., BOB 2 min., strong building blow , 85 inches
FS: 45 min., no blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1840.40	102.25	Initial Hydro-static
11	114.74	104.71	Open To Flow (1)
38	360.79	121.85	Shut-In(1)
83	1151.69	118.80	End Shut-In(1)
84	388.84	119.46	Open To Flow (2)
115	588.85	122.61	Shut-In(2)
165	1149.57	120.50	End Shut-In(2)
171	1847.78	119.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
820.00	gassy w ater 5%G,95%W	9.86

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

15-28s-8W Kingman,KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206
ATTN: Garet Dinkel

Maloney #1-15

Job Ticket: 69272

DST#: 2

Test Start: 2023.01.04 @ 14:28:13

Tool Information

Drill Pipe:	Length: 3485.00 ft	Diameter: 3.80 inches	Volume: 48.89 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 70000.00 lb
			<u>Total Volume: 49.78 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3680.00 ft			Final 64000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Shut In Tool	5.00			3655.00	
Hydraulic tool	5.00			3660.00	
Isolator Sub	3.00			3663.00	
Jars	5.00			3668.00	
Safety Joint	3.00			3671.00	
Packer	5.00			3676.00	30.00 Bottom Of Top Packer
Packer	4.00			3680.00	
Stubb	1.00			3681.00	
Perforations	2.00			3683.00	
Recorder	0.00	8672	Inside	3683.00	
Recorder	0.00	6751	Outside	3683.00	
Pickup sub perf	5.00			3688.00	
Perforations	10.00			3698.00	
Bullnose	3.00			3701.00	21.00 Bottom Packers & Anchor

Total Tool Length: 51.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

15-28s-8W Kingman,KS

1700 N Waterfront Pkw y
Bldg 600
Wichita KS 67206
ATTN: Garet Dinkel

Maloney #1-15

Job Ticket: 69272

DST#: 2

Test Start: 2023.01.04 @ 14:28:13

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:

40000 ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
820.00	gassy w ater 5%G,95%W	9.863

Total Length: 820.00 ft Total Volume: 9.863 bbf

Num Fluid Samples: 0

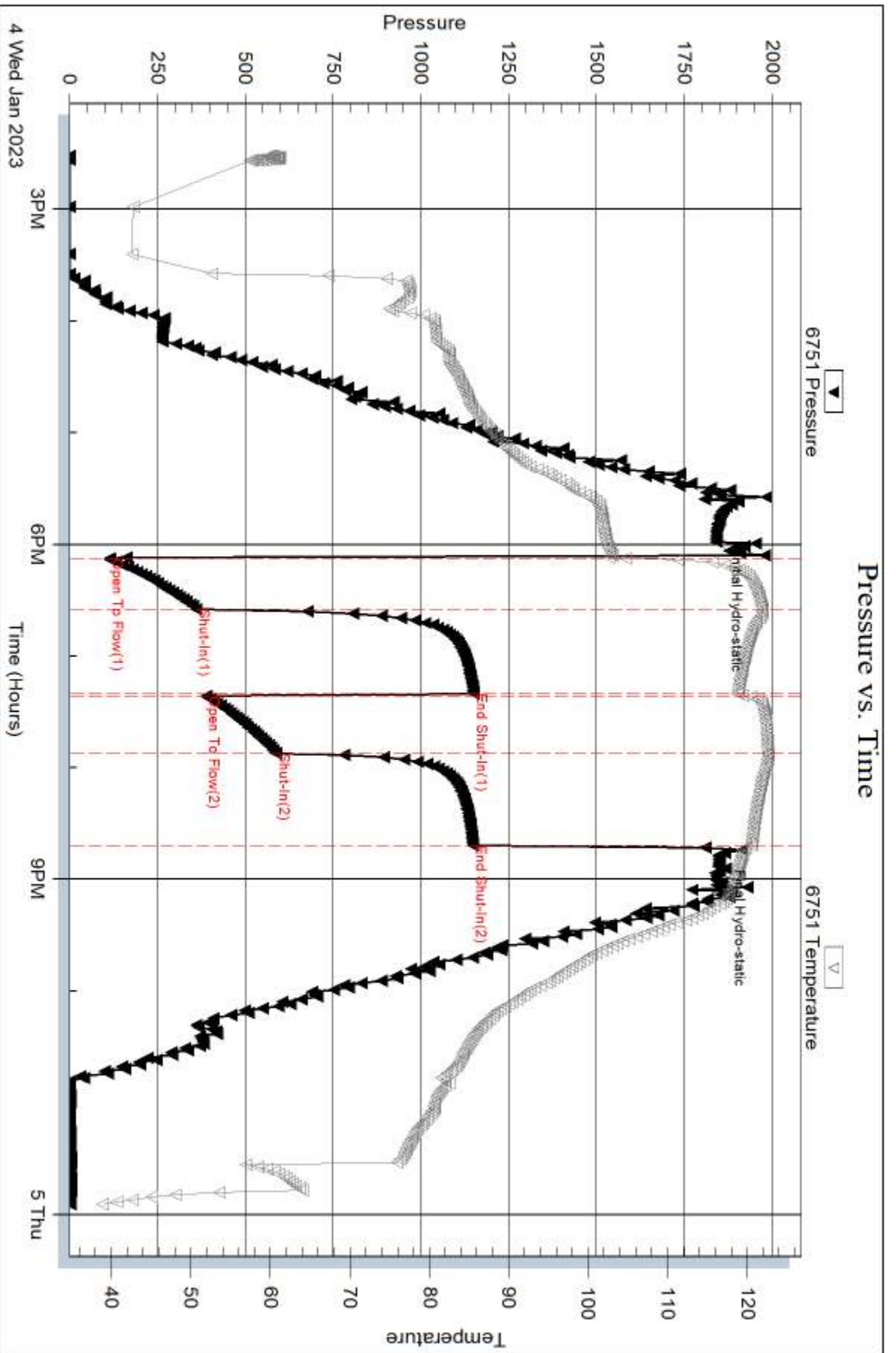
Num Gas Bombs: 0

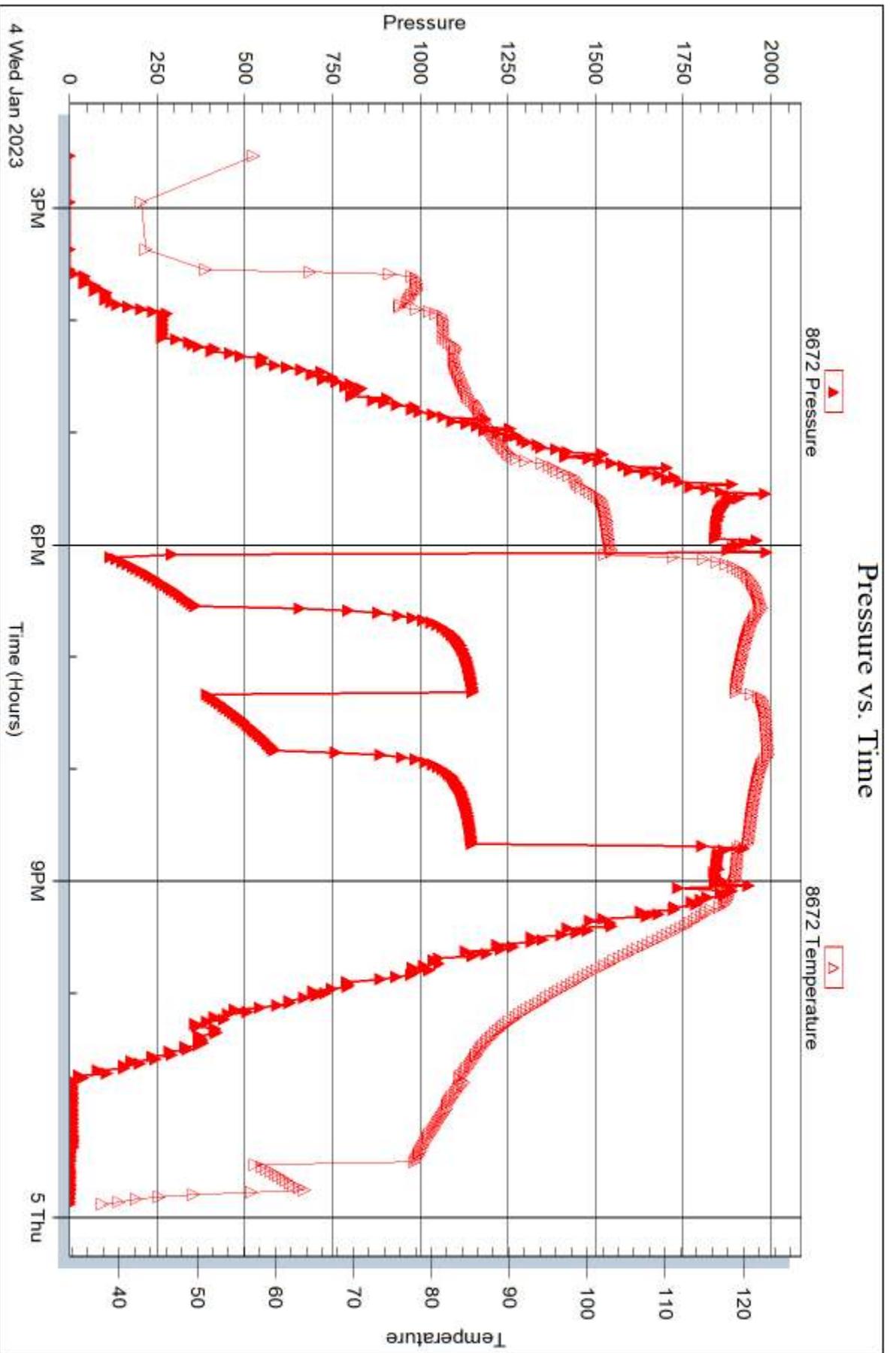
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.245@67F=40000ppm







DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206

ATTN: Garet Dinkel

Maloney #1-15

15-28s-8W Kingman,KS

Start Date: 2023.01.06 @ 02:41:00

End Date: 2023.01.11 @ 03:12:22

Job Ticket #: 69273 DST #: 3

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

Printed: 2023.01.09 @ 15:17:14



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
 1700 N Waterfront Pkw y
 Bldg 600
 Wichita KS 67206
 ATTN: Garet Dinkel

15-28s-8W Kingman,KS

Maloney #1-15

Job Ticket: 69273

DST#: 3

Test Start: 2023.01.06 @ 02:41:00

GENERAL INFORMATION:

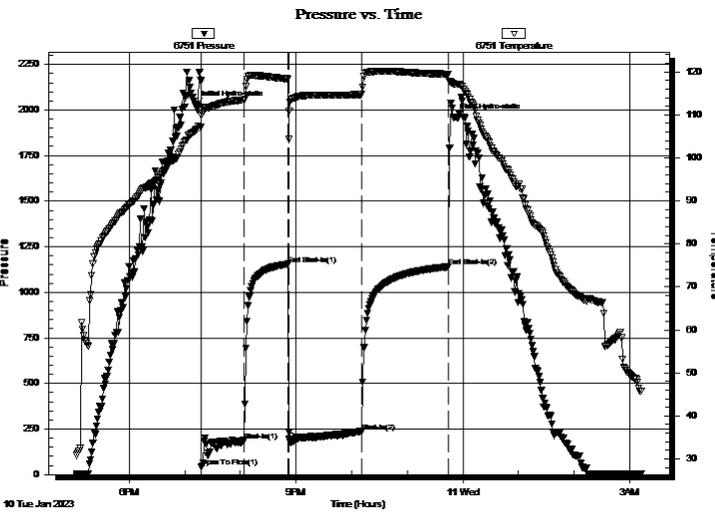
Formation: **Miss.**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:18:07
 Time Test Ended: 03:12:22
 Interval: **3896.00 ft (KB) To 3970.00 ft (KB) (TVD)**
 Total Depth: 3970.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Chris Hagman
 Unit No: 69
 Reference Elevations: 1545.00 ft (KB)
 1532.00 ft (CF)
 KB to GR/CF: 13.00 ft

Serial #: 6751

Outside

Press@RunDepth: 236.08 psig @ 3897.00 ft (KB) Capacity: psig
 Start Date: 2023.01.10 End Date: 2023.01.11 Last Calib.: 1899.12.30
 Start Time: 17:03:23 End Time: 03:12:23 Time On Btm: 2023.01.10 @ 19:11:22
 Time Off Btm: 2023.01.10 @ 23:49:37

TEST COMMENT: IF: 45 min., BOB 2 min., GTS 10 min., strong steady blow
 IS: 45 min., no blow back
 FF: 75 min., BOB GTS ASAO, strong steady blow
 FS: 90 min., blow back 3 min., 4.5 inches



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2024.34	106.42	Initial Hydro-static
7	43.88	109.96	Open To Flow (1)
53	186.26	113.50	Shut-In(1)
100	1154.34	118.34	End Shut-In(1)
102	192.93	110.92	Open To Flow (2)
180	236.08	114.75	Shut-In(2)
273	1140.62	119.47	End Shut-In(2)
279	1958.49	117.24	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	30%W, 70%M	0.89
189.00	15%W, 85%M	2.65

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.50	44.00	393.95
Last Gas Rate	0.50	44.00	365.38
Max. Gas Rate	0.50	51.00	409.17



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

15-28s-8W Kingman,KS

1700 N Waterfront Pkw y
Bldg 600
Wichita KS 67206
ATTN: Garet Dinkel

Maloney #1-15

Job Ticket: 69273

DST#: 3

Test Start: 2023.01.06 @ 02:41:00

Tool Information

Drill Pipe:	Length: 3705.00 ft	Diameter: 3.80 inches	Volume: 51.97 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose:	85000.00 lb
			<u>Total Volume: 52.86 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial	64000.00 lb
Depth to Top Packer:	3896.00 ft			Final	64000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	74.00 ft				
Tool Length:	104.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

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

Shut In Tool	5.00			3871.00	
Hydraulic tool	5.00			3876.00	
Isolator Sub	3.00			3879.00	
Jars	5.00			3884.00	
Safety Joint	3.00			3887.00	
Packer	5.00			3892.00	30.00 Bottom Of Top Packer
Packer	4.00			3896.00	
Stubb	1.00			3897.00	
Recorder	0.00	8672	Inside	3897.00	
Recorder	0.00	6751	Outside	3897.00	
Pickup sub perf	5.00			3902.00	
Change Over Sub	1.00			3903.00	
Drill Pipe	63.00			3966.00	
Change Over Sub	1.00			3967.00	
Bullnose	3.00			3970.00	74.00 Bottom Packers & Anchor

Total Tool Length: 104.00



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

15-28s-8W Kingman,KS

1700 N Waterfront Pkw y
Bldg 600
Wichita KS 67206
ATTN: Garet Dinkel

Maloney #1-15

Job Ticket: 69273

DST#: 3

Test Start: 2023.01.06 @ 02:41:00

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:

27000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 10.18 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
180.00	30%W, 70%M	0.885
189.00	15%W, 85%M	2.651

Total Length: 369.00 ft Total Volume: 3.536 bbl

Num Fluid Samples: 0

Num Gas Bombs: 1

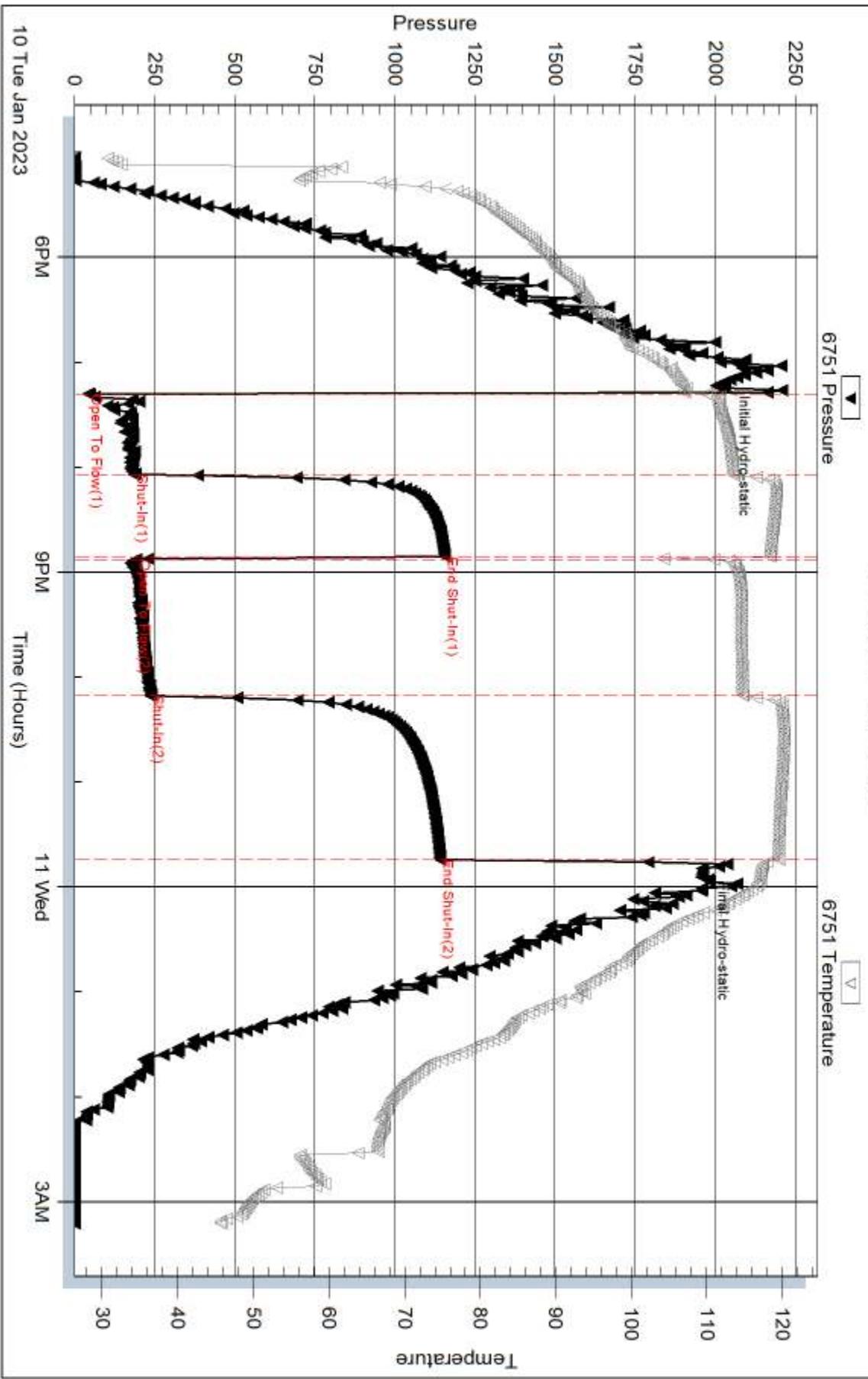
Serial #:

Laboratory Name:

Laboratory Location: Liberal, KS

Recovery Comments: RW=.303@57F=27000ppm

Pressure vs. Time





DRILL STEM TEST REPORT

Prepared For: **Grand Mesa Operating Co.**

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206

ATTN: Gareth Dinkel

Maloney #1-15

15-28s-8W Kingman,KS

Start Date: 2023.01.06 @ 23:30:00

End Date: 2023.01.07 @ 10:39:47

Job Ticket #: 69274 DST #: 4

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

Printed: 2023.01.09 @ 15:12:27



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Grand Mesa Operating Co.
1700 N Waterfront Pkw y
Bldg 600
Wichita KS 67206
ATTN: Garet Dinkel

15-28s-8W Kingman,KS

Maloney #1-15

Job Ticket: 69274

DST#: 4

Test Start: 2023.01.06 @ 23:30:00

GENERAL INFORMATION:

Formation: **Miss**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 02:46:47
 Tester: Chris Hagman
 Time Test Ended: 10:39:47
 Unit No: 69
 Interval: **3892.00 ft (KB) To 3980.00 ft (KB) (TVD)**
 Reference Elevations: 1545.00 ft (KB)
 Total Depth: 3980.00 ft (KB) (TVD)
 1532.00 ft (CF)
 Hole Diameter: 7.80 inches
 Hole Condition: Good
 KB to GR/CF: 13.00 ft

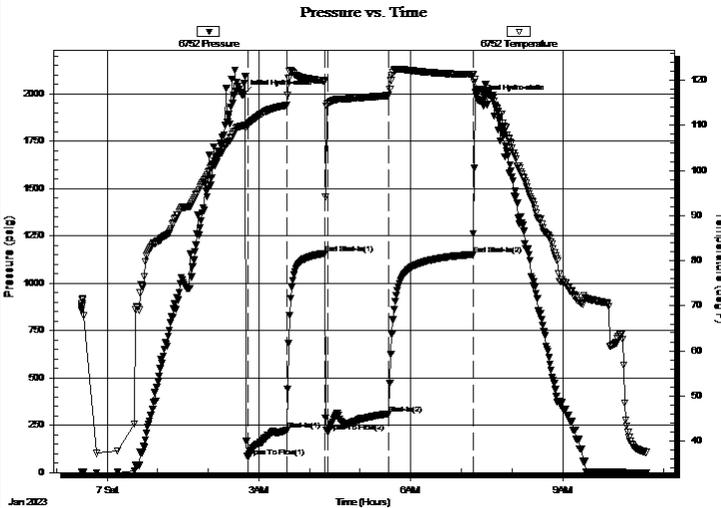
Serial #: 6752

Inside

Press@RunDepth: 311.11 psig @ 3893.00 ft (KB) Capacity: psig
 Start Date: 2023.01.06 End Date: 2023.01.07 Last Calib.: 1899.12.30
 Start Time: 23:30:01 End Time: 10:39:47 Time On Btm: 2023.01.07 @ 02:42:17
 Time Off Btm: 2023.01.07 @ 07:19:02

TEST COMMENT: IF: 45 min., BOB 30 sec., GTS 15 min., strong building blow
 IS: 45 min., no blow back
 FF: 75 min., BOB GTS ASAO, strong steady blow
 FS: 90 min., blow back 30 sec., BOB 6 min., 122 inches

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1999.20	109.95	Initial Hydro-static
5	83.21	109.89	Open To Flow (1)
52	225.14	114.49	Shut-In(1)
96	1156.97	119.85	End Shut-In(1)
99	215.21	114.66	Open To Flow (2)
172	311.11	116.65	Shut-In(2)
272	1152.32	121.23	End Shut-In(2)
277	1969.81	118.07	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
180.00	gassy w atery mud 20%G,40%W,40%M	0.89
311.00	gassy w atery mud 15%G,25%W,60%M	4.36
189.00	gassy mud 10%G,90%M	2.65

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.38	31.00	166.31
Last Gas Rate	0.63	17.00	311.64
Max. Gas Rate	0.50	122.00	853.38



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Grand Mesa Operating Co.

15-28s-8W Kingman,KS

1700 N Waterfront Pkwy
Bldg 600
Wichita KS 67206
ATTN: Garet Dinkel

Maloney #1-15

Job Ticket: 69274

DST#: 4

Test Start: 2023.01.06 @ 23:30:00

Tool Information

Drill Pipe:	Length: 3705.00 ft	Diameter: 3.80 inches	Volume: 51.97 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 180.00 ft	Diameter: 2.25 inches	Volume: 0.89 bbl	Weight to Pull Loose: 95000.00 lb
		Total Volume: 52.86 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 64000.00 lb
Depth to Top Packer:	3892.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.00 ft			
Tool Length:	118.00 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			3867.00	
Hydraulic tool	5.00			3872.00	
Isolator Sub	3.00			3875.00	
Jars	5.00			3880.00	
Safety Joint	3.00			3883.00	
Packer	5.00			3888.00	30.00 Bottom Of Top Packer
Packer	4.00			3892.00	
Stubb	1.00			3893.00	
Recorder	0.00	6752	Inside	3893.00	
Recorder	0.00	6751	Outside	3893.00	
Pickup sub perf	5.00			3898.00	
Perforations	14.00			3912.00	
Change Over Sub	1.00			3913.00	
Drill Pipe	63.00			3976.00	
Change Over Sub	1.00			3977.00	
Bullnose	3.00			3980.00	88.00 Bottom Packers & Anchor
Total Tool Length:	118.00				



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Grand Mesa Operating Co.

15-28s-8W Kingman,KS

1700 N Waterfront Pkw y
Bldg 600
Wichita KS 67206
ATTN: Garet Dinkel

Maloney #1-15

Job Ticket: 69274

DST#: 4

Test Start: 2023.01.06 @ 23:30:00

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:

32000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbf

Water Loss: 10.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 7900.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
180.00	gassy w atery mud 20%G,40%W,40%M	0.885
311.00	gassy w atery mud 15%G,25%W,60%M	4.363
189.00	gassy mud 10%G,90%M	2.651

Total Length: 680.00 ft Total Volume: 7.899 bbf

Num Fluid Samples: 0

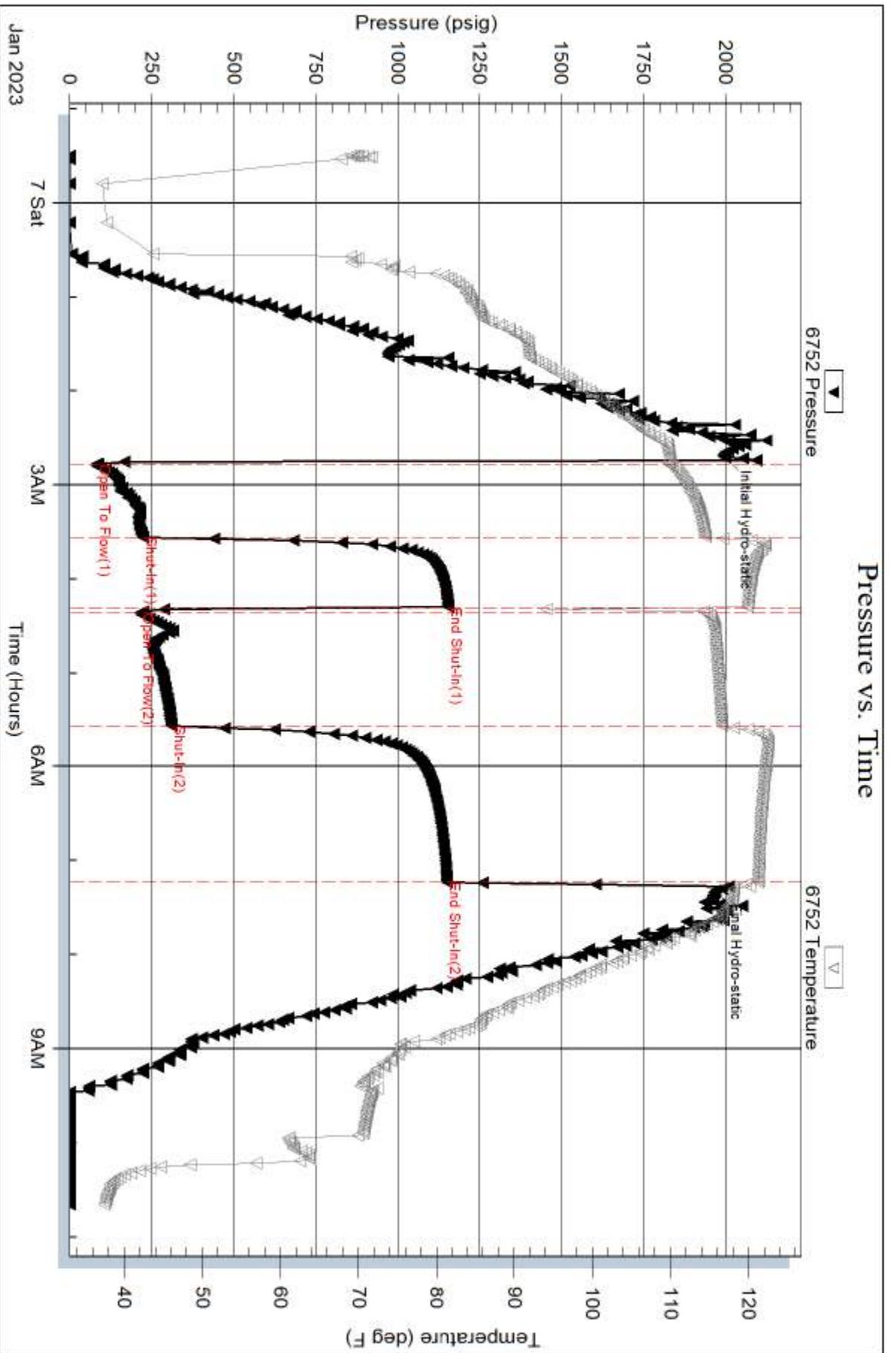
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW=.345@45F=32000ppm

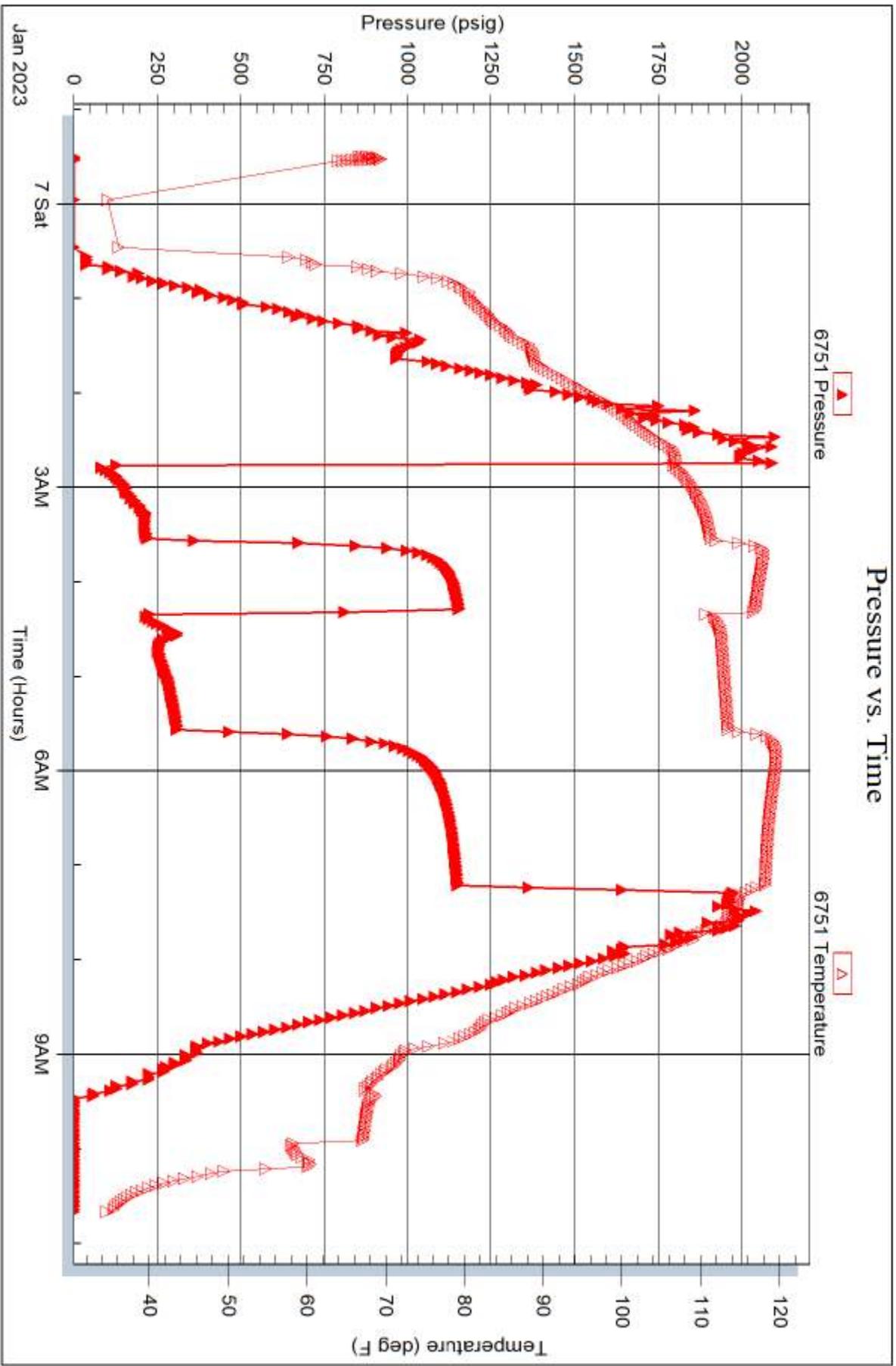


Serial #: 6751

Outside Grand Mesa Operating Co.

Maloney #1-15

DST Test Number: 4





TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69271

Well Name & No. Maloney 1-15 Test No. 1 Date 12-31-22
 Company Grand Mesa Operating, CO Elevation 1545 KB 1532 GL
 Address _____
 Co. Rep / Geo. Caret Dinkel Rig Marfan #20
 Location: Sec. 15 Twp 28 Rge. 8 Co. Kingman State KS

Interval Tested 2475-2583 Zone Tested Howard / Tapeka
 Anchor Length 108' Drill Pipe Run 2285 Mud Wt. 10.0
 Top Packer Depth 2470 Drill Collars Run 180 Vis 517
 Bottom Packer Depth 2475 Wt. Pipe Run N.A. WL 18.2
 Total Depth 2620 Chlorides 61,000 ppm System LCM 2#

Blow Description IF: 30 min., weak surface blow, 1 inch
ISB: 30 min., no blow back
RF: 30 min., weak surface blow, dried 10 min.
RSB: 30 min., no blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>5</u>	<u>Mud</u>				<u>100%</u>
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud
Rec	Feet of	%gas	%oil	%water	%mud

Rec Total 5 BHT 93 Gravity _____ API RW _____ @ _____ °F Chlorides _____ ppm

(A) Initial Hydrostatic <u>1343</u>	<input checked="" type="checkbox"/> Test <u>straddle (good)</u>	T-On Location <u>2200</u>
(B) First Initial Flow <u>72</u>	<input checked="" type="checkbox"/> Jars <u>300</u> <u>1800</u>	T-Started <u>2330</u>
(C) First Final Flow <u>73</u>	<input checked="" type="checkbox"/> Safety Joint _____	T-Open <u>0250</u>
(D) Initial Shut-In <u>366</u>	<input type="checkbox"/> Circ Sub _____	T-Pulled <u>0450</u>
(E) Second Initial Flow <u>74</u>	<input type="checkbox"/> Hourly Standby _____	T-Out <u>0730</u>
(F) Second Final Flow <u>74</u>	<input checked="" type="checkbox"/> Mileage <u>70rt 122.50</u>	Comments <u>2322</u>
(G) Final Shut-In <u>340</u>	<input type="checkbox"/> Sampler _____	
(H) Final Hydrostatic <u>1325</u>	<input checked="" type="checkbox"/> Straddle <u>800</u>	<input checked="" type="checkbox"/> EM Tool <u>good</u>
Initial Open <u>30</u>	<input checked="" type="checkbox"/> Shale Packer <u>X 1.0</u> <u>250</u>	<input type="checkbox"/> Ruined Shale Packer _____
Initial Shut-In <u>30</u>	<input type="checkbox"/> Extra Packer _____	<input type="checkbox"/> Ruined Packer _____
Final Flow <u>30</u>	<input type="checkbox"/> Extra Recorder _____	<input type="checkbox"/> Extra Copies _____
Final Shut-In <u>30</u>	<input type="checkbox"/> Day Standby _____	Sub Total <u>0</u>
	<input type="checkbox"/> Accessibility _____	Total <u>3272.50</u>
	Sub Total <u>3272.50</u>	MP/DST Disc't _____

Approved By _____ Our Representative Chris Hagman

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

NO. **69272**

Well Name & No. Maloney 1-15 Test No. 2 Date 1-4-2023
 Company Grand Mesa Operating Elevation 1545 KB 1532 GL
 Address _____
 Co. Rep / Geo. Garret Dinkel Rig Murfin #20
 Location: Sec. 15 Twp 28 Rge. 8 Co. Kingman State KS

Interval Tested 3680-3701 Zone Tested Hertha
 Anchor Length 21' Drill Pipe Run 3485 Mud Wt. 9.8
 Top Packer Depth 3675 Drill Collars Run 180 Vis 61
 Bottom Packer Depth 3680 Wt. Pipe Run N.A. WL 7.2
 Total Depth 3701 Chlorides 4,500 ppm System LCM 2#

Blow Description IP: 30 min., BOB 1.5 min., strong building blow, 85 inches
FSB: 45 min., Blow back 2 min., 1.1 inch
FP: 30 min., BOB 2 min., strong building blow, 69 inches
FSB: 45 min., No blow back

Rec	Feet of	%gas	%oil	%water	%mud
<u>820</u>	<u>gassy water</u>	<u>5</u>	<u>95</u>		
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud
Rec _____	Feet of _____	%gas	%oil	%water	%mud

Rec Total 820 BHT 121 Gravity _____ API RW .245 @ 67 °F Chlorides 40,000 ppm

(A) Initial Hydrostatic 1840 Test conv. 1800 T-On Location 1400
 (B) First Initial Flow 115 Jars 300 T-Started 1530
 (C) First Final Flow 361 Safety Joint _____ T-Open _____
 (D) Initial Shut-In 1152 Circ Sub _____ T-Pulled _____
 (E) Second Initial Flow 389 Hourly Standby _____ T-Out _____
 (F) Second Final Flow 586 Mileage 70 122.50 Comments 1428
 (G) Final Shut-In 1150 Sampler _____
 (H) Final Hydrostatic 1848 Straddle _____ EM Tool good
 Ruined Shale Packer _____
 Ruined Packer _____

Initial Open 30 Extra Packer _____ Extra Copies _____
 Initial Shut-In 45 Extra Recorder _____
 Final Flow 30 Day Standby _____ Sub Total 0
 Final Shut-In 45 Accessibility _____ Total 2222.50
 Sub Total 2222.50 MP/DST Disc't _____

Approved By _____ Our Representative Chris Hagan
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TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

Test Ticket

NO. 69273

Well Name & No. Maloney 415 Test No. 3 Date 1-6-23
 Company Grand Mesa Oil Co. Elevation 1545 KB 1532 GL
 Address _____
 Co. Rep / Geo. Garet Dinkel Rig Murfn #20
 Location: Sec. 15 Twp 28 Rge. 8 Co. Kingman State KS

Interval Tested 3896-3970 Zone Tested MISS
 Anchor Length 74' Drill Pipe Run 3705 Mud Wt. 9.7
 Top Packer Depth 3891 Drill Collars Run 180 Vls 56
 Bottom Packer Depth 3896 Wt. Pipe Run N.A. WL 10.2
 Total Depth 3970 Chlorides 7,900 ppm System LCM 2#

Blow Description IF: 45 min., BOB 2 min., GTS 10 min., strong steady blow
TSB: 45 min., no blow back
FF: 75 min., BOB GTS AS NO, strong steady blow
FSP: 90 min, blow back 3 min., 4.5 inches

Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>watery mud</u>			<u>30</u>	<u>70</u>
<u>189</u>	<u>watery mud</u>			<u>15</u>	<u>85</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 369 BHT 120 Gravity _____ API RW .303 @ 57 °F Chlorides 22,000 ppm

(A) Initial Hydrostatic 2024
 (B) First Initial Flow 44
 (C) First Final Flow 186
 (D) Initial Shut-In 1154
 (E) Second Initial Flow 193
 (F) Second Final Flow 236
 (G) Final Shut-In 1141
 (H) Final Hydrostatic 1958

Test CONV 1800
 Jars 300
 Safety Joint _____
 Circ Sub _____
 Hourly Standby _____
 Mileage 70 122.50
 Sampler _____
 Straddle _____
 Shale Packer _____
 Extra Packer _____
 Extra Recorder _____
 Day Standby _____
 Accessibility _____
 Sub Total 2222.50

T-On Location 0100
 T-Started 0530
 T-Open 0610
 T-Pulled 1025
 T-Out 1400
 Comments 0241
 EM Tool good
 Ruined Shale Packer _____
 Ruined Packer _____
 Extra Copies _____
 Sub Total 0
 Total 2222.50
 MP/DST Disc't _____

Initial Open 45
 Initial Shut-In 45
 Final Flow 75
 Final Shut-In 90

Approved By _____ Our Representative Chris Hegren

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TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

NO. 69274

Well Name & No. Mabrey 1-S Test No. 4 Date 1-6-23
 Company Grand Mesa Oil Co. Elevation 1545 KB 1532 GL
 Address _____
 Co. Rep / Geo. Geert Dinkel Rig Muffin 20
 Location: Sec. 15 Twp 28 Rge. 8 Co. Kingman State KS

Interval Tested 3892-3980 Zone Tested M.33.
 Anchor Length 88 Ft. Drill Pipe Run 3705 Mud Wt. 9.7
 Top Packer Depth 3887 Drill Collars Run 180 Vis 56
 Bottom Packer Depth 3892 Wt. Pipe Run N.A. WL 10.2
 Total Depth 3980 Chlorides 7900 ppm System LCM 2 #

Blow Description IP: 45 min., BOB 30 sec., GTS 15 min., strong building blow
ISL: 45 min., no blow back
FF: 75 min., BOB GTS ASAP, strong steady blow
FSD: 90 min., blow back 30 sec., BOB 6 min., 122 inches

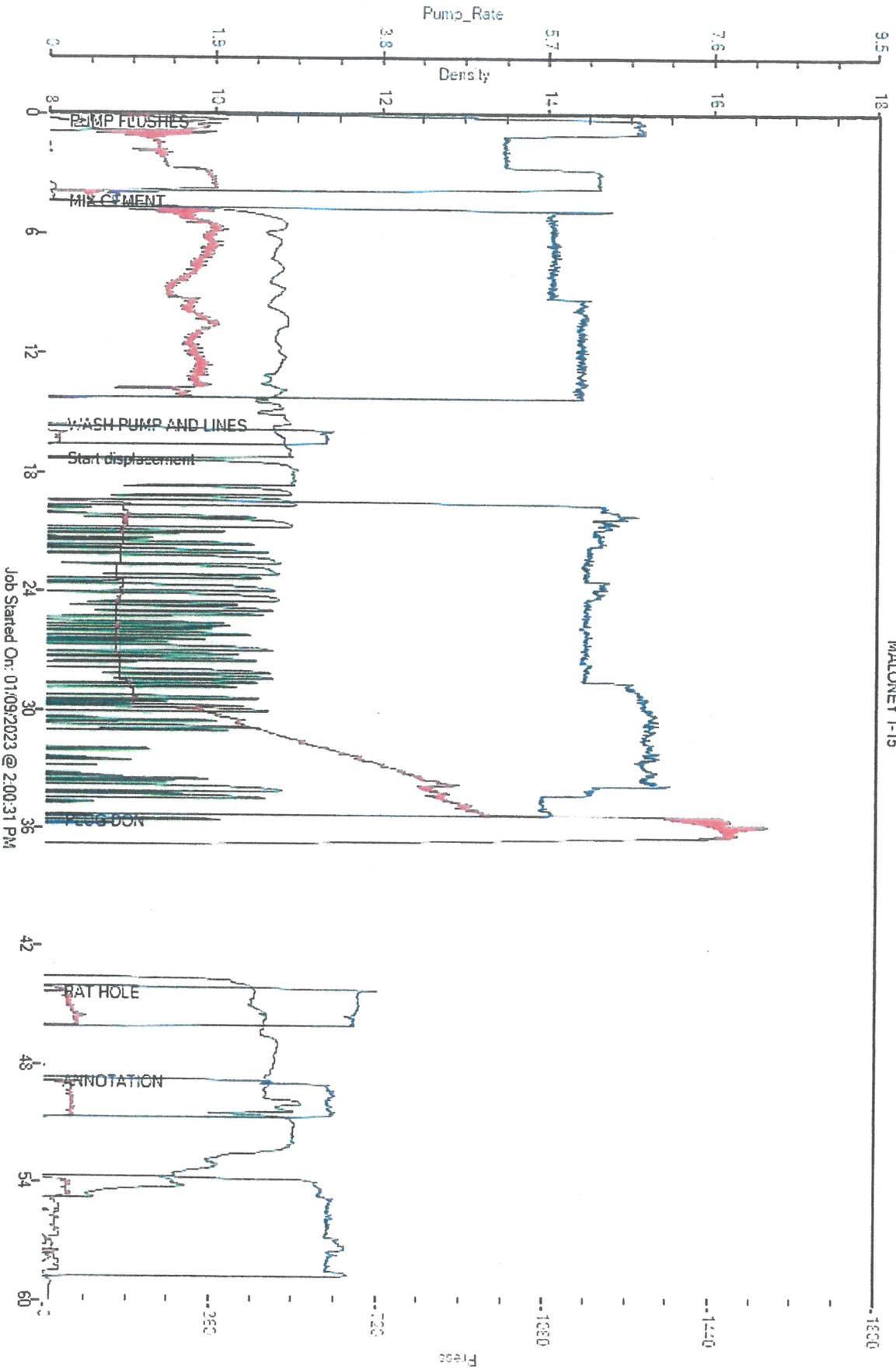
Rec	Feet of	%gas	%oil	%water	%mud
<u>180</u>	<u>gassy watery mud</u>	<u>20</u>		<u>40</u>	<u>40</u>
<u>311</u>	<u>gassy watery mud</u>	<u>15</u>		<u>25</u>	<u>60</u>
<u>189</u>	<u>gassy mud</u>	<u>10</u>			<u>90</u>
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____
Rec _____	Feet of _____	%gas _____	%oil _____	%water _____	%mud _____

Rec Total 680 BHT 122 Gravity _____ API RW .345 @ 45 ° F Chlorides 32,000 ppm

(A) Initial Hydrostatic 2000 Test conv. 1800 T-On Location 2200
 (B) First Initial Flow 83 Jars 300 T-Started 2345
 (C) First Final Flow 225 Safety Joint _____ T-Open 0250
 (D) Initial Shut-In 1157 Circ Sub _____ T-Pulled 0705
 (E) Second Initial Flow 215 Hourly Standby _____ T-Out 1030
 (F) Second Final Flow 311 Mileage x 70 122.50 Comments 2330
 (G) Final Shut-In 1152 Sampler _____
 (H) Final Hydrostatic 1970 Straddle _____
 Shale Packer _____ EM Tool good
 Extra Packer _____ Ruined Shale Packer _____
 Extra Recorder _____ Ruined Packer _____
 Day Standby _____ Sub Total 0
 Accessibility _____ Total 2222.50
 Sub Total 2222.50 MP/DST Disc't _____

Approved By _____ Our Representative Chris Hegard
 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.

GRAND MESA
MALONEY 1-15





Service Order No.

4847

457 Yucca Lane • Pratt, Kansas 67124 • 620-388-5676

Date 1/23/2023

Company <u>Grand Mesa Operating Company</u>			Client Order# <u>NW</u>		
Billing Address <u>Maloney #1-15</u>		City	State	Zip	
Lease & Well # <u>Maloney #1-15</u>		Field Name		Legal Description (coordinates) <u>15-285-8W</u>	
County <u>Kingman</u>	State <u>Kansas</u>	Casing Size <u>5 1/2</u>		Casing Weight	
Fluid Level (surface)		Reading from <u>11' AG</u>	Customer T.D.		Excel Wireline T.D.
Engineer <u>N. Schneider</u>	Operator <u>D. Wheatley</u>	Operator		Unit# <u>11</u>	

Product Code	Description	Qty	Unit Price	Depth		\$ Amount
				From	To	
	<u>TCP Service Charge</u>					
	<u>5 1/2 CIBP</u>					
	<u>Setting Charge @ 4270</u>	<u>4270</u>	<u>.25</u>	<u>4270</u>		
	<u>5 x 4 3.125" TCP</u>	<u>20</u>		<u>3948</u>	<u>3953</u>	
	<u>Standard Mechanical Fining Head</u>					
	<u>Debris Sub</u>					
	<u>Perforating Drop Bar</u>					
	<u>Gamma Ray Collar Log x 2</u>	<u>3830</u>	<u>M.A.</u>	<u>0</u>	<u>3830</u>	
	<u>Logging Charge x 2</u>	<u>1100</u>		<u>3830</u>	<u>3670</u>	

Received the above service according to the terms and conditions specified below, which we have read and to which we hereby agree.

Customer [Signature]

General Terms and Conditions

- (1) All accounts are to be paid within the terms fixed by Excel Wireline invoices and should these terms not be observed, interest at the rate of 1.5% per month will be charged from the date of such invoice. Interest, Attorney, Court, Filing and other fees will be added to accounts turned over to collections.
- (2) Because of the uncertain conditions existing in a well which are beyond the control of Excel Wireline, it is understood by the customer that Excel Wireline cannot guarantee the results of their services and will not be held responsible for personal or property damage in the performance of their services.
- (3) Should any of Excel Wireline instruments be lost or damaged in the performance of the operations requested, the customer agrees to make every reasonable effort to recover same, and to reimburse Excel Wireline for the value of the items which cannot be recovered or for the cost of repairing damage to items recovered.
- (4) It is further understood and agreed that all depth measurements shall be supervised by the customer or its employees, and customer hereby certifies that the zones, as shot, were approved.
- (5) The customer certifies that it has the full right and authority to order such work on such well, and that the well in which the work to be done by Excel Wireline is in proper and suitable condition for the performance of said work.
- (6) No employee is authorized to alter the terms or conditions of this agreement.

SUBTOTAL

DISCOUNT

SUBTOTAL

TAX

NET TOTAL



Please Remit To:
 P.O. Box 549
 Hays, KS 67601
 Phone: (785) 628-6395
 Fax: (785) 628-3651

FIELD TICKET No.

- 7476

DATE 1/20/23
 UNIT # 3362

INVOICE NO.	P.O. NO.	AFE NO.
CUSTOMER <u>Grand Mesa Operating Co.</u>	LEASE <u>Maloney</u>	WELL NO. <u>1-15</u>
ADDRESS	FIELD <u>J</u> STATE <u>Ks.</u>	COUNTY <u>Kingman</u>
CITY	LOCATION <u>15-28s-8w</u>	TBG. SIZE
STATE ZIP	CASING SIZE & WT. <u>5 1/2"</u>	TYPE OF JOB <u>GR CCL Bond Log & Perf</u>
ORDERED BY	TITLE	SERVICE SUPV.

PART NO.	DESCRIPTION	REV. CODE	QTY.	UNIT PRICE	AMOUNT
<u>70-210-1000</u>	<u>Service Charge</u>				
<u>70-214-0700</u>	<u>GR CCL Bond Log Depth Charge 0-4381</u>				
<u>70-212-0700</u>	<u>GR CCL Bond Log Operations Charge 2750-4381</u>				
<u>75-805-0065</u>	<u>Perf 4" Slick 4328-30 8 shots</u>				

CALLED OUT _____ Time _____ Date	ON LOCATION <u>8:00</u> Time <u>1/20/23</u> Date	COMPLETED <u>11:30</u> Time <u>1/20</u> Date	TOTAL SERVICE & MATERIALS DISCOUNT TAX TOTAL CHARGES
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WITH MY INITIALS, I CONFIRM THAT THE TIME SHOWN IN THE "HOURS" COLUMN, ACCURATELY REFLECTS MY COMPENSABLE TIME.

Employee Name (Print)	Hours	Initials
<u>Gottschalk</u>	<u>9.25</u>	
<u>Fischer</u>		

CUSTOMER AGREES to pay (the "Company") on a net 45 day basis from date of invoice to avoid loss of discount. Invoices older than 45 days are subject to loss of discount on ticket. If Customer disputes any item invoiced, Customer shall, within 20 days after receipt, notify the Company of the item(s) disputed, specifying the reason(s) therefor; payment of the disputed item(s) may be withheld until settlement of dispute, but payment of undisputed portion of invoice shall be made without delay. All payments shall be made at the address shown on the reverse side of this document. In the absence of a separate written contract, CUSTOMER REPRESENTATIVE REPRESENTS AND WARRANTS THAT HE/SHE IS AUTHORIZED TO ENTER INTO THIS AGREEMENT ON BEHALF OF CUSTOMER AND ACCEPTS ALL TERMS AND CONDITIONS AS PRINTED ON THE REVERSE SIDE OF THIS DOCUMENT (WHICH INCLUDES INDEMNITY LANGUAGE THAT ALLOCATES RISKS RELATED TO THE ABOVE DESCRIBED SERVICES). Pricing and extensions, if shown above, are subject to verification and correction at time of invoicing.

X Don Gottschalk

X [Signature]
 CUSTOMER REPRESENTATIVE

White - Main Canary - Customer Pink - Field

Pro-Stim Chemicals LLC

Date 1-25-23

Acidizing Report

Customer <u>Grand Mesa</u>		Pro-Stim Chemical Yard <u>Cunningham</u>		Pro-Stim Number <u>A-21</u>	
Well Name & Number <u>Maloney</u>			Formation		
County <u>Kingman</u>		State <u>Ks</u>		Interval	
Well Type:	Completion <input type="checkbox"/>	Recompletion <input type="checkbox"/>	Workover <input checked="" type="checkbox"/>	Oil <input type="checkbox"/>	Gas <input type="checkbox"/>
	Water <input type="checkbox"/>	Disposal <input type="checkbox"/>	Perf <input type="checkbox"/>	OH <input type="checkbox"/>	
Job Pumped Via:	Tubing <input checked="" type="checkbox"/>	Casing <input type="checkbox"/>	Annulus <input type="checkbox"/>	CTU <input type="checkbox"/>	Combination <input type="checkbox"/>
Casing Size: GRD WT Depth				Tubing Size: Spot	
Casing Vol.		Tbg Vol	Ann Vol	OH Vol	Total Displacement

*500 7.5% mca
Egals RAS-10
40 bbls 2% KCL Biocide*

Customer Representative Signature _____

Treatment Record

Time	Type Fluid	Rate BPM	Increment Vol Bbls	Cum Vol Bbls	Pressure		Observations
					Tubing	Casing	
	Acid	3.0		3.0			Safety Meeting
	Flush	1.5		12.0			Roll acid to bottom to spot
		.3		14.0	300		pressure / break
		.5		20.0	300		
		1.0		22.0	500		
		1.5		24.0	450		
		1.5		26.0	450		
		1.5		28.0	400		
		—		31.0	400		Tubing flushed, ISIP 400

Treatment Synopsis

Avg Inj Rate	Fluid BPM <u>1.5</u>	Total Injected		H2O <u>19</u>	Acid <u>12</u>	Oil
Treating Prs	Max <u>500</u>	Final <u>400</u>	Avg <u>450</u>	ISIP <u>400</u>	5'SI <u>NAC</u>	10'SI
AR-CU					20	25
						15'SI
						30



Pro-Stim Chemicals, LLC

P.O. Box 430
Cheney KS, 67025

Invoice

Date	Invoice #
1/31/2023	232937

Bill To
Grand Mesa Operating Co. 1700 N. Waterfront Pkwy - Bldg 600 Wichita, KS 67206-6614

Ship To

Unit #	Requested By	Terms	Service Date	Lease
A-25	JIM	Net 30	1/27/2023	
Quantity	Item Code	Description	Price Each	Amount
		LEASE: MALONEY		
30	KCL - 2%	BRLS - BIOCID / SCALE INHIBITOR	3.82	
4	TRUCK TIME	HOURS	125.00	
40	ACID TRUCK FUEL SURCHAR...	PER MILE	0.50	
		KILLED WELL		
		Sales Tax - KINGMAN CO.	8.00%	
		Thank You!	Total	

A Finance Charge will be incurred on all past due balances at a rate of 2% monthly or an annual rate of 24%. In the event of non-payment, customer will pay all costs of collection, including reasonable attorney fees.

Phone #	E-mail
308.334.5181	prostim@hotmail.com