KOLAR Document ID: 1566342

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 # 31385
Name: M G Oil Inc
Address 1: PO BOX 162
Address 2:
City: RUSSELL State: KS Zip: 67665 + 0162
Contact Person: Curtis Counts
Phone: (785) 483-1627
CONTRACTOR: License # 35410
Name: STP Drilling LLC
Wellsite Geologist: Chad Counts
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 #:

3/21/2021	3/26/2021	3/26/2021
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No.: 15-065-24189-00-00
Spot Description:
SE - SW - NE - NW Sec. 29 Twp. 6 S. R. 25 ☐ East ☑ West
1140 Feet from ☑ North / ☐ South Line of Section
1732 Feet from ☐ East / ☑ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☐ NE ☑ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Graham
Lease Name: JEFFERY Well #: 2
Field Name:
Producing Formation: N/A
Elevation: Ground: 2593 Kelly Bushing: 2600
Total Vertical Depth: 3930 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 350 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: 21000 ppm Fluid volume: 650 bbls
Dewatering method used: Evaporated
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: 03/30/2021
☐ **Confidential Release Date:** 03/30/2023
☑ **Wireline Log Received** ☑ **Drill Stem Tests Received**
☑ **Geologist Report / Mud Logs Received**
☐ **UIC Distribution**
ALT ☐ I ☑ II ☐ III **Approved by:** Karen Ritter **Date:** 03/31/2021

Operator Name: M G Oil Inc Lease Name: JEFFERY Well #: 2

Sec. 29 Twp. 6 S. R. 25 ☐ East ☑ West County: Graham

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

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

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

List All E. Logs Run:
Attached

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

Name	Top	Datum
Anhydrite	2184	416
Topeka	3455	-855
Heebner	3656	-1056
Lansing	3695	-1095
BKC	3886	-1286

CASING RECORD ☑ New ☐ Used
Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	342	common	225	3%cc 2% gel

ADDITIONAL CEMENTING / SQUEEZE RECORD

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

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

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

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

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

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

TUBING RECORD: Size: Set At: Packer At:

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

Form	ACO1 - Well Completion
Operator	M G Oil Inc
Well Name	JEFFERY 2
Doc ID	1566342

All Electric Logs Run

MICRO
DIL
CDN
SONIC

Form	ACO1 - Well Completion
Operator	M G Oil Inc
Well Name	JEFFERY 2
Doc ID	1566342

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	342	common	225	3%cc 2% gel

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. 2208

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3/27/2021	29	6	25	Graham	Kansas		11:15a

Location Studley 10N 2Rd 1E 1N ½E S.in

Lease Jeffery | Well No. 2 | Owner

Contractor S.T.P. | 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 Plug

Hole Size 7 7/8 | T.D. 3932.'

Csg. Drill pipe | Depth 2200 | Charge To M G O.'l

Tbg. Size | Depth | Street

Tool | Depth | City State

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

Cement Left in Csg. | Shoe Joint | Cement Amount Ordered 240 60/40 4% gel ¼ # F.

Meas Line | Displace

EQUIPMENT

Pumptrk 20	No.	Cementer Helper	Tom
Bulktrk 14	No.	Driver Driver	Doug
Bulktrk PU.	No.	Driver Driver	David

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

2200' - mixed 50 sks

1400' - Mixed 100 sks

400' - mixed 50 sks

40' - 10 sks

Rathole - 30 sks

Cement Did Circulate

Joyce

X Signature

Common	144
Poz. Mix	96
Gel.	9
Calcium	
Hulls	
Salt	
Flowseal	60 ft
Kol-Seal	
Mud CLR 48	
CFL-117 or CD110 CAF 38	
Sand	
Handling	249
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
	1 - Dryhole Plug
Pumptrk Charge	Plug
Mileage	30
Tax	
Discount	
Total Charge	

Thanks

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071 Home Office P.O. Box 32 Russell, KS 67665 No. 2189

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3-21-21	29	6	25	Graham	KS		2:45

Location SE/4 10N 22W 1E 1/2N 1/2E

Lease Jeffery Well No. 2 Owner Same

Contractor STP To Quality Oilwell Cementing, Inc.
You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Type Job Surface

Hole Size 12¼ T.D. 350

Csg. 8⅝ Depth 350

Tbg. Size Depth

Tool Depth

Cement Left in Csg. 15 Shoe Joint

Meas Line Displace 21 BBL

Charge To MEC Oil

Street

City State

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

Cement Amount Ordered 225 60/40 3%cc 2%gel

EQUIPMENT

Pumptrk 20	No.	Cementer	Kent
		Helper	
Bulktrk	No.	Driver	Dave
		Driver	
Bulktrk 15	No.	Driver	Tony
		Driver	

JOB SERVICES & REMARKS

Remarks:

Rat Hole

Mouse Hole

Centralizers

Baskets

D/V or Port Collar

8⅝ on bottom Rig Circulate Mix 225 SK Cement Circulate

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

FLOAT EQUIPMENT

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

X Signature Tony

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

Well Name:	Jeffery 2		
Well Id:	15-065-24189		
Location:	SE SW NE NW Sec 29, T6S, R25W		
License Number:	31385	**Region:**	
Spud Date:	3/21/2021	**Drilling Completed:**	3/26/21
Surface Coordinates:	39.505838 -100.137623 (NAD 27)		
Bottom Hole Coordinates:			
Ground Elevation (ft):	2593'	**K.B. Elevation (ft):**	2600'
Logged Interval (ft):	3400 **To:** 3930	**Total Depth (ft):**	3930
Formation:	LKC		
Type of Drilling Fluid:	Chemical based mud		

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

OPERATOR

Company: MG Oil Inc.
Address: P.O. Box 162
Russell, Ks 67665

GEOLOGIST

Name: Chad Counts
Company: MG Oil Inc.
Address: 1256 W. Wichita Ave
Russell, Ks 67665

Comments

The Jeffery 2 was drilled with STP Drilling tools beginning 3-21-2021, and ending 3-26-2021.

Structurally, the well was positioned very close to seismic interpretation. However, all intervals of interest lacked

Owing to the the lack of reservoir development, poor drill stem test recoveries, and sample shows; it was therefore agreed by all parties to plug and abandon the Jeffery #2.

Respectfully,

Chad Counts

GENERAL INFORMATION:

Formation: **Lansing D - KC F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:39:39
Time Test Ended: 12:52:09

Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 73

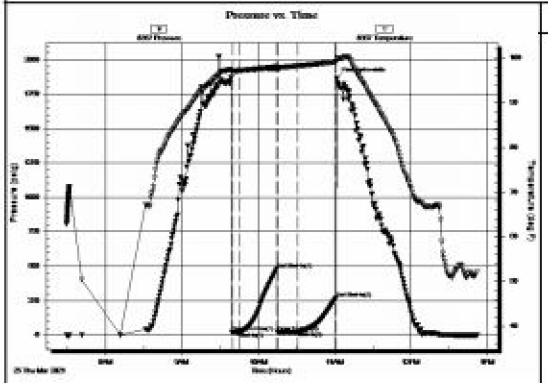
Interval: 3730.00 ft (KB) To 3770.00 ft (KB) (TVD)
Total Depth: 3770.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2600.00 ft (KB)
2594.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8367 **Outside**
Press@RunDepth: 24.59 psig @ 3731.00 ft (KB)
Start Date: 2021.03.25 End Date: 2021.03.25
Start Time: 07:29:19 End Time: 12:52:09

Capacity: 8000.00 psig
Last Calib.: 2021.03.25
Time On Btm: 2021.03.25 @ 09:38:24
Time Off Btm: 2021.03.25 @ 11:01:39

TEST COMMENT: IF: Weak Blow . Built to 1/4".
ISI: No Blow .
FF: Weak Surface Blow . Died.
FSI: No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1870.12	97.44	Initial Hydro-static
2	21.05	97.10	Open To Flow (1)
7	21.52	97.23	Shut-In(1)
36	481.58	98.08	End Shut-In(1)
37	22.38	97.81	Open To Flow (2)
53	24.59	98.27	Shut-In(2)
83	269.65	99.16	End Shut-In(2)
84	1865.58	99.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	DM 100%m	0.02

Gas Rates

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

GENERAL INFORMATION:

Formation: **KC "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:45:24
Time Test Ended: 03:53:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 73

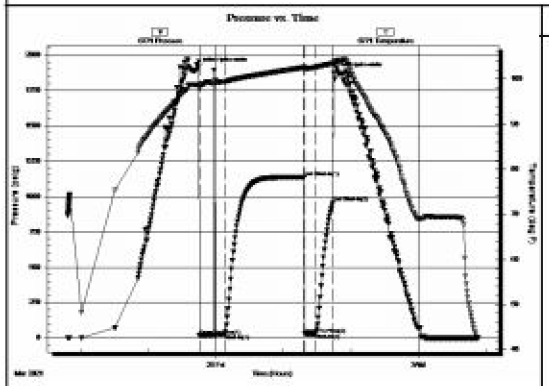
Interval: 3817.00 ft (KB) To 3848.00 ft (KB) (TVD)
Total Depth: 33848.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2600.00 ft (KB)
2594.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6771 **Inside**
Press@RunDepth: 30.77 psig @ 3818.00 ft (KB)
Start Date: 2021.03.25 End Date: 2021.03.26
Start Time: 21:48:34 End Time: 03:53:39

Capacity: 8000.00 psig
Last Calib.: 2021.03.26
Time On Btm: 2021.03.25 @ 23:44:09
Time Off Btm: 2021.03.26 @ 01:44:54

TEST COMMENT: IF: No Blow . Flushed Tool after 14 mins. No Blow . Shut in after 9 mins.
ISI: No Blow .
FF: No Blow .
FSI: No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.08	98.74	Initial Hydro-static
2	19.00	97.82	Open To Flow (1)
24	27.09	99.46	Shut-In(1)
95	1136.29	102.57	End Shut-In(1)
95	29.55	102.38	Open To Flow (2)
105	30.77	102.61	Shut-In(2)
120	955.91	103.42	End Shut-In(2)
121	1873.34	103.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 1%o 99%m	0.04

* Recovery from multiple tests

Gas Rates

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

GENERAL INFORMATION:

Formation: **Lansing C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:50:28
Time Test Ended: 04:14:58

Test Type: Conventional Straddle (Reset)
Tester: Matt Smith
Unit No: 73

Interval: 3697.00 ft (KB) To 3740.00 ft (KB) (TVD)
Total Depth: 3932.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

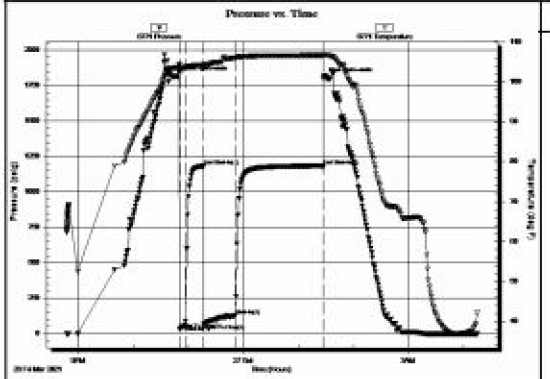
Reference Elevations: 2600.00 ft (KB)
2594.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6771 **Inside**
Press@RunDepth: 128.00 psig @ 3701.00 ft (KB)

Capacity: 8000.00 psig

Start Time: 20:47:08 End Time: 04:14:58 Time On Btm: 2021.03.26 @ 22:48:43 Time Off Btm: 2021.03.27 @ 01:27:28

TEST COMMENT: IF: Weak Blow . Built to 3 1/2". Straddle packer failed
ISI: No Blow .
FF: Fair Blow . Built to 8 1/2".
FSI: No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.83	103.59	Initial Hydro-static
2	32.94	102.85	Open To Flow (1)
8	58.92	103.83	Shut-In(1)
28	1183.39	104.25	End Shut-In(1)
28	66.36	103.86	Open To Flow (2)
63	128.00	105.98	Shut-In(2)
158	1184.21	106.63	End Shut-In(2)
159	1803.15	106.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
157.00	OSM 100%m	1.42
31.00	GOSM 5%g 95%m	0.43

* Recovery from multiple tests

Gas Rates

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

ROCK TYPES

Anhy
Bent
Brec
Cht
Clyst
Coal
Oolitic limestone
Congl
Dol
Gyp
Igne
Dark grey shale
Black shale
Lmst
Meta
Mrlst
Salt
New symbol
Shale
Shcol
Shgy
Sltst
Ss
Till

ACCESSORIES

MINERAL

Anhy
Arggrn
Arg
Bent
Bit
Brecfrag
Calc
Carb
Gyp
Hvymin
Kaol
Marl
Minxl
Nodule
Phos
Pyr
Salt

FOSSIL

Algae
Amph
Belm
Bioclst
Brach
Bryozoa
Cephal
Coral
Ostra
Pelec
Pellet
Pisolite
Plant
Strom

STRINGER

Anhy
Sltstrg
Ssstrg

TEXTURE

Boundst
Chalky
Cryxln
Earthy
Finexln

Chtlt
Dol
Feldspar
Ferrpel
Ferr
Glau
Silt
Sil
Sulphur
Tuff
Echin
Fish
Foram
Fossil
Gastro
Oolite
Bent
Coal
Dol
Gyp
Ls
Mrst
Lithogr
Microxln
Mudst
Packst
Wackest

OTHER SYMBOLS

POROSITY
Earthy
Fenest
Fracture
Inter
Moldic
Organic
Pinpoint
Vuggy

SORTING
Well
Moderate
Poor

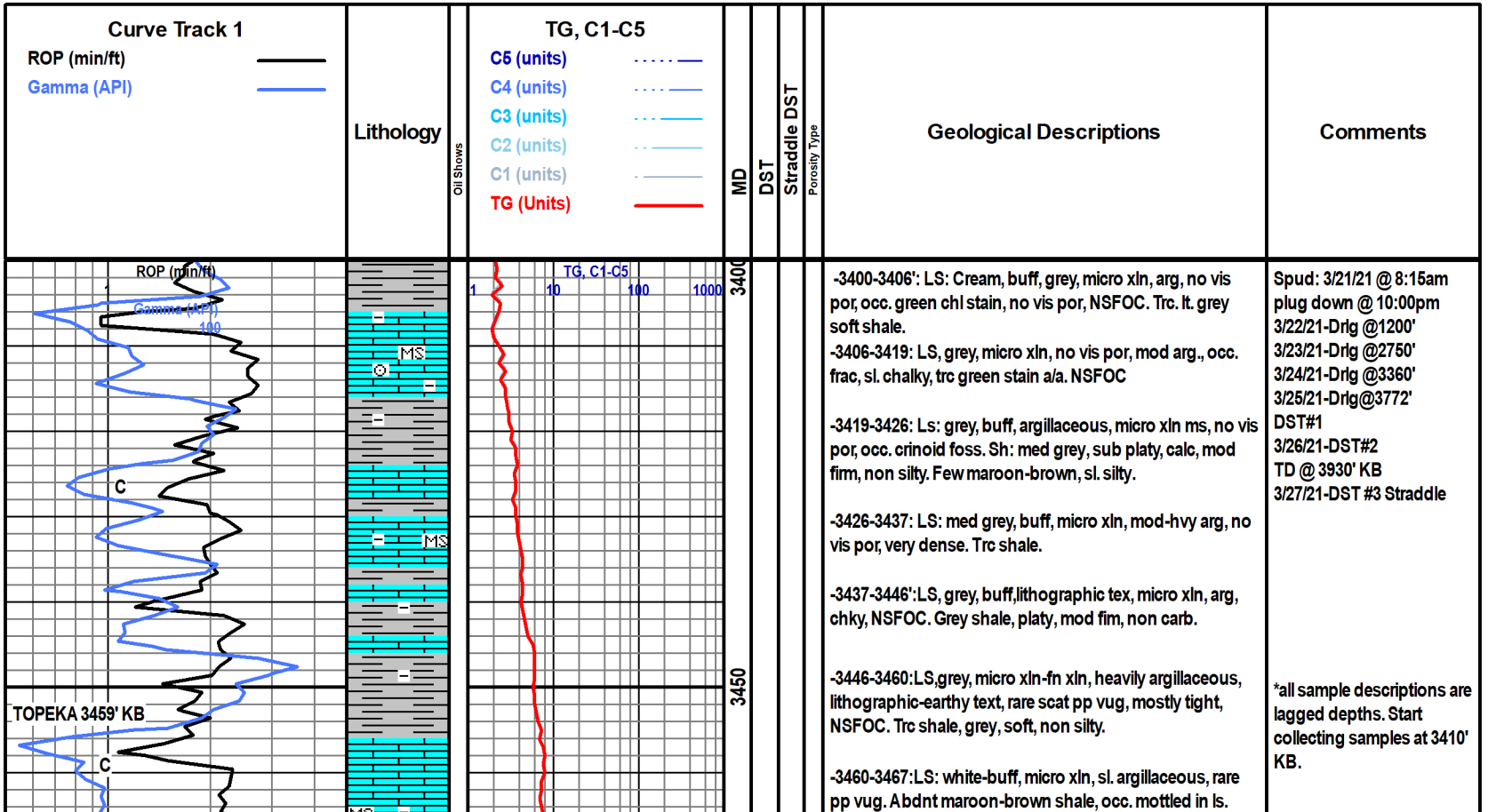
ROUNDING
Rounded
Subrnd
Subang
Angular

OIL SHOW
Even

Spotted
Ques
Dead

INTERVAL
Core
Dst

EVENT
Rft
Sidewall



-3400-3406': LS: Cream, buff, grey, micro xln, arg, no vis por, occ. green chl stain, no vis por, NSFOC. Trc. lt. grey soft shale.
-3406-3419: LS, grey, micro xln, no vis por, mod arg., occ. frac, sl. chalky, trc green stain a/a. NSFOC

-3419-3426: Ls: grey, buff, argillaceous, micro xln ms, no vis por, occ. crinoid foss. Sh: med grey, sub platy, calc, mod firm, non silty. Few maroon-brown, sl. silty.

-3426-3437: LS: med grey, buff, micro xln, mod-hvy arg, no vis por, very dense. Trc shale.

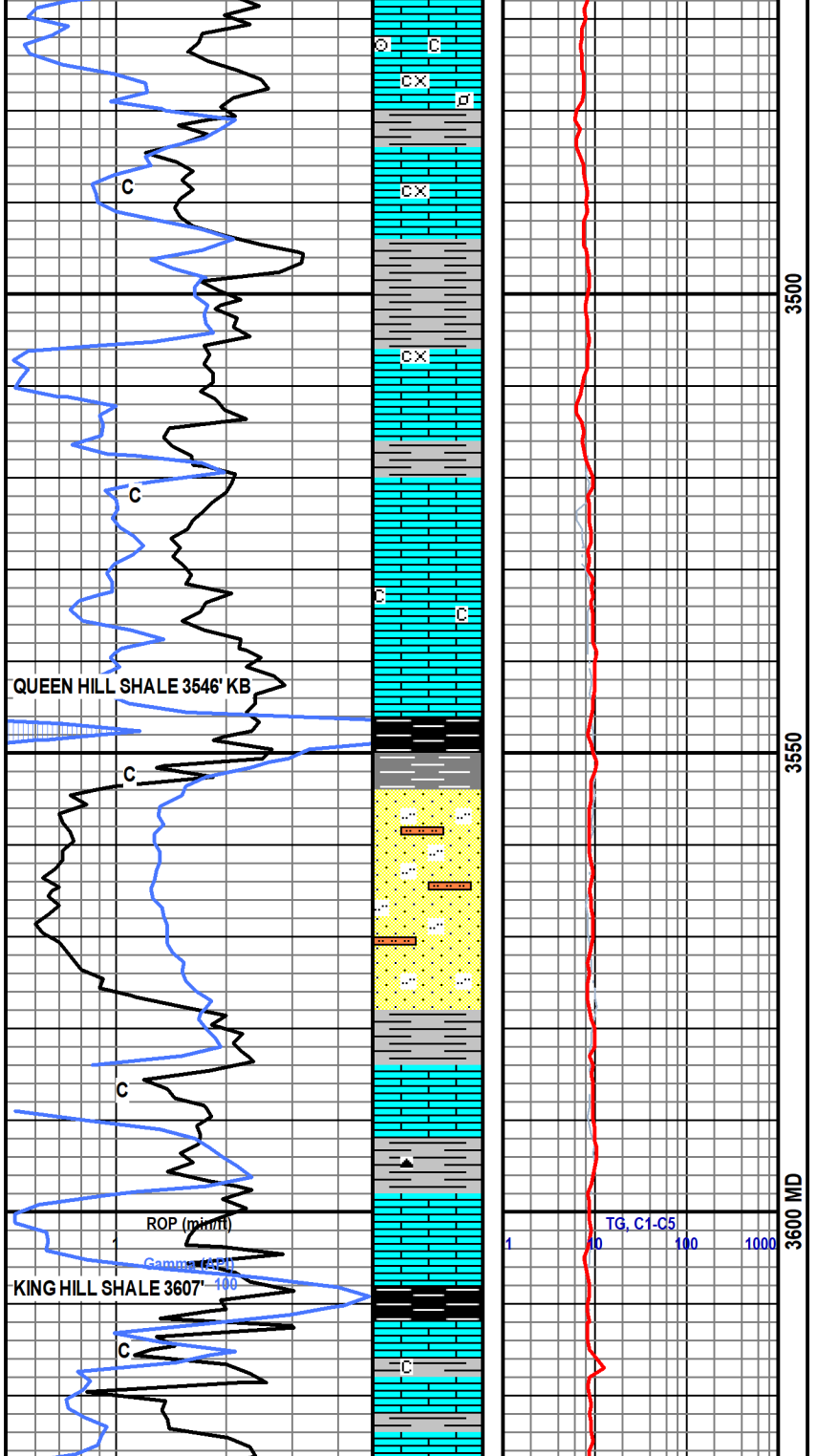
-3437-3446':LS, grey, buff,lithographic tex, micro xln, arg, chky, NSFOC. Grey shale, platy, mod fim, non carb.

-3446-3460:LS,grey, micro xln-fn xln, heavily argillaceous, lithographic-earthy text, rare scat pp vug, mostly tight, NSFOC. Trc shale, grey, soft, non silty.

-3460-3467:LS: white-buff, micro xln, sl. argillaceous, rare pp vug. Abdnt maroon-brown shale, occ. mottled in ls.

Spud: 3/21/21 @ 8:15am
plug down @ 10:00pm
3/22/21-Drlg @1200'
3/23/21-Drlg @2750'
3/24/21-Drlg @3360'
3/25/21-Drlg@3772'
DST#1
3/26/21-DST#2
TD @ 3930' KB
3/27/21-DST #3 Straddle

*all sample descriptions are lagged depths. Start collecting samples at 3410' KB.



-3467-3475'-LS, white-cream, lt grey, micro xln, occ. motld, very chalky, sl.arg, rare pp. vugs, NSFOC.

-3476-3488'-LS,white, cream, f. xln, occ. occ. sparry calc, fair inxl por, sl. chalky, occ. fossil frag, NSFOC. Trace grey shale, subplaty, mod soft, non silty.

-3488-3496'-LS, white-crm, vf xln, suggary/sparry texture,rr pp vug, pr-fair inxl por. Significant chalk increase. Trc light grey soft shale and med grey subplaty shale.

-3496-3504'LS: a/a. Grey shale, sub platy, calc, sl. silty, mod firm

-3504'-3515'-LS, cream-buff, fn xln, occ. sparry calcite, chalky, poor-fair inxl por, NSFOC. Grey-dk grey platy shale, very firm, calc.

-3515-3522'-LS, buff, fin xln, suggary tex, sparry, fair inxln por, occ. pp scat vug,sl. chalky, NSFOC.

-3522-3538'-LS, white, cram buff, micro xln-vf xln, poor inxl por, scattered poor pp vuggy por, sl. chalky, NSFOC.

-3538-3544-LS:A/A, sl more argillaceous, chaly. NSFOC. Trc, med grey-dk grey shale, mod carb, sl. calc.

-3544-3550'-Black shale: very platy, blady, carbonaceous, very firm, brittle, mod calc.

-3550-3553'-A/A

-3553-3576'-brown-maroon sany shale-shaly sand, vfg-siltstone, clay filled por, poor-mod cons, no vis ingl por, mod soft, heavily argillaceous.

-3576-3582'-Maroon shale, sl. silty-non silty, blocky, firm-soft, non calc. 5% teal shale, firm, blocky, non calc.

-3582-3596'-Ls: white-grey, micro xln, sl argillacaous, rare pp. vugs, occ. sparry calc w/ no vis inxl por, NSFOC.

-3596-3605':LS, white, v. lt grey, micro xln, 25% arg., poor inxl por, occ. fos frag, NSFOC.

-3605-3615-Med grey-dk grey shale, sub platy, mod carb, sl. calc. LS: cream-buff, micr xln, sl. arg, no vis por, abdnt fossil frag, NSFOC.

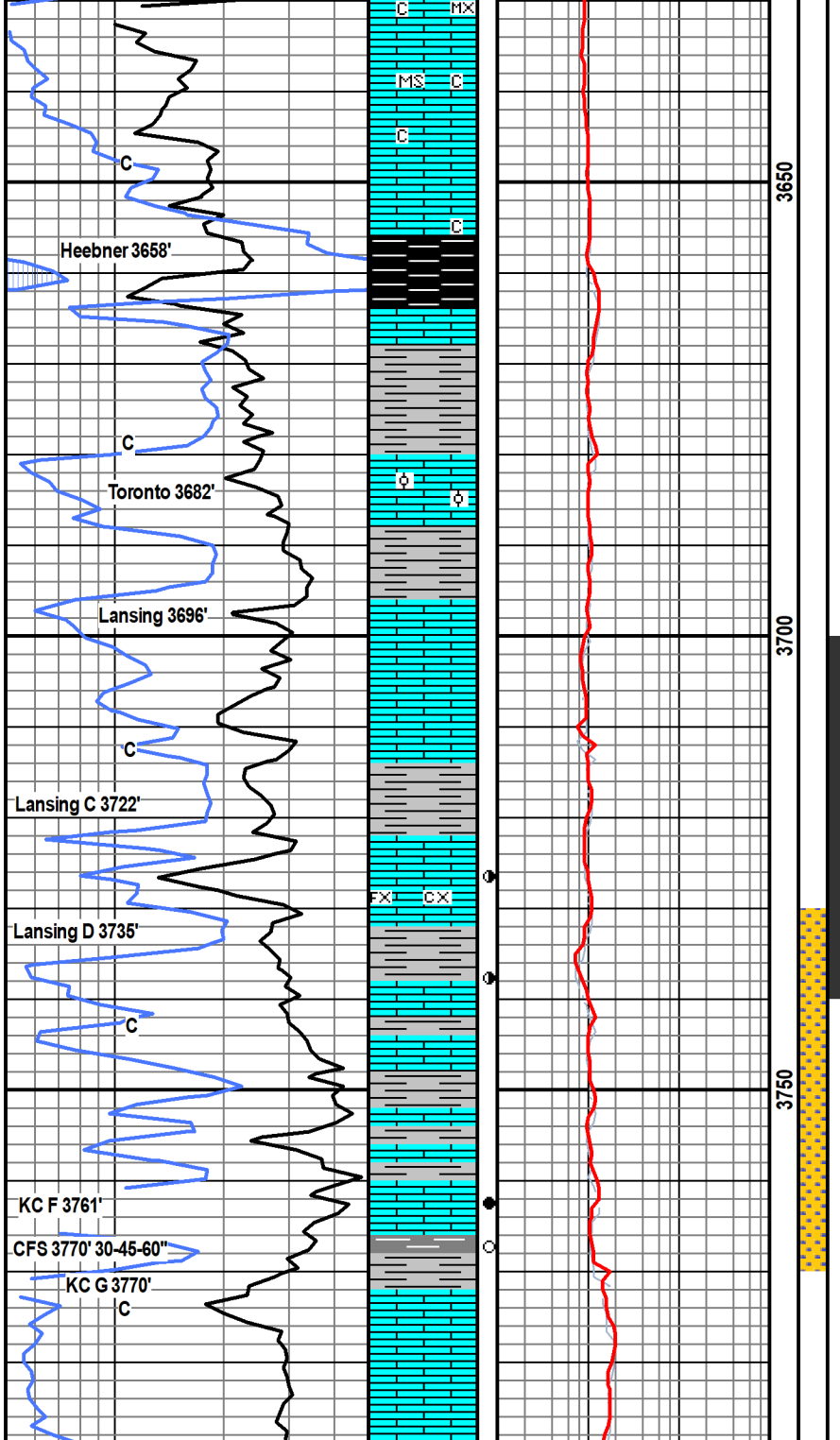
-3615-3623-Grey-buff, micro xln, occ. oolitic,castic por, poor-fair ingl por, barren, no vis stain, cut, or odor.

-3623-3633'-Ls: grey, buff, micro xln, very chalky, no vis por,

*all data has been shifted up 2-3' to match wireline logs.

MW 8.8
VIS 57
LCM 4#

MW 9.2
VIS 57
LCM 4#



-3633-3647'-LS: grey, micro xln-fn xln, occ. scattered vugs in dense ls, no vis matrix por, chalky, NSFOC.

-3647-3655'-LS: cream-med grey, mod arg, scattered rare pp vugs, mod chalky, NSFOC.

-3655-3666-Flood black shale,very platy, firm, many pyrite flakes, sl. calcareous, very carbonaceous. LS: a/a, few sl. more brwn color.

-3666-3681'-Shale-dove grey, very soft, gummy, non calc. LS: White, micro xln, very dense, no vis por NSOC.

MW 9.1
VIS 50

-3681-3692': Ls: cream-white, oolitic packstone with no dissolution, micro xln matrix, no vis por, occ. pp vug. No show, stain or odor.

DST #3 (Straddle)
Lansing C
3697-3740'
IFP:33-59psi
ISIP:1183psi
FFP:66-128psi
FSIP:1184
Recovered 157' OSM
31' GOSM (5% Gas)

-3692-3700'-Ls: cream, white, micro xln, no vis por, sl. arg, sl chalky, occ. crinoids, NSFOC. Shale, med grey, soft, smooth.

-3700-3714'-LS:buff, micro xln, very dense, no vis por, occ. scat fossil fragment, occ. pyrite inclusions, NSFOC.

-3714-3719'-Grey-maroon shale. LS a/a. Few cuttings wacke-packstone, no vis por, very dense, NSFOC.

-3719-3728'-C porosity: 6 cuttings, fn xln, sparry calcite, poor- fair inxl por, very scattered oil staining, one cutting w/sfo and scattered stain, no odor. 2-3 cuttings barren.

MW 9.1
VIS 51

DST#1 LKC D-F
3732-3772'
IFP:21-22psi
ISIP:482psi
FFP22-25psi
FSIP:269psi
Recovered 2'M

-3728-3742' D porosity- svrl scattered vuggy porosity in white dense ls matrix, apparent limited connectivity from cuttings. fair show, dk oil stain lining vugs,few gas bub, fsfo, few oil droplets in tray. Questionable faint odor.

-3742-3752'-ls, buff, cream grey, micro xln, occ fossil fragment, very dense, NSFOC.

-3762-3763-Beige, green, mottled red ls, occ ooltitic, w/clay and calcite cement, no vis por, very dense, occ. fossil fragments. Maroon-purple shale, soft, non platy. No show, or odor.

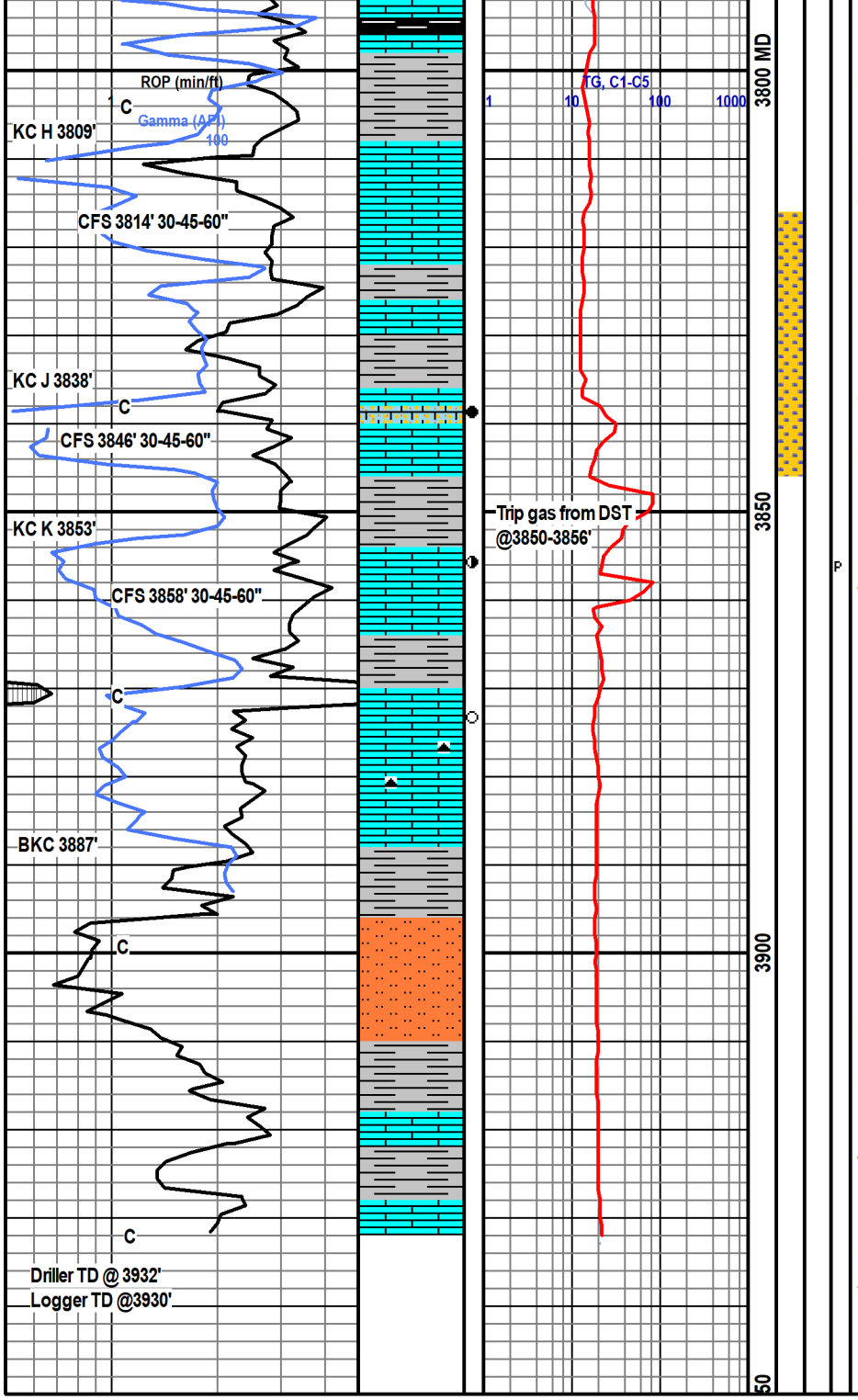
MW 9.4
VIS 54

-3763-3772'-F Porosity-white, micro-fine xln matrix, poor-fair secondary inxl vuggy por, fair-gsfo, good scat sat, fair stain, good oil odor.

-3772-3780'-Ls, br. white, micro xln, no vis por, very dense, non arg, NSFOC. Abdnt red, grey shale.

MW 9.3
VIS 50

-3780-3790- LS-white, very dense, occ. chert, micro xln, no



-3790-3800-Ls-beige, brown, argillaceous, fossiliferosus, no vis por, very dense. Various shale, grey green, maroons, subplaty-soft. Trc. dk grey-black shale.

-3800-3806-Grey-green shale, subplaty-non platy, soft, sl silty, non calc.

-3806-3816' H break-white, fine xln, brittle, very chalky, no visible porosity, no stain, sat, or odor.

MW 9.2
VIS 50
3# LCM

DST #2 LKC J
3816'-3846'
IFP:19-27psi
ISIP:1136psi
FFP:30-31psi
FSIP:956psi
Recovered 5' VSOCM

-3816-3820-LS:wh-cream, fn-micro xln, very dense, no stain or odor.
-3820-30-Ls cream, white, fn xln, chalky, no vis por, NSFOC. Shales med grey, green brown, subplaty-blocky.

-3830-3845- J reservoir-white, fine xln, oolitic, pp scattered vuggy disolution, few easily crushed,sl. sucrosic, chky, poor-fair oil saturation, ssfo in cup, dark even dry stain, fast streaming cut, faint-fair oil odor.

MW 9.3
VIS 57
4# LCM

-3845-3860- K reservoir: Ls, white, fine xln, very poor inxl por, occ. random pp vug, very spotty oil stain, no show free oil, no odor. Various shales. Med grey-black shale, mod firm, platy-subplaty, mod carb.

-3860-3870' LS, white, micro xln, very dense no vis por, NSFOC. KC L por, 5 cuttings Bio-packstone, very poor intra-clast por, occ rare pp. vug, very spotty oil stain, nsfo, no odor.

-3870-3878'-LS: white, buff, lithograp text, occ. mottled, micro xln, no vis por, NSOC. Maroon shale, grey shale, orange. Trc amnt of offwhite opaque chert.

MW 9.2
VIS 52
3# LCM

-3878-3885'-LS: grey, mottled, very chalky, occ. foosil frag, NSFOC. Abdnt maroon shale.
-3885-3892'Shale, maroon, green grey, soft, sl. silty.

-3892-3900'-shale a/a, trc ss, fine grain, well cons, well std, shaly, very poor por, NSOC.
-3900-3908'-Shale-Red, brown, maroon, gummy, very soft, occ. vfg ss-siltstone, mod cons, well std, clay filled por.

Mud-Co Report
MW 9.4
VIS 60
Yield 27
PH 10.5
Filtrate 5.4 ml/30min
Chloride 900ppm
LCM 3#

-3908-3915'-Various shales, red, green, maroon, brown. Ls White micro xln, chalky, arg, no vis por, NSOC.

-3915-3933-Ls, grey, off white, mottled, several shale stringers, abdnt fossil clasts, very dense, no vis por, NSOC. Abdnt shale and siltstone a/a.

DRILL STEM TEST REPORT

MG Oil Inc

P.O. Box 162
Russell, Ks. 67665

ATTN: Chad Counts

29-6s-25w Graham Co. , Ks

Jeffery #2

Job Ticket: 64511 **DST#: 1**

Test Start: 2021.03.25 @ 07:29:18

GENERAL INFORMATION:

Formation: **Lansing D - KC F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:39:39
Time Test Ended: 12:52:09

Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 73

Interval: 3730.00 ft (KB) To 3770.00 ft (KB) (TVD)
Total Depth: 3770.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

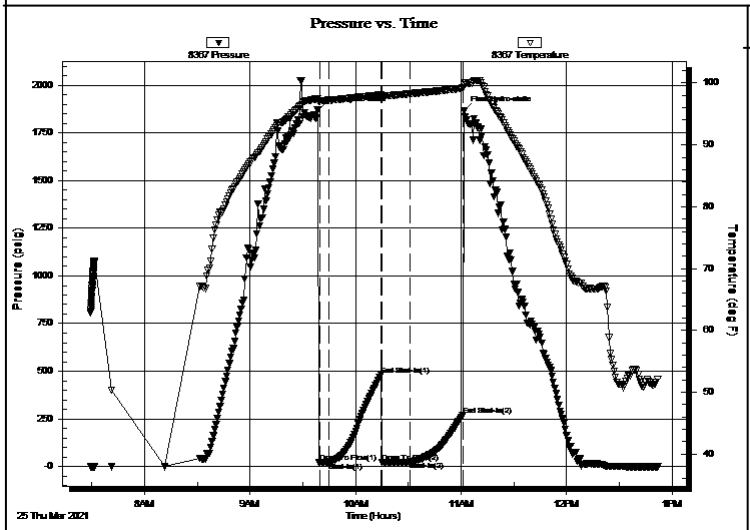
Reference Elevations: 2600.00 ft (KB)
2594.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: 24.59 psig @ 3731.00 ft (KB)
Start Date: 2021.03.25 End Date: 2021.03.25
Start Time: 07:29:19 End Time: 12:52:09

Capacity: 8000.00 psig
Last Calib.: 2021.03.25
Time On Btm: 2021.03.25 @ 09:38:24
Time Off Btm: 2021.03.25 @ 11:01:39

TEST COMMENT: IF: Weak Blow . Built to 1/4".
ISI: No Blow .
FF: Weak Surface Blow . Died.
FSI: No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1870.12	97.44	Initial Hydro-static
2	21.05	97.10	Open To Flow (1)
7	21.52	97.23	Shut-In(1)
36	481.58	98.08	End Shut-In(1)
37	22.38	97.81	Open To Flow (2)
53	24.59	98.27	Shut-In(2)
83	269.65	99.16	End Shut-In(2)
84	1865.58	99.77	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2.00	DM 100%m	0.02

Gas Rates

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

DRILL STEM TEST REPORT

MG Oil Inc

P.O. Box 162
Russell, Ks. 67665

ATTN: Chad Counts

29-6s-25w Graham Co. , Ks

Jeffery #2

Job Ticket: 64511 **DST#: 1**

Test Start: 2021.03.25 @ 07:29:18

GENERAL INFORMATION:

Formation: **Lansing D - KC F**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 09:39:39
Time Test Ended: 12:52:09

Test Type: Conventional Bottom Hole (Initial)
Tester: Matt Smith
Unit No: 73

Interval: 3730.00 ft (KB) To 3770.00 ft (KB) (TVD)
Total Depth: 3770.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

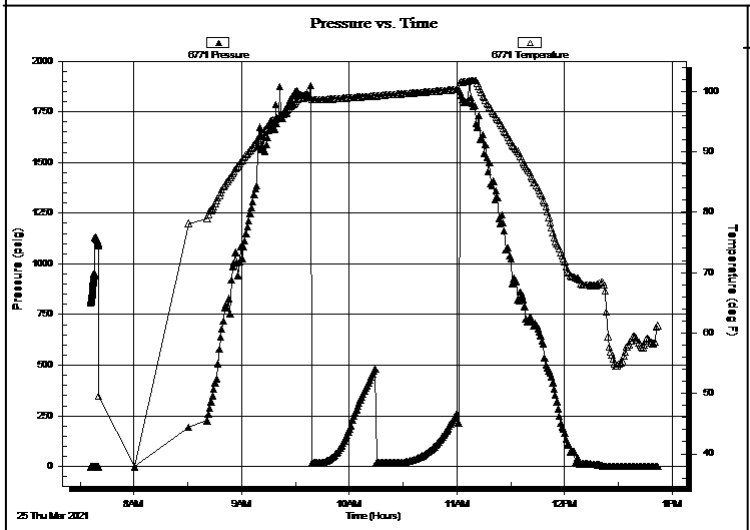
Reference Elevations: 2600.00 ft (KB)
2594.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6771 **Inside**

Press@RunDepth: psig @ 3731.00 ft (KB)
Start Date: 2021.03.25 End Date: 2021.03.25
Start Time: 07:35:49 End Time: 12:52:15

Capacity: 8000.00 psig
Last Calib.: 2021.03.25
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak Blow . Built to 1/4".
ISI: No Blow .
FF: Weak Surface Blow . Died.
FSI: No Blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
2.00	DM 100%m	0.02

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

MG Oil Inc

P.O. Box 162
Russell, Ks. 67665

ATTN: Chad Counts

29-6s-25w Graham Co. , Ks

Jeffery #2

Job Ticket: 64511 **DST#: 1**

Test Start: 2021.03.25 @ 07:29:18

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:	900 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.40 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	900.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	DM 100%m	0.015

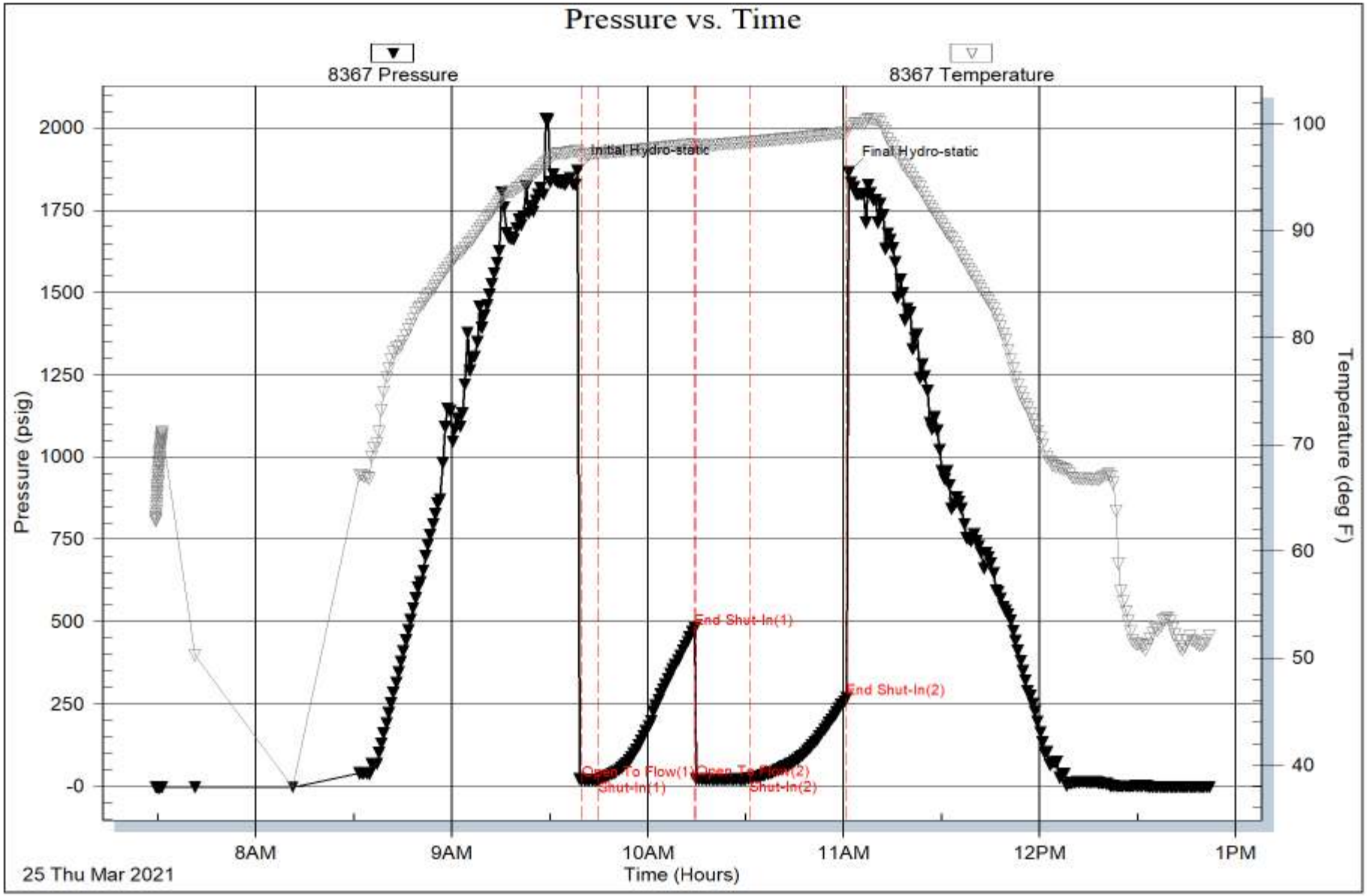
Total Length: 2.00 ft Total Volume: 0.015 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None

Laboratory Name: Laboratory Location:

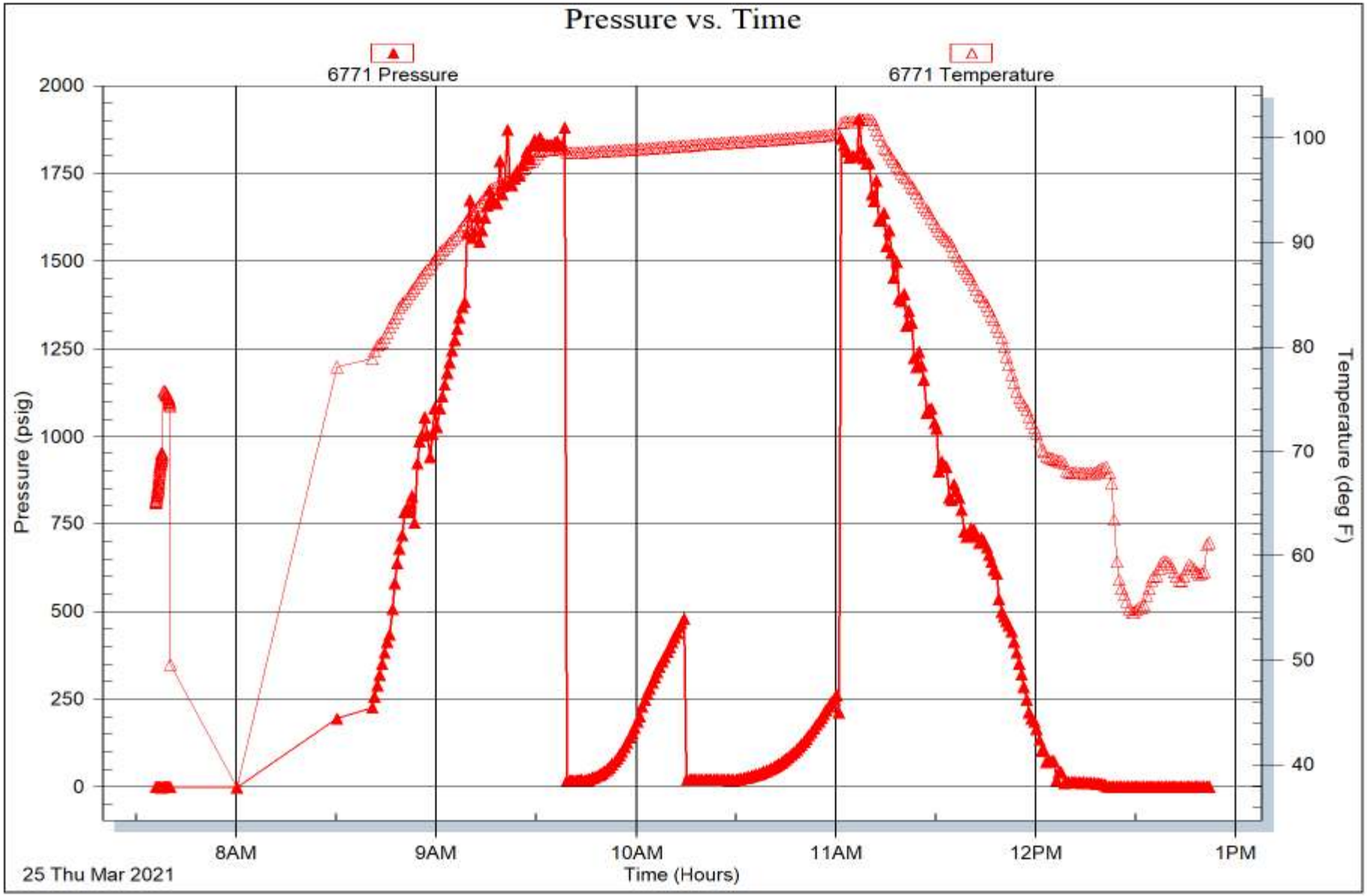
Recovery Comments:

Serial #: 8367 **Outside** MG Oil Inc Jeffery #2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 64511 Printed: 2021.03.25 @ 14:05:58

Serial #: 6771 **Inside** MG Oil Inc Jeffery #2 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 64511 Printed: 2021.03.25 @ 14:05:58

DRILL STEM TEST REPORT

MG Oil Inc

P.O. Box 162
Russell, Ks. 67665

ATTN: Chad Counts

29-6s-25w Graham Co. , Ks

Jeffery #2

Job Ticket: 64512 **DST#: 2**

Test Start: 2021.03.25 @ 21:48:33

GENERAL INFORMATION:

Formation: **KC "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:45:24
Time Test Ended: 03:53:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 73

Interval: 3817.00 ft (KB) To 3848.00 ft (KB) (TVD)
Total Depth: 33848.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

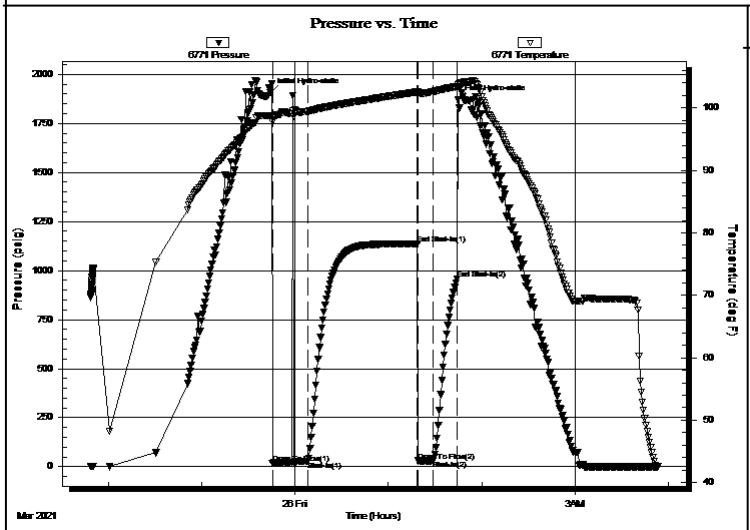
Reference Elevations: 2600.00 ft (KB)
2594.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6771 **Inside**

Press@RunDepth: 30.77 psig @ 3818.00 ft (KB)
Start Date: 2021.03.25 End Date: 2021.03.26
Start Time: 21:48:34 End Time: 03:53:39

Capacity: 8000.00 psig
Last Calib.: 2021.03.26
Time On Btm: 2021.03.25 @ 23:44:09
Time Off Btm: 2021.03.26 @ 01:44:54

TEST COMMENT: IF: No Blow . Flushed Tool after 14 mins. No Blow . Shut in after 9 mins.
ISI: No Blow .
FF: No Blow .
FSI: No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1908.08	98.74	Initial Hydro-static
2	19.00	97.82	Open To Flow (1)
24	27.09	99.46	Shut-In(1)
95	1136.29	102.57	End Shut-In(1)
95	29.55	102.38	Open To Flow (2)
105	30.77	102.61	Shut-In(2)
120	955.91	103.42	End Shut-In(2)
121	1873.34	103.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 1%o 99%m	0.04

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

MG Oil Inc

P.O. Box 162
Russell, Ks. 67665

ATTN: Chad Counts

29-6s-25w Graham Co. , Ks

Jeffery #2

Job Ticket: 64512 **DST#: 2**

Test Start: 2021.03.25 @ 21:48:33

GENERAL INFORMATION:

Formation: **KC "J"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 23:45:24
Time Test Ended: 03:53:39

Test Type: Conventional Bottom Hole (Reset)
Tester: Matt Smith
Unit No: 73

Interval: 3817.00 ft (KB) To 3848.00 ft (KB) (TVD)
Total Depth: 33848.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

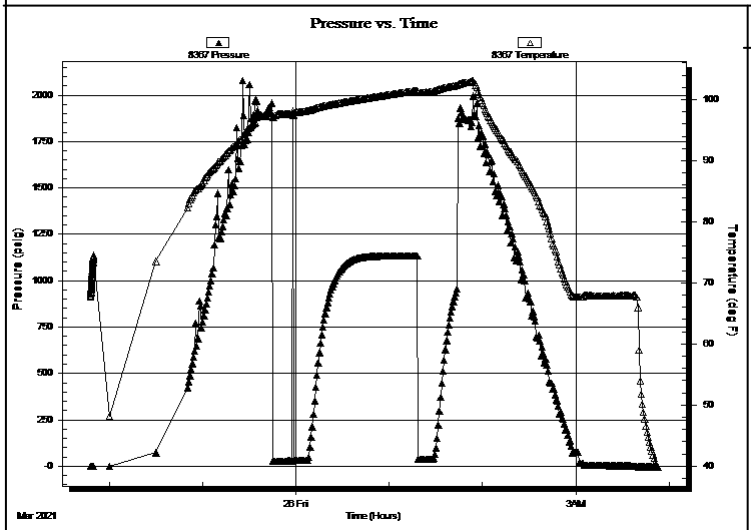
Reference Elevations: 2600.00 ft (KB)
2594.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: psig @ 3818.00 ft (KB)
Start Date: 2021.03.25 End Date: 2021.03.26
Start Time: 21:48:04 End Time: 03:53:09

Capacity: 8000.00 psig
Last Calib.: 2021.03.26
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: No Blow . Flushed Tool after 14 mins. No Blow . Shut in after 9 mins.
ISI: No Blow .
FF: No Blow .
FSI: No Blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	VSOCM 1%o 99%m	0.04

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

MG Oil Inc

P.O. Box 162
Russell, Ks. 67665

ATTN: Chad Counts

29-6s-25w Graham Co. , Ks

Jeffery #2

Job Ticket: 64512 **DST#: 2**

Test Start: 2021.03.25 @ 21:48:33

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:	900 ppm
Viscosity:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	900.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	VSOCM 1%o 99%m	0.038

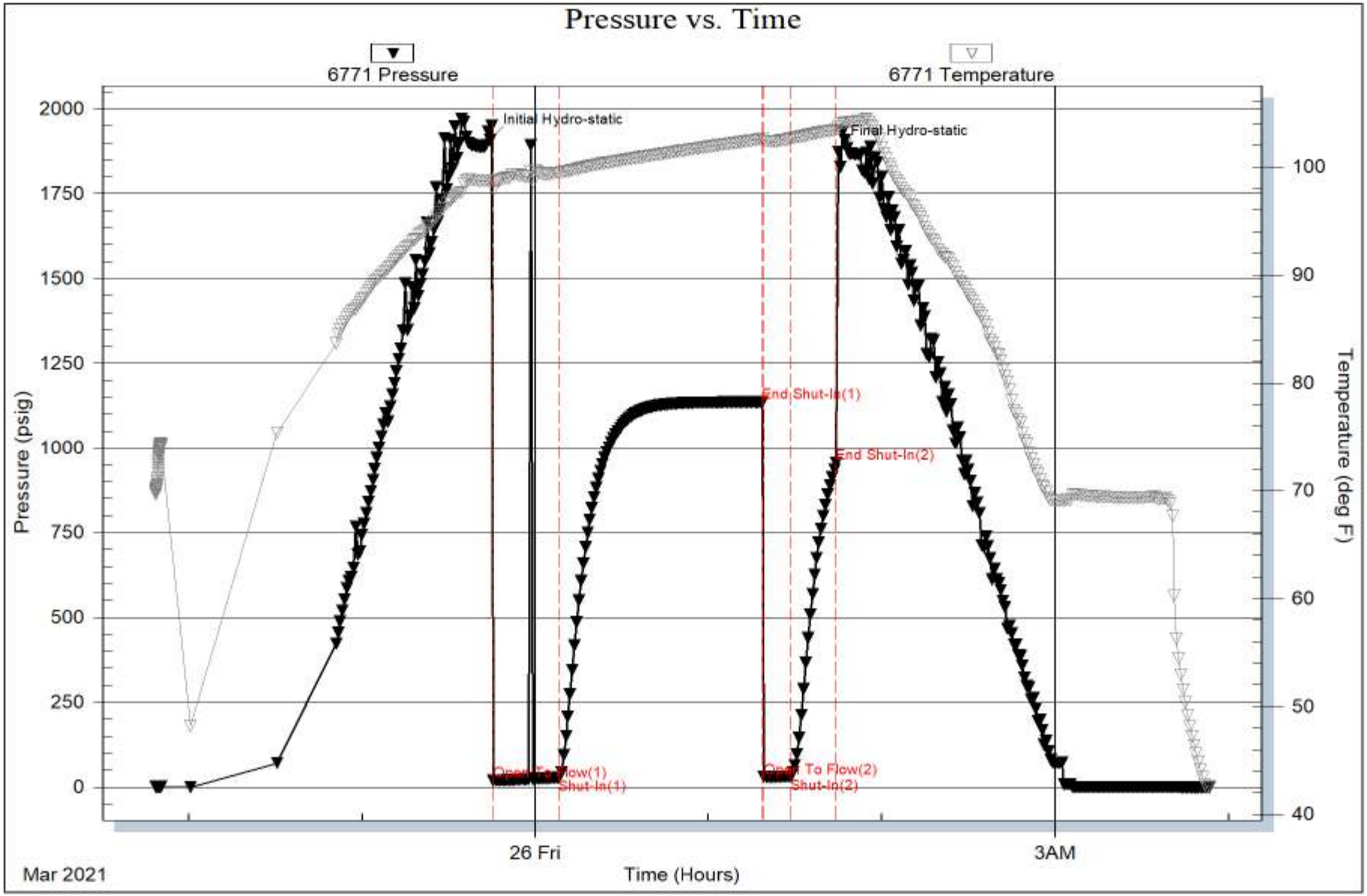
Total Length: 5.00 ft Total Volume: 0.038 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None

Laboratory Name: Laboratory Location:

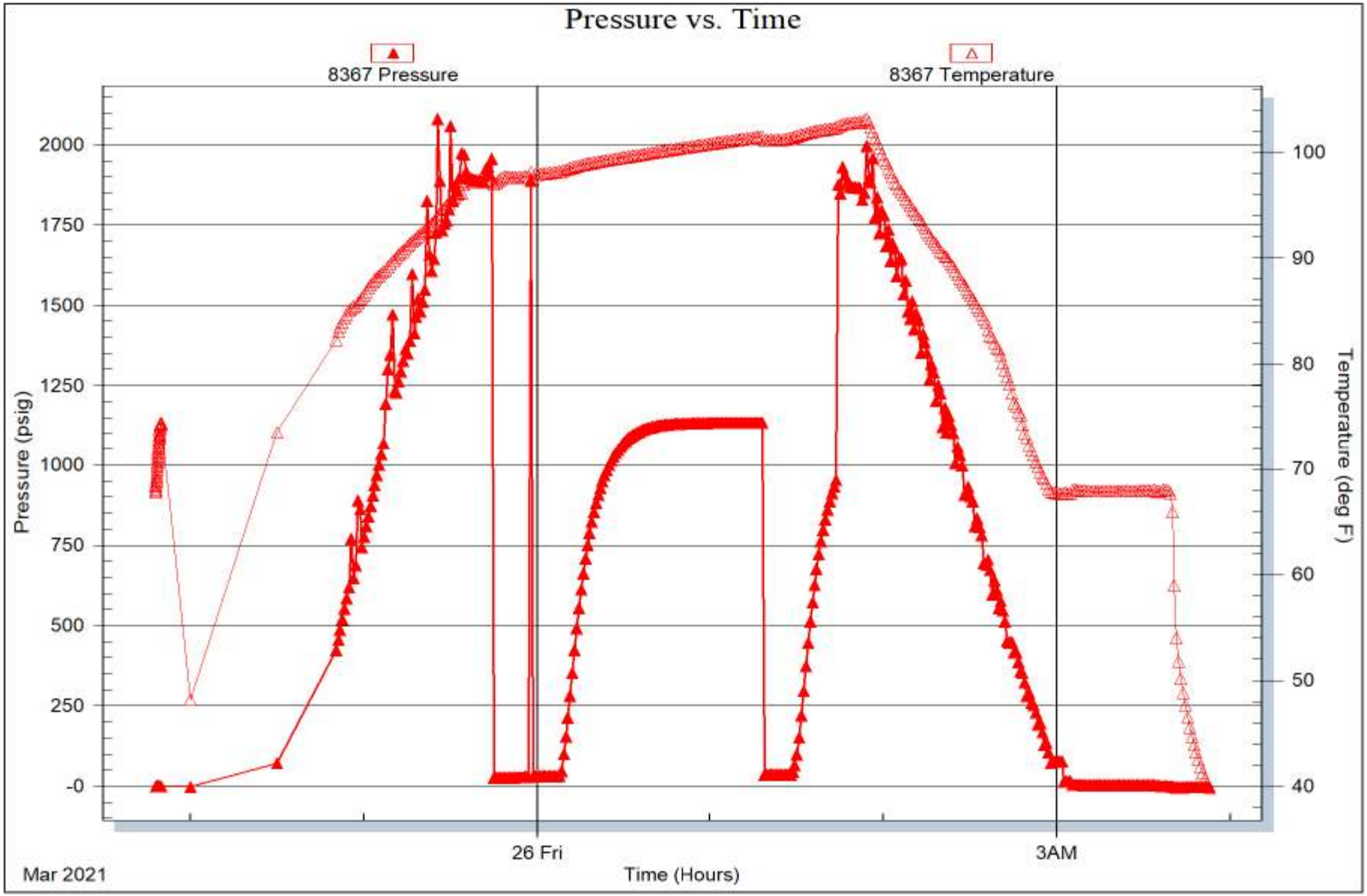
Recovery Comments:

Serial #: 6771 **Inside** MG Oil Inc Jeffery #2 DST Test Number: 2



Trilobite Testing, Inc Ref. No: 64512 Printed: 2021.03.26 @ 08:14:51

Serial #: 8367 **Outside** MG Oil Inc Jeffery #2 DST Test Number: 2



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DRILL STEM TEST REPORT

MG Oil Inc

P.O. Box 162
Russell, Ks. 67665

ATTN: Chad Counts

29-6s-25w Graham Co. , Ks

Jeffery #2

Job Ticket: 64513 **DST#: 3**

Test Start: 2021.03.26 @ 20:47:07

GENERAL INFORMATION:

Formation: **Lansing C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:50:28
Time Test Ended: 04:14:58

Test Type: Conventional Straddle (Reset)
Tester: Matt Smith
Unit No: 73

Interval: 3697.00 ft (KB) To 3740.00 ft (KB) (TVD)
Total Depth: 3932.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

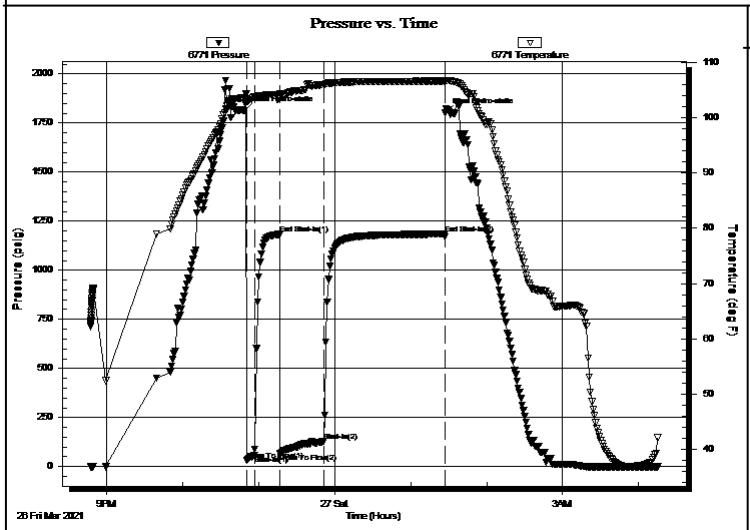
Reference Elevations: 2600.00 ft (KB)
2594.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 6771 **Inside**

Press@RunDepth: 128.00 psig @ 3701.00 ft (KB)
Start Date: 2021.03.26 End Date: 2021.03.27
Start Time: 20:47:08 End Time: 04:14:58

Capacity: 8000.00 psig
Last Calib.: 2021.03.27
Time On Btm: 2021.03.26 @ 22:48:43
Time Off Btm: 2021.03.27 @ 01:27:28

TEST COMMENT: IF: Weak Blow . Built to 3 1/2". Straddle packer failed
ISI: No Blow .
FF: Fair Blow . Built to 8 1/2".
FSI: No Blow .



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1813.83	103.59	Initial Hydro-static
2	32.94	102.85	Open To Flow (1)
8	58.92	103.83	Shut-In(1)
28	1183.39	104.25	End Shut-In(1)
28	66.36	103.86	Open To Flow (2)
63	128.00	105.98	Shut-In(2)
158	1184.21	106.63	End Shut-In(2)
159	1803.15	106.74	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
157.00	OSM 100%m	1.42
31.00	GOSM 5%g 95%m	0.43

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

MG Oil Inc

P.O. Box 162
Russell, Ks. 67665

ATTN: Chad Counts

29-6s-25w Graham Co. , Ks

Jeffery #2

Job Ticket: 64513 **DST#: 3**

Test Start: 2021.03.26 @ 20:47:07

GENERAL INFORMATION:

Formation: **Lansing C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:50:28
Time Test Ended: 04:14:58

Test Type: Conventional Straddle (Reset)
Tester: Matt Smith
Unit No: 73

Interval: 3697.00 ft (KB) To 3740.00 ft (KB) (TVD)
Total Depth: 3932.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

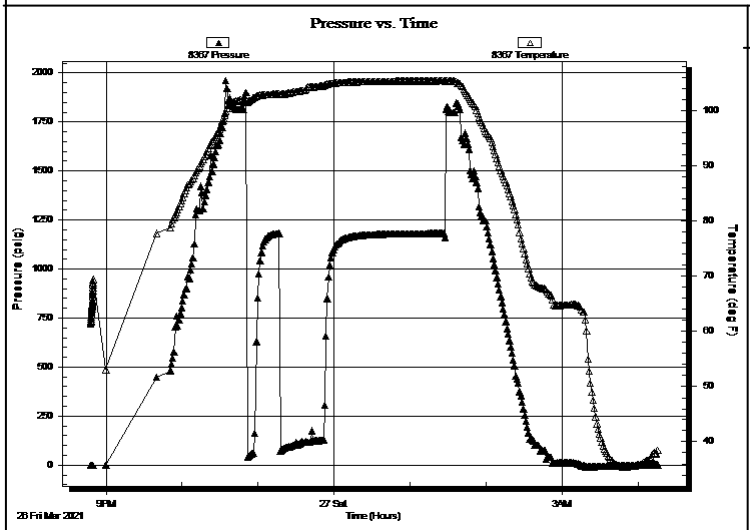
Reference Elevations: 2600.00 ft (KB)
2594.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8367 **Outside**

Press@RunDepth: psig @ 3701.00 ft (KB)
Start Date: 2021.03.26 End Date: 2021.03.27
Start Time: 20:47:45 End Time: 04:15:35

Capacity: 8000.00 psig
Last Calib.: 2021.03.27
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak Blow . Built to 3 1/2". Straddle packer failed
ISI: No Blow .
FF: Fair Blow . Built to 8 1/2".
FSI: No Blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
157.00	OSM 100%m	1.42
31.00	GOSM 5%g 95%m	0.43

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

MG Oil Inc

P.O. Box 162
Russell, Ks. 67665

ATTN: Chad Counts

29-6s-25w Graham Co. , Ks

Jeffery #2

Job Ticket: 64513 **DST#: 3**

Test Start: 2021.03.26 @ 20:47:07

GENERAL INFORMATION:

Formation: **Lansing C**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 22:50:28
Time Test Ended: 04:14:58

Test Type: Conventional Straddle (Reset)
Tester: Matt Smith
Unit No: 73

Interval: 3697.00 ft (KB) To 3740.00 ft (KB) (TVD)
Total Depth: 3932.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

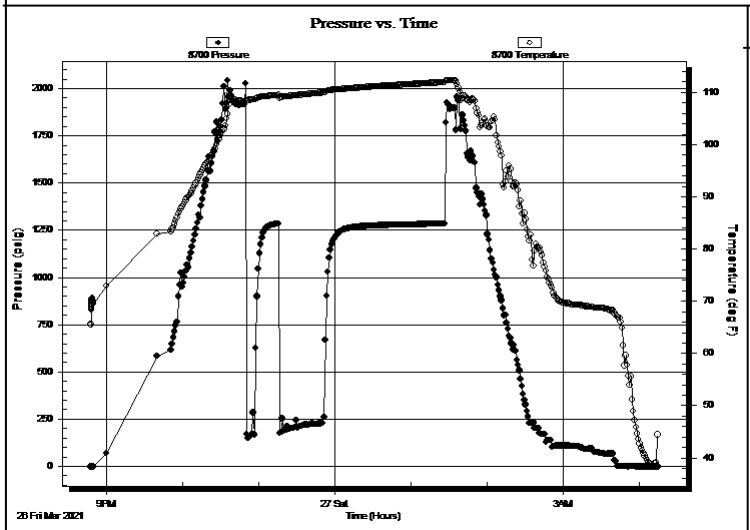
Reference Elevations: 2600.00 ft (KB)
2594.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8700 **Below (Straddle)**

Press@RunDepth: psig @ 3747.00 ft (KB)
Start Date: 2021.03.26 End Date: 2021.03.27
Start Time: 20:47:29 End Time: 04:15:30

Capacity: 8000.00 psig
Last Calib.: 2021.03.27
Time On Btm:
Time Off Btm:

TEST COMMENT: IF: Weak Blow . Built to 3 1/2". Straddle packer failed
ISI: No Blow .
FF: Fair Blow . Built to 8 1/2".
FSI: No Blow .



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
157.00	OSM 100%m	1.42
31.00	GOSM 5%g 95%m	0.43

* Recovery from multiple tests

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

MG Oil Inc

P.O. Box 162
Russell, Ks. 67665

ATTN: Chad Counts

29-6s-25w Graham Co. , Ks

Jeffery #2

Job Ticket: 64513 **DST#: 3**

Test Start: 2021.03.26 @ 20:47:07

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:	900 ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	5.39 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	900.00 ppm				
Filter Cake:	0.20 inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
157.00	OSM 100%m	1.420
31.00	GOSM 5%g 95%m	0.435

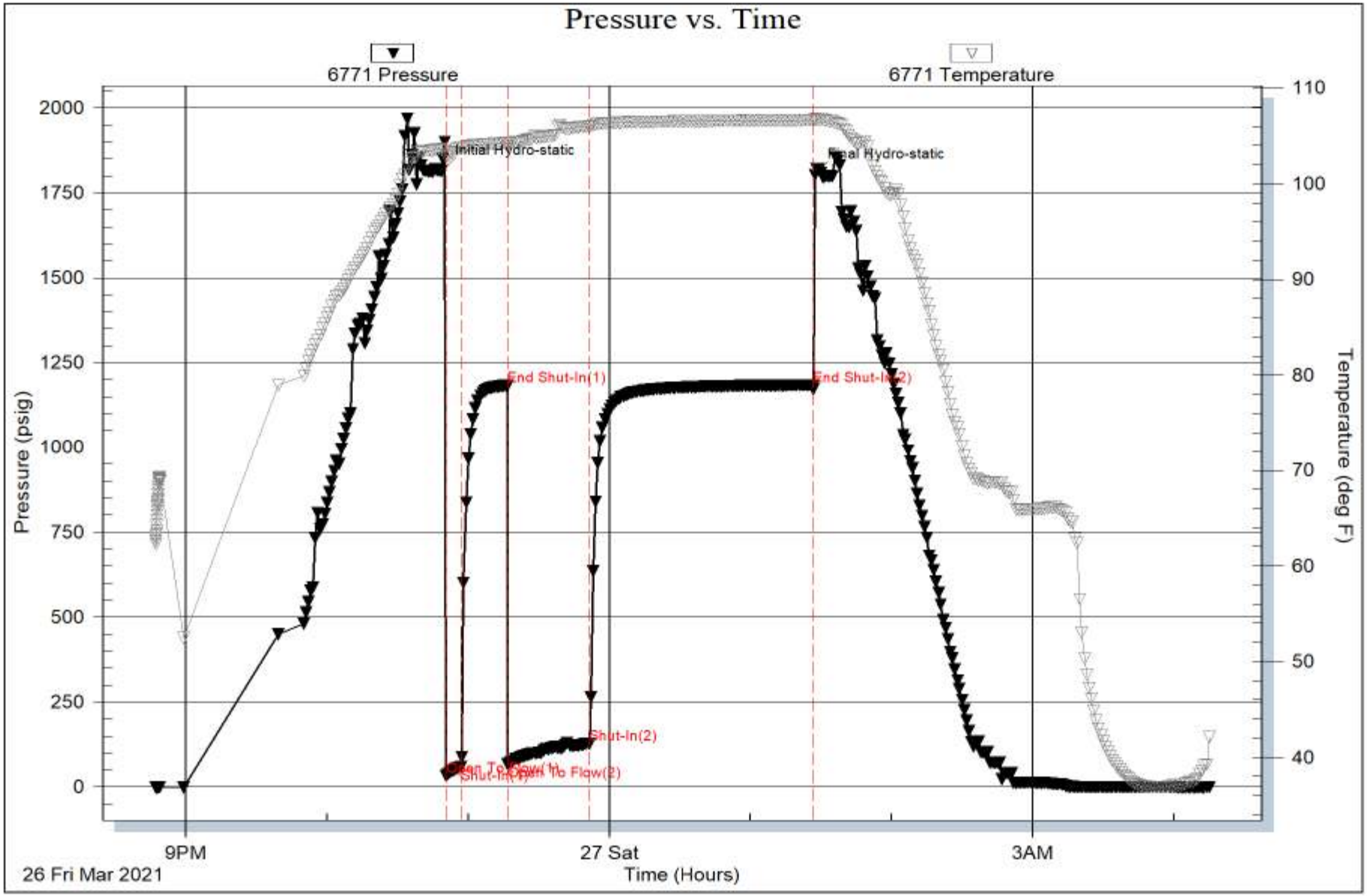
Total Length: 188.00 ft Total Volume: 1.855 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #: None

Laboratory Name: Laboratory Location:

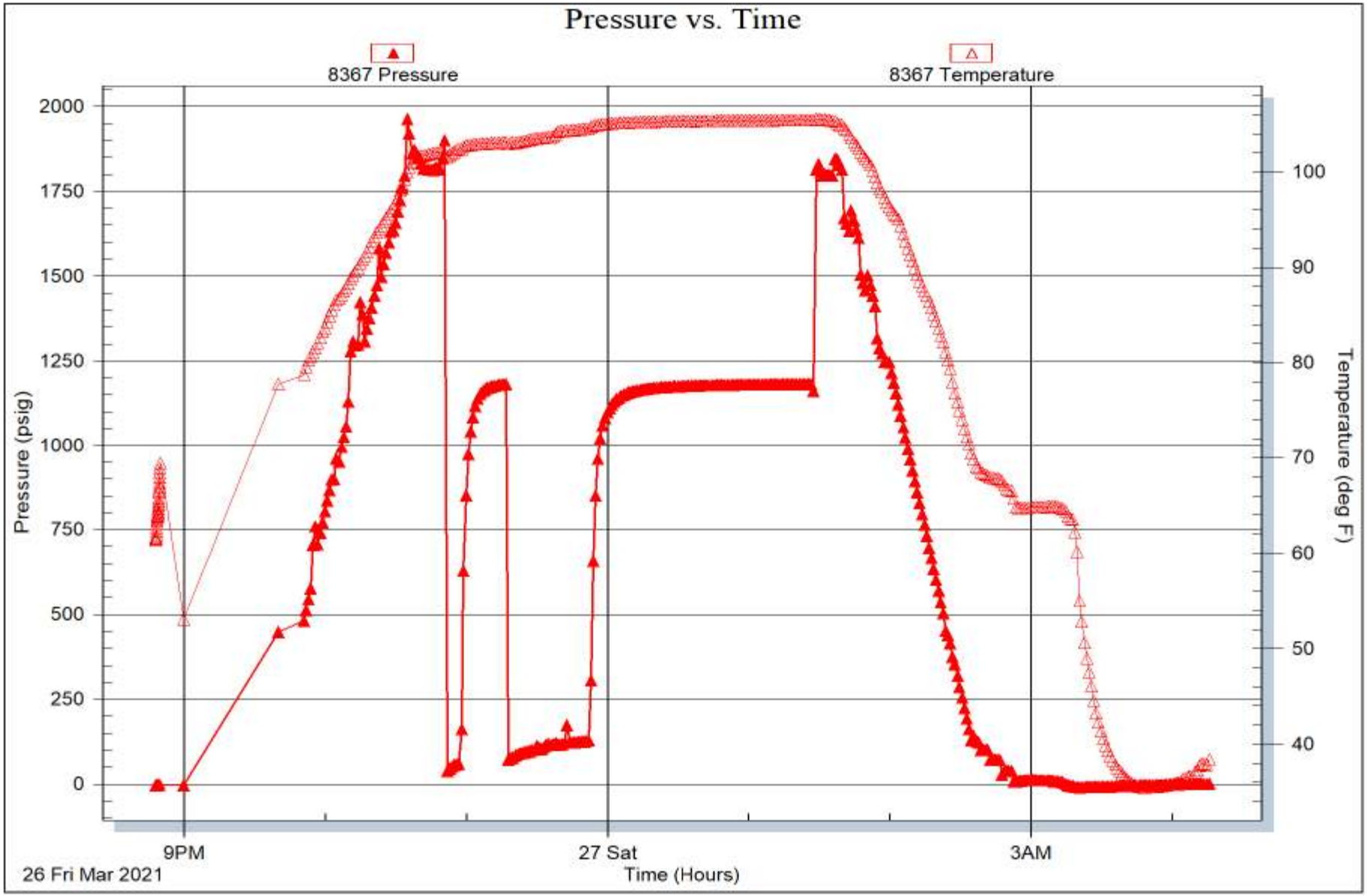
Recovery Comments:

Serial #: 6771 **Inside** MG Oil Inc Jeffery #2 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 64513 Printed: 2021.03.28 @ 13:22:17

Serial #: 8367 **Outside** MG Oil Inc Jeffery #2 DST Test Number: 3



Trilobite Testing, Inc Ref. No: 64513 Printed: 2021.03.28 @ 13:22:17

Serial #: 8700 Below (Straddle) Inc Jeffery #2 DST Test Number: 3