

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)</i> <i>(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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Marc A. Downing
Consulting Petroleum Geologist

Geologic Report
Drilling Time and Sample Log

Operator Mikol Oil LLC		Elevation KB 2170 DF 2168 GL 2162	
Lease Joy-Staab		No. 1-28	
API # 15-051-26948-0000		Casing Record Surface 8 5/8" @ 223' Production None	
Field Koblitz West		Electrical Surveys CNDL, DIL MEL	
Location 120' FNL & 1865' FWL			
Sec. 28	Twp. 12s	Rge. 18w	
County Ellis		State Kansas	
Formation	Sample tops	Log Tops	Datum
Top Anhydrite	1445	1434	+736
Base Anhydrite	1478	1474	+696
Topeka	3163	3160	-990
Heebner	3396	3393	-1223
Toronto	3418	3414	-1244
LKC	3446	3442	-1272
BKC	3679	3675	-1505
Arbuckle	3726	3723	-1553
Total Depth	3786	3783	-1613

Samples Saved From 3150 To RTD	
Drilling Time Kept From 3050 To RTD	
Samples Examined From 3150 To RTD	
Geological Supervision From 3150 To RTD	

Reference Well For Structural Comparison **Earl Wakefield - Schumacher #1**
 SW SW SW - Sec. 21-12s-18w

Summary and Recommendations
 The Joy-Staab #1-28 ran structurally high to the nearest dry hole, but significantly low to the nearest production. Due to DST recovery, poor sample shows, and log evaluation, it was decided by all concerned parties to plug and abandon the well.

Respectfully Submitted,
 Marc A. Downing

ROCK TYPES
 shale, red
 shale, gry
 Carbon Sh
 Dolom
 Lns (w/?)

ACCESSORIES

OTHER SYMBOLS

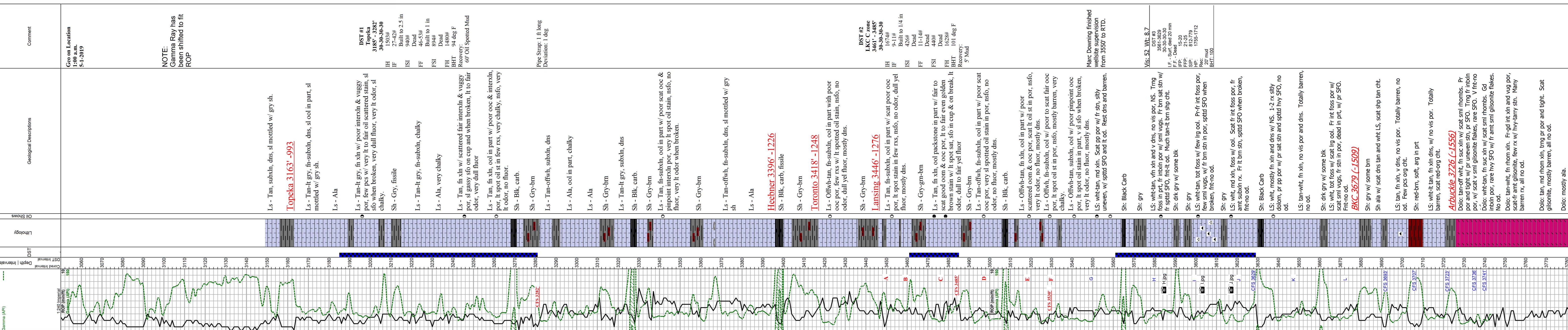
STRINGER
 Shale
 red shale

OIL SHOWS
 Even Stn
 Spotted Stn 50 - 75 %
 Spotted Stn 25 - 50 %
 Spotted Stn 1 - 25 %
 Questionable Stn
 Dead Oil Stn
 Fluorescence

MISC
 Daily Report
 Digital Photo
 Document
 Folder
 Link
 Vertical Log File
 Horizontal Log File
 Core Log File
 Drill Cuttings Rpt

MINERAL
 Chert, dark
 Chert, white

Printed by GEOstrip Vc Striplog version 4.0.8.15 (www.gwrsi.ca)



Geological Descriptions
 Ls - Tan, subxln, dns, sl mottled w/ gry sh.
Topeka 3163' -993
 Ls - Tan-it gry, fn-subxln, dns, sl ool in part, sl mottled w/ gry sh.
 Ls - Ala
 Ls - Tan-it gry, fn xln w/ poor interxln & vuggy por, few pcs w/ very lt fair oil scattered stain, sl sfo when broken, very dull fluor, very lt odor, sl chalky.
 Sh - Gry, fissile
 Ls - Tan-it gry, fn-subxln, chalky
 Ls - Ala, very chalky
 Ls - Tan, fn xln w/ scattered fair interxln & vuggy por, sl gassy sfo on cup and when broken, lt to fair odor, very dull fluor
 Ls - Tan, fn xln, ool in part w/ poor ooc & interxln, por, lt spot oil st in few rxs, very chalky, nsfo, very lt odor, no fluor.
 Sh - Blk, carb.
 Sh - Gry-brn
 Ls - Tan-offwh, subxln, dns
 Ls - Ala, ool in part, chalky
 Ls - Ala
 Sh - Gry-brn
 Ls - Tan-it gry, subxln, dns
 Sh - Blk, carb.
 Sh - Gry-brn
 Ls - Tan, fn-subxln, ool in part w/ poor scat ooc & pinpoint interxln por, very lt spot oil stain, nsfo, no fluor, very lt odor when broken.
 Sh - Gry-brn
 Ls - Tan-offwh, fn-subxln, dns, sl mottled w/ gry sh
 Ls - Ala
Heebner 3396' -1226
 Sh - Blk, carb, fissile
 Sh - Gry-brn
Toronto 3418' -1248
 Ls - Offwh-tan, fn-subxln, ool in part with poor ooc por, few rxs w/ lt spotted oil stain, nsfo, no odor, dull yel fluor, mostly dns.
 Sh - Gry-brn
Lansing 3446' -1276
 Ls - Tan, fn xln, ool packstone in part w/ fair to scat good oom & ooc por, lt to fair even golden brown stain w/ lt spot sat, sfo in cup & on break, lt odor, dull to fair yel fluor
 Sh - Gry-brn
 Ls - Tan-offwh, fn-subxln, ool in part w/ poor scat ooc por, very sl spotted oil stain in por, nsfo, no odor, no fluor, mostly dns.
 Sh - Blk, carb.
 Ls - Offwh-tan, fn xln, ool in part w/ poor scattered oom & ooc por, scat lt oil st in por, nsfo, very lt odor, no fluor, mostly dns.
 Ls - Offwh, fn-subxln, ool w/ poor to scat fair ooc por, lt spot oil st in por, nsfo, mostly barren, very chalky.
 Ls - Offwh-tan, subxln, ool w/ poor pinpoint ooc por, lt spot oil stain in part, v sl sfo when broken, very lt odor, no fluor, mostly dns.
 Ls: wht-tan, md xln. Scat pp por w/ fr stn, silty uneven, w/ spttd SFO and lt od. Rest dns and barren.
 Sh: Black Carb
 Sh: gry
 Ls: wht-tan, tot. foss w/ few lrg ool. Pr-fr: int foss por, few sml vugs, w/ fr brn stn in por, spttd SFO when broken, frt-no od.
 Sh: gry
 Ls: wht, md xln, foss w/ ool. Scat fr: int foss por, fr amt subxln rx. Fr lt brn stn, spttd SFO when broken, frt-no od.
 Sh: Black Carb
 Ls: wht, mostly fn xln and dns w/ NS. 1-2 rx silty dolom, pr pp por w/ pr sat stn and spttd hvy SFO, no od.
 Ls: tan-wht, fn xln, no vis por and dns. Totally barren, no od.
 Sh: drk gry w/ some blk
 Ls: wht, tot foss w/ scat lrg ool. Fr int foss por w/ scat sml vugs, fr stn in por, dead in prt, w/ pr SFO. Frt-no od.
BKC 3679 (-1509)
 Sh: gry w/ some brn
 Sh ala w/ scat dns tan and wht LS, scat shp tan cht.
 Ls: tan, fn xln, v dns, w/ no vis por. Totally barren, no od. Few pcs org cht.
 Sh: red-brn, soft, arg in prt.
 Ls: wht-tan, fn xln dns, w/ no vis por. Totally barren, scat red-org cht.
Arbuckle 3726 (-1556)
 Dolo: tan-off wht, fn suc xln w/ scat sml rhombs. Pr por and tight w/ pr uneven stn, pr SFO. Trng fr inxln por, w/ scat v sml gilsonite flakes, rare SFO. V fn-no Dolo: wht-tan, fn suc xln w/ scat sml rhombs. Gd inxln por, rare hvy SFO w/ fr amt sml gilsonite flakes. No od.
 Dolo: tan-wht, fr rhom xln. Fr-gd int xln and vug por, scat-fr amt gilsonite, few rx w/ hvy-tarry stn. Many barren rx, all no od.
 Dolo: tan, md rhom xln, trng pr por and tight. Scat gilsonite, mostly barren, all no od.
 Dolo: mostly ala.
RTD: 3786 (-1616)



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mikol Oil LLC
 2094 260th Ave
 Hays KS 67601+9419
 ATTN: Jason T. Alm

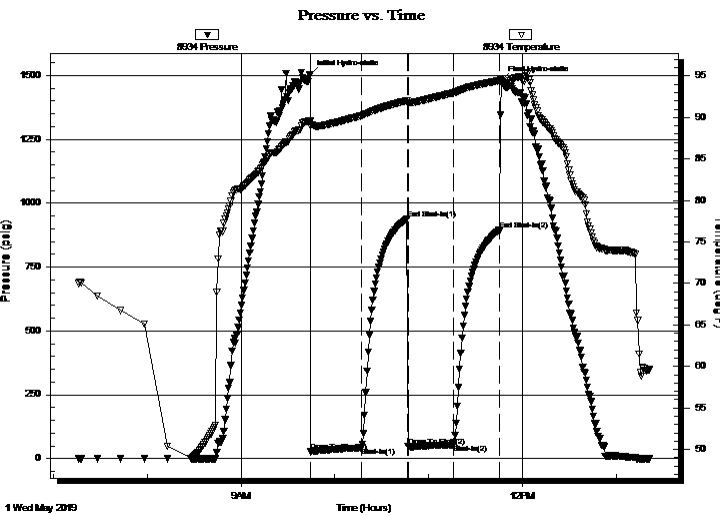
28-12s-18w Ellis KS
Joy-Staab #1-28
 Job Ticket: 65951 **DST#: 1**
 Test Start: 2019.05.01 @ 07:16:00

GENERAL INFORMATION:

Formation: **Topeka**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 09:44:30
 Time Test Ended: 13:21:45
 Interval: **3185.00 ft (KB) To 3282.00 ft (KB) (TVD)**
 Total Depth: 3282.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Spencer J Staab
 Unit No: 84
 Reference Elevations: 2170.00 ft (KB)
 2162.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8934 Inside
 Press@RunDepth: 55.34 psig @ 3188.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.05.01 End Date: 2019.05.01 Last Calib.: 2019.05.01
 Start Time: 07:16:15 End Time: 13:21:45 Time On Btm: 2019.05.01 @ 09:44:15
 Time Off Btm: 2019.05.01 @ 11:46:15

TEST COMMENT: 30-IF-Weak; Built to 2&1/2"
 30-ISI-No Return
 30-FF-Weak; Built to 1"
 30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1503.00	89.54	Initial Hydro-static
1	27.08	89.04	Open To Flow (1)
33	42.40	90.21	Shut-In(1)
62	939.79	92.04	End Shut-In(1)
63	46.68	91.82	Open To Flow (2)
92	55.34	92.95	Shut-In(2)
121	893.85	94.43	End Shut-In(2)
122	1479.63	94.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	OSM 100%M	0.44

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mkol Oil LLC
2094 260th Ave
Hays KS 67601+9419
ATTN: Jason T. Alm

28-12s-18w Ellis KS
Joy-Staab #1-28
Job Ticket: 65951 **DST#: 1**
Test Start: 2019.05.01 @ 07:16:00

Mud and Cushion Information

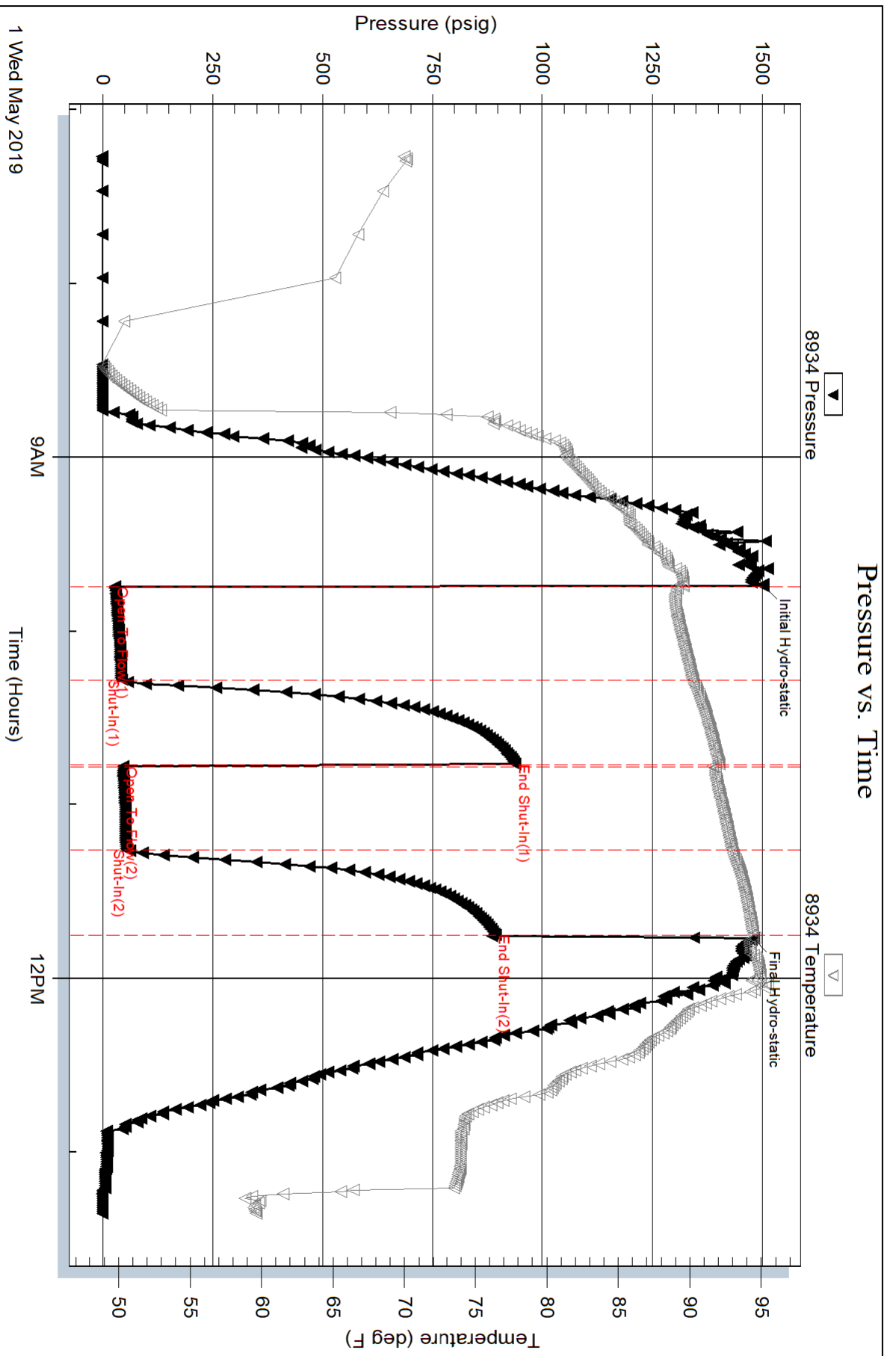
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 8.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 3500.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	OSM 100%M	0.441

Total Length: 60.00 ft Total Volume: 0.441 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 2#LCM

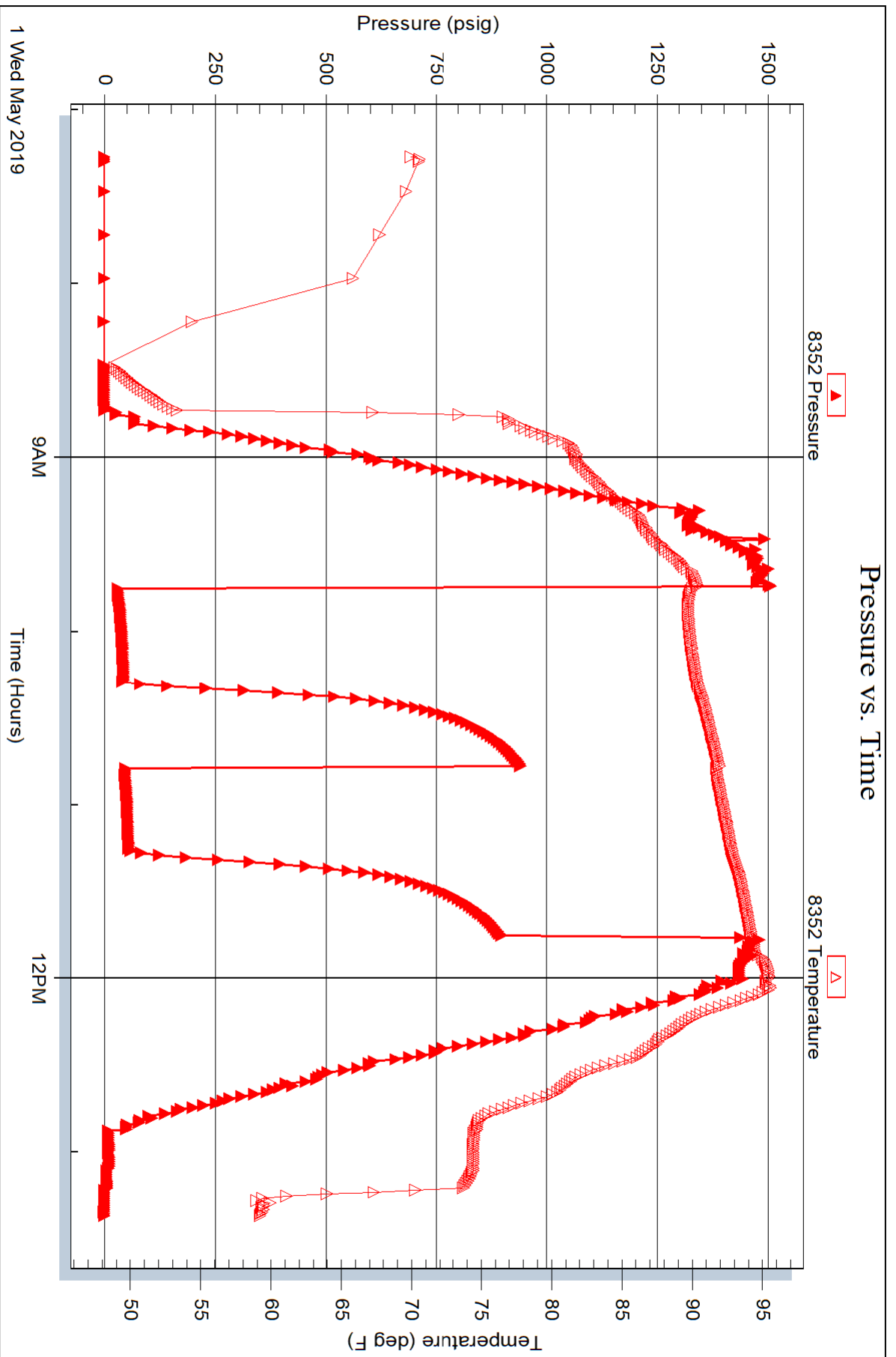


Serial #: 8352

Outside Mikol Oil LLC

Joy-Staab #1-28

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 65951

Printed: 2019.05.01 @ 14:18:48



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mkol Oil LLC
2094 260th Ave
Hays KS 67601+9419
ATTN: Jason T. Alm

28-12s-18w Ellis KS
Joy-Staab #1-28
Job Ticket: 65952 **DST#: 2**
Test Start: 2019.05.02 @ 06:55:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	Mud 100%M	0.037

Total Length: 5.00 ft Total Volume: 0.037 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 2#LCM

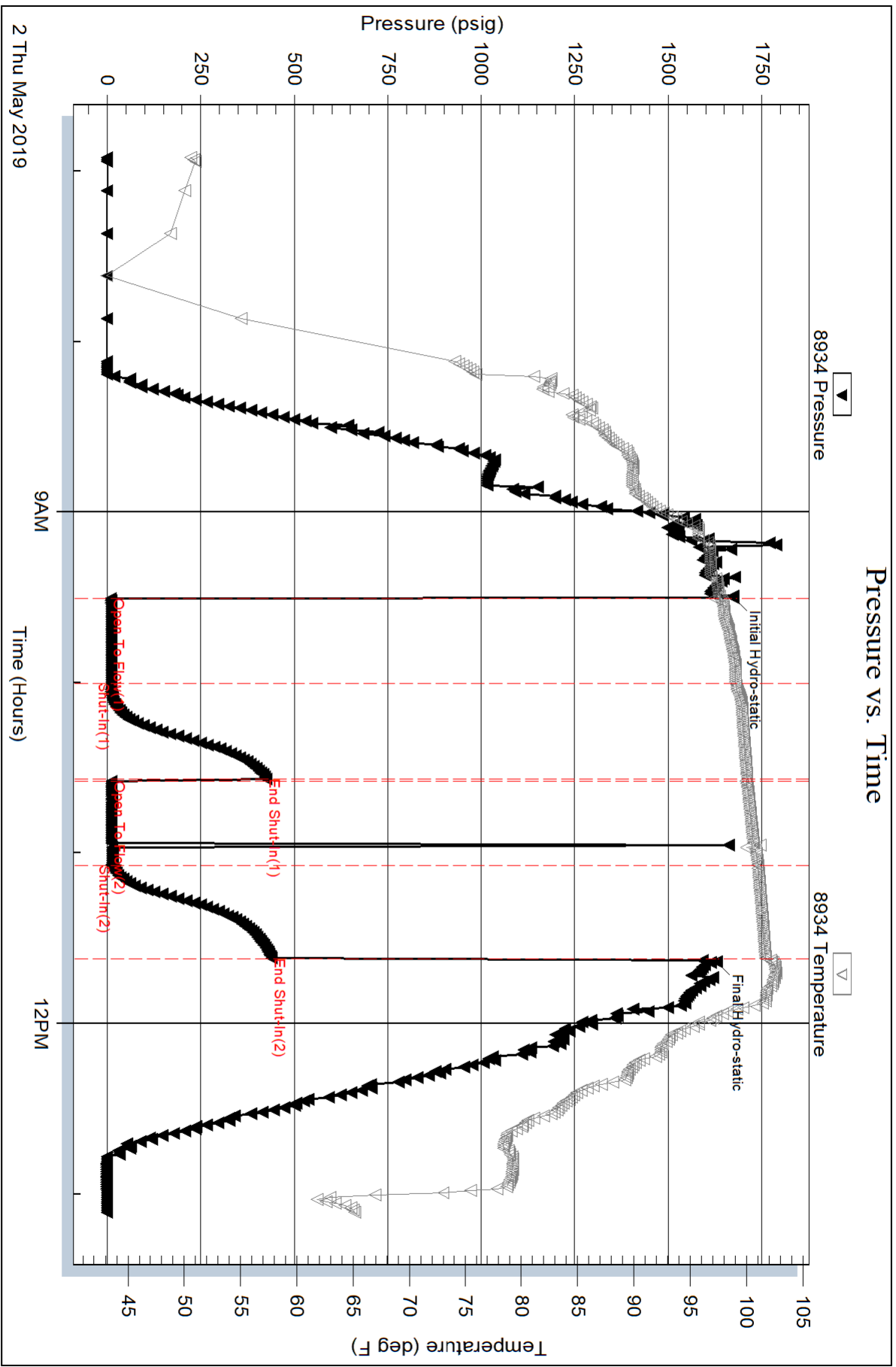
Serial #: 8934

Inside

Mkol Oil LLC

Joy-Staab #1-28

DST Test Number: 2



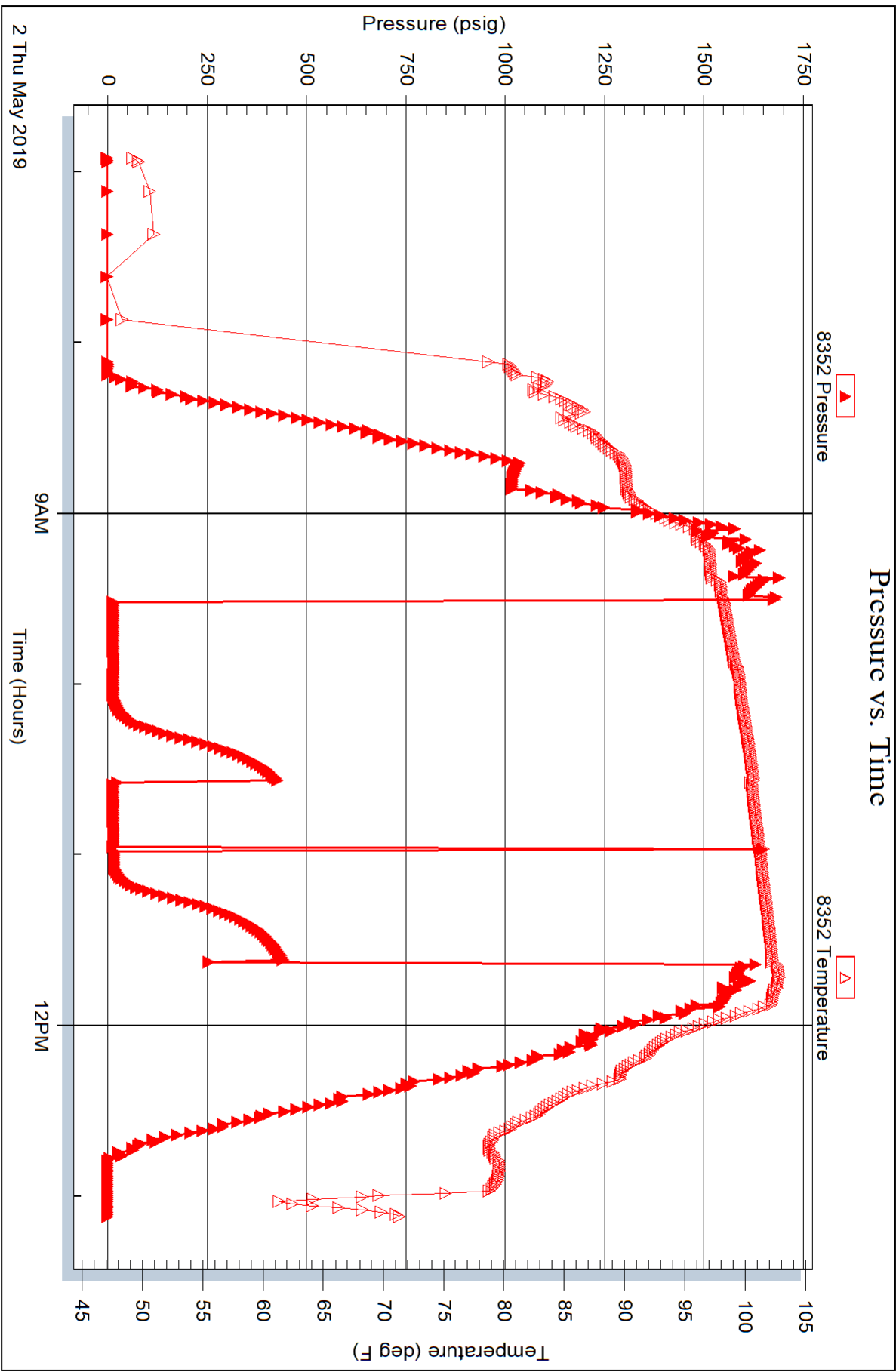
Serial #: 8352

Outside

Mkol Oil LLC

Joy-Staab #1-28

DST Test Number: 2





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mkol Oil LLC
 2094 260th Ave
 Hays KS 67601+9419
 ATTN: Jason T. Alm

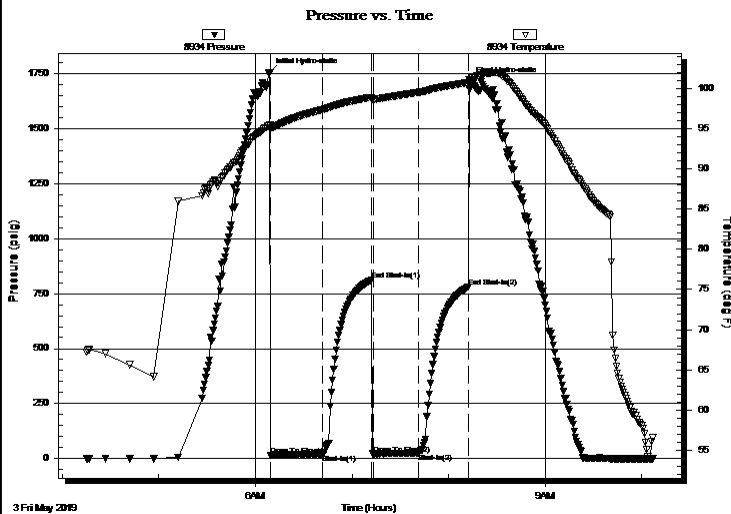
28-12s-18w Ellis KS
Joy-Staab #1-28
 Job Ticket: 65953 **DST#: 3**
 Test Start: 2019.05.03 @ 04:15:00

GENERAL INFORMATION:

Formation: **LKC 'H-J'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 06:09:15 Tester: Spencer J Staab
 Time Test Ended: 10:06:45 Unit No: 84
 Interval: **3561.00 ft (KB) To 3629.00 ft (KB) (TVD)** Reference Elevations: 2170.00 ft (KB)
 Total Depth: 3629.00 ft (KB) (TVD) 2162.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

Serial #: 8934 Inside
 Press@RunDepth: 25.59 psig @ 3565.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2019.05.03 End Date: 2019.05.03 Last Calib.: 2019.05.03
 Start Time: 04:15:15 End Time: 10:06:45 Time On Btm: 2019.05.03 @ 06:09:00
 Time Off Btm: 2019.05.03 @ 08:13:00

TEST COMMENT: 30-IF-Weak Surface
 30-ISI-No Return
 30-FF-No Blow; Flushed; No help
 30-FSI-No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1755.58	95.48	Initial Hydro-static
1	15.90	94.94	Open To Flow (1)
33	20.28	97.41	Shut-In(1)
64	812.85	98.96	End Shut-In(1)
65	21.20	98.75	Open To Flow (2)
93	25.59	99.56	Shut-In(2)
124	779.91	100.80	End Shut-In(2)
124	1712.17	101.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Mud 100%M	0.15

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mkol Oil LLC
2094 260th Ave
Hays KS 67601+9419
ATTN: Jason T. Alm

28-12s-18w Ellis KS
Joy-Staab #1-28
Job Ticket: 65953 **DST#: 3**
Test Start: 2019.05.03 @ 04:15:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 6000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Mud 100%M	0.147

Total Length: 20.00 ft Total Volume: 0.147 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: 2#LCM

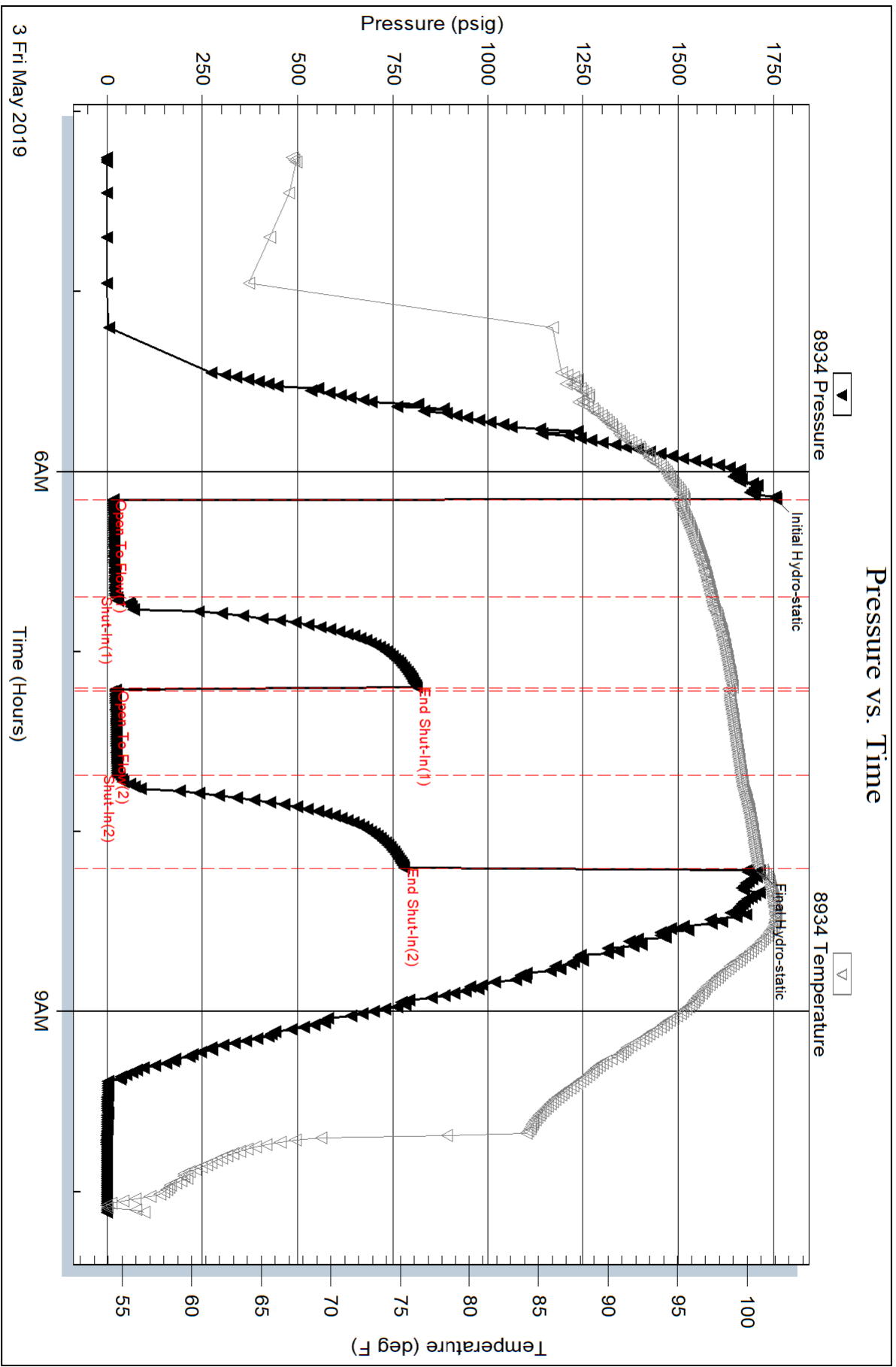
Serial #: 8934

Inside

Mkol Oil LLC

Joy-Staab #1-28

DST Test Number: 3



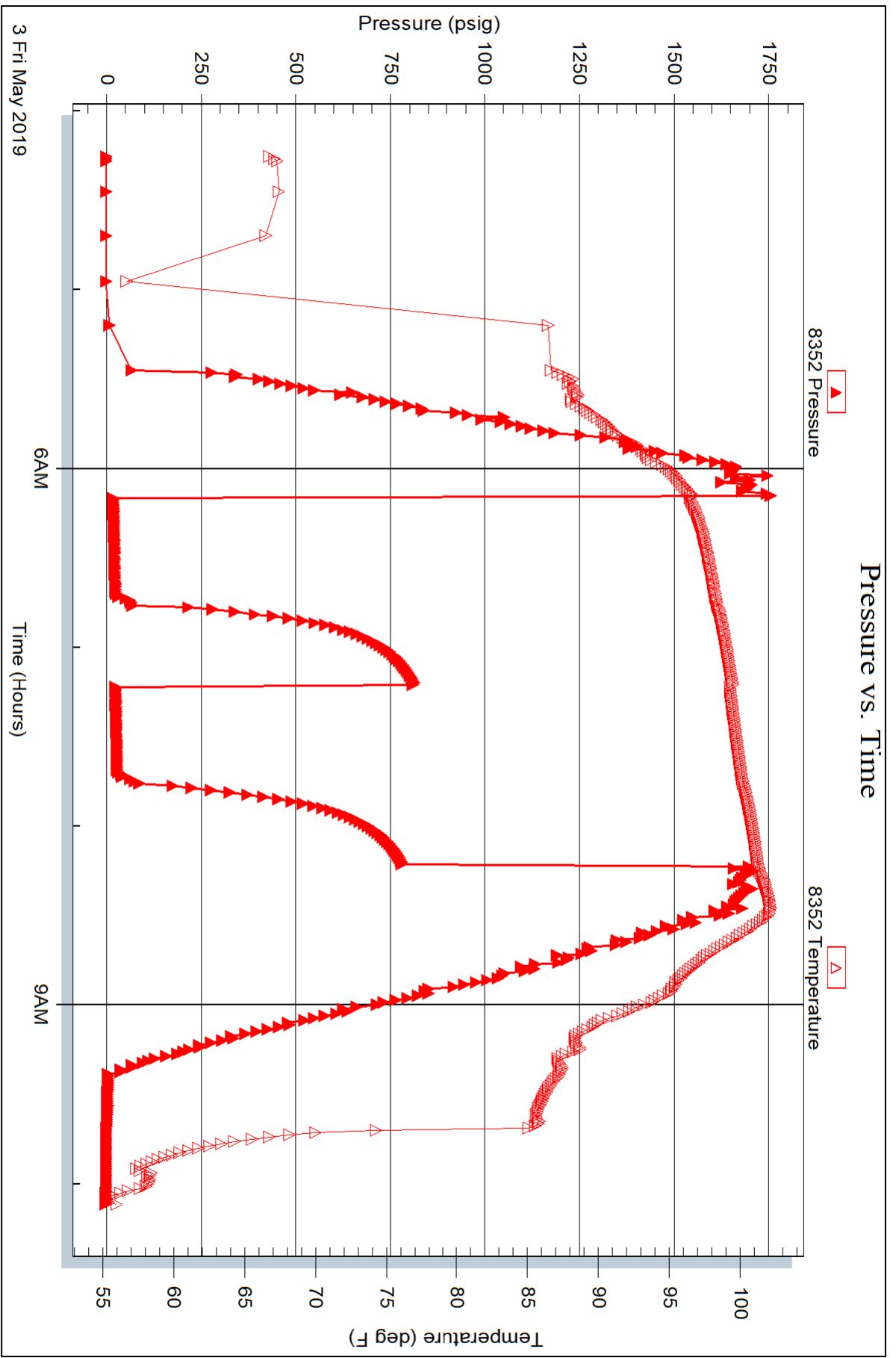
Serial #: 8352

Inside

Mkol Oil LLC

Joy-Staab #1-28

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 65953

Printed: 2019.05.03 @ 10:25:33

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 1427

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-27-19	28	12	18	Ellis	KS		10:00am
Location				Hays 4N Locust Grove 1/2W Sinto			

Lease	Well No.	Owner	
Joy. Staab	1-28	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.	
Contractor	Type Job	Charge To	
Discovery #2	Surface	Mikel oil	
Hole Size	T.D.	Street	
12 1/4	223		
Csg.	Depth	City	
8 5/8	222		
Tbg. Size	Depth	State	
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered	
10		150 com 3/4 2/4 GEL	
Meas Line	Displace		
	13 1/2 BCL		

EQUIPMENT

Pumptrk	No.	Cement Helper	Common
20		Long Tony L.	120
Bulktrk	No.	Driver	Poz. Mix
			30
Bulktrk	No.	Driver	Gel.
14		Miked	3
			Calcium
			7

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38
8 5/8 on bottom Est. Circulation - Mix 150 SK + Displace.	Sand
Cement Circulated	Handling 160
	Mileage

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge Surface
Mileage 15 (min)

Tax
Discount
Total Charge

X Signature *[Signature]*



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 1281

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
S-4-19	28	12	18	Ellis	Ks		4:15 PM

Location Hays - N to Locust Grove, 1/2 W 3/4 into

Lease	Well No.	Owner	
Joy Staab	1-28	To Quality Oilwell Cementing, Inc.	
Contractor		You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	
Discovery			
Type Job			
plug			
Hole Size	T.D.	Charge To	
7 7/8"	3786'	Mikel oil LLC.	
Csg.	Depth	Street	
Tbg. Size	Depth	City	
4 1/2" D.P.	3703'	State	
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.	Shoe Joint	Cement Amount Ordered	
		305 60/40 4% Gel 1/4# Flow Seal	
Meas Line	Displace		
	H2O / mud		

EQUIPMENT

Pumptrk	No.	Cementer	Helper	Common
20		David		183
Bulktrk	No.	Driver	Driver	Poz. Mix
15		Dong	Tony	122
Bulktrk	No.	Driver	Driver	Gel.
P.U.		Rick		11
				Calcium

3703 JOB SERVICES & REMARKS

Remarks:		Hulls
3706 - 505x		Salt
Rat Hole 1500' - 505x		Flowseal 75#
Mouse Hole 750' - 1005x		Kol-Seal
Centralizers 275' - 505x		Mud CLR 48
Baskets 40' - 105x w/plug		CFL-117 or CD110 CAF 38
D/V or Port Collar Rathole w/ 305x		Sand
Mousehole w/ 155x		Handling 3/6
		Mileage

Cement did Circulate

FLOAT EQUIPMENT

Guide Shoe	Dry hole plug
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	
Pumptrk Charge	plug
Mileage	15

X Signature [Signature]

Tax
Discount
Total Charge