

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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Scale 1:240 Imperial

Well Name: KEMPER B #3
Surface Location: NE, SW, NW, Sec. 23, T5S, R21W
Bottom Location:
API: 15-137-20760
License Number: 34916
Spud Date: 4/4/2022 Time: 3:30 PM
Region: NORTON CO.
Drilling Completed: 4/9/2022 Time: 7:45 AM
Surface Coordinates: 1650' FNL & 990' FWL
Bottom Hole Coordinates:
Ground Elevation: 2184.00ft
K.B. Elevation: 2191.00ft
Logged Interval: 3100.00ft To: 3625.00ft
Total Depth: 3625.00ft
Formation: ARBUCKLE
Drilling Fluid Type: CHEMICAL

OPERATOR

Company: FOURWINDS OIL CORPORATION
Address: P.O. BOX 1063

Contact Geologist: DAN WINDHOLZ
Contact Phone Nbr: 785-259-8403
Well Name: KEMPER B #3
Location: NE, SW, NW, Sec. 23, T5S, R21W
API: 15-137-20760
Pool:
State: KS Field: RAY WEST
Country:

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.661677
Latitude: 39.606244
N/S Co-ord: 1650' FNL
E/W Co-ord: 990' FWL

LOGGED BY

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

CONTRACTOR

Contractor: STP DRILLING
Rig #: 1
Rig Type: MUD ROTARY
Spud Date: 4/4/2022 Time: 3:30 PM
TD Date: 4/9/2022 Time: 7:45 AM
Rig Release: 4/10/2022 Time: 5:00 PM

ELEVATIONS

K.B. to Ground: 2191.00ft
 2184.00ft
 K.B. to Ground: 7.00ft


NOTES

DUE TO POSITIVE RESULTS IN DST #2, DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING TO FURTHER EVALUATE THE KEMPER B #3 WELL

TOPS COMPARISON

FORMATION	KEMPER B #3								P&A 3/13/02				KEMPER B #2				D&A 7/5/54							
	BLACK DIAMOND OIL								SHUGHART #2				BLACK DIAMOND OIL				SHUGHART B #1							
	NE, SE, NW, Sec. 23-5-21								RAYMOND M. GOODIN				SW, NW, SW Sec. 23-5-21				CRANLYN EXPL							
	KB		2191		GL		2184		KB		2184		KB		2178		KB		2195		RB		2194	
LOG TOPS	SAMPLE TOPS	LOG	SMPL.	DEPTH	DATUM	LOG	SMPL.	DEPTH	DATUM	LOG	SMPL.	DEPTH	DATUM	LOG	SMPL.	DEPTH	DATUM	LOG	SMPL.	DEPTH	DATUM	LOG	SMPL.	
ANHYDRITE TOP	1782	409	1786	405	1768	416	- 7	- 11						1788	407	+ 2	- 2							
BASE	1813	378	1818	373	1800	384	- 6	- 11						1819	376	+ 2	- 3							
TOPEKA	3195	-1004	3197	-1006	3185	-1001	- 3	- 5						3199	-1004	+ 0	- 2							
HEEBNER SHALE	3340	-1149	3344	-1153	3330	-1146	- 3	- 7	3324	-1146	- 3	- 7	3324	-1149	+ 0	- 4	3337	-1143	- 6	- 10				
TORONTO	3365	-1174	3369	-1178	3355	-1171	- 3	- 7	3349	-1171	- 3	- 7	3370	-1175	+ 1	- 3	3362	-1168	- 6	- 10				
LKC	3380	-1189	3381	-1190	3368	-1184	- 5	- 6	3363	-1185	- 4	- 5	3384	-1189	+ 0	- 1	3378	-1184	- 5	- 6				
BKC	3569	-1378	3576	-1385	3561	-1377	- 1	- 8					3578	-1383	+ 5	- 2	3568	-1374	- 4	- 11				
ARBUCKLE			3621	-1430	3611	-1427		- 3	3602	-1424		- 6	3622	-1427		- 3	3615	-1421		- 9				
TOTAL DEPTH	3624	-1433	3625	-1434	3619	-1435	+ 2	+ 1	3608	-1430	- 3	- 4	3627	-1432	- 1	- 2	3619	-1425	- 8	- 9				

DST #1 3538'-3584' (LKC K-L)



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Four Winds Oil Coro 23_5_21 Norton, KS

PO Box 1063 **Kemper B #3**
 Hays, KS 67601 Job Ticket: 68160 **DST#1**

ATTN: Cameron Brin Test Start: 2022.04.08 @ 18:57:00

GENERAL INFORMATION:

Formation: **LKC K&L**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:12:30
 Time Test Ended: 02:13:00

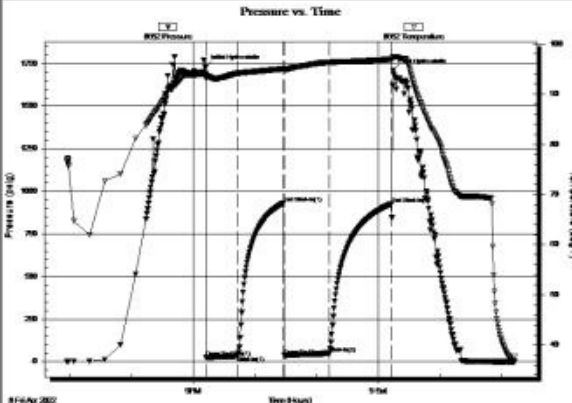
Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Day
 Unit No: 70

Interval: **3538.00 ft (KB) To 3584.00 ft (KB) (TVD)**
 Total Depth: 3584.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft

Serial #: 8652 Outside

Press@RunDepth: 48.03 psig @ 3539.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.04.08 End Date: 2022.04.09 Last Calib.: 2022.04.09
 Start Time: 18:57:05 End Time: 02:12:59 Time On Btm: 2022.04.08 @ 21:12:15
 Time Off Btm: 2022.04.09 @ 00:14:45

TEST COMMENT: IF-30- Built to 1 1/2"
 SI1-45- No return
 FF-45- Built to 3/4"
 SI2-60- No return



Pressure vs. Time

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1732.29	94.04	Initial Hydro-static
1	24.69	93.11	Open To Flow (1)
31	33.02	94.13	Shut-in(1)
76	932.97	95.03	End Shut-in(1)
77	36.68	94.74	Open To Flow (2)
121	48.03	96.33	Shut-in(2)
181	926.46	96.92	End Shut-in(2)
183	1711.44	97.43	Final Hydro-static

PRESSURE SUMMARY


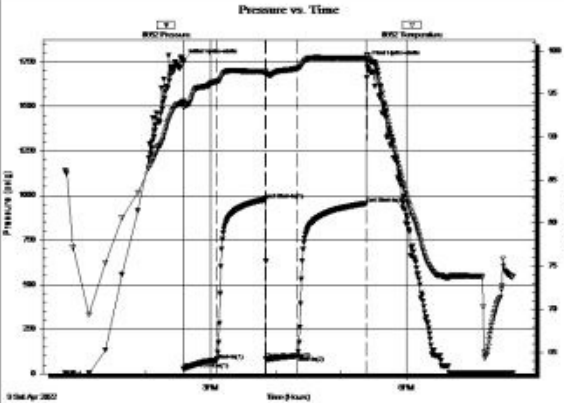
Length (ft)	Description	Volume (bbl)
56.00	Mud 100%	0.28

Recovery

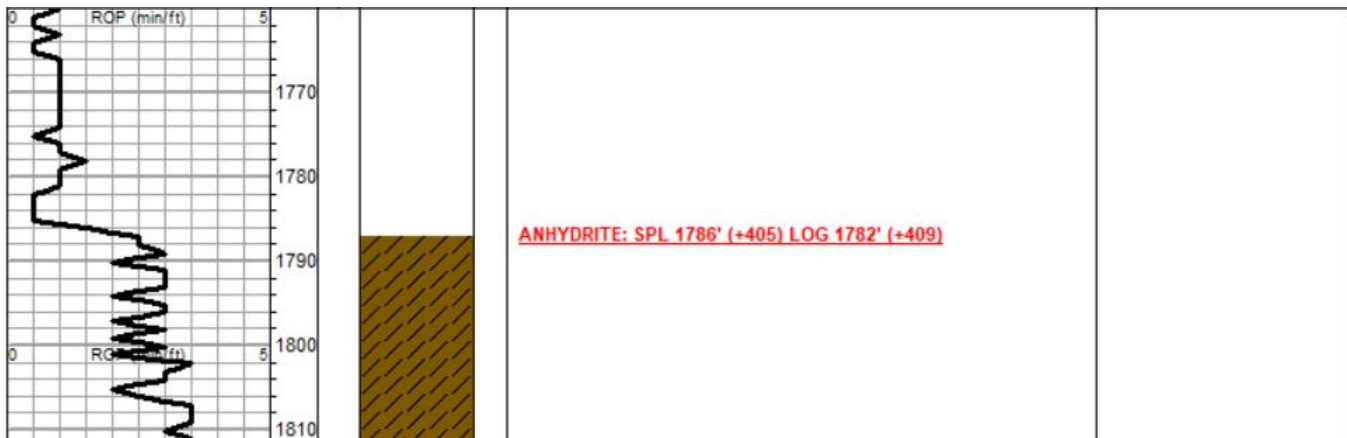
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

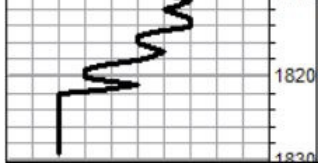
Gas Rates

DST #2 3571'-3625' (ARBUCKLE)

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT																																					
	Four Winds Oil Coro PO Box 1063 Hays, KS 67601 ATTN: Cameron Brin	23_5_21 Norton, KS Kemper B #3 Job Ticket: 68161 DST#:2 Test Start: 2022.04.09 @ 12:46:00																																				
GENERAL INFORMATION: Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 14:35:15 Time Test Ended: 19:37:45 Interval: 3571.00 ft (KB) To 3625.00 ft (KB) (TVD) Total Depth: 3625.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft Test Type: Conventional Bottom Hole (Reset) Tester: Dustin Day Unit No: 70 Reference Elevations: 2191.00 ft (KB) 2184.00 ft (CF)																																						
Serial #: 8652 Outside Press@RunDepth: 100.64 psig @ 3572.00 ft (KB) Capacity: 8000.00 psig Start Date: 2022.04.09 End Date: 2022.04.09 Last Calib.: 2022.04.09 Start Time: 12:46:05 End Time: 19:37:44 Time On Btm: 2022.04.09 @ 14:35:00 Time Off Btm: 2022.04.09 @ 17:24:00																																						
TEST COMMENT: IF-30- Built to 10 1/4" SI1-45- 1/2" return blow FF-30- Built to 11 1/4" SI2-60- 1" return blow																																						
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ANHYDRITE





BASE: SPL 1818' (+373) LOG 1813' (+378)

ROCK TYPES

- Dolprim
- shale, gry
- shale, red
- Lmst fw7>
- Carbon Sh

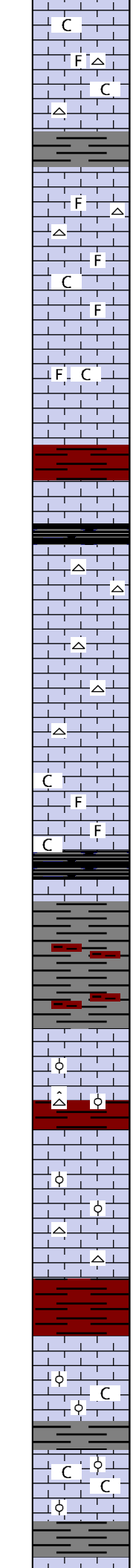
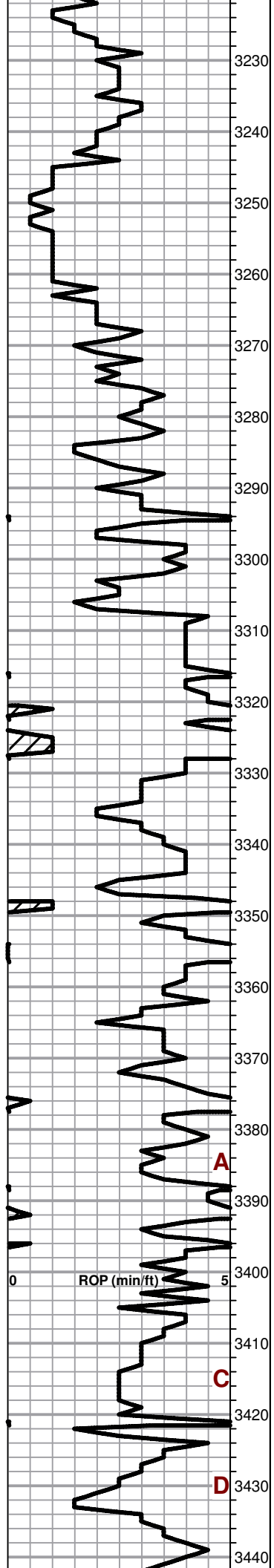
ACCESSORIES

- | | | | |
|--|--|---|---------------------------------------|
| <p>MINERAL</p> <p>△ Chert White</p> | <p>FOSSIL</p> <p>F Fossils < 20%</p> <p>φ Oolite</p> | <p>STRINGER</p> <p>— red shale</p> | <p>TEXTURE</p> <p>C Chalky</p> |
|--|--|---|---------------------------------------|

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

Curve Track #1 ROP (min/ft)	Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3
<p>1:240 Imperial</p>	<p>0</p> <p>5</p> <p>3110</p> <p>3120</p> <p>3130</p> <p>3140</p> <p>3150</p> <p>3160</p> <p>3170</p> <p>3180</p> <p>3190</p> <p>3200</p> <p>3210</p> <p>3220</p>	<p>Cored Interval</p> <p>DST Interval</p>	<p>Lithology</p>	<p>Oil Show</p>	<p>1' DRILL TIME FROM 1760'-1820' FOR ANHYDRITE</p> <p>1' DRILL TIME FROM 3100-RTD</p> <p>10' WET/DRY SAMPLES FROM 3150'-RTD</p> <p>Lm- crm-gray, fnxn, chalky in prt, sucrosic in prt, muddy red wash</p> <p>Lm- crm-tan, fnxn, sucrosic</p> <p>Sh- blk-gray</p> <p>Lm- gray-tan, v.fn-fnxln, sucrosic in prt, chalky in prt, dense in prt, scat foss</p> <p>Lm- crm, fnxn, foss, chalky</p> <p>Sh- gray</p> <p>Lm- crm, fnxn, foss, chalky in prt</p> <p>Sh- gray, sandy</p> <p>Lm- crm, fnxn, oolitic, chalky in part, scat wt chert</p> <p>Lm- crm-wt, fnxn, foss, challky</p>	<p>1:240 Imperial</p> <p>GEO ON LOCATION @ 3:00 PM 4/7/22</p> <p>8 5/8" SURFACE CASING SET @ 222' KB</p> <p>SURVEY @ 222' (1/4")</p> <p>DISPLACED @ 3062'</p>

TOPEKA: SPL 3197' (-1006) LOG 3195' (-1004)



Lm- crm, fnxln, foss, oolitic in prt, chalky in prt, brittle, wt-tan chert

Sh- brn-gray

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

Lm- crm-tan, fnxln, foss, chalky in prt

Sh- brn

Sh- blk, carb

Lm- crm-wt, fnxln, oolitic, scat wt chert, **scat mostly pr ppt-oolitic por, few pcs w/ brn stn in pores, sli SFO upon crush, v. sli odor**

Lm- wt, v. fnxln, cherty barren

Lm- A/A, 3-4 scat pcs w/ tight ppt por, brn stn in pores, sli SFO upon crush, pr-no odor

Lm- crm-lt gray, fnxln, scat foss, chalky

HEEBNER: SPL 3344' (-1153) LOG 3340' (-1149)

Sh- blk, carb

Sh- various colors, muddy red wash

TORONTO: SPL 3369' (-1178) LOG 3365' (-1174)

Lm- crm, fnxln, oolitic, wt chert, few scat pcs w/ tight inoolitic por, v. few pcs w/ lt brn stn in pores, NSFO, no odor

Sh- brn

LKC: SPL 3381' (-1190) LOG 3380' (-1189)

Lm- crm, fnxln, oolitic in prt, few scat pcs w/ tight inoolitic por w/ few small vugs, 3-4 pcs w/ brn stn in pores, sli sheen FO in cup, v. sli odor

Lm- crm, fnxln, cherty, barren

Sh- brn

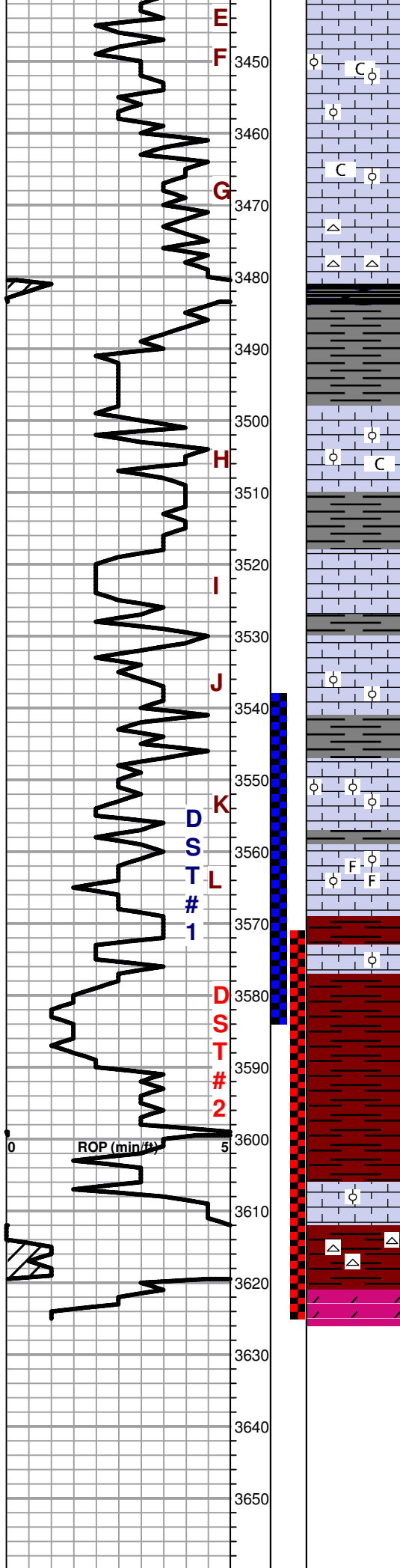
Lm- crm, fnxln, oolitic in prt, chalky, scat pr inoolitic por, few scat pcs w/ brn stn in pores, few FO drops in cup, pr-no odor

Lm- crm, fnxln, oolitic, chalky in prt, scat pr ppt-inoolitic por, v. few scat pcs w/ brn stn in pores, NSFO, no odor

A

C

D



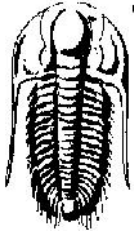
Lm- brn stn, few scat pcs w/ v. sli sat., FO drops in cup & sheen upon crush, fr odor
 Lm- crm, fnxln, oolitic, chalky in prt, pr-fr inoolitic por, scat pr ppt-inoolitic por, few scat pcs w/ brn stn in pores, 1 FO drop in cup, pr odor
 Lm- crm, v.fn-fnxln, oolitic in prt, sli chalky, scat tight inoolitic- sli vuggy por, few scat pcs w/ brn stn in pores, v. sli sheen FO in cup, mod odor, show most likely from above
 Sh- blk, carb
 Sh- green-gray
 Lm- crm-lt. gray, fnxln, oolitic in prt, sli chalky, few scat pcs w/ tight inoolitic-inxln por, 4-5 pcs w/ brn stn in pores, NSFO, sli odor
 Sh- brn-gray-green
 Lm- crm-lt purple, v. fn-fnxln, cherty, mostly dense, scat tight ppt por, scat brn stn in pores, NSFO, pr odor
 Lm- crm, fnxln, oolitic in prt, scat tight inxln- sli vuggular por, scat brn stn in pores, v. sli SFO upon crush, pr odor
 Lm- crm, fnxln, oolitic, scat tight inoolitic por, v. few scat pcs w/ brn stn in pores, NSFO, sli odor
 Lm- crm, fnxln, foss, oolitic in prt, scat pr-fr inxln-infoss-inoolitic por, brn sli sat stn, fr-gd SFO, sli odor
BKC: SPL 3576' (-1385) LOG 3569' (-1378)
 Lm- wt-olive, fnxln, oolitic, fairly brittle
 Sh- brn, silty, muddy red wash
 Lm- crm, fnxln, oolitic
 Sh- red, green, gray
 Chert- wt
ARBUCKLE: SPL 3621' (-1430)
 3623'- Dolo- crm, fnxln-coarse grn, sandy in prt, scat mostly tight inxln por w/ few scat vugs, scat brn-blk stn, 5-6 pcs sli sat, fr SFO upon crush & in cup, fr odor
 3625'- Dolo- crm, fnxln-coarse grn, sandy in prt, rhombic in prt, pr-fr inxln por w/ scat vugs, scat brn-blk sli sat stn, fr SFO upon crush and in cup, fr-gd odor
RTD: SPL 3625' (-1434) LOG 3624' (-1433)

DST #1
3538'-3584' (LKC K-L)
 30-45-45-60
56' M
 SIP: 933-926#

 CFS @ 3584'
 SURVEY @ 3584' (1/4°)
 STRAP 0.34'
 SHORT TO BOARD
DST #2
3571'-3625' (ARB)
 30-45-30-60
193' GMCO (60% O)
 SIP: 977-954#

 CFS @ 3623'
 CFS @ 3625'

 GEO OFF LOCATION
 @ 1:30 A.M. 4/10/22



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Four Winds Oil Coro

23_5_21 Norton, KS

PO Box 1063
Hays, KS 67601

Kemper B #3

Job Ticket: 68160

DST#: 1

ATTN: Cameron Brin

Test Start: 2022.04.08 @ 18:57:00

GENERAL INFORMATION:

Formation: **LKC K&L**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:12:30

Time Test Ended: 02:13:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Day

Unit No: 70

Interval: 3538.00 ft (KB) To 3584.00 ft (KB) (TVD)

Reference Elevations: 2191.00 ft (KB)

Total Depth: 3584.00 ft (KB) (TVD)

2184.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition:

KB to GR/CF: 7.00 ft

Serial #: 8652 Outside

Press@RunDepth: 48.03 psig @ 3539.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.04.08

End Date:

2022.04.09

Last Calib.: 2022.04.09

Start Time: 18:57:05

End Time:

02:12:59

Time On Btm: 2022.04.08 @ 21:12:15

Time Off Btm: 2022.04.09 @ 00:14:45

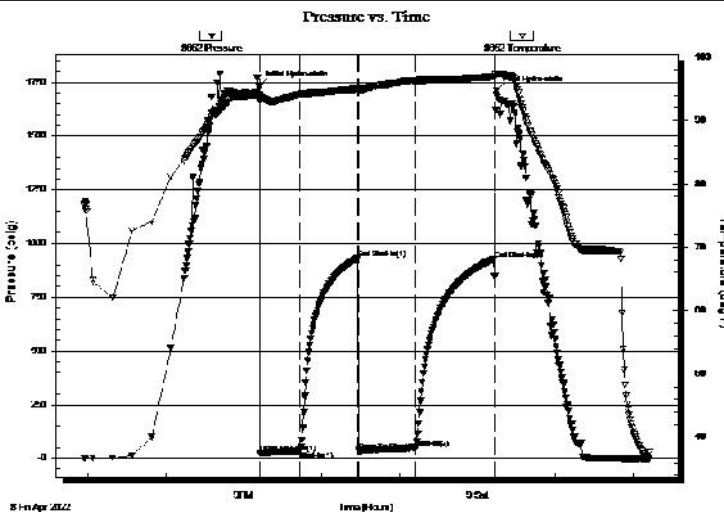
TEST COMMENT: IF-30- Built to 1 1/2"

SI1-45- No return

FF-45- Built to 3/4"

SI2-60- No return

PRESSURE SUMMARY



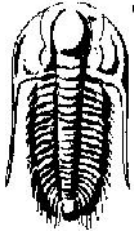
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1732.29	94.04	Initial Hydro-static
1	24.69	93.11	Open To Flow (1)
31	33.02	94.13	Shut-In(1)
76	932.97	95.03	End Shut-In(1)
77	36.68	94.74	Open To Flow (2)
121	48.03	96.33	Shut-In(2)
181	926.46	96.92	End Shut-In(2)
183	1711.44	97.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
56.00	Mud 100%	0.28

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Four Winds Oil Coro

23_5_21 Norton, KS

PO Box 1063
Hays, KS 67601

Kemper B #3

Job Ticket: 68160

DST#: 1

ATTN: Cameron Brin

Test Start: 2022.04.08 @ 18:57:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 55.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 900.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
56.00	Mud 100%	0.275

Total Length: 56.00 ft Total Volume: 0.275 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

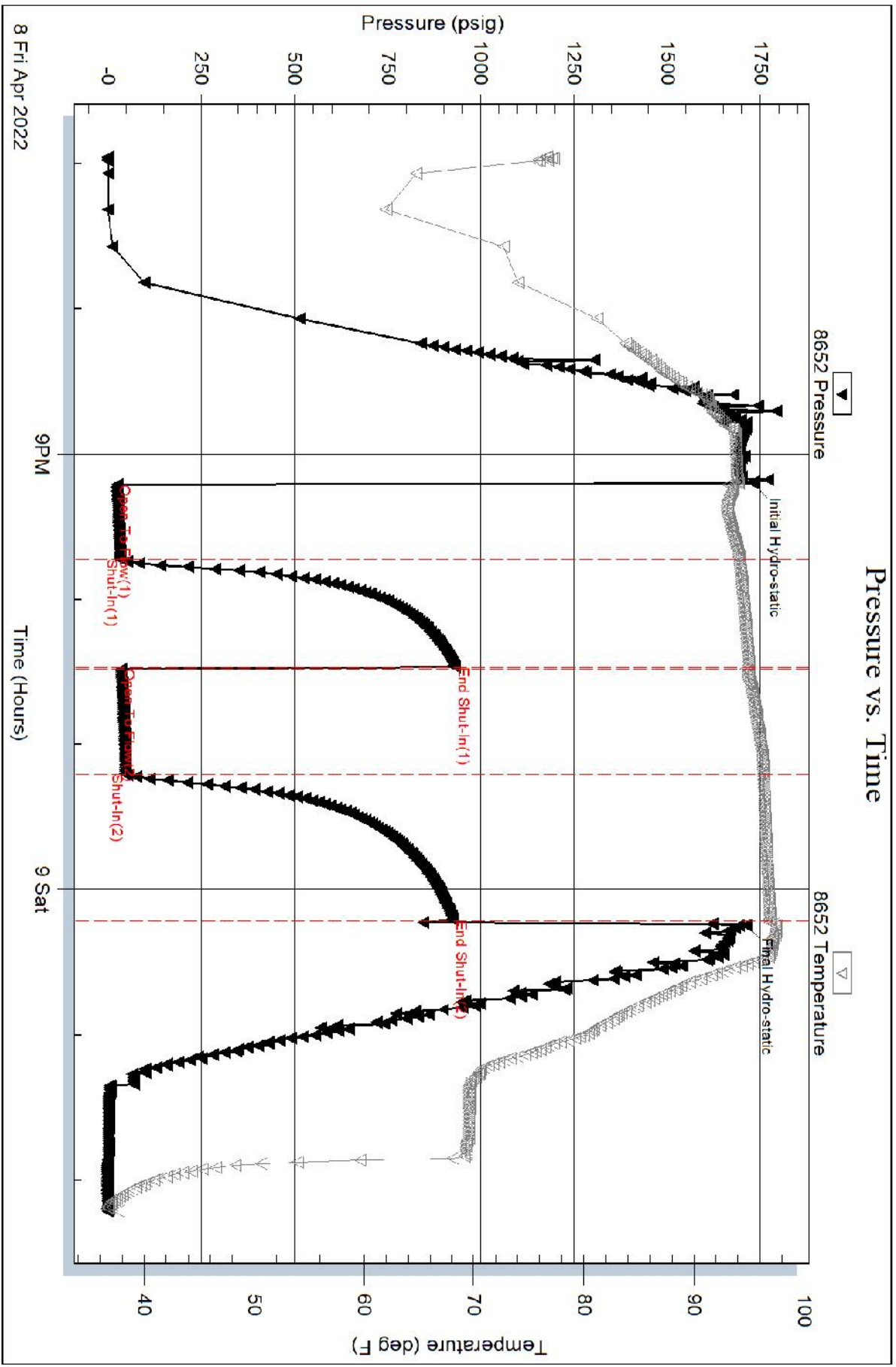
Recovery Comments: 1 1/2# LCM

Serial #: 8652

Outside Four Winds Oil Core

Kemper B#3

DST Test Number: 1



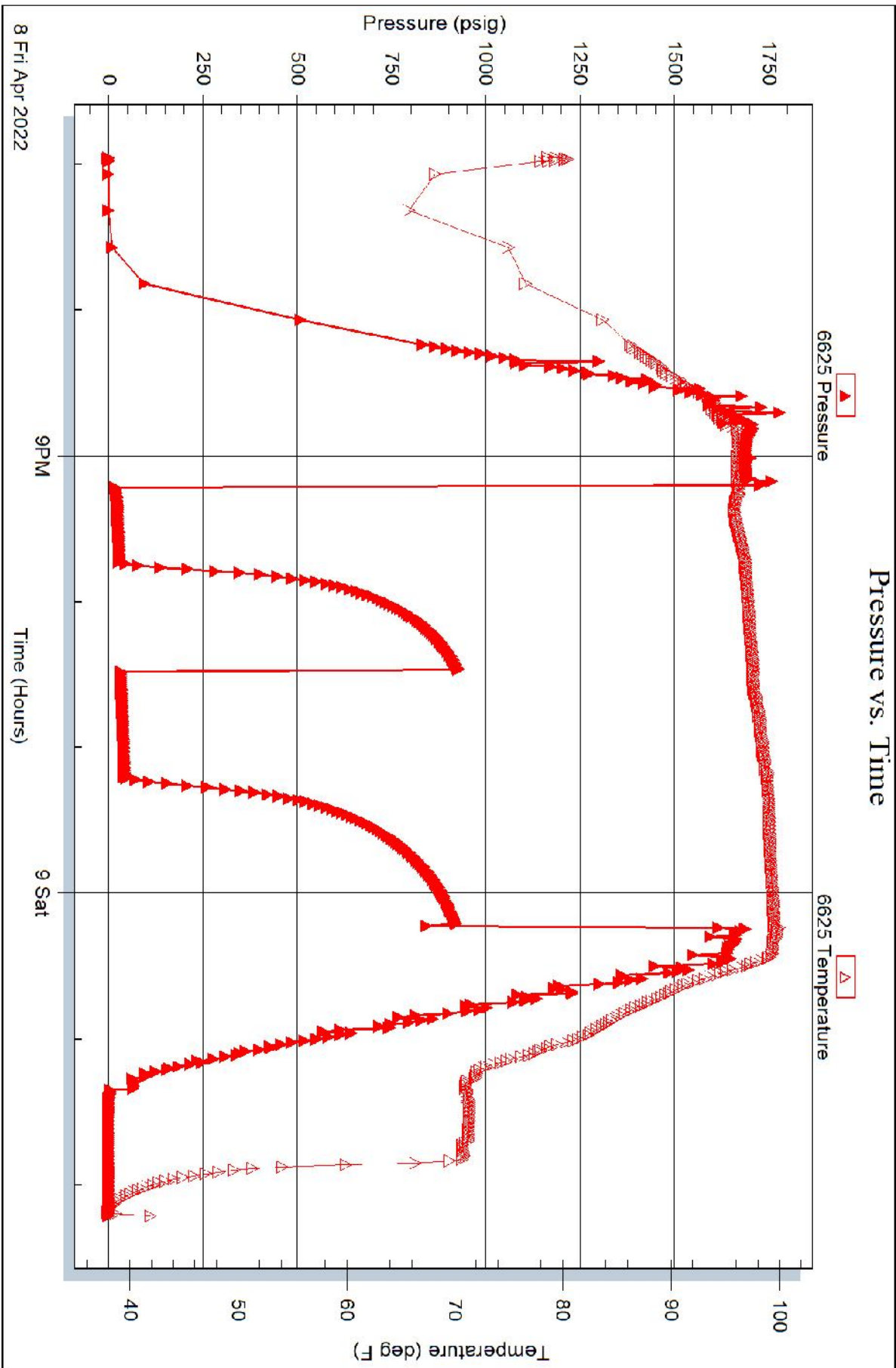
Serial #: 6625

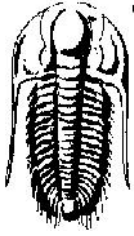
Inside

Four Winds Oil Core

Kemper B#3

DST Test Number: 1





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Four Winds Oil Coro
 PO Box 1063
 Hays, KS 67601
 ATTN: Cameron Brin

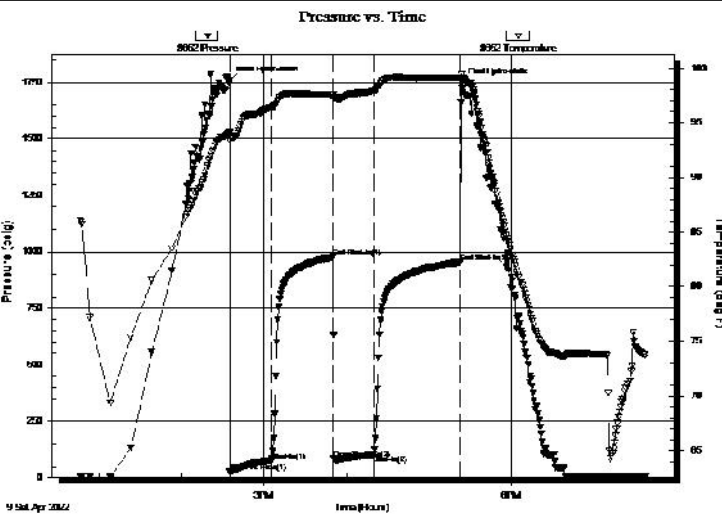
23_5_21 Norton, KS
Kemper B #3
 Job Ticket: 68161 **DST#: 2**
 Test Start: 2022.04.09 @ 12:46:00

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Reset)
 Time Tool Opened: 14:35:15 Tester: Dustin Day
 Time Test Ended: 19:37:45 Unit No: 70
 Interval: **3571.00 ft (KB) To 3625.00 ft (KB) (TVD)** Reference Elevations: 2191.00 ft (KB)
 Total Depth: 3625.00 ft (KB) (TVD) 2184.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: KB to GR/CF: 7.00 ft

Serial #: 8652 Outside
 Press @ Run Depth: 100.64 psig @ 3572.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2022.04.09 End Date: 2022.04.09 Last Calib.: 2022.04.09
 Start Time: 12:46:05 End Time: 19:37:44 Time On Btm: 2022.04.09 @ 14:35:00
 Time Off Btm: 2022.04.09 @ 17:24:00

TEST COMMENT: IF-30- Built to 10 1/4"
 S11-45- 1/2" return blow
 FF-30- Built to 11 1/4"
 S12-60- 1 " return blow

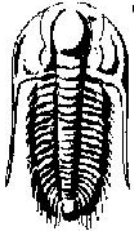


PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1757.57	94.10	Initial Hydro-static
1	25.01	93.40	Open To Flow (1)
31	75.33	96.42	Shut-In(1)
76	977.18	97.54	End Shut-In(1)
76	84.01	97.24	Open To Flow (2)
105	100.64	97.96	Shut-In(2)
168	954.09	99.11	End Shut-In(2)
169	1748.37	99.52	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
193.00	GMCO 5% gas 60% oil 35% mud	1.62

* Recovery from multiple tests

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Four Winds Oil Coro

23_5_21 Norton, KS

PO Box 1063
Hays, KS 67601

Kemper B #3

Job Ticket: 68161

DST#: 2

ATTN: Cameron Brin

Test Start: 2022.04.09 @ 12:46:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

28 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.80 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
193.00	GMCO 5% gas 60% oil 35% mud	1.623

Total Length: 193.00 ft Total Volume: 1.623 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: 2 1/2# LCM

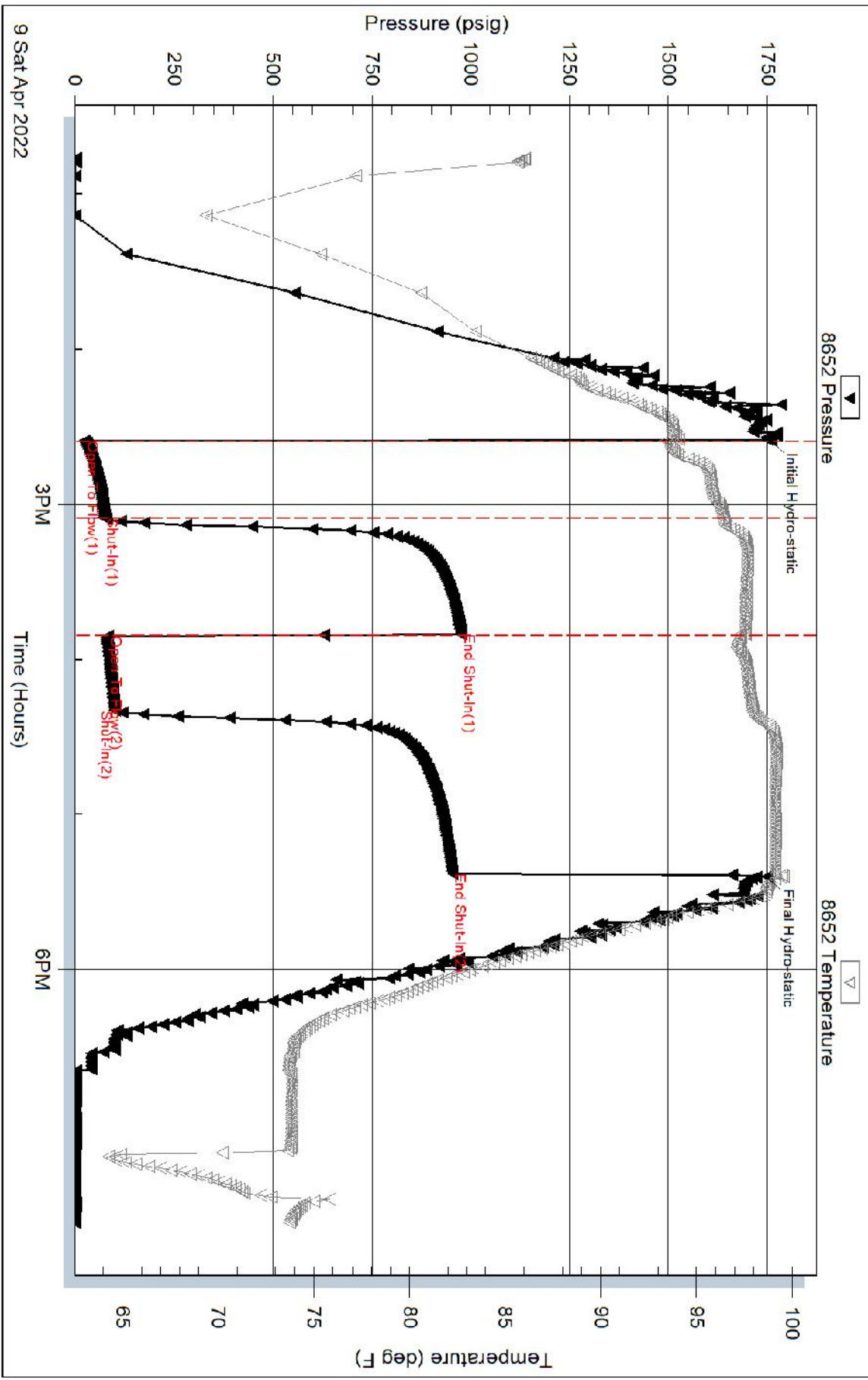
Serial #: 8652

Outside Four Winds Oil Core

Kemper B#3

DST Test Number: 2

Pressure vs. Time



Triobite Testing, Inc

Ref. No: 68161

Printed: 2022.04.09 @ 20:55:53

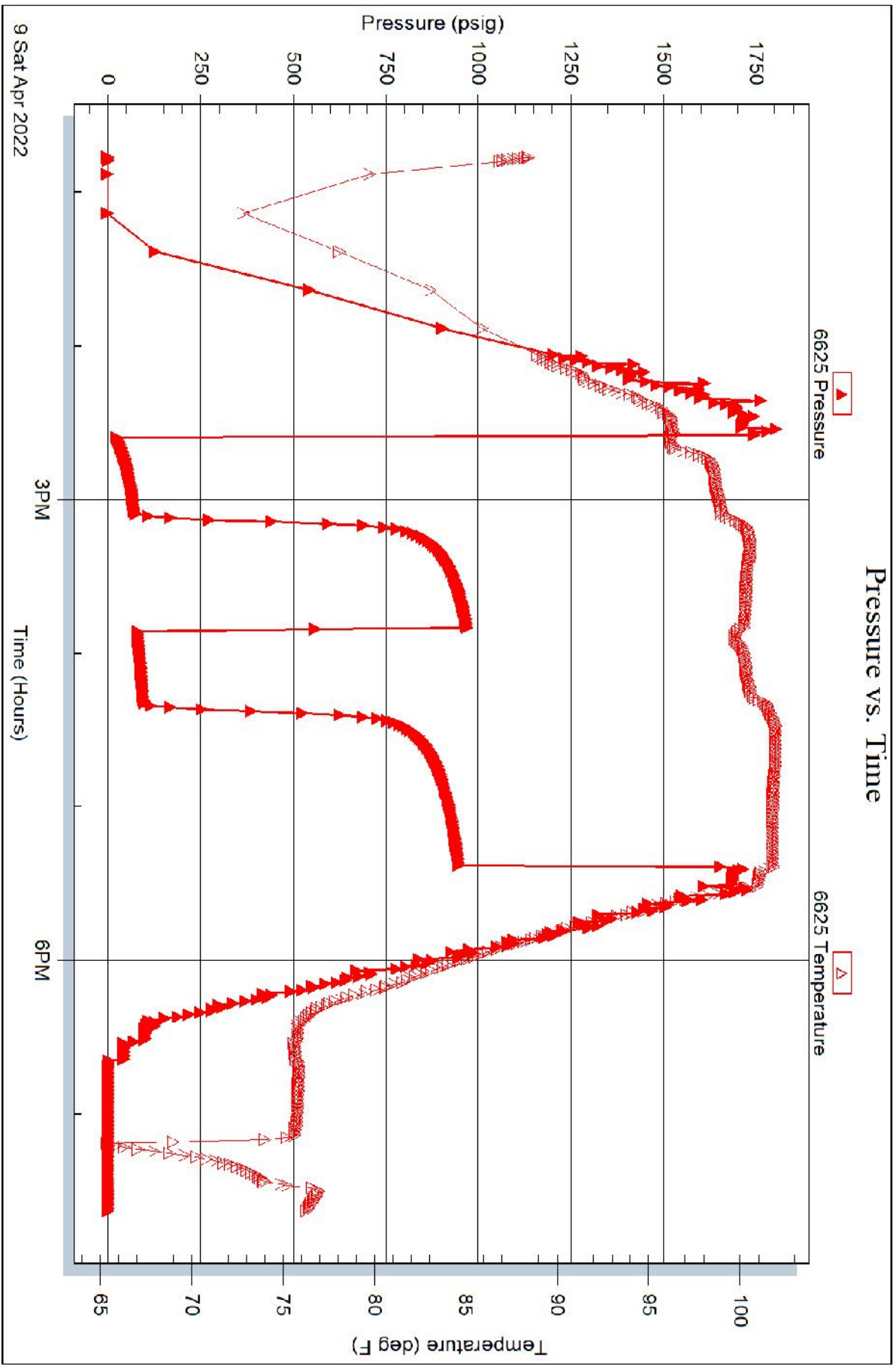
Serial #: 6625

Inside

Four Winds Oil Core

Kemper B#3

DST Test Number: 2



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. 2759

Date	Sec.	Twp.	Range	County	State	On Location	Finish
4-10-22	23	S	21	Norton	KS		1:00 pm
Lease				Well No.		Owner	
Kemper				B-3		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.			
STP							
Type Job				Charge To			
Long string				Fourwinds Corp			
Hole Size		T.D.		Street			
7 7/8		36 25					
Csg.		Depth		City			
5 1/2				State			
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.			
Tool		Depth		Cement Amount Ordered			
				450 8 1/2 QMDC			
Cement Left in Csg.		Shoe Joint		t Flow 500 gal 150 10% salt 5% Gil			
36.12		36.12					
Meas Line		Displace		Common			
		85 1/4		150			
EQUIPMENT				Poz. Mix			
Pumptrk		Cementer		450 8 1/2 QMDC			
18		Bill					
No.		Helper					
		Dale					
Bulktrk		Driver		Gel.			
19		Jordan					
No.		Driver		Calcium			
9		Caleb					
No.		Driver					
		NUSS					
JOB SERVICES & REMARKS				Float Equipment			
Remarks:				Hulls			
				Salt 13			
Rat Hole				Flowseal #15 #100 #			
Mouse Hole 30				Kol-Seal 350 #			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
pipe set e 3600				Handling 621			
Shoe Jt 36.12				Mileage			
Insert 3583.22							
pump 500 gals flush				Float Equipment			
Cemt w/420x lite Flw 150 10% salt 5% Gil				Guide Shoe			
pump plug w/85 1/4 bbls				Centralizer 7			
Land plug e 1300				Baskets 3			
Float did hold				AFU Inserts			
				Float Shoe 1			
				Latch Down 1			
				Pumptrk Charge			
				Mileage 70 prod string			
				Tax			
				Discount			
				Total Charge			
X Signature <i>Caleb</i>				Thanks			