

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](mailto: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: MARY #1  
Surface Location: S2, SW, NW, NW, Sec. 28, T5S, R20W  
Bottom Location:  
API: 15-147-20761  
License Number: 34916  
Spud Date: 10/15/2022 Time: 4:15 PM  
Region: PHILLIPS COUNTY  
Drilling Completed: 10/20/2022 Time: 9:00 AM  
Surface Coordinates: 1200' FNL & 330' FWL  
Bottom Hole Coordinates:  
Ground Elevation: 2224.00ft  
K.B. Elevation: 2232.00ft  
Logged Interval: 3050.00ft To: 3700.00ft  
Total Depth: 3700.00ft  
Formation: ARBUCKLE, REAGAN SAND  
Drilling Fluid Type: CHEMICAL MUD

#### OPERATOR

Company: FOURWINDS OIL CORPORATION  
Address: PO BOX 1063

Contact Geologist: DAN WINDHOLZ  
Contact Phone Nbr: 785-259-8403  
Well Name: MARY #1  
Location: S2, SW, NW, NW, Sec. 28, T5S, R20W  
API: 15-147-20761  
Pool: State: KS Field: RAY  
Country:

#### SURFACE CO-ORDINATES

Well Type: Vertical  
Longitude: -99.588667  
Latitude: 39.593046  
N/S Co-ord: 1200' FNL  
E/W Co-ord: 330' FWL

#### LOGGED BY

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

#### CONTRACTOR

Contractor: DISCOVERY DRILLING  
Rig #: 4  
Rig Type: MUD ROTARY  
Spud Date: 10/15/2022 Time: 4:15 PM  
TD Date: 10/20/2022 Time: 9:00 AM  
Rig Release: 10/21/2022 Time: 2:15 PM

#### ELEVATIONS


**NOTES**

DUE TO NEGATIVE RESULTS ON BOTH DST'S DECISION WAS MADE TO PLUG AND ABANDON THE MARY #1.

**TOPS COMPARISON**

FORMATION	MARY #1				D.G. HANSEN #1				MARY A UNIT #1				H&S UNIT #1				P&A 6/25/55			
	LOG TOPS				LOG				LOG				LOGS				VEHIGE B #4			
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	LOG CORR.	SMPL. CORR.	DEPTH	DATUM	LOG CORR.	SMPL. CORR.	DEPTH	DATUM	LOG CORR.	SMPL. CORR.	DEPTH	DATUM	LOG CORR.	SMPL. CORR.
	LOG TOPS	SAMPLE TOPS	LOG	SMPL.	LOG	SMPL.	LOG	SMPL.	LOGS	LOG	SMPL.	LOGS	LOG	SMPL.	LOG	SMPL.	LOG	SMPL.		
ANHYDRITE TOP	1755	477	1757	475	1764	477	+ 0	- 2	1757	472	+ 5	+ 3	1761	475	+ 2	+ 0				
BASE	1783	449	1785	447	1793	448	+ 1	- 1	1786	443	+ 6	+ 4	1792	444	+ 5	+ 3				
TOPEKA	3158	-926	3159	-927	3169	-928	+ 2	+ 1	3157	-928	+ 2	+ 1	3170	-934	+ 8	+ 7				
HEEBNER SHALE	3355	-1123	3356	-1124	3365	-1124	+ 1	+ 0	3351	-1122	- 1	- 2	3368	-1132	+ 9	+ 8				
TORONTO	3379	-1147	3380	-1148	3391	-1150	+ 3	+ 2	3375	-1146	- 1	- 2	3391	-1155	+ 8	+ 7	3355	-1152	+ 5	+ 4
LKC	3395	-1163	3397	-1165	3406	-1165	+ 2	+ 0	3394	-1165	+ 2	+ 0	3409	-1173	+ 10	+ 8	3374	-1171	+ 8	+ 6
BKC	3591	-1359	3593	-1361	3599	-1358	- 1	- 3	3585	-1356	- 3	- 5	3601	-1365	+ 6	+ 4	3568	-1365	+ 6	+ 4
GORHAM	3648	-1416	3650	-1418					3636	-1407	- 9	- 11					3626	-1423	+ 7	+ 5
ARBuckle									3639	-1410			3652	-1416						
REAGAN	3654	-1422	3653	-1421	3650	-1409	- 13	- 12					3660	-1424	+ 2	+ 3	3628	-1425	+ 3	+ 4
TOTAL DEPTH	3701	-1469	3700	-1468	3659	-1418	- 51	- 50	3636	-1407	- 62	- 61	3674	-1438	- 31	- 30	3710	-1507	+ 38	+ 39

**DST #1 3629'-3650' (REAGAN)**



**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Fourwinds Oil Corp **28-5s-20w**

P.O. BOX 1063 **Mary #1**  
 Hayns KS 67601 Job Ticket: 69872 **DST#: 1**

ATTN: Cameron Brin Test Start: 2022.10.19 @ 17:12:00

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**GENERAL INFORMATION:**

Formation: **Reagan Sand**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 20:05:45 Tester: Terrance  
 Time Test Ended: 00:03:30 Unit No: 75

Interval: **3629.00 ft (KB) To 3650.00 ft (KB) (TVD)** Reference Elevations: 2232.00 ft (KB)  
 Total Depth: 3650.00 ft (KB) (TVD) 2224.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 8.00 ft

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**Serial #: 8320 Outside**

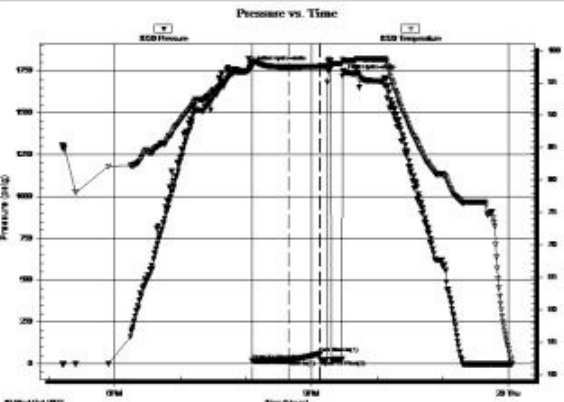
Press@RunDepth: 22.33 psig @ 3635.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2022.10.19 End Date: 2022.10.20 Last Calib.: 2022.10.20  
 Start Time: 17:12:05 End Time: 00:03:29 Time On Btm: 2022.10.19 @ 20:05:15  
Time Off Btm: 2022.10.19 @ 21:28:15

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**TEST COMMENT:** IF-30-1 inch blow  
 ISI-30-No return  
 FF-30-No blow ,flush tool and pull it .

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**Pressure vs. Time**



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1769.52	98.61	Initial Hydro-static
1	18.93	98.25	Open To Flow (1)
34	22.33	97.44	Shut-h(1)
62	60.35	97.55	End Shut-h(1)
63	22.70	97.55	Open To Flow (2)
83	1717.47	98.54	Final Hydro-static

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**Recovery**

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05


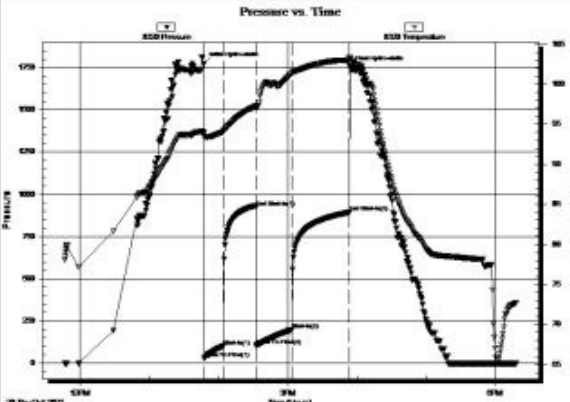
**Gas Rates**

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

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Trilobite Testing, Inc. Ref No: 69872 Printed: 2022.10.20 @ 07:32:44

**DST #2 3627'-3665' ( REAGAN)**

	<b>DRILL STEM TEST REPORT</b>																																											
	Fourwinds Oil Corp P.O. BOX 1063 Haysn KS 67601 ATTN: Cameron Brin	<b>28-5s-20w</b>  <b>Mary #1</b> Job Ticket: 69873 Test Start: 2022.10.20 @ 11:47:00	<b>DST#: 2</b>																																									
<b>GENERAL INFORMATION:</b> Formation: <b>Reagan Sand</b> Deviated: No Whipstock: ft (KB) Time Tool Opened: 13:48:00 Time Test Ended: 18:18:00 Test Type: Conventional Bottom Hole (Reset) Tester: Terrance Unit No: 75 Interval: <b>3627.00 ft (KB) To 3665.00 ft (KB) (TVD)</b> Total Depth: 3665.00 ft (KB) (TVD) Reference Elevations: 2232.00 ft (KB) 2224.00 ft (CF) Hole Diameter: 7.88 inches Hole Condition: Poor KB to GR/CF: 8.00 ft																																												
<b>Serial #: 8320 Outside</b> Press@RunDepth: 199.33 psig @ 3628.00 ft (KB) Capacity: 8000.00 psig Start Date: 2022.10.20 End Date: 2022.10.20 Last Calib.: 2022.10.20 Start Time: 11:47:05 End Time: 18:17:59 Time On Btm: 2022.10.20 @ 13:47:45 Time Off Btm: 2022.10.20 @ 15:54:00																																												
TEST COMMENT: F-15-BOB In 7 min ISI-30-No return FF-30-8 Inches FSI-45-No return																																												
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**ROCK TYPES**

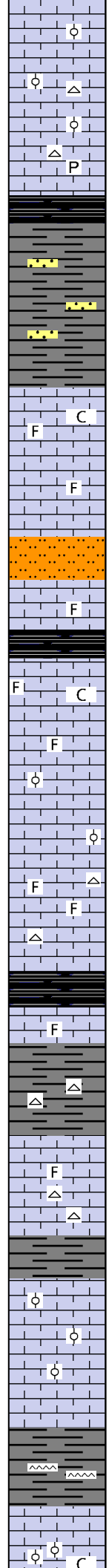
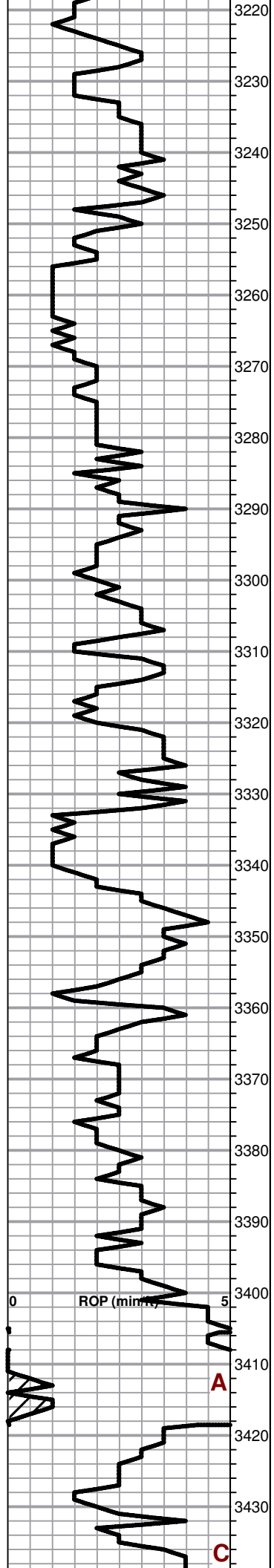
	Lmst fw7> shale, grn		shale, gry		shale, red		Sltst
	shale, grn		Carbon Sh		Ss		CglSandy

**ACCESSORIES**

<b>MINERAL</b>	<b>FOSSIL</b>	<b>STRINGER</b>	<b>TEXTURE</b>
P Pyrite	F Fossils < 20%	~ Chert	C Chalky
• Sandy	φ Oolite	••• Sandstone	
• Silty			







Lm- crm, fnxln, foss, oolitic, chalky, scat pr infoss-inoolitic por, NSO  
 Chert- tan-wt, blocky, sub angular

Lm & Chert- A/A, pyrite inclusions in Lm

Sh- blk, carb

Sh- gray-brn, muddy red wash  
 Ss- gray, v.fn-fngrn, well sorted, well rounded

Lm- crm, v.fn-fnxln, foss, chalky in prt

Lm- A/A, mottled

Sh- brn, silty

Lm- crm, fnxln, foss

Sh- blk, carb

Lm- crm, fnxln, foss, chalky

Lm- crm, microxln, cherty

Lm- crm, fnxln, oolitic, scat pr w/ tr fr inoolitic-ppt por, few scat pcs w/ brn mod sat stn, FO drops in cup & bleeding from pores when heated, pr-no odor

Lm- crm, fnxln, foss, chalky, scat blocky- sub angular crm chert

**HEEBNER: SPL 3356' (-1124) LOG 3355' (-1123)**

Sh- blk, carb

Lm- tan, v.fnxln, foss, cherty

Sh- gray-brn, scat wt chert

**TORONTO: SPL 3380' (-1148) LOG 3379' (-1147)**

Lm- crm, fnxln, foss, scat tan-wt chert, fairly tight infoss por, even lt brn stn in por, sli sheen FO upon crush & FO drops in cup, gas bubbles when heated, fr odor

**LANSING: SPL 3397' (-1165) LOG 3395' (-1163)**

Lm- crm, v.fn-fnxln, foss, oolitic, scat tight inoolitic por, scat spotty lt. brn stn in por, fr sheen & FO drops in cup, fr odor

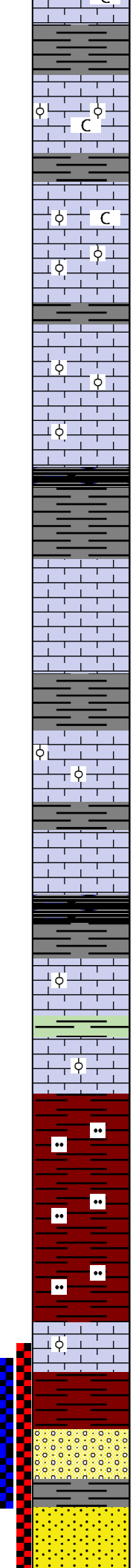
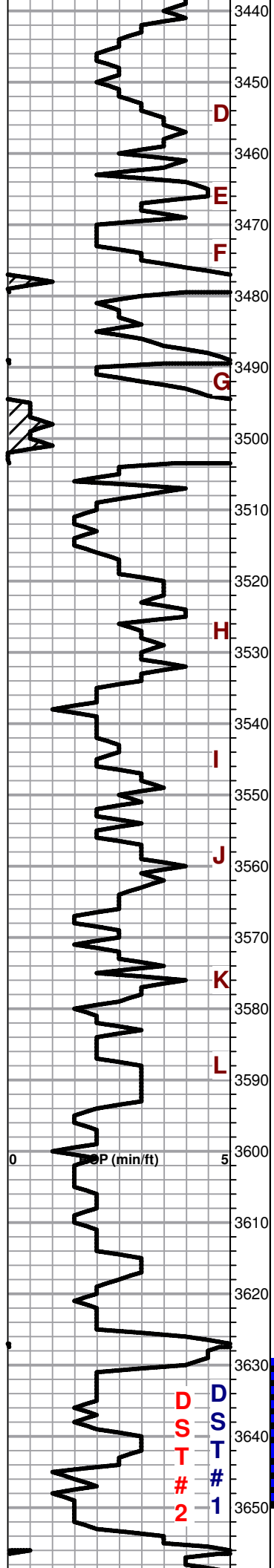
Lm- crm, v.fn-fnxln, oolitic in prt, cherty

Lm- A/A, barren

Sh- gray-brn-blk  
 Chert- tan, sub angular

Lm- crm, v.fn-fnxln, oolitic, chalky in prt, scat pr oolitic por, scat pr spotty lt brn stn in por, NSFO, no odor





Sh- brn-gray, muddy wash

Lm- crm, fnxln, oolitic, chalky in prt, scat pr inoolitic-ppt & tr vuggy por, scat pr lt brn stn in por, NSFO, no odor

Lm- crm, fnxln, oolitic, chalky in prt, scat pr inoolitic-ppt-vuggy por, scat pr lt brn stn in por, mod sheen & FO drops in cup, mod odor

Lm- crm, v.fn-fnxln, oolitic, cherty, scat mostly pr w/ 2-3 pcs fr inoolitic por, scat lt brn- brn stn, 2-3 pcs sli sat, few oil drops in cup, faint odor

Lm-crm, fnxln, oolitic, scat pr inoolitic & pr-fr oolitic & tr vuggy por, scat brn sli sat stn, fr SFO drops in cup, bleeding oil when heated, mod odor

Lm- crm, v.fn-fnxln  
Chert- tan, sub angular

Sh- blk,carb

Sh- gray

Lm- crm, v.fn-fnxln, foss in prt, cherty, scat pr infoss-ppt por, scat pr brn stn in por, NSFO, no odor

Sh- various color

Lm- crm, v.fn-fnxln, oolitic, cherty, scat pr tight inoolitic-ppt por, scat pr brn spotty stn in por, few FO drops in cup, faint odor

Lm- crm, v.fn-fnxln, cherty, scat pr ppt & tr vuggy por, scat brn stn in por, FO drops in cup, mod odor

Sh- blk, carb

Lm- crm, fnxln, oolitic, scat tight inoolitic por, scat spotty brn-blk stn in por, NSFO, no odor

Sh- green

Lm- crm, fnxln, oolitic, scat pr inoolitic-ppt por, few scat pcs w/ spotty brn stn in por, NSFO, pr-no odor  
**BKC: SPL 3593' (-1361) LOG 3591' (-1359)**

Sh- red-gray, silty, muddy red wash

Lm- crm, fnxln, oolitic, dense

Lm- crm, fnxln-mdgrn, sandy, scat pr-fr ingr & vuggy por, scat pr-fr brn sli sat stn, sli sheen FO in cup & spl, mod odor, abundance of pyrite

**GORHAM SAND: SPL 3650' (-1418) LOG 3648' (-1416)**

Lm- A/A, scat Ss clusters, qtz, clear-frosted, v. fn-mdgrn, mod sorting, mod rounding, fairly friable, blk flaky asphaltic stn, NSFO, no odor

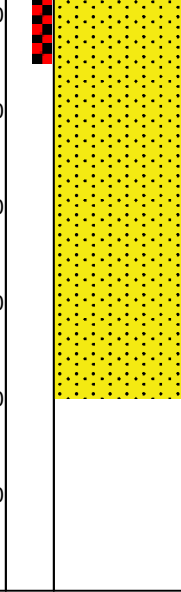
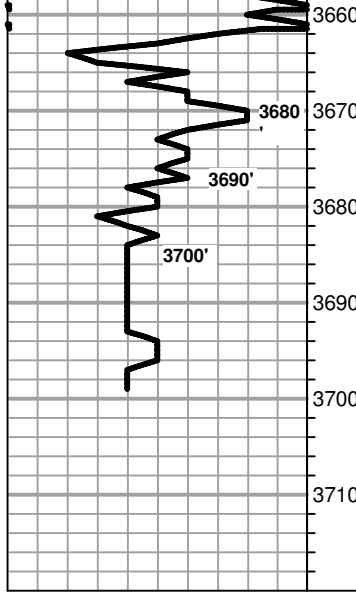
**REAGAN SAND: SPL 3653' (-1421) LOG 3654' (-1422)**

3653- Ss- A/A, few pcs w/ v. lt brn stn, v. sli odor

**DST #1**  
**3629'-3650' (REAGAN)**  
30-30-15

**10' M**  
SIP: 60#  
**FLUSHED AND PULLED**  
**TOOL 15 MIN INTO**  
**SECOND OPEN**

CFS @ 3645'  
CFS @ 3647'  
CFS @ 3650'  
CFS @ 3653'  
CFS @ 3656'  
CFS @ 3659'  
CFS @ 3663'



3656'- Ss- A/A

3659'- Ss- qtz, clear, fn-mdgrn, mod sorting, sub rounded, fairly tight ingrn por, mostly pr brn-blk stn, sheen FO upon crush, faint odor

3663'- Ss- qtz, clear, fn-coarsegrn, mod sorting, sub rounded, fairly tight ingrn por, fairly pr brn-blk stn, sheen FO in cup, spl & upon crush, mod odor

3680'- A/A, v. sli SFO, pr-no odor

D 3690'- Ss- A/A mod sheen FO in cup & spl, mod odor

3700'- Ss- A/A, mod sheen FO in cup & upon crush, pr-fr odor, quantity of shows began to lessen

3700' 60min- Ss- qtz, clear-frosted, fn-mdgrn, mod sorting, sub rounded, few pcs w/ blk flaky dead stn, NSFO, no odor

**RTD : SPL 3700' (-1468) LOG 3701' (-1469)**

CFS @ 3665'

**DST #2**  
**3627'-3665' (REAGAN)**  
 15-30-30-45

**440' OSMW**  
**1' O**  
 SIP: 924-893#

THERE WAS AN ABUNDANCE OF GRAY-RED SHALES & PYRITE IN ALL SAMPLES FROM 3645-RTD

OFF LOCATION @ 8 AM 10/21/22



## DRILL STEM TEST REPORT

Prepared For: **Fourwinds Oil Corp**

PO Box 1063  
Hays, KS 67601

ATTN: Cameron Brin

**Mary #1**

**28-5s-20w Phillips,KS**

Start Date: 2022.10.19 @ 17:12:00

End Date: 2022.10.20 @ 00:03:30

Job Ticket #: 69872                      DST #: 1

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

Printed: 2022.10.24 @ 08:44:30



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

Fourwinds Oil Corp

**28-5s-20w Phillips,KS**

PO Box 1063  
Hays, KS 67601

**Mary #1**

Job Ticket: 69872

**DST#: 1**

ATTN: Cameron Brin

Test Start: 2022.10.19 @ 17:12:00

## GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:05:45

Time Test Ended: 00:03:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Terrance

Unit No: 75

**Interval: 3629.00 ft (KB) To 3650.00 ft (KB) (TVD)**

Reference Elevations: 2232.00 ft (KB)

Total Depth: 3650.00 ft (KB) (TVD)

2224.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8320 Outside**

Press@RunDepth: 22.33 psig @ 3635.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.19 End Date: 2022.10.20

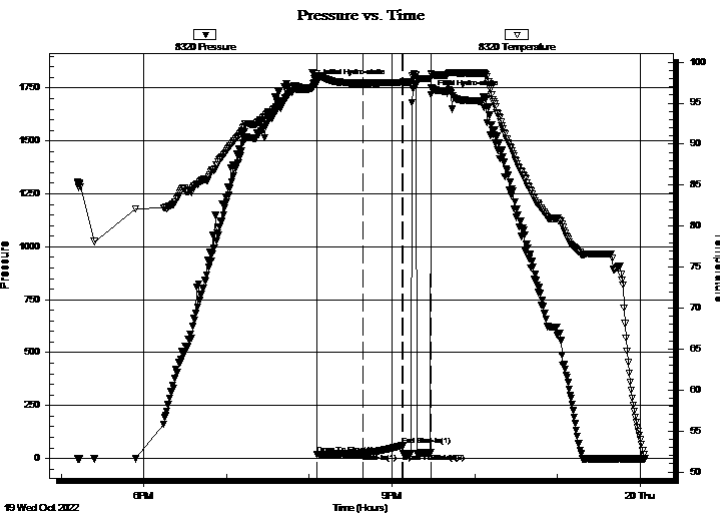
Last Calib.: 2022.10.20

Start Time: 17:12:05 End Time: 00:03:29

Time On Btm: 2022.10.19 @ 20:05:15

Time Off Btm: 2022.10.19 @ 21:28:15

TEST COMMENT: IF-30-1 Inch blow  
IS-30-No return  
FF-30-No blow ,flush tool and oull it .



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1769.52	98.61	Initial Hydro-static
1	18.93	98.25	Open To Flow (1)
34	22.33	97.44	Shut-In(1)
62	60.35	97.55	End Shut-In(1)
63	22.70	97.55	Open To Flow (2)
83	25.14	97.98	Shut-In(2)
83	1717.47	98.54	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

## Gas Rates

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



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Fourwinds Oil Corp

**28-5s-20w Phillips,KS**

PO Box 1063  
Hays, KS 67601

**Mary #1**

Job Ticket: 69872

**DST#: 1**

ATTN: Cameron Brin

Test Start: 2022.10.19 @ 17:12:00

## GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:05:45

Time Test Ended: 00:03:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Terrance

Unit No: 75

Interval: **3629.00 ft (KB) To 3650.00 ft (KB) (TVD)**

Reference Elevations: 2232.00 ft (KB)

Total Depth: 3650.00 ft (KB) (TVD)

2224.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8368** Inside

Press@RunDepth: psig @ 3635.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.19

End Date:

2022.10.20

Last Calib.:

1899.12.30

Start Time: 17:12:05

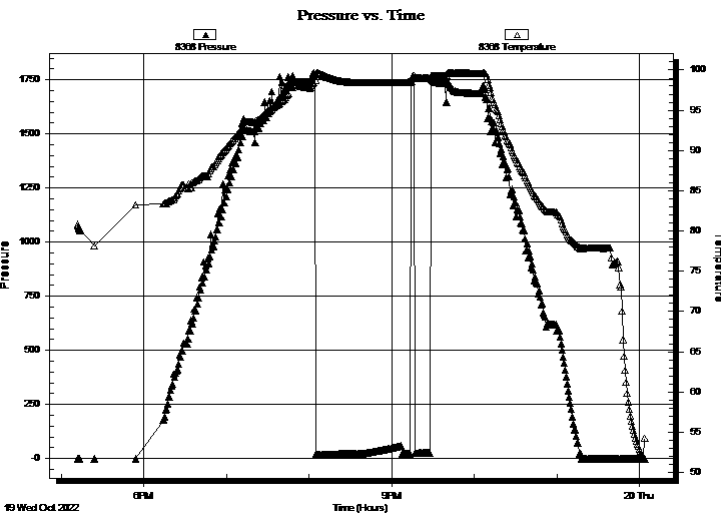
End Time:

00:03:44

Time On Btm:

Time Off Btm:

TEST COMMENT: IF-30-1 Inch blow  
IS-30-No return  
FF-30-No blow ,flush tool and oull it .



## PRESSURE SUMMARY

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

## Recovery

Length (ft)	Description	Volume (bbl)
10.00	Mud	0.05

## Gas Rates

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



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Fourwinds Oil Corp

**28-5s-20w Phillips,KS**

PO Box 1063  
Hays, KS 67601

**Mary #1**

Job Ticket: 69872

**DST#: 1**

ATTN: Cameron Brin

Test Start: 2022.10.19 @ 17:12:00

## Tool Information

Drill Pipe:	Length: 3603.00 ft	Diameter: 3.79 inches	Volume: 50.27 bbl	Tool Weight: 2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer: 25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 5.00 ft
Drill Pipe Above KB:	35.00 ft			String Weight: Initial 45000.00 lb
Depth to Top Packer:	3629.00 ft			Final 45000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3599.00	
Shut In Tool	5.00			3604.00	
Hydraulic tool	5.00			3609.00	
Jars	5.00			3614.00	
EM Tool	3.00			3617.00	
Safety Joint	3.00			3620.00	
Packer	5.00			3625.00	31.00 Bottom Of Top Packer
Packer	4.00			3629.00	
Stubb	1.00			3630.00	
Perforations	5.00			3635.00	
Recorder	0.00	8368	Inside	3635.00	
Recorder	0.00	8320	Outside	3635.00	
Perforations	12.00			3647.00	
Bullnose	3.00			3650.00	21.00 Bottom Packers & Anchor

**Total Tool Length: 52.00**



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Fourwinds Oil Corp

**28-5s-20w Phillips,KS**

PO Box 1063  
Hays, KS 67601

**Mary #1**

Job Ticket: 69872

**DST#: 1**

ATTN: Cameron Brin

Test Start: 2022.10.19 @ 17:12:00

### 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: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Mud	0.049

Total Length: 10.00 ft      Total Volume: 0.049 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



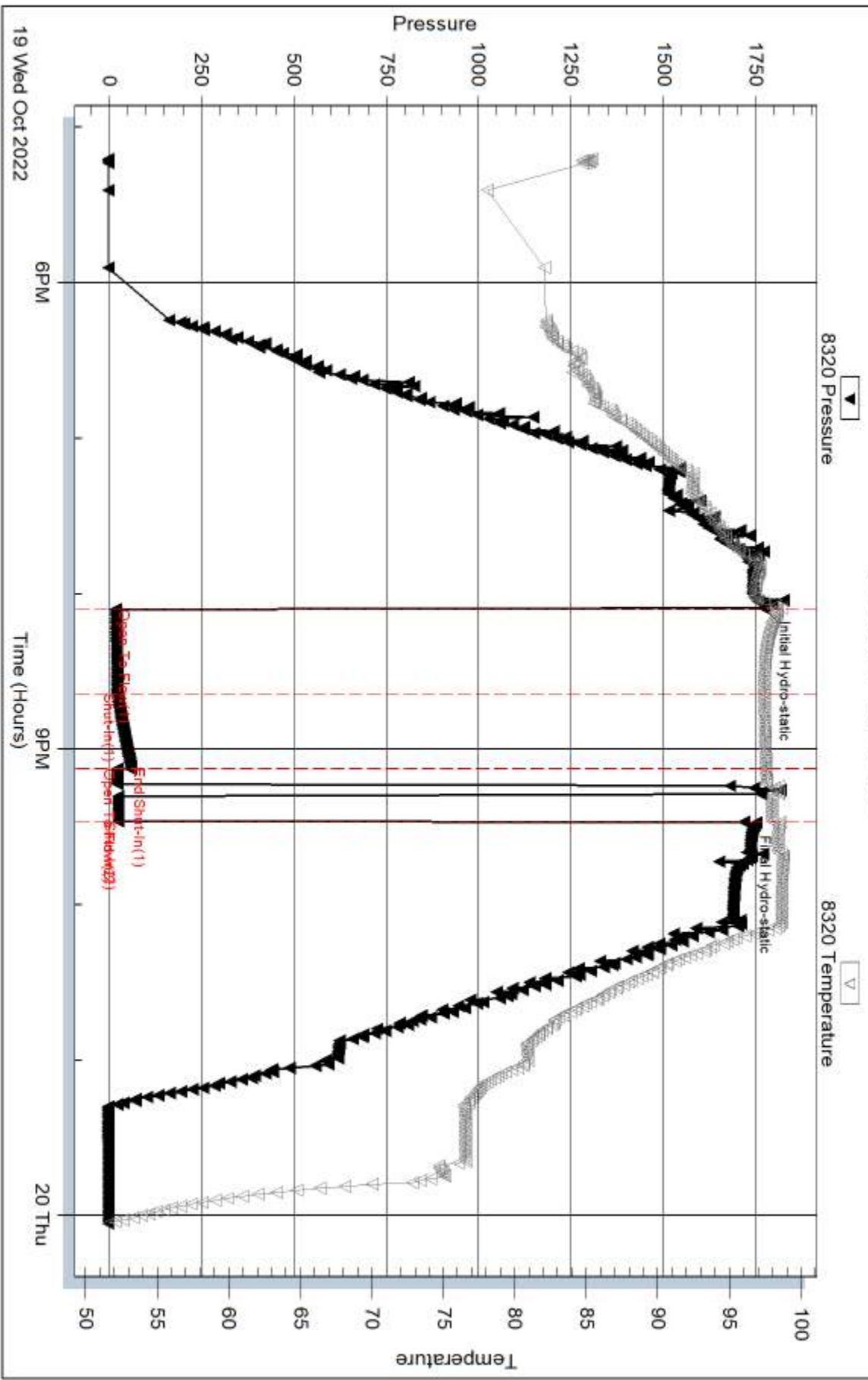
Serial #: 8320

Outside Fourwinds Oil Corp

May #1

DST Test Number: 1

### Pressure vs. Time



Tribble Testing, Inc

Ref. No: 69872

Printed: 2022.10.24 @ 08:44:30

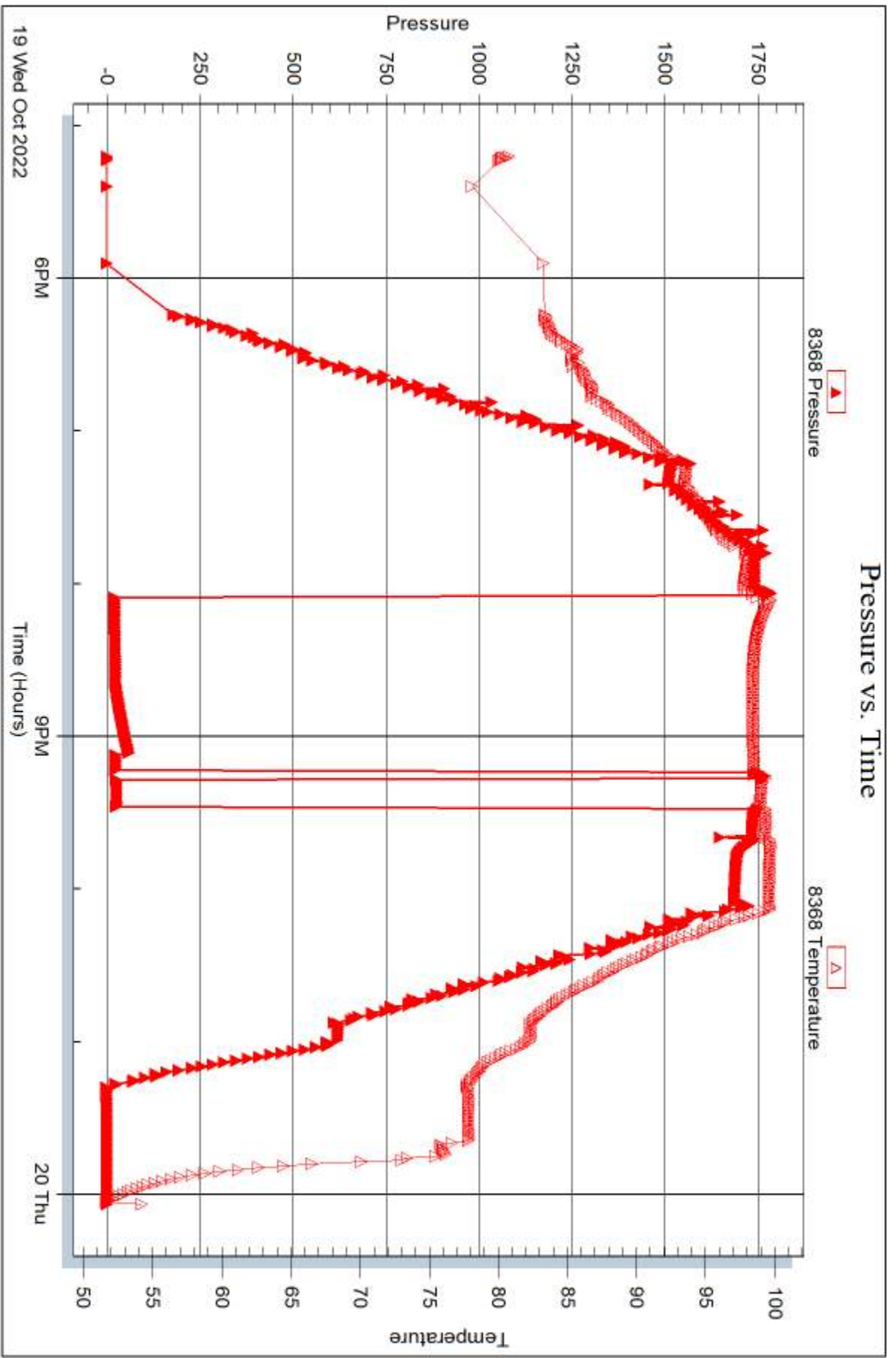
Serial #: 8368

Inside

Fourwinds Oil Corp

Mary #1

DST Test Number: 1



Trilobite Testing, Inc

Ref. No: 69872

Printed: 2022.10.24 @ 08:44:30



## DRILL STEM TEST REPORT

Prepared For: **Fourwinds Oil Corp**

PO Box 1063  
Hays, KS 67601

ATTN: Cameron Brin

**Mary #1**

**28-5s-20w Phillips,KS**

Start Date: 2022.10.20 @ 11:47:00

End Date: 2022.10.20 @ 18:18:00

Job Ticket #: 69873                      DST #: 2

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2022.10.24 @ 08:39:39



**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Fourwinds Oil Corp

**28-5s-20w Phillips,KS**

PO Box 1063  
Hays, KS 67601

**Mary #1**

Job Ticket: 69873

**DST#: 2**

ATTN: Cameron Brin

Test Start: 2022.10.20 @ 11:47:00

## GENERAL INFORMATION:

Formation: **Reagan Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:48:00

Time Test Ended: 18:18:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Terrance

Unit No: 75

Interval: **3627.00 ft (KB) To 3665.00 ft (KB) (TVD)**

Reference Elevations: 2232.00 ft (KB)

Total Depth: 3665.00 ft (KB) (TVD)

2224.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

**Serial #: 8320 Outside**

Press@RunDepth: 199.33 psig @ 3628.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2022.10.20 End Date: 2022.10.20

Last Calib.: 2022.10.20

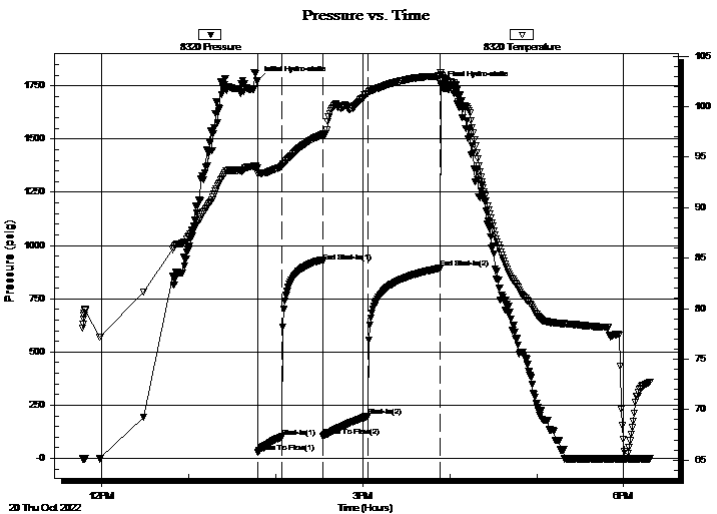
Start Time: 11:47:05 End Time: 18:17:59

Time On Btm: 2022.10.20 @ 13:47:45

Time Off Btm: 2022.10.20 @ 15:54:00

TEST COMMENT: IF-15-BOB In 7 min  
IS-30-No return  
FF-30-8 Inches  
FSI-45-No return

## PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1774.61	93.92	Initial Hydro-static
1	29.46	93.34	Open To Flow (1)
17	101.46	94.10	Shut-In(1)
45	924.67	97.26	End Shut-In(1)
45	104.91	97.06	Open To Flow (2)
76	199.33	101.32	Shut-In(2)
126	892.72	103.02	End Shut-In(2)
127	1752.00	103.17	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
440.00	OSMW 30%MUD 70%WATER	5.87

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

Fourwinds Oil Corp

**28-5s-20w Phillips,KS**

PO Box 1063  
Hays, KS 67601

**Mary #1**

Job Ticket: 69873

**DST#: 2**

ATTN: Cameron Brin

Test Start: 2022.10.20 @ 11:47:00

## Tool Information

Drill Pipe:	Length: 3599.00 ft	Diameter: 3.79 inches	Volume: 50.22 bbl	Tool Weight:	2500.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: inches	Volume: - bbl	Weight set on Packer:	25000.00 lb
Drill Collar:	Length: 30.00 ft	Diameter: 2.25 inches	Volume: 0.15 bbl	Weight to Pull Loose:	48000.00 lb
			<u>Total Volume:</u>	Tool Chased	ft
			- bbl	String Weight: Initial	45000.00 lb
Drill Pipe Above KB:	33.00 ft			Final	48000.00 lb
Depth to Top Packer:	3627.00 ft				
Depth to Bottom Packer:	ft				
Interval between Packers:	38.00 ft				
Tool Length:	69.00 ft				
Number of Packers:	2	Diameter: 6.88 inches			
Tool Comments:					

## Tool Description

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

Change Over Sub	1.00			3597.00	
Shut In Tool	5.00			3602.00	
Hydraulic tool	5.00			3607.00	
Jars	5.00			3612.00	
EM Tool	3.00			3615.00	
Safety Joint	3.00			3618.00	
Packer	5.00			3623.00	31.00 Bottom Of Top Packer
Packer	4.00			3627.00	
Stubb	1.00			3628.00	
Recorder	0.00	8368	Inside	3628.00	
Recorder	0.00	8320	Outside	3628.00	
Perforations	1.00			3629.00	
Change Over Sub	1.00			3630.00	
Drill Pipe	31.00			3661.00	
Change Over Sub	1.00			3662.00	
Bullnose	3.00			3665.00	38.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>69.00</b>				



**TRILOBITE  
TESTING, INC**

# DRILL STEM TEST REPORT

## FLUID SUMMARY

Fourwinds Oil Corp

**28-5s-20w Phillips,KS**

PO Box 1063  
Hays, KS 67601

**Mary #1**

Job Ticket: 69873

**DST#: 2**

ATTN: Cameron Brin

Test Start: 2022.10.20 @ 11:47:00

### 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: 32000 ppm

Viscosity: 56.00 sec/qt

Cushion Volume: bbl

Water Loss: 8.19 in<sup>3</sup>

Gas Cushion Type:

Resistivity: 0.24 ohm.m

Gas Cushion Pressure: psig

Salinity: 800.00 ppm

Filter Cake: 2.00 inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
440.00	OSMW 30%MUD 70%WATER	5.869

Total Length: 440.00 ft      Total Volume: 5.869 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

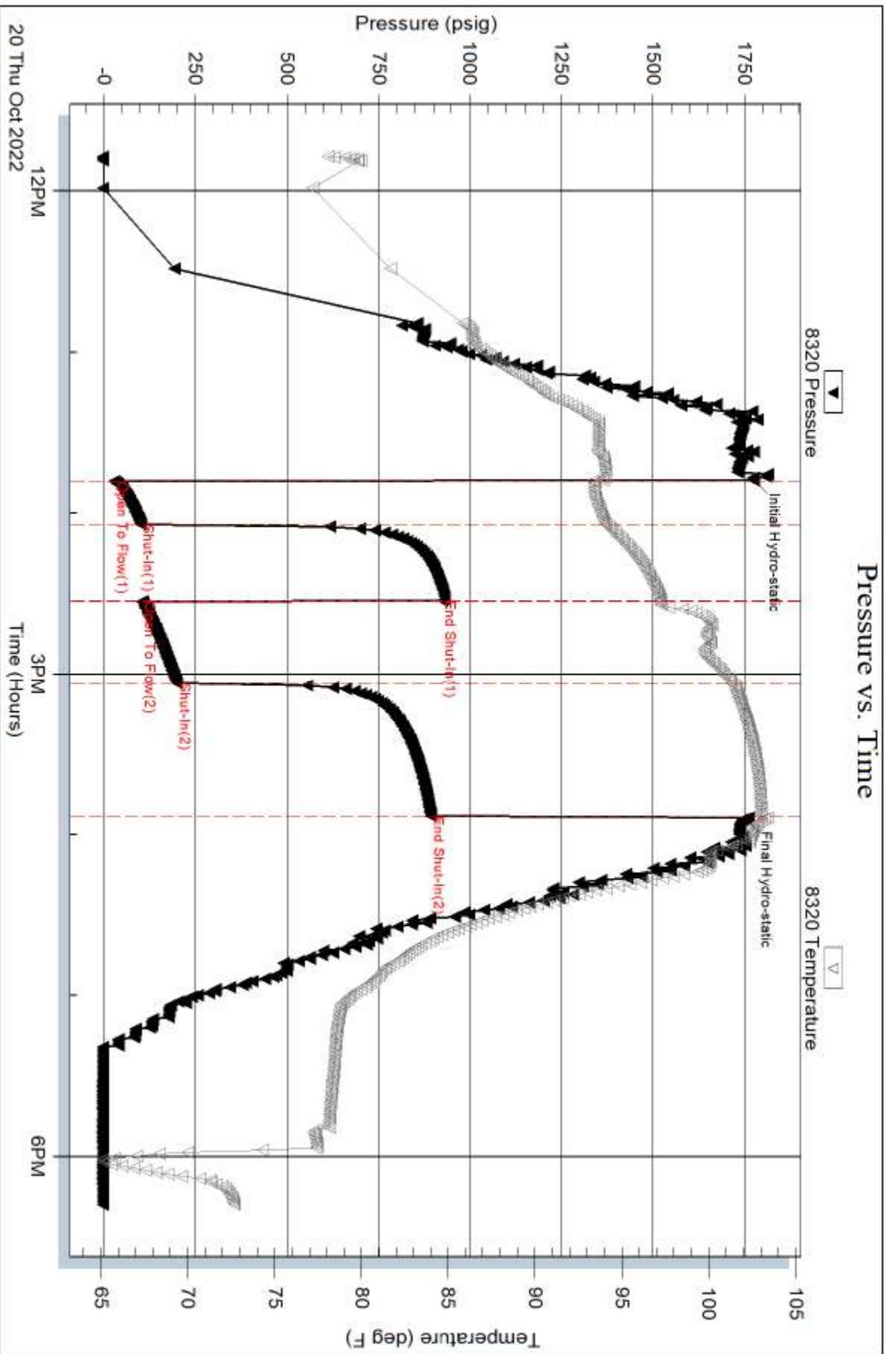
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





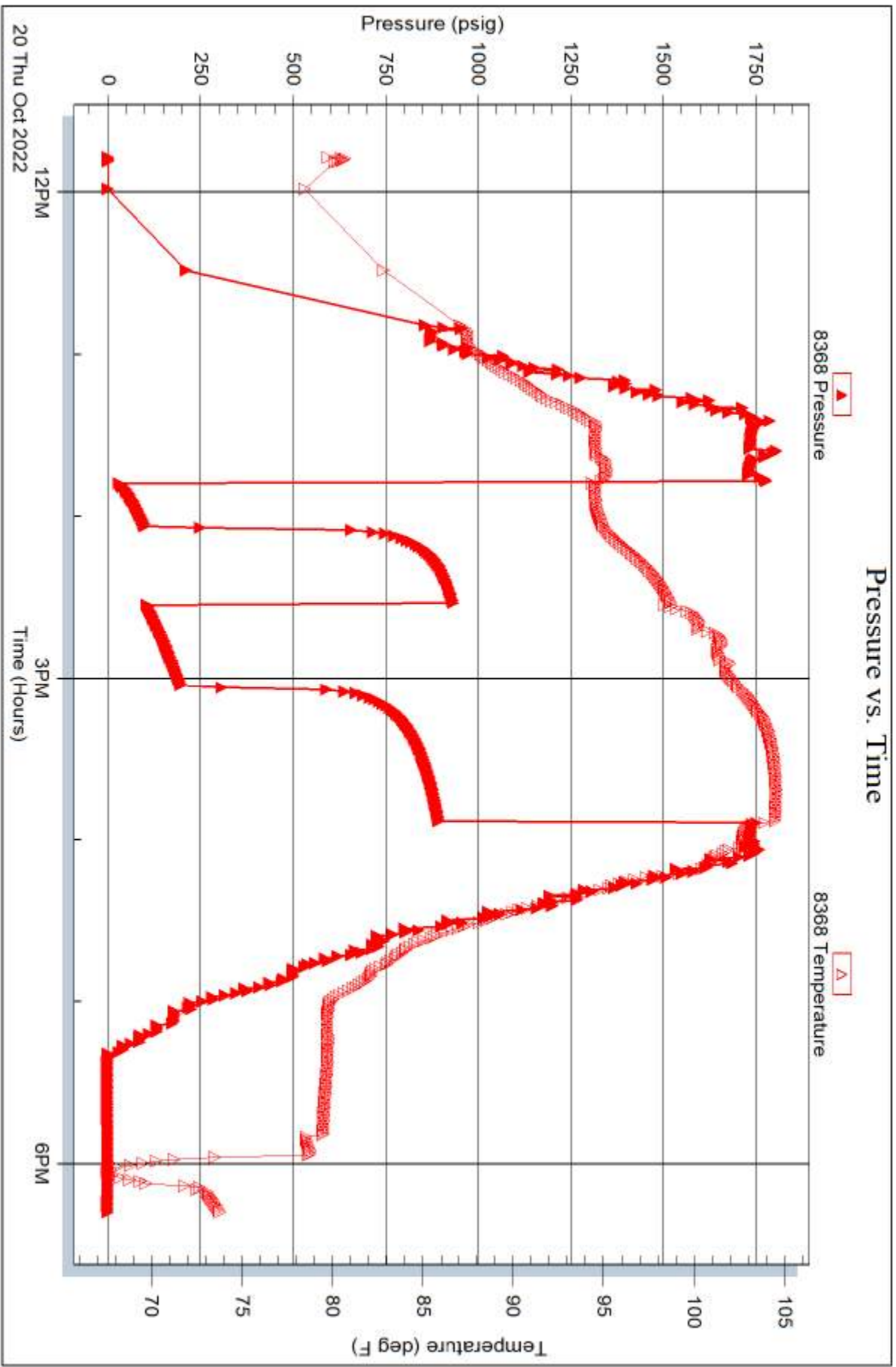
Serial #: 8368

Inside

Fourwinds Oil Corp

Mary #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 69873

Printed: 2022.10.24 @ 08:39:39



# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. 69872

Well Name & No. Mary #1 Test No. 1 Date 10-19-22  
 Company Sourwinds Oil Corp. Elevation 2232 KB 2224 GL  
 Address \_\_\_\_\_  
 Co. Rep / Geo. Cameron Brin Rig Discovery 4  
 Location: Sec. 28 Twp 5<sup>s</sup> Rge. 20w Co. Phillips State Ks

Interval Tested 3629-3650 Zone Tested Reagan Sand  
 Anchor Length 21 Drill Pipe Run 3603 Mud Wt. 9.0  
 Top Packer Depth 3624 Drill Collars Run 30 Vis 56  
 Bottom Packer Depth 3629 Wt. Pipe Run 60 WL 8.2  
 Total Depth 3650 Chlorides 800 ppm System LCM 2<sup>#</sup>  
 Blow Description FF-30- Lindh Blow  
FSI-30- No Return  
FF-30- No Blow flush tool and pull it

Rec	Feet of	%gas	%oil	%water	%mud
<u>10</u>	<u>Mud</u>			<u>100</u>	

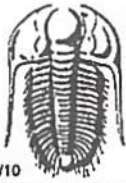
Rec Total 10 BHT 98.4 Gravity \_\_\_\_\_ API RW \_\_\_\_\_ @ \_\_\_\_\_ °F Chlorides \_\_\_\_\_ ppm

(A) Initial Hydrostatic 1770  Test 1800 T-On Location 1:00-1:500  
 (B) First Initial Flow 149  Jars \_\_\_\_\_ T-Started 17:12  
 (C) First Final Flow 22  Safety Joint \_\_\_\_\_ T-Open 20:07  
 (D) Initial Shut-In 60  Circ Sub \_\_\_\_\_ T-Pulled 21:37  
 (E) Second Initial Flow 23  Hourly Standby \_\_\_\_\_ T-Out 24:05  
 (F) Second Final Flow \_\_\_\_\_  Mileage 68 x 2 204 Comments \_\_\_\_\_  
 (G) Final Shut-In \_\_\_\_\_  Sampler \_\_\_\_\_  
 (H) Final Hydrostatic 1717  Straddle \_\_\_\_\_  
 Shale Packer \_\_\_\_\_  EM Tool \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total 0  
 Accessibility \_\_\_\_\_ Total 2004  
 Sub Total 2004 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative [Signature]

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.





# TRILOBITE TESTING INC.

1515 Commerce Parkway • Hays, Kansas 67601

## Test Ticket

NO. **69873**

Well Name & No. Mary #1 Test No. 2 Date 10-20-22  
 Company Fourwinds Oil Corp Elevation 2232 KB 2224 GL  
 Address P.O. Box 1063 Hays, KS. 67601  
 Co. Rep / Geo. Cameron Brin Rig Discovery 4  
 Location: Sec. 28 Twp 5S Rge. 20W Co. Phillips State Ks

Interval Tested 3627-3665 Zone Tested Reagan Sand  
 Anchor Length 21 Drill Pipe Run 3599 Mud Wt. 9.0  
 Top Packer Depth 3622 Drill Collars Run 30 Vis 54  
 Bottom Packer Depth 3627 Wt. Pipe Run \_\_\_\_\_ WL 8.2  
 Total Depth 3665 Chlorides 800 ppm System LCM \_\_\_\_\_  
 Blow Description IF-15- Bob in 7min  
IST-30- No Return  
FF-30- 8 inches  
SSI-45- No Return

Rec	Feet of	%gas	%oil	%water	%mud
<u>440</u>	<u>0.5 MW</u>			<u>70</u>	<u>30</u>
<u>1'</u>			<u>100</u>		

Rec Total 441 BHT 103 Gravity \_\_\_\_\_ API RW .24 @ 75 F Chlorides 32,000 ppm  
 (A) Initial Hydrostatic 1775  Test 1800 T-On Location 11:30  
 (B) First Initial Flow 29  Jars \_\_\_\_\_ T-Started 11:47  
 (C) First Final Flow 101  Safety Joint \_\_\_\_\_ T-Open ~~11:48~~ 13:48  
 (D) Initial Shut-In 924  Circ Sub \_\_\_\_\_ T-Pulled ~~3:48~~ 15:48  
 (E) Second Initial Flow 105  Hourly Standby \_\_\_\_\_ T-Out 18:20  
 (F) Second Final Flow 199  Mileage 68 x 2  408 Comments \_\_\_\_\_  
 (G) Final Shut-In 893  Sampler \_\_\_\_\_ loaded tools 10/21 6:00  
 (H) Final Hydrostatic 1759  Straddle \_\_\_\_\_  EM Tool -175  
 Shale Packer \_\_\_\_\_  Ruined Shale Packer \_\_\_\_\_  
 Extra Packer \_\_\_\_\_  Ruined Packer \_\_\_\_\_  
 Extra Recorder \_\_\_\_\_  Extra Copies \_\_\_\_\_  
 Day Standby \_\_\_\_\_ Sub Total -175  
 Accessibility \_\_\_\_\_ Total 2033  
 Sub Total 2208 MP/DST Disc't \_\_\_\_\_

Approved By \_\_\_\_\_ Our Representative J. Wil

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.

# 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. 3256

Date	10-15-22	Sec.	28	Twp.	S	Range	20	County	Phillips	State	KS	On Location		Finish	10:15 PM
------	----------	------	----	------	---	-------	----	--------	----------	-------	----	-------------	--	--------	----------

Location STOCKTON 11 N TO COZY COVE RD

Lease	MARY	Well No.	1	Owner	ISW
Contractor	Discovery 4	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	Charge To <u>FOUR WINDS Oil</u>			
Hole Size	12 1/4	T.D.	221	Street	
Csg.	8 3/8	Depth		City	State
Tbg. Size		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Tool		Depth		Cement Amount Ordered <u>180M 80/20 3-2</u>	
Cement Left in Csg.	15	Shoe Joint			
Meas Line		Displace	13		

**EQUIPMENT**

Pumptrk	16	No.	Cementer	Bill	Common	145
			Helper		Poz. Mix	35
Bulktrk		No.	Driver	RICK	Gel.	3
			Driver		Calcium	7
Bulktrk	15	No.	Driver	ROSS		

**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	
		Sand	
		Handling	190
		Mileage	<del>62</del>

SURFACE SET 220  
CENTY 180M  
PUMP PLUG W/ 13 BBLs  
CEMENT DID CIR

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	SURFACE
Mileage	62

X Signature Ry. Seach

Thanks

Tax	
Discount	
Total Charge	



# 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. 3264

Date	10-21-22	Sec.	28	Twp.	5	Range	20	County	Phillips	State	KS	On Location		Finish	2:15 PM
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Lease **MARY** Well No. **1** Location **Stockton 11 W 15 W**

Contractor **Discovery** Owner To Quality Oilwell Cementing, Inc.  
Type Job **PTA** You are hereby requested to rent cementing equipment and furnish  
Hole Size **7 7/8** Charge To **Four Winds Oil Co.**  
Csg. T.D. Depth Street  
Tbg. Size Depth City State  
Tool Depth

The above was done to satisfaction and supervision of owner agent or contractor.  
Cement Amount Ordered **305 6/40-4**  
Meas Line Displace **1/4 # Flo seal**

**EQUIPMENT**  
Pumptrk **17** No. Cementer Helper **Bill** Common **183**  
Bulktrk No. Driver **Will** Poz. Mix **120/22**  
Bulktrk **21** No. Driver Driver **Ross** Gel. **11**  
Calcium

**JOB SERVICES & REMARKS**  
Remarks:  
Rat Hole **30**  
Mouse Hole **15**  
Centralizers  
Baskets  
D/V or Port Collar

Handling **316**  
Mileage  
**FLOAT EQUIPMENT**  
Guide Shoe  
Centralizer  
Baskets  
AFU Inserts  
Float Shoe  
Latch Down  
**wood plug-1**

3629 - 50 dy  
1780 - 50 dy  
1230 - 100 dy  
270 - 50 dy  
40 - 10 dy

Pumptrk Charge **plug**  
Mileage **62**

**Thanks**

Tax  
Discount

Total Charge

X Signature **Ryan J. Joshi**