

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
--	---

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
---	---	------------------------------------

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:	
----------------	-------	---------	------------	--



Scale 1:240 Imperial

Well Name: MARY A UNIT #1
Surface Location: NE NE NW NW Sec. 28, T5S, R20W
Bottom Location:
API: 15-147-20756
License Number: 34916
Spud Date: 4/6/2021 Time: 4:30 PM
Region: PHILLIPS COUNTY
Drilling Completed: 4/10/2021 Time: 2:00 PM
Surface Coordinates: 150' FNL & 1250' FWL
Bottom Hole Coordinates:
Ground Elevation: 2221.00ft
K.B. Elevation: 2229.00ft
Logged Interval: 3080.00ft To: 3641.00ft
Total Depth: 3641.00ft
Formation: GORHAM/ ARBUCKLE/ REAGAN
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: MARY A UNIT #1
Location: NE NE NW NW Sec. 28, T5S, R20W
API: 15-147-20756
Pool: State: KS Field: RAY
Country:

LOGGED BY

Company:
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: 4/6/2021 Time: 4:30 PM
TD Date: 4/10/2021 Time: 2:00 PM
Rig Release: 4/11/2021 Time: 7:15 AM

SURFACE CO-ORDINATES


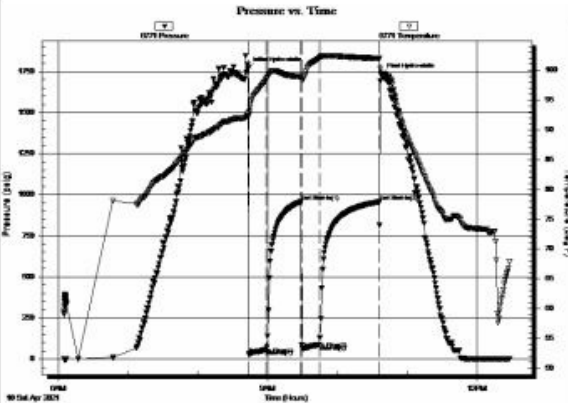
Well Type: Vertical
Longitude: -97.59592
Latitude: 39.59592
N/S Co-ord: 150' FNL
E/W Co-ord: 1250' FWL

ELEVATIONS

NOTES

THE MARY A UNIT #1 RAN STRUCTURALLY AS ANTICIPATED. DUE TO POSITIVE RESULTS IN DST #1, DECISION WAS MADE TO RUN 5 1/2" PRODUCTION CASING TO FURTHER EVALUATE THE MARY A UNIT #1 WELL.

DST #1 GORHAM SAND- ARBUCKLE (3625-3641)

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT																																						
	Fourwinds Oil Corp. PO Box 1063 Hays, KS 67601 ATTN: Cameron Brin	28-5s-20w Phillips, KS Mary A Unit #1 Job Ticket: 66512 DST#: 1 Test Start: 2021.04.10 @ 06:05:00																																					
GENERAL INFORMATION:																																							
Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 08:43:36 Time Test Ended: 12:28:06		Test Type: Conventional Bottom Hole (Initial) Tester: James Winder Unit No: 73																																					
Interval: 3625.00 ft (KB) To 3641.00 ft (KB) (TVD) Total Depth: 3641.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 2228.00 ft (KB) 2220.00 ft (CF) KB to GR/CF: 8.00 ft																																					
Serial #: 6771 Inside																																							
Press@RunDepth: 88.85 psig @ 3626.00 ft (KB) Start Date: 2021.04.10 End Date: 2021.04.10 Start Time: 06:05:01 End Time: 12:28:06		Capacity: 8000.00 psig Last Calib.: 2021.04.10 Time On Btm: 2021.04.10 @ 08:43:21 Time Off Btm: 2021.04.10 @ 10:37:51																																					
TEST COMMENT: 15 - IF: Blow built to BOB (11") at 12 1/2 min., built to 14" 30 - IS: Blow back built to 1" 15 - FF: Blow built to BOB at 11 min., built to 17" 45 - FS: Blow back built to 1 1/4"																																							
Pressure vs. Time 		PRESSURE SUMMARY																																					
		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1769.50</td><td>92.79</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>28.02</td><td>92.21</td><td>Open To Flow (1)</td></tr> <tr><td>16</td><td>57.03</td><td>98.54</td><td>Shut-in(1)</td></tr> <tr><td>46</td><td>957.69</td><td>98.87</td><td>End Shut-in(1)</td></tr> <tr><td>47</td><td>63.14</td><td>98.31</td><td>Open To Flow (2)</td></tr> <tr><td>61</td><td>88.85</td><td>102.02</td><td>Shut-In(2)</td></tr> <tr><td>113</td><td>956.57</td><td>101.95</td><td>End Shut-in(2)</td></tr> <tr><td>115</td><td>1730.41</td><td>99.32</td><td>Final Hydro-static</td></tr> </tbody> </table>		Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1769.50	92.79	Initial Hydro-static	1	28.02	92.21	Open To Flow (1)	16	57.03	98.54	Shut-in(1)	46	957.69	98.87	End Shut-in(1)	47	63.14	98.31	Open To Flow (2)	61	88.85	102.02	Shut-In(2)	113	956.57	101.95	End Shut-in(2)	115	1730.41	99.32	Final Hydro-static
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																																				
0	1769.50	92.79	Initial Hydro-static																																				
1	28.02	92.21	Open To Flow (1)																																				
16	57.03	98.54	Shut-in(1)																																				
46	957.69	98.87	End Shut-in(1)																																				
47	63.14	98.31	Open To Flow (2)																																				
61	88.85	102.02	Shut-In(2)																																				
113	956.57	101.95	End Shut-in(2)																																				
115	1730.41	99.32	Final Hydro-static																																				
Recovery		Gas Rates																																					
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>160.00</td> <td>GMCO 59%o, 28%m, 13%g</td> <td>1.96</td> </tr> <tr> <td>35.00</td> <td>CGO 86%o, 14%g</td> <td>0.49</td> </tr> <tr> <td>0.00</td> <td>GIP = 250'</td> <td>0.00</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Length (ft)	Description	Volume (bbl)	160.00	GMCO 59%o, 28%m, 13%g	1.96	35.00	CGO 86%o, 14%g	0.49	0.00	GIP = 250'	0.00							<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)															
Length (ft)	Description	Volume (bbl)																																					
160.00	GMCO 59%o, 28%m, 13%g	1.96																																					
35.00	CGO 86%o, 14%g	0.49																																					
0.00	GIP = 250'	0.00																																					
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																					

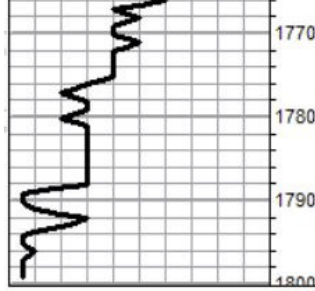
Trilobite Testing, Inc

Ref. No: 66512

Printed: 2021.04.12 @ 08:36:38

ANHYDRITE





BASE: SPL 1787' (+442) LOG 1786' (+443)

TOPS COMPARISON

FORMATION	MARY A UNIT #1				VEHIGE B #3 CITES SERVICES				D&A 6/25/55 VEHIGE B #4 CITES SERVICES				P&A 10/6/16 HANSEN #1 JOHN O. FARMER				D&A 10/24/43 HANSEN FEE #2 DANE G. HANSEN TRUST											
	KB 2229		GL 2221		DF		2200		DF		2203		KB		2195		2171											
	LOG TOPS		SAMPLE TOPS		COMP CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		STRIP LOG		LOG		SMPL.							
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.				
ANHYDRITE TOP	1757	472	1759	470	1722	478	-	6	-	8																		
BASE	1786	443	1787	442																								
TOPEKA	3157	-928	3159	-930																								
HEEBNER SHALE	3351	-1122	3354	-1125	3317	-1117	-	5	-	8											3314	-1143	+	21	+	18		
TORONTO	3375	-1146	3374	-1145																		3343	-1172	+	26	+	27	
LKC	3393	-1164	3394	-1165	3358	-1158	-	6	-	7	3355	-1152	+	6	+	7	3348	-1153	+	7	+	8	3353	-1182	+	18	+	17
BKC	3585	-1356	3587	-1358																		3560	-1365	+	9	+	7	
GORHAM SAND			3636	-1407	3601	-1401																3626	-1423					
ARBuckle			3639	-1410	3604	-1404																3611	-1416					
REAGAN SAND																						3618	-1423					
GRANITE WASH																												
TOTAL DEPTH	3636	-1407	3641	-1412	3617	-1417	+	10	+	5	3710	-1507	+	100	+	95	3688	-1493	+	86	+	81	3660	-1489	+	82	+	77

ROCK TYPES

	Dolprim		shale, grn		Carbon Sh		Ss
	Lmst fw7>		shale, gry		shale, red		

ACCESSORIES

MINERAL

* Sandy

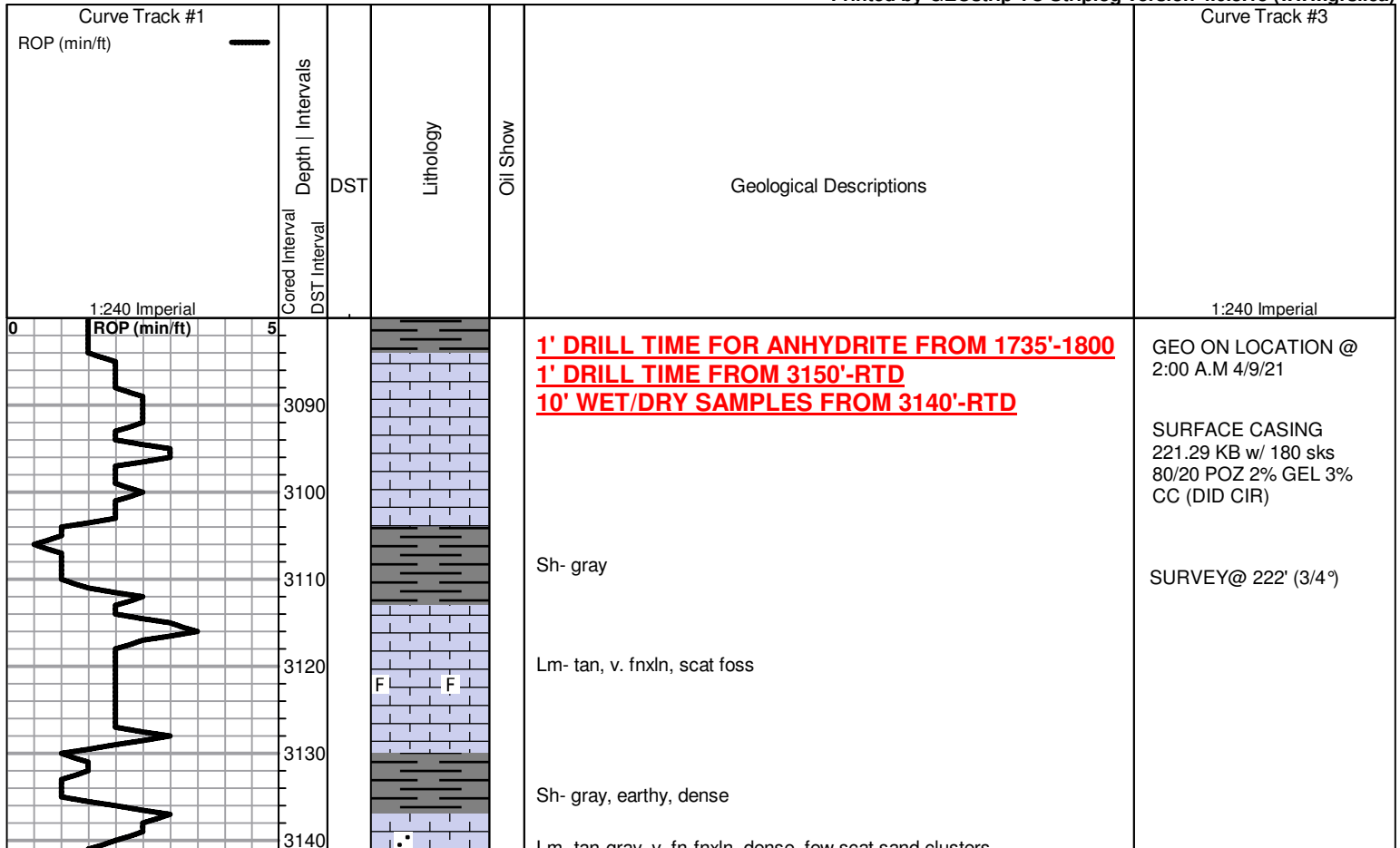
FOSSIL

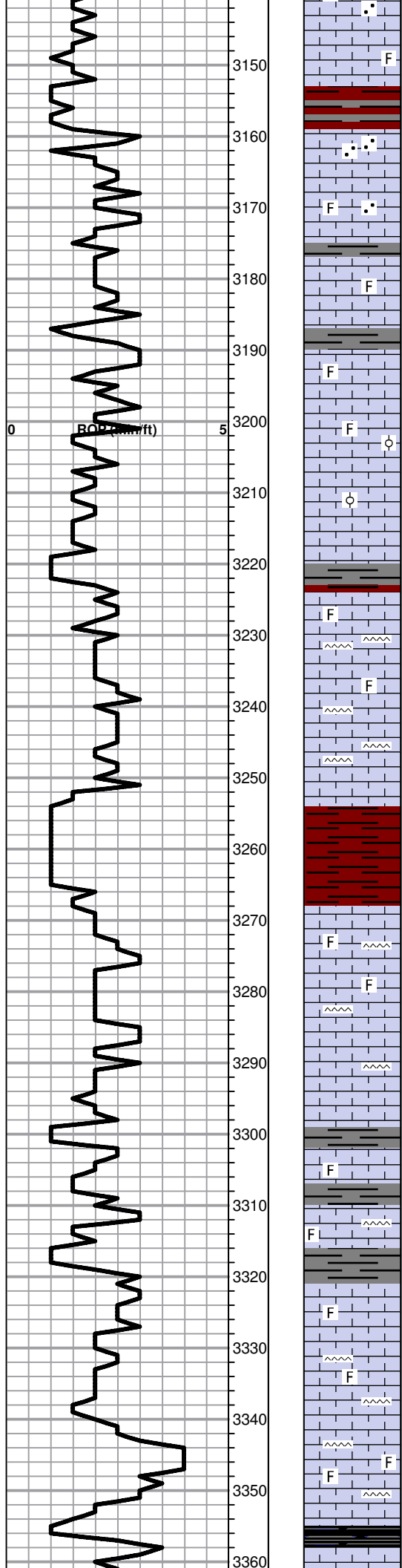
F Fossils < 20%
φ Oolite

STRINGER

~ Chert
 Conglomerate
 carb shale

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





Lm- tan-gray, v. fn-fnxln, dense, few scat sand clusters

Lm- crm-gray, v. fn-fnxln, scat foss

Sh- red-gray, sli. muddy red wash

TOPEKA: SPL 3159' (-930) LOG 3157' (-928)

Lm- crm, v. fn-fnxln, sli blocky, scat sandy

Lm- crm-gry, v. fn-fnxln, foss, scat sandy

Sh- gray, earthy

Lm- crm-gry-tan, v.fn-fnxln, scat foss, 1-2 pcs pr inxln por, pr lt brn strn, NSFO, no odor

Sh- blk-gray

Lm- gray-tan, v.fn-fnxln scat foss, scat v. pr inxln por, NSO

Lm- crm-tan, v.fn-fnxln, foss, scat oolitic

Lm- crm-tan, v. fn-fnxln, scat foss, few pcs pr inxln por, NSO

Sh- red, gray, blk

Lm- crm-gray, v.fn-fnxln, scat foss, scat wt chert, chalky in prt

Lm- gray-tan, v.fn-fnxln, scat foss, scat wt- orange chert

Lm- gray-tan, v.fn-fnxln, scat angular wt chert

Lm- crm, fnxln, foss throughout, mostly dnse, some scat chalky, scat angular wt chert

Sh- blk, green, red, muddy red wash

Lm- crm- lt. gray, v.fn-fnxln, foss in prt, sli cherty

Lm- crm, A/A

Sh- gray,blk

Lm- crm- gray, fnxln, scat foss, few scat pcs pr inxln por, NSO

Lm- crm, fnxln, scat foss, scat chert, 2 pcs pr-fr inxln-infoss por, pr brn strn, NSFO, sli- no odor

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

Lm- crm- tan, fnxln, foss throughout, scat lt brn foss chert

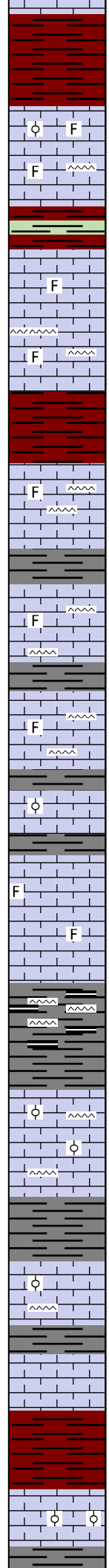
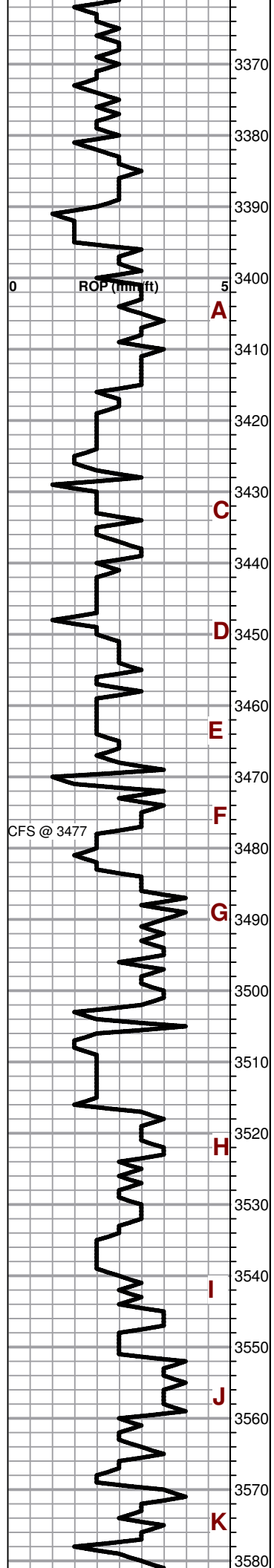
Lm- crm, v.fnxln, scat foss, mostly dnse

HEEBNER: SPL 3354' (-1125) LOG 3351' (-1122)

Sh- blk, carb

70 VIS
8.5 WT

68 VIS
8.5 WT



Lm- crm, v.fnxln, scat foss, cherty in prt

TORONTO: SPL 3374' (-1145) LOG 3375' (-1146)

Lm- crm, fnxln, foss, oolitic, scat pcs w/ pr-fr inxln-infoss por, pr lt brn stn, sli sheen FO upon crush and in cup, sli odor

Lm- crm, fnxln, foss, mostly dnse, scat chert

Sh- green-red, red muddy wash

LKC: SPL 3395' (-1166) LOG 3394' (-1165)

Lm- crm, v.fn-fnxln, foss in prt, 8-10 pcs w/ pr inxln-infoss por, pr brn stn, v. sli sheen FO in cup, sli-no odor

Lm- crm- v.fn-fnxln, scat foss, cherty in prt, few scat pcs w/ pr infoss por, NSO

Sh- red-brn, gray

Lm- crm, fnxln, foss, scat chert, chalky in prt, scat pcs w/ pr inxln-infoss por, pr lt brn stn, sli SFO in cup, fr odor

Sh- brn

Lm- crm, v. fn-fnxln, scat foss, chert throughout, few scat pcs pr- 2-3 fr inxln por, pr lt brn stn, sli SFO in cup, sli odor

Lm- crm, fnxln, scat foss, scat chert, scat pr inxln por, pr lt brn stn, sli SFO in cup, sli odor

Lm- crm, fnxln, foss, oolitic, scat pr w/ few pcs fr inoolitic por, pr w/ few pcs fr brn stn, SFO in cup, gas bubbles in few pcs when heated, fr odor

Lm- crm, v.fn-fnxln foss in prt, scat pr w/ few pcs fr inxln por, few scat small vuggs, pr w/ few pcs fr brn stn, SFO in cup, pr-fr odor

Lm- crm, v.fn-fnxln, scat foss, mostly barren, 2-3 pcs pr-fr inxln por, pr brn stn, NSFO, sli odor

Chert- wt, angular
Sh- black

Lm- crm-gray, fnxln, scat foss, oolitic in prt, scat pcs pr w/ few fr inoolitic-inxln por, pr brn stn, sli sheen FO in cup, sli odor

Lm- crm, fnxln, oolitic in prt, scat wt-orange chert, scat pr inoolitic por, pr brn stn, sli she FO in cup, pr odor

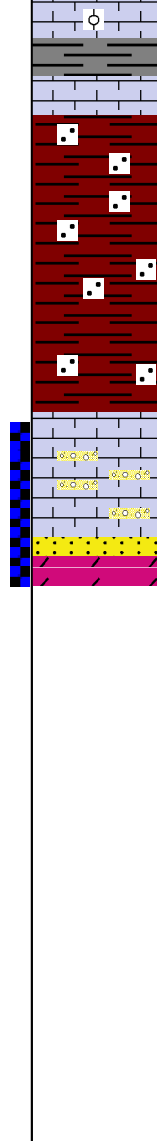
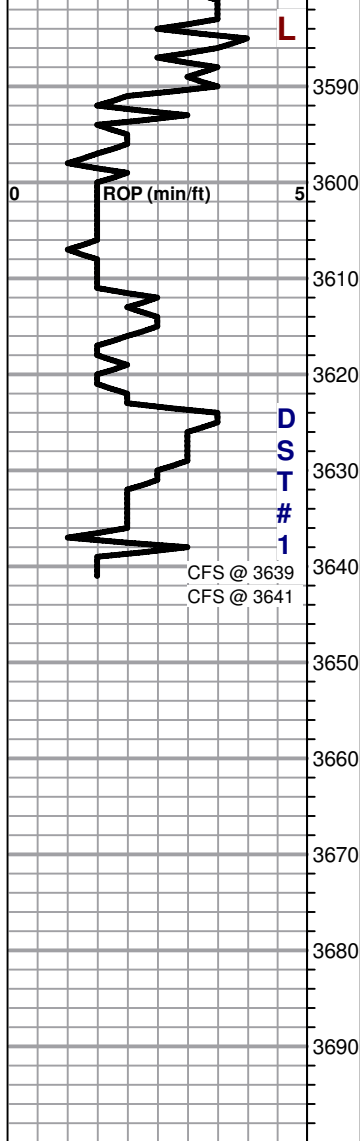
Lm- tan, v. fn-fnxln, foss, oolitic in prt, scat chert, v. pr infoss-inxln por, NSO

Lm-crm, fnxln, scat pr-fr inxln por, pr- sli fr brn stn, pr-fr FO sheen in cup, fr odor

Sh- red muddy wash

Lm-crm, fnxln, scat foss, scat pr inxln-inoolitic por, v. pr brn stn, NSFO, pr odor

Sh- gray, red



Lm- crm, v. fnxln-fnxln, oolitic, few scat pcs w/ pr infoss por, NSO
BKC: SPL 3587' (-1358) LOG 3585' (-1356)

Sh- red, gray, muddy wash, sandy, trashy

A/A

A/A

Lm- brn-crm, fnxln-mdgrn, mostly dnse, conglomerate in part

GORHAM SAND: SPL 3636' (-1407)

Ss- wt, fngrn, mix of calcite and dolomitic cementation, mostly tight and well consolidated, well rounded, fr FO sheen in spl, gd odor

ARBUCKLE: 3639' (-1410)

Dolo-wt, fnxln-fngrn, glaucanite inclusions throughout, few scat small rhombic crystals, pr-fr inxln por, scat fr brn stn, scat fr sat, fr-gd SFO in spl and cup, gas bubbles when heated, gd odor

RTD: SPL 3641' (-1412) LOG 3636' (-1407)

THERE WAS APPROXIMATELY 3-4' OF FILL ON THE BOTTOM OF THE HOLE CAUSING THE LOGGING TOOL TO LAND SHORT OF RTD

SURVEY @ 3641' (1°)

GEO OFF LOCATION @ 7:30 PM 4/10/21



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Fourwinds Oil Corp.

28/5s/20w Phillips KS

PO Box 1063
Hays, KS 67601

Mary A Unit #1

Job Ticket: 66512

DST#: 1

ATTN: Cameron Brin

Test Start: 2021.04.10 @ 06:05:00

GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 08:43:36

Time Test Ended: 12:28:06

Test Type: Conventional Bottom Hole (Initial)

Tester: James Winder

Unit No: 73

Interval: 3625.00 ft (KB) To 3641.00 ft (KB) (TVD)

Reference Elevations: 2228.00 ft (KB)

Total Depth: 3641.00 ft (KB) (TVD)

2220.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 8.00 ft

Serial #: 6771 Inside

Press@RunDepth: 88.85 psig @ 3626.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2021.04.10 End Date: 2021.04.10

Last Calib.: 2021.04.10

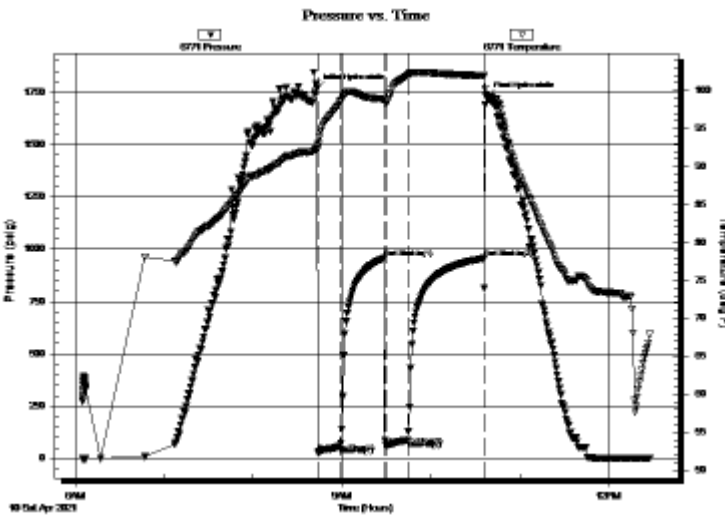
Start Time: 06:05:01 End Time: 12:28:06

Time On Btm: 2021.04.10 @ 08:43:21

Time Off Btm: 2021.04.10 @ 10:37:51

TEST COMMENT: 15 - IF: Blow built to BOB (11") at 12 1/2 min., built to 14"
30 - IS: Blow back built to 1"
15 - FF: Blow built to BOB at 11 min., built to 17"
45 - FS: Blow back built to 1 1/4"

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1769.50	92.79	Initial Hydro-static
1	28.02	92.21	Open To Flow (1)
16	57.03	98.54	Shut-In(1)
46	957.69	98.87	End Shut-In(1)
47	63.14	98.31	Open To Flow (2)
61	88.85	102.02	Shut-In(2)
113	956.57	101.95	End Shut-In(2)
115	1730.41	99.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
160.00	GMCO 59%o, 28%m, 13%g	1.96
35.00	CGO 86%o, 14%g	0.49
0.00	GIP = 250'	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Fourwinds Oil Corp.

28/5s/20w Phillips KS

PO Box 1063
Hays, KS 67601

Mary A Unit #1

Job Ticket: 66512

DST#: 1

ATTN: Cameron Brin

Test Start: 2021.04.10 @ 06:05:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

30.8 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.98 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
160.00	GMCO 59%o, 28%m, 13%g	1.962
35.00	CGO 86%o, 14%g	0.491
0.00	GIP = 250'	0.000

Total Length: 195.00 ft Total Volume: 2.453 bbl

Num Fluid Samples: 0

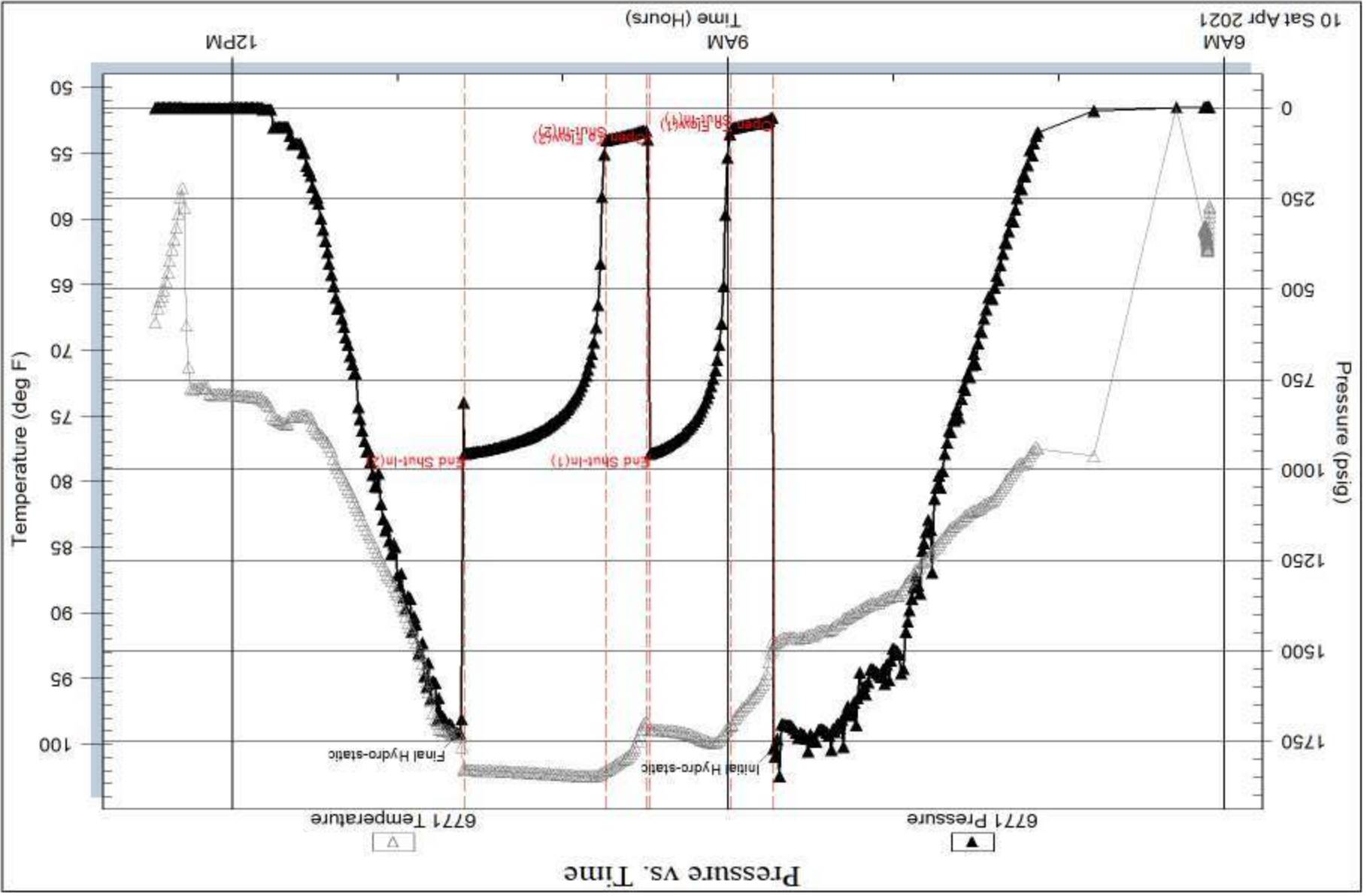
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Gravity = 32.4 api @ 76 deg F Corrected Gravity = 30.8 api



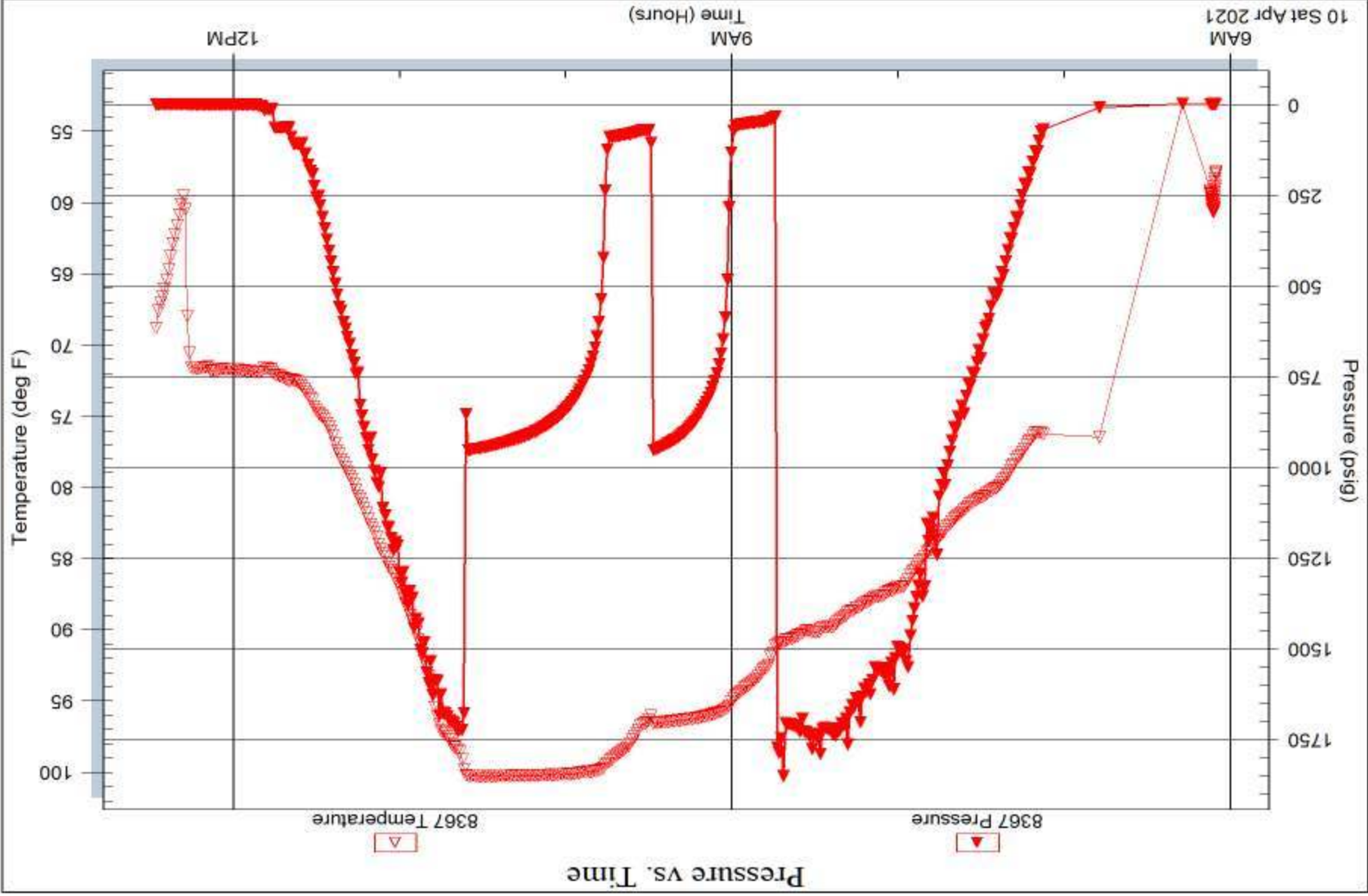
Serial #: 8367

Outside

Fourwinds Oil Corp.

Mary A Unit #1

DST Test Number: 1



Triobite Testing, Inc

Ref. No: 66512

Printed: 2021.04.10 @ 13:12:20

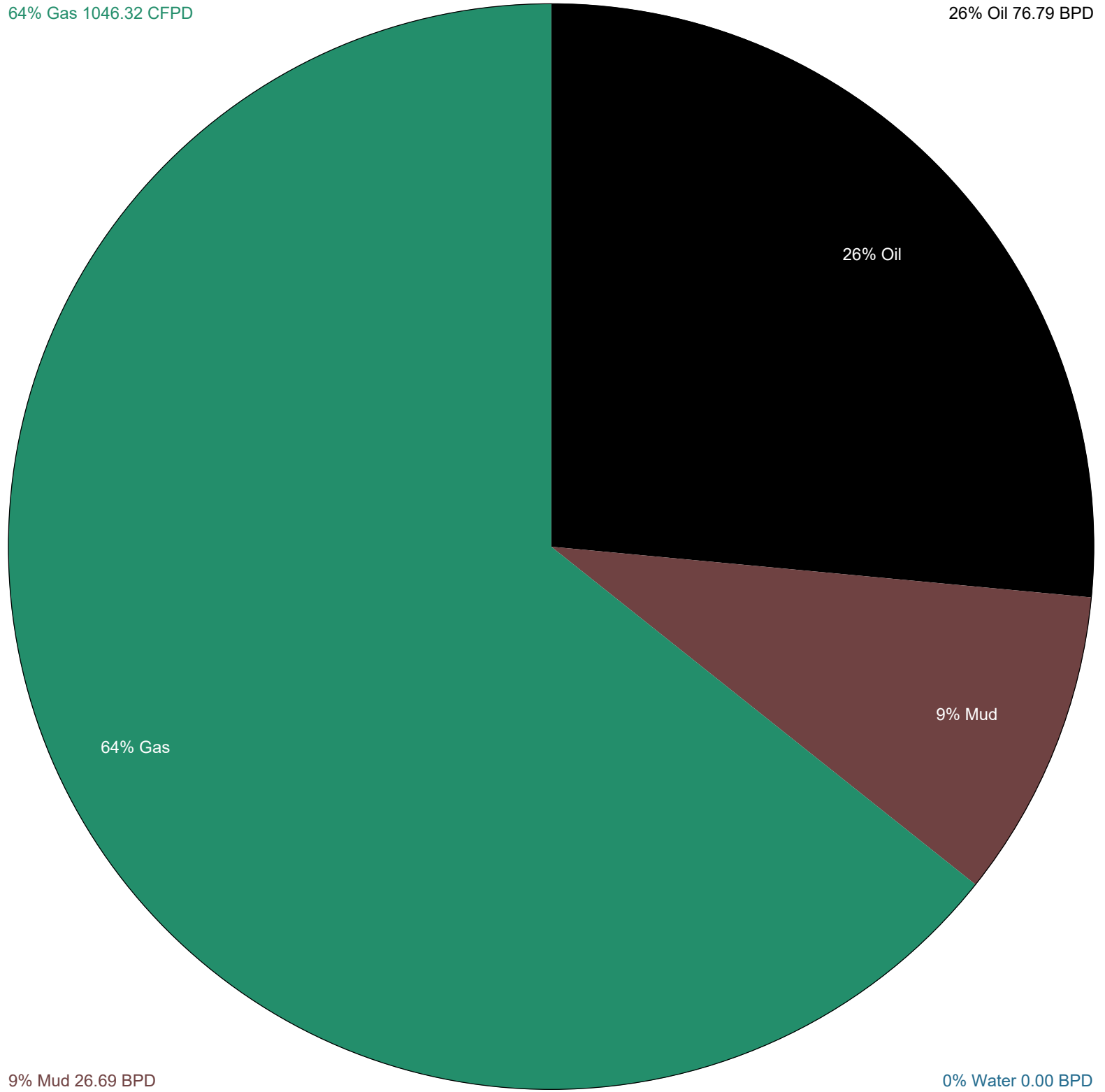
Calculated Recovery Analysis - Fourwinds - Mary A Unit #1 - DST#1

64% Gas 1046.32 CFPD

26% Oil 76.79 BPD

9% Mud 26.69 BPD

0% Water 0.00 BPD



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. 2197

Date	4-6-21	Sec.	28	Twp.	5	Range	20	County	Phillips	State	KS	On Location		Finish	
Lease								Location		Damar & Logan Rd 11/1 to Coz/coverd					
Lease								Well No.		1					
Contractor								Owner		3/4 W					
Type Job								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.							
Hole Size				T.D.				Charge To				Fourwinds			
Csg.				Depth				Street							
Tbg. Size				Depth				City				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				180 80/20 3/11 2/4/21			
Meas Line								Displace 13BL							
EQUIPMENT															
Pumptrk		No.		Cement		Helper		Common		145					
Bulktrk		No.		Driver		Driver		Poz. Mix		35					
Bulktrk		No.		Driver		Driver		Gel.		3					
Bulktrk		No.		Driver		Driver		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 9/8 on bottom. Est. Circulation.								Sand							
Mix 180 SK & replace.								Handling 190							
								Mileage							
FLOAT EQUIPMENT															
Cement Circulated								Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge Surface							
								Mileage 57							
Tax															
Discount															
Total Charge															

(Sandy)

X Signature *Allen R. Jacobson*

QUALITY OILWELL CEMENTING, INC.

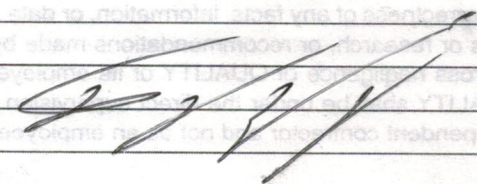
Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 2278

Cell 785-324-1041

Date	4-11-21	Sec.	28	Twp.	5	Range	20	County	Phillips	State	KS	On Location		Finish	6:45 AM
Location								Logan 55 3/4 W Sinto							
Lease	Mary A Unit			Well No.	1			Owner							
Contractor	Discovery #4			To Quality Oilwell Cementing, Inc.											
Type Job	Production String			You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.											
Hole Size	7 7/8			T.D.	3641			Charge To	Fourwinds Oil						
Csg.	5 1/2 15.50#			Depth	3640			Street							
Tbg. Size				Depth				City State							
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.	15.55			Shoe Joint	15.55			Cement Amount Ordered 450 80% QMDC 1/4# 10							
Meas Line				Displace	86 1/4 BBL			150 com 10' salt 5' Gilsomite 500 gal mud clear							
EQUIPMENT								Common							
Pumptrk	17	No.	Cement	Naig			150								
			Helper	Dund			Poz. Mix 450 80% QMDC								
Bulktrk	14	No.	Driver	Tom			Gel.								
Bulktrk	21	No.	Driver	Tom			Calcium								
JOB SERVICES & REMARKS								Hulls							
Remarks:							Salt 13								
Rat Hole	305K						Flowseal 100#								
Mouse Hole	155K						Kol-Seal 750#								
Centralizers							Mud CLR 48 500 gal								
Baskets							CFL-117 or CD110 CAF 30								
D/V or Port Collar							Sand								
	5 1/2 set @ 3640. Balled @ 3624.50						Handling 620								
	Est Circulation Pump 500 gal mud clear						Mileage								
	Plug Ratches mousehole.						FLOAT EQUIPMENT								
	Cement 5 1/2 with 5555K. Clear						Guide Shoe								
	lines & Displace Plug.						Centralizer 7								
	Cement Circulated.						Baskets 4								
	Plug landed @ 1800#						AFU Inserts								
	Lift pressure 1200#						Float Shoe 1								
							Latch Down 1								
							Pumptrk Charge prod string								
							Mileage 57								
							Tax								
							Discount								
							Total Charge								
X Signature															
	<p style="text-align: center;">Thanks</p>														