

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: GW UNIT #1
Surface Location: E2 E2 NE NW Sec. 28 - 5S - 21W
Bottom Location:
API: 15-1137-20757
License Number: 34916
Spud Date: 9/25/2020 Time: 3:00 PM
Region: NORTON COUNTY KANSAS
Drilling Completed: 10/1/2020 Time: 10:20 AM
Surface Coordinates: 660' FSL & 2440' FEL
Bottom Hole Coordinates:
Ground Elevation: 2236.00ft
K.B. Elevation: 2244.00ft
Logged Interval: 3070.00ft To: 3737.00ft
Total Depth: 3738.00ft
Formation: GORHAM SAND; REAGAN SAND
Drilling Fluid Type: FRESH WATER / CHEMICAL GEL

OPERATOR

Company: FOURWINDS OIL CORPORATION
Address: P.O. BOX 1063
HAYS, KS 67601

Contact Geologist: DAN WINDHOLZ
Contact Phone Nbr: (785) 259-8403

Well Name: GW UNIT #1
Location: E2 E2 NE NW Sec. 28 - 5S - 21W
API: 15-1137-20757

Pool: Field: UNNAMED
State: KANSAS Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical
Longitude: -99.69373
Latitude: 39.594304
N/S Co-ord: 660' FSL
E/W Co-ord: 2440' FEL

LOGGED BY



Company: BIG CREEK CONSULTING, INC.

Company: BIG CREEK CONSULTING, INC.
 Address: 3504 DUNCAN ST.
 ST. JOE, MO 64507

Phone Nbr: (785) 259-3737
 Logged By: GEOLOGIST

Name: JEFF LAWLER

CONTRACTOR

Contractor: DISCOVERY DRILLING
 Rig #: #4
 Rig Type: MUD ROTARY
 Spud Date: 9/25/2020
 TD Date: 10/1/2020
 Rig Release: 10/3/2020
 Time: 3:00 PM
 Time: 10:20 AM
 Time: 10:30 PM

ELEVATIONS

K.B. Elevation: 2244.00ft
 K.B. to Ground: 8.00ft
 Ground Elevation: 2236.00ft

NOTES


DUE TO LACK OF ECONOMICAL RECOVERY ON THREE DRILL STEM TESTS DECISION WAS MADE TO PLUG & ABANDON THE GW UNIT #1.

RESPECTFULLY SUBMITTED,
 JEFF LAWLER

WELL COMPARISON SHEET

FORMATION	GW UNIT #1								W/2 E/2 NW NE 28-5-21				NE NW 28-5-21				SE SE SW 21-5-28				W/2 SE SW SE21-5-21							
	2244		2236		2282		2243		2215		2266		2244		2236		2282		2243		2215		2266					
	LOG TOPS				SAMPLE TOPS				LOG		LOG		SMPL.		LOG		LOG		SMPL.		LOG		LOG		SMPL.			
	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM		
ANHYDRITE TOP	1843	401	1842	402	1886	396	+	5	+	6	1848	395	+	6	+	7	1813	402	-	1	+	0	1863	403	-	2	-	1
BASE	1872	372	1877	367	1903	379	-	7	-	12							1842	373	-	1	-	6	1892	374	-	2	-	7
TOPEKA	3191	-947	3192	-948	3230	-948	+	1	+	0	3201	-958	+	11	+	10	3158	-943	-	4	-	5	3214	-948	+	1	+	0
HEEBNER SHALE	3395	-1151	3397	-1153	3432	-1150	-	1	-	3	3399	-1156	+	5	+	3	3363	-1148	-	3	-	5	3416	-1150	-	1	-	3
TORONTO	3422	-1178	3423	-1179	3462	-1180	+	2	+	1	3428	-1185	+	7	+	6	3390	-1175	-	3	-	4	3442	-1176	-	2	-	3
LKC	3441	-1197	3442	-1198	3478	-1196	-	1	-	2	3443	-1200	+	3	+	2	3407	-1192	-	5	-	6	3461	-1195	-	2	-	3
BKC	3626	-1382	3629	-1385	3664	-1382	+	0	-	3							3593	-1378	-	4	-	7	3646	-1380	-	2	-	5
GORHAM SAND					3714	-1432					3685	-1442					3649	-1434					3698	-1432				
ARBUCLE																												
REAGAN SAND	3678	-1434	3682	-1438																								
GRANITE WASH	3702	-1458	3702	-1458																								
TOTAL DEPTH	3737	-1493	3738	-1494	3716	-1434	-	59	-	60	3688	-1445	-	48	-	49	3648	-1433	-	60	-	61	3700	-1434	-	59	-	60

DST #1 GORHAM SAND 3671' - 3680'



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Fourw inds Oil Corp. **28-5n-21w Norton KS**

P.O. Box 1063 **GW Unit #1**
 Hays KS 67601

Job Ticket: 66672 **DST#: 1**

ATTN: Jeff Lawler **Test Start: 2020.09.29 @ 00:10:00**

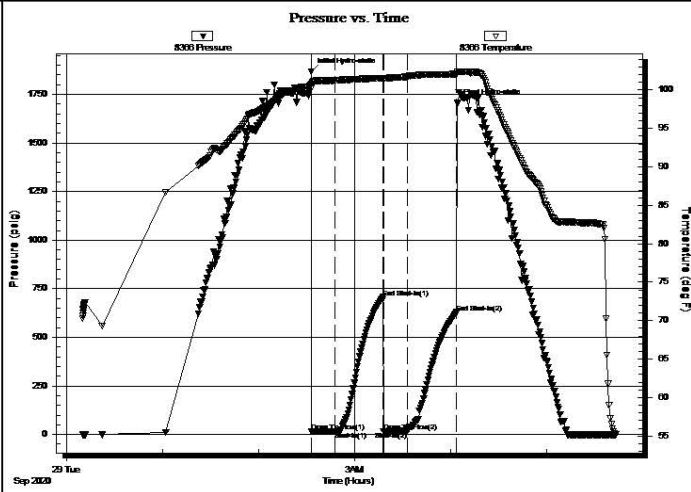
GENERAL INFORMATION:

Formation: **Gorham Sand**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:33:00
 Time Test Ended: 05:43:20
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Ryan Nichols
 Unit No: 71
 Interval: **3671.00 ft (KB) To 3680.00 ft (KB) (TVD)**
 Total Depth: 3680.00 ft (KB) (TVD)
 Reference Elevations: 2244.00 ft (KB)
 2236.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Good
 KB to GR/CF: 8.00 ft

Serial #: 8366 **Outside**
 Press@RunDepth: 17.06 psig @ 3672.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2020.09.29 End Date: 2020.09.29 Last Calib.: 2020.09.30

Start Time: 00:10:01 End Time: 05:43:20 Time On Btm: 2020.09.29 @ 02:32:50
 Time Off Btm: 2020.09.29 @ 04:04:10

TEST COMMENT: 15 IF - Surface blow
 30 ISI - No return
 15 FF - No blow
 30 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.92	100.74	Initial Hydro-static
1	14.70	100.16	Open To Flow (1)
15	16.39	101.24	Shut-In(1)
45	705.59	101.56	End Shut-In(1)
46	16.72	101.30	Open To Flow (2)
60	17.06	101.72	Shut-In(2)
91	627.55	102.08	End Shut-In(2)
92	1707.57	102.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates


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

Trilobite Testing, Inc

Ref. No: 66672

Printed: 2020.09.30 @ 08:06:01

DST #2 GORHAM SAND - ARBUCKLE 3673' - 3682'

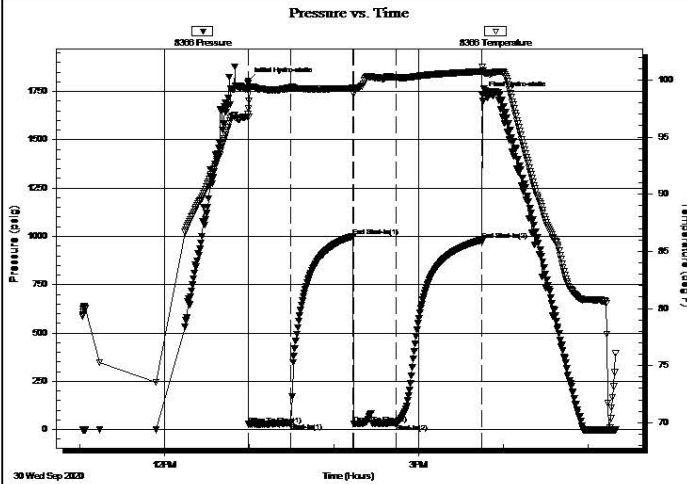
 <p>TRILOBITE TESTING, INC.</p>	DRILL STEM TEST REPORT	
	Fourw inds Oil Corp. P.O. Box 1063 Hays KS 67601 ATTN: Jeff Lawler	28-5n-21w Norton KS GW Unit #1 Job Ticket: 66673 DST#: 2 Test Start: 2020.09.30 @ 11:02:00

GENERAL INFORMATION:

Formation: Gorham Sand - Arbuck	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Ryan Nichols
Time Tool Opened: 12:59:30	Unit No: 71
Time Test Ended: 17:20:00	Reference Elevations: 2244.00 ft (KB)
Interval: 4673.00 ft (KB) To 4682.00 ft (KB) (TVD)	2236.00 ft (CF)
Total Depth: 3682.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

Serial #: 8366	Outside	Capacity: 8000.00 psig
Press@RunDepth: 32.68 psig @ 4674.00 ft (KB)	Start Date: 2020.09.30	Last Calib.: 2020.09.30
Start Time: 11:02:01	End Date: 2020.09.30	Time On Btm: 2020.09.30 @ 12:59:20
End Time: 17:20:00		

TEST COMMENT: 30 IF - 3/4" blow
 45 ISI - No return
 30 FF - No blow
 60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.66	97.48	Initial Hydro-static
1	27.19	96.75	Open To Flow (1)
31	33.95	99.30	Shut-In(1)
75	1001.40	99.28	End Shut-In(1)
75	30.03	98.74	Open To Flow (2)
105	32.68	100.21	Shut-In(2)
166	980.89	100.76	End Shut-In(2)
166	1729.48	101.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOCM - 5%o - 95%M	0.07

* Recovery from multiple tests

Gas Rates

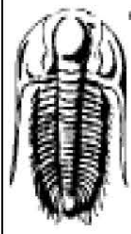
Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 66673

Printed: 2020.09.30 @ 22:43:09

DST #3 REAGAN 3672' - 3684'

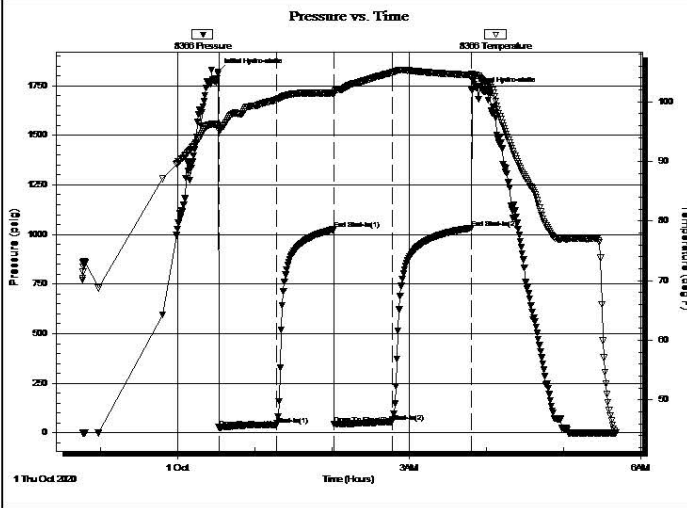
 <p>TRILOBITE TESTING, INC</p>	DRILL STEM TEST REPORT	
	Fourwinds Oil Corp. P.O. Box 1063 Hays KS 67601 ATTN: Jeff Lawler	28-5n-21w Norton KS GW Unit #1 Job Ticket: 66674 DST#: 3 Test Start: 2020.09.30 @ 22:46:00

GENERAL INFORMATION:

Formation: Gorham Sand - Arbuck	Test Type: Conventional Bottom Hole (Reset)
Deviated: No Whipstock: ft (KB)	Tester: Ryan Nichols
Time Tool Opened: 00:31:40	Unit No: 71
Time Test Ended: 05:40:39	Reference Elevations: 2244.00 ft (KB)
Interval: 3672.00 ft (KB) To 3684.00 ft (KB) (TVD)	2236.00 ft (CF)
Total Depth: 3684.00 ft (KB) (TVD)	KB to GR/CF: 8.00 ft
Hole Diameter: 7.88 inches Hole Condition: Good	

Serial #: 8366	Outside	Capacity: 8000.00 psig
Press@RunDepth: 55.66 psig @ 3673.00 ft (KB)		Last Calib.: 2020.10.01
Start Date: 2020.09.30	End Date: 2020.10.01	Time On Btm: 2020.10.01 @ 00:31:20
Start Time: 22:46:01	End Time: 05:40:40	Time Off Btm: 2020.10.01 @ 03:48:30

TEST COMMENT: 45 IF - 3/4" blow built to 3 1/2"
 45 ISI - No return
 45 FF - Surface blow built to 3"
 60 FSI - No return



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.65	96.01	Initial Hydro-static
1	26.49	95.24	Open To Flow (1)
46	40.27	100.34	Shut-In(1)
90	1024.91	101.45	End Shut-In(1)
91	43.16	101.42	Open To Flow (2)
135	55.66	104.88	Shut-In(2)
197	1031.87	104.45	End Shut-In(2)
198	1725.32	104.72	Final Hydro-static

Length (ft)	Description	Volume (bbl)
60.00	MCW - 45%M 55%W	0.57
30.00	MCW - 20%M 80%W	0.42
1.00	Heavy oil 100%o	0.01

* Recovery from multiple tests

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

Trilobite Testing, Inc Ref. No: 66674 Printed: 2020.10.01 @ 08:10:01

ROCK TYPES

Dolsec	shale, grn	Carbon Sh	shale, red	Igne
Lmst fw7>	shale, gry	Shblk	Ss	

ACCESSORIES

TEXTURE
 c Chalky

OTHER SYMBOLS

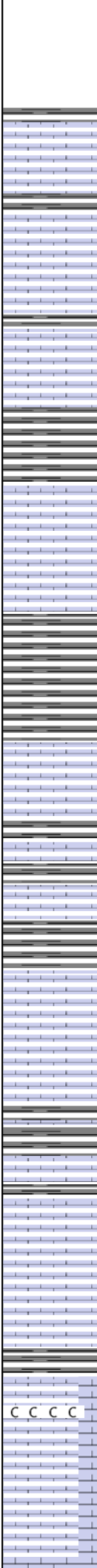
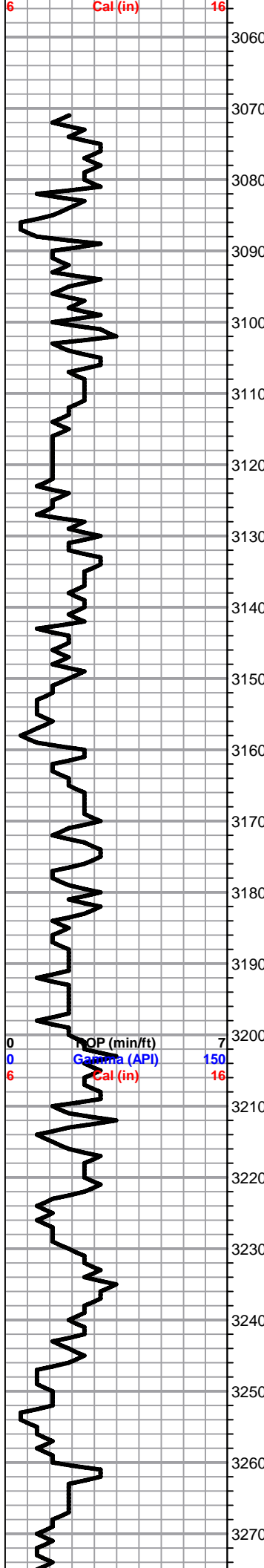
DST
 DST Int
 DST alt

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

Curve Track #1				Depth Intervals	DST	Lithology	Oil Show	Geological Descriptions	Curve Track #3			
ROP (min/ft)	Gamma (API)	Cal (in)										
0	150											

1:240 Imperial

1' DRILL TIME THROUGH ANHYDRITE 1820' - 1860'



1' DRILL TIME THROUGH ANHYDRITE 1020' - 1000'
 1' DRILL TIME FROM 3070' - RTD
 10' WET/DRY SAMPLES FROM 3170' - RTD

GEOLOGICAL SUPERVISION BY JEFF LAWLER FROM 3070' - RTD

8 5/8" SURFACE PIPE SET @ 222' SURVEY 3/4 deg.

ANHYDRITE 1842' (+402) TOP E-LOG 1843' (+401)
ANHYDRITE BASE 1877' (+367) E-LOG 1872' (+372)

Lm- Cream Off White, FXLN, fsl, sctrd to dense XLN porosity, barren, several pcs of buff gray Vf Grn well cemented mudstone w/o vis. porosity

Sh- Gray Maroon Green, dense, semi-silty, gritty & earthy, calcareous

Sh/Ss- Gray, soft & silty Ss- Gray Frosted, Fn Grn, consolidated, well sorted, sub-rounded, loosely cemented, micaceous, barren

TOPEKA 3192' (-948) E-LOG 3191' (+947) Lm- Gray Buff Cream, FXLN, dense, well cemented, sl fsl, sctrd to dense XLN porosity

Sh- Gray Maroon Black, gummy soft clumps/wash, gritty & earthy, sl fissile & fsl

Lm- Off White, FXLN, densely fsl & sl oolitic, massive, well cemented, dense XLN porosity, sctrd clear reXLN porosity, barren

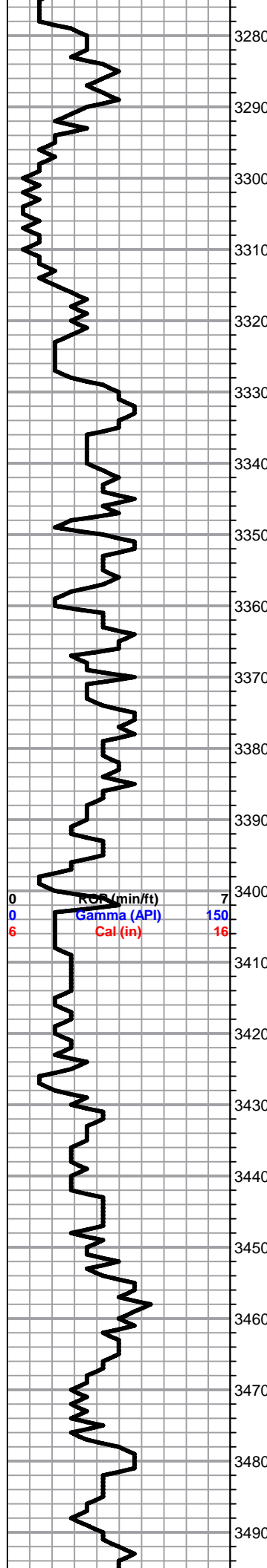
Lm- Cream Off White, VF-FXLN, dense, vry well cemented, sl fsl, sctrd XLN porosity, several pcs of cherty Ls w/o vis. porosity

Lm- Dove Gray, Fn Grn, arenaceous sl fsl Lm, well cemented, consistent micro porosity throughout, barren & micaceous

Lm- White Off White, FXLN, mix of dolomitic & cherty Lm, dense vis. porosity to no vis., much soft white chalk

Lm- Cream Off White, sl dolomitic Ls A/A, massive & gritty, influx of vitreous fresh bedded cryptoXLN chert, barren

Lm- Cream Off White, FXLN, dense, well dev. & massive w/ consistent interXLN porosity throughout, clean & barren



Lm- Cream Off White, VF-FXLN, dense, well cemented dolomitic Lm w/ sctrd to dense XLN porosity, clean & barren, some tight w/ min. vis. porosity

Sh- Black Maroon, fissile & carbonaceous, earthy

Sh- Gray Maroon Green, gritty & earthy, sandy & calcareous

Lm- Cream Buff, FXLN, fsl, dense XLN porosity, some w/ fsl fragments, barren

Sh- Maroon Gray Lt Green, gritty & earthy, sandy, calcareous

Lm- Cream Off White, VFXLN, dense, well cemented, cherty Ls w/o vis. porosity

Sh- Black Maroon, fissile & carbonaceous, gritty & sandy

Lm- Cream, FXLN, oolitic & fsl, dense & well cemented, sctrd clear replacement cementation, sctrd XLN porosity, barren

Lm- Tan, VFXLN, dense, well cemented & tight dolomitic & cherty Ls w/ vry dense micro XLN porosity, clean & barren

Lm- A/A

Lm- Lt/Dark Gray, FXLN, well cemented & dense, dense XLN porosity, fsl w/ fragments, trashy & sl clastic

HEEBNER 3397' (-1153) E-LOG 3395' (-1151) Sh-Black Maroon, fissile & carbonaceous, gritty & earthy

Sh- Maroon Green, gritty & earthy, calcareous

TORONTO 3423' (-1179) E-LOG 3422' (-1178) Lm- Cream, FXLN, fsl & oolitic, mod. well dev. w/ consistent ppt interoolite porosity, some sctrd reXLN porosity, SCTRDRK STN, NSFO, SL TR ODR

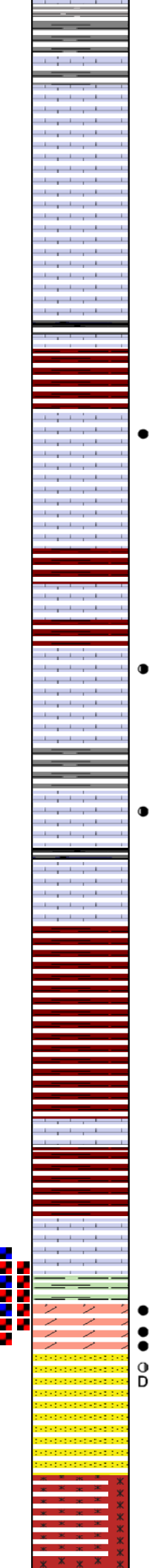
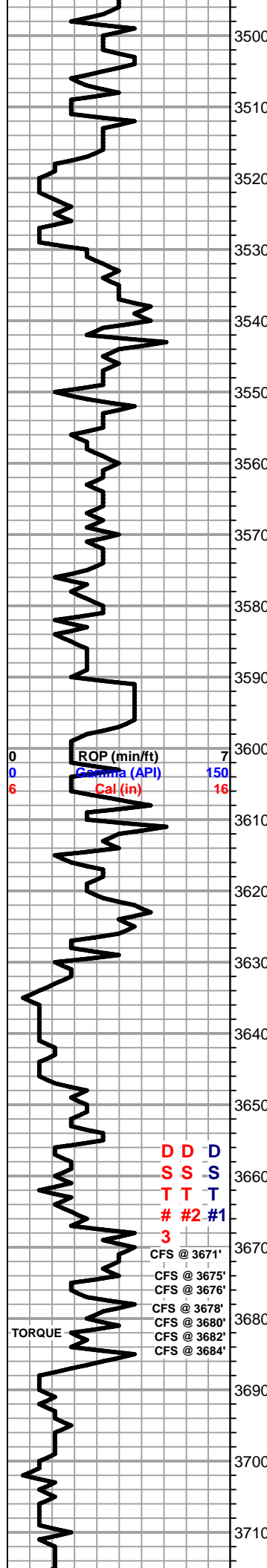
Chert- Cream Tan Salmon, vitreous fresh bedded cryptoXLN

LKC 3442' (-1198) E-LOG 3441' (-1197) Lm- Cream Off White, FXLN, sl fsl, poorly dev. w/ sctrd to dense XLN porosity, clean & barren

Lm- VFXLN, dense, well cemented, poorly dev. w/ sctrd micro porosity, barren

Lm- Cream Off White, MXLN, fsl & oolitic, well dev. w/ sctrd XLN & ppt to vuggy porosity, some sctrd reXLN w/in some porosity, SCTRDRK STN, TR FO, NO ODR
 Chert- Salmon Semi-Translucent, vitreous fresh bedded cryptoXLN
 Lm- Cream Off White, VFXLN, dense & well cemented, sl dolomitic Ls w/ consistent micro XLN porosity, barren

Lm- Off White, VFXLN, dense, well cemented, poor vis. porosity, pristine, clean & barren



Lm- Cream Off White/Maroon, FXLN, dense, well cemented, poorly dev. w/ sctrd XLN porosity, barren
 Lm- Off White Tan, FXLN, densely packed fsl, dense XLN porosity, barren
 Lm- Off White Cream, VFXLN, gritty & well dev. w/ consistent vry fn ppt porosity throughout, most loosely cemented, some soft white chalk, clean & barren

Lm/Chert- Buff, VFXLN, dense, well cemented & tight, several sl fsl, sctrd micro XLN porosity, some cherty Ls & vitreous chert w/o vis. porosity, barren

Sh- Black Maroon, soft & carbonaceous, gritty & earthy

Lm- Cream Off White, F-MedXLN, fsl, mix of well dev. w/ sctrd ppt inter fsl & consistent vry fn ppt porosity throughout, LT STN, SL TR FO, FR ODR

Lm- Lt Gray Buff, VFXLN, dense, well cemented & tight w/ sctrd micro XLN porosity, barren

Sh- Maroon Gray, gritty & earthy, soft & silty

Lm- Cream Tan, VF-FXLN, dense, well cemented & tight w/ poor vis. porosity, barren

Lm- Off White Tan, FXLN, fsl, mostly w/ consistent vry fn ppt & XLN porosity, several w/ fn ppt inter fsl porosity, LT STN, FEW W/ SHEEN, SL TR FO, LT ODR

Lm- White, F-MedXLN, fsl & oolitic, well dev. w/ consistent fn ppt to ppt inter fsl porosity, DRK STN, TR FO, WK ODR, FEW PCS W/ BLK TARRY STN

Sh- Black Maroon Gray Green, fissile & carbonaceous, gritty & earthy, soft & sl pebbly, waxy

Lm- Cream Off White, FXLN, fsl, poorly dev. w/ sctrd XLN porosity, barren

BKC 3629' (-1385) E-LOG 3626' (-1382) Sh- Maroon Gray Green, gritty & earthy, semi-waxy, waxy & dense, few w/ minco pyrite inclusions

Sh- A/A w/ sandy gray shale/shaley Ss & argillaceous gray clumps

Sh- A/A w/ dense waxy mint green

Lm- Off White, FXLN, fsl, sctrd to dense XLN porosity, barren, pyrite inclusions

Sh- Green, silty & calcareous, many gummy clumps

3676'- Sh- Mint Green, dense & waxy w/ sub rounded fn grn qtz inclusions

REAGAN SAND 3682' (-1438) E-LOG 3678' (-1434) Lm- White, loosely cemented w/ subrounded-round fn grn qtz inclusions, DRK STN, NSFO, NO ODR

3680'- Ss- Clear, Fn-Med Grn, Ca cementation, poor sorting, mod. consolidaton, mostly loosely cemented, sub-rounded to angular, DRK STN, SHW FO, FR ODR

3682'- Ss/Dol- Ss-Clear, Fn-Med Grn, mod sorting w/ mix of F to Crs grains, consolidated w/ light dolomitic cementation, glauconite/chlorite inclusions, DRK STN, FO UPON CRUSH, WK ODR Dol- Cream Tan, VFXLN, dense, well cemented, poorly dev. w/ consistent micro XLN porosity, barren

3684'- Ss- A/A, less sorting, light dolomitic cementation, sctrd glauconite/chlorite inclusions, DRK SAT STN, GD SHW FO, GD PUNGENT ODR, GD AMOUNT OF FREE OIL IN CUP

3687'- Ss- A/A SCTRD BLK DO STN, NSFO, NO ODR

3700'- Ss- A/A w/ **GRANITE WASH 3702' (-1458) E-LOG 3702' (-1458)** pink black transparent

SHORT TRIP SURVEY 1 1/4 deg

DST #1 GORHAM SAND 3671' - 3680' 15-30-15-30

5' MUD

IFP: 14-16#
FFP: 16-17#
SIP: 705-627#

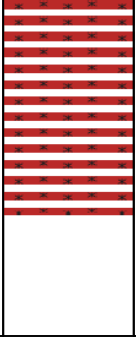
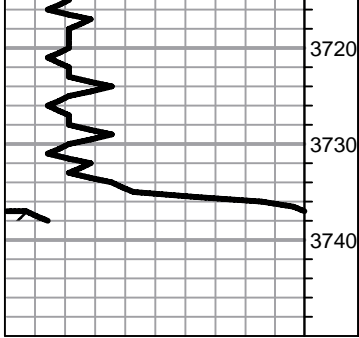
DST #1 GORHAM SAND- ARBUCKLE 3673' - 3682' 30-45-30-45

15' VSLOCM (5% O, 95% M)

IFP: 27-34#
FFP: 30-33#
SIP: 1001-981#
BHT: 101 deg.

DST #3 REAGAN 3672' - 3684' 45-45-45-60

91' TOTAL FLUID



Granite Wash- Pink Transparent Black, micaceous

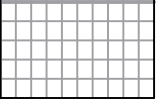
A/A

RTD 3738' (-1494) LTD 3737' (-1493) @ 10:20 10/1/2020

1' HVY OIL
30' MCW
(80%W, 20%M)
60' MCW
(55%W, 45%M)

JFP: 27-40#
FFP: 43-56#
SIP: 1025-1032#
BHT: 104 deg.

SURVEY 1 deg.



QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-1071

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

No. 2103

Cell 785-324-1041

Date	9.25.20	Sec.	28	Twp.	5	Range	21	County	Norton	State	KS	On Location		Finish	10:00 PM
------	---------	------	----	------	---	-------	----	--------	--------	-------	----	-------------	--	--------	----------

Location *Logan SW E-12R2 1S 1W S35 Winto*

Lease	<i>G.W. UNIT</i>		Well No.	<i>1</i>		Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.				
Contractor	<i>Discovery #4</i>					Charge To	<i>Fearlow's</i>				
Type Job	<i>Surface</i>					Street					
Hole Size	<i>12 1/4</i>		T.D.	<i>223</i>		City	State				
Csg.	<i>8 5/8</i>		Depth	<i>222</i>							
Tbg. Size			Depth								
Tool			Depth			The above was done to satisfaction and supervision of owner agent or contractor.					
Cement Left in Csg.	<i>10</i>		Shoe Joint			Cement Amount Ordered	<i>160 8/20 3/11 2/10/22</i>				
Meas Line			Displace	<i>13 BCL</i>		Common	<i>130</i>				
EQUIPMENT						Poz. Mix	<i>30</i>				
Pumptrk	<i>20</i>	No.	Cement Helper	<i>Craig</i>		Gel.	<i>3</i>				
Bulktrk		No.	Driver	<i>T.M</i>		Calcium	<i>6</i>				
Bulktrk	<i>9</i>	No.	Driver	<i>Tom</i>							

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 <i>169</i>				
	Mileage				

*8 5/8 on bottom Est Circulation.
Mix 160 SIC + DisPlace.*

Cement Circulated.

FLOAT EQUIPMENT

	Guide Shoe				
	Centralizer				
	Baskets				
	AFU Inserts				
	Float Shoe				
	Latch Down				

Pumptrk Charge	<i>Surface</i>				
Mileage	<i>67</i>				
Tax					
Discount					
Total Charge					

X Signature *Ade Anshu*

Thanks
6



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Fourwinds Oil Corp.

28-5n-21w Norton KS

P.O. Box 1063
Hays KS 67601

GW Unit #1

Job Ticket: 66672

DST#: 1

ATTN: Jeff Lawler

Test Start: 2020.09.29 @ 00:10:00

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:00

Time Test Ended: 05:43:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 71

Interval: 3671.00 ft (KB) To 3680.00 ft (KB) (TVD)

Reference Elevations: 2244.00 ft (KB)

Total Depth: 3680.00 ft (KB) (TVD)

2236.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366 Outside

Press@RunDepth: 17.06 psig @ 3672.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.09.29

End Date:

2020.09.29

Last Calib.:

2020.09.30

Start Time: 00:10:01

End Time:

05:43:20

Time On Btm:

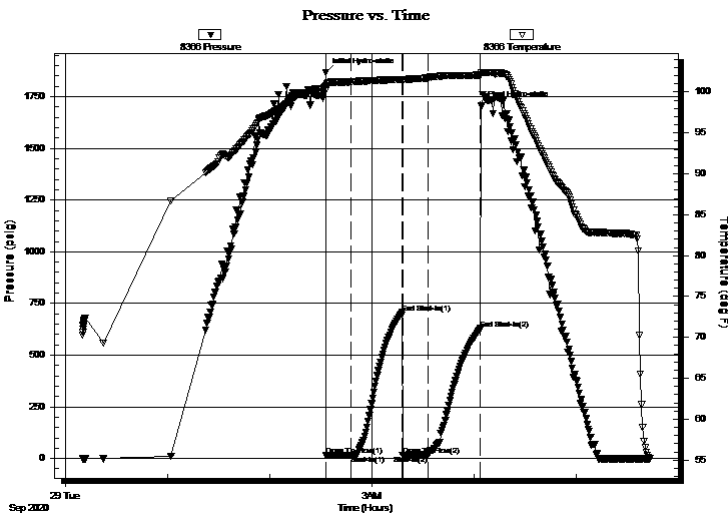
2020.09.29 @ 02:32:50

Time Off Btm:

2020.09.29 @ 04:04:10

TEST COMMENT: 15 IF - Surface blow
30 ISI - No return
15 FF - No blow
30 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1866.92	100.74	Initial Hydro-static
1	14.70	100.16	Open To Flow (1)
15	16.39	101.24	Shut-In(1)
45	705.59	101.56	End Shut-In(1)
46	16.72	101.30	Open To Flow (2)
60	17.06	101.72	Shut-In(2)
91	627.55	102.08	End Shut-In(2)
92	1707.57	102.36	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Fourwinds Oil Corp.

28-5n-21w Norton KS

P.O. Box 1063
Hays KS 67601

GW Unit #1

Job Ticket: 66672

DST#: 1

ATTN: Jeff Lawler

Test Start: 2020.09.29 @ 00:10:00

GENERAL INFORMATION:

Formation: **Gorham Sand**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:33:00

Time Test Ended: 05:43:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Ryan Nichols

Unit No: 71

Interval: 3671.00 ft (KB) To 3680.00 ft (KB) (TVD)

Reference Elevations: 2244.00 ft (KB)

Total Depth: 3680.00 ft (KB) (TVD)

2236.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8353 Inside

Press@RunDepth: psig @ 3672.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.09.29

End Date:

2020.09.29

Last Calib.:

2020.09.30

Start Time: 00:10:01

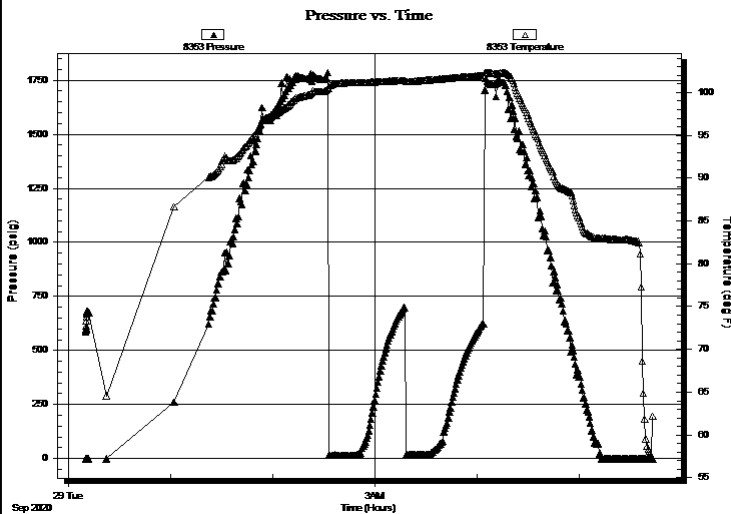
End Time:

05:43:10

Time On Btm:

Time Off Btm:

TEST COMMENT: 15 IF - Surface blow
30 ISI - No return
15 FF - No blow
30 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud	0.02

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Fourwinds Oil Corp.

28-5n-21w Norton KS

P.O. Box 1063
Hays KS 67601

GW Unit #1

Job Ticket: 66672

DST#: 1

ATTN: Jeff Lawler

Test Start: 2020.09.29 @ 00:10:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 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
5.00	Mud	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

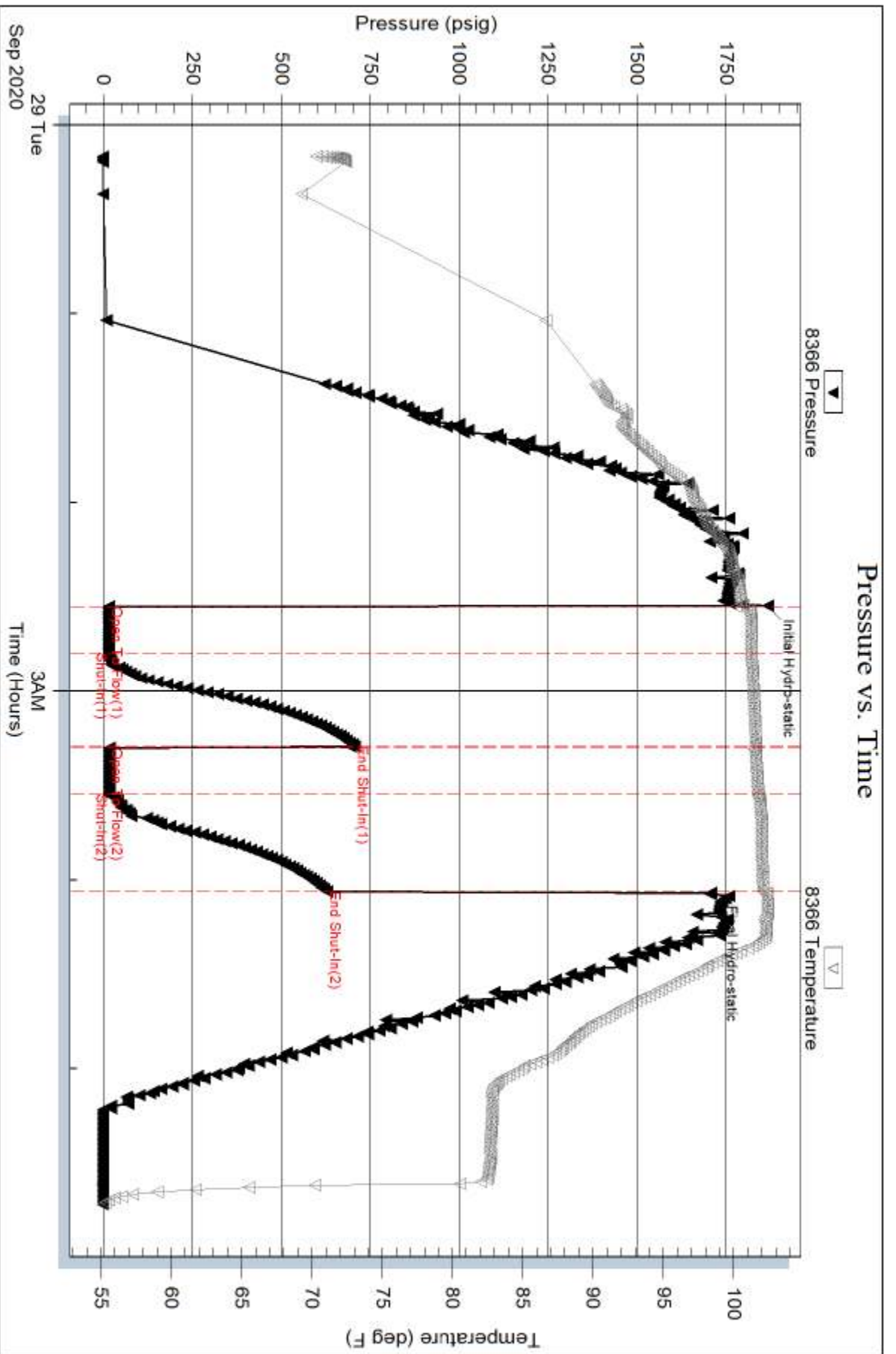
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



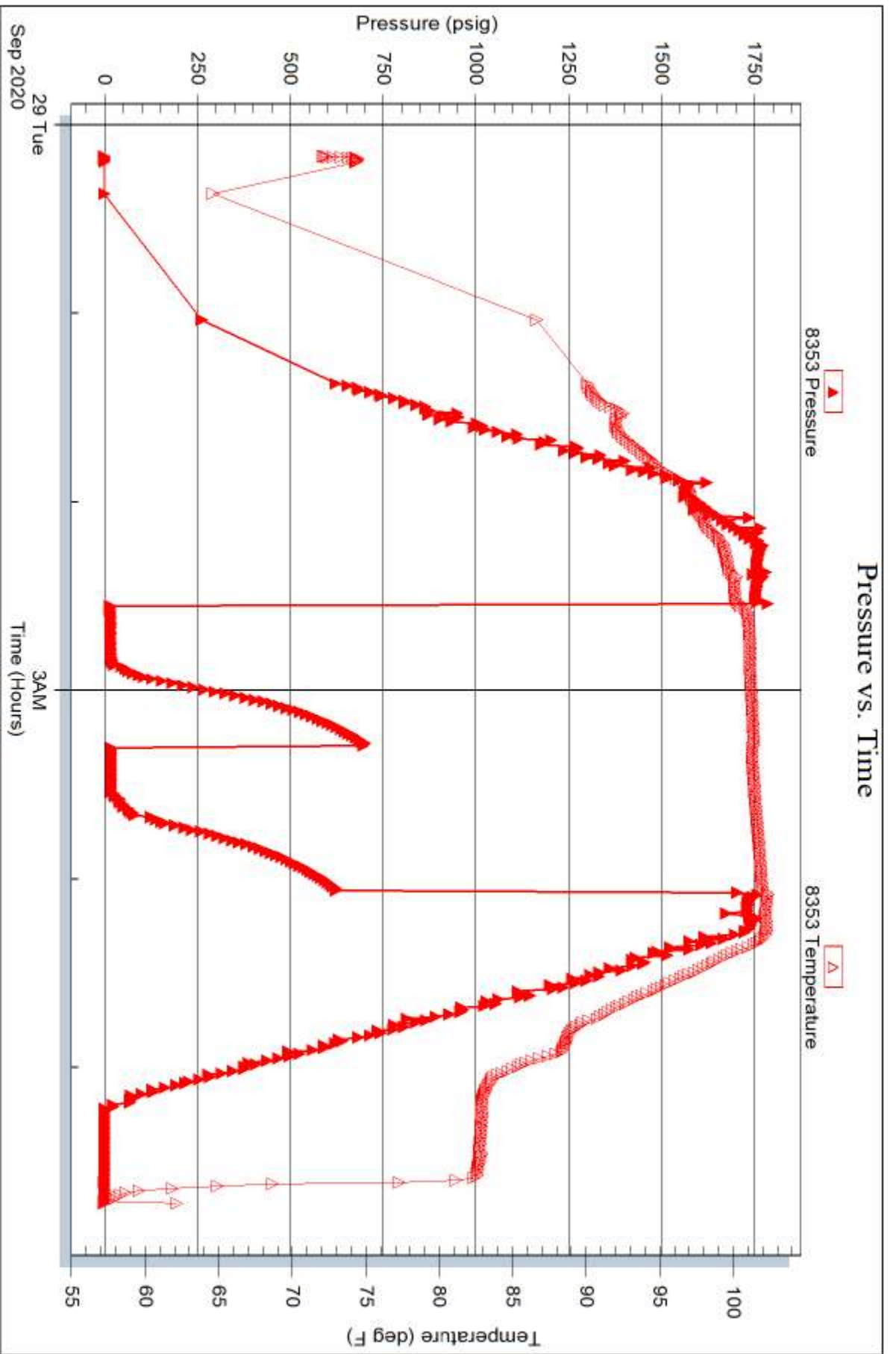
Serial #: 8353

Inside

Fourwinds Oil Corp.

GW Unit #1

DST Test Number: 1





TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Fourwinds Oil Corp.

28-5n-21w Norton KS

P.O. Box 1063
Hays KS 67601

GW Unit #1

Job Ticket: 66673

DST#: 2

ATTN: Jeff Lawler

Test Start: 2020.09.30 @ 11:02:00

GENERAL INFORMATION:

Formation: **Gorham Sand - Arbuck**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:59:30

Time Test Ended: 17:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4673.00 ft (KB) To 4682.00 ft (KB) (TVD)

Reference Elevations: 2244.00 ft (KB)

Total Depth: 3682.00 ft (KB) (TVD)

2236.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366 Outside

Press@RunDepth: 32.68 psig @ 4674.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.09.30

End Date: 2020.09.30

Last Calib.: 2020.09.30

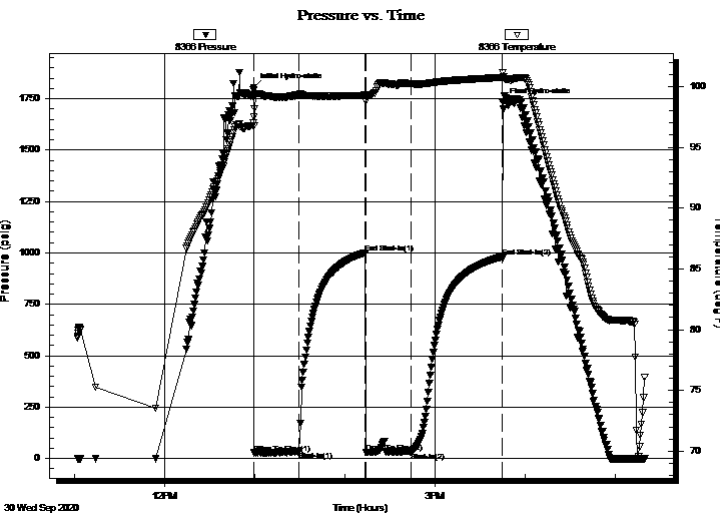
Start Time: 11:02:01

End Time: 17:20:00

Time On Btm: 2020.09.30 @ 12:59:20

Time Off Btm: 2020.09.30 @ 15:45:10

TEST COMMENT: 30 IF - 3/4" blow
45 ISI - No return
30 FF - No blow
60 FSI - No return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1804.66	97.48	Initial Hydro-static
1	27.19	96.75	Open To Flow (1)
31	33.95	99.30	Shut-In(1)
75	1001.40	99.28	End Shut-In(1)
75	30.03	98.74	Open To Flow (2)
105	32.68	100.21	Shut-In(2)
166	980.89	100.76	End Shut-In(2)
166	1729.48	101.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOCM - 5%o - 95%M	0.07

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Fourwinds Oil Corp.

28-5n-21w Norton KS

P.O. Box 1063
Hays KS 67601

GW Unit #1

Job Ticket: 66673

DST#: 2

ATTN: Jeff Lawler

Test Start: 2020.09.30 @ 11:02:00

GENERAL INFORMATION:

Formation: **Gorham Sand - Arbuck**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:59:30

Time Test Ended: 17:20:00

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 4673.00 ft (KB) To 4682.00 ft (KB) (TVD)

Reference Elevations: 2244.00 ft (KB)

Total Depth: 3682.00 ft (KB) (TVD)

2236.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8353 Inside

Press@RunDepth: psig @ 4674.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.09.30

End Date: 2020.09.30

Last Calib.: 2020.09.30

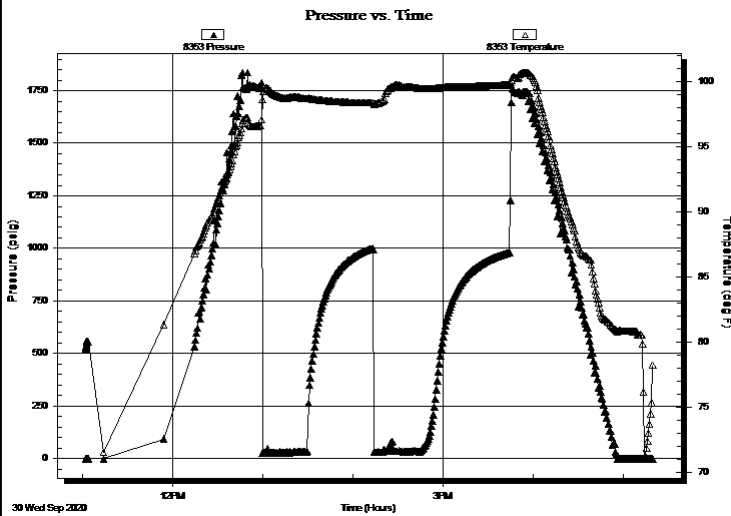
Start Time: 11:02:01

End Time: 17:20:00

Time On Btm:

Time Off Btm:

TEST COMMENT: 30 IF - 3/4" blow
45 ISI - No return
30 FF - No blow
60 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
15.00	VSOCM - 5% _o - 95%M	0.07

Gas Rates

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

* Recovery from multiple tests



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Fourwinds Oil Corp.

28-5n-21w Norton KS

P.O. Box 1063
Hays KS 67601

GW Unit #1

Job Ticket: 66673

DST#: 2

ATTN: Jeff Lawler

Test Start: 2020.09.30 @ 11:02:00

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: 60.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	VSOCM - 5%o - 95%M	0.074

Total Length: 15.00 ft Total Volume: 0.074 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

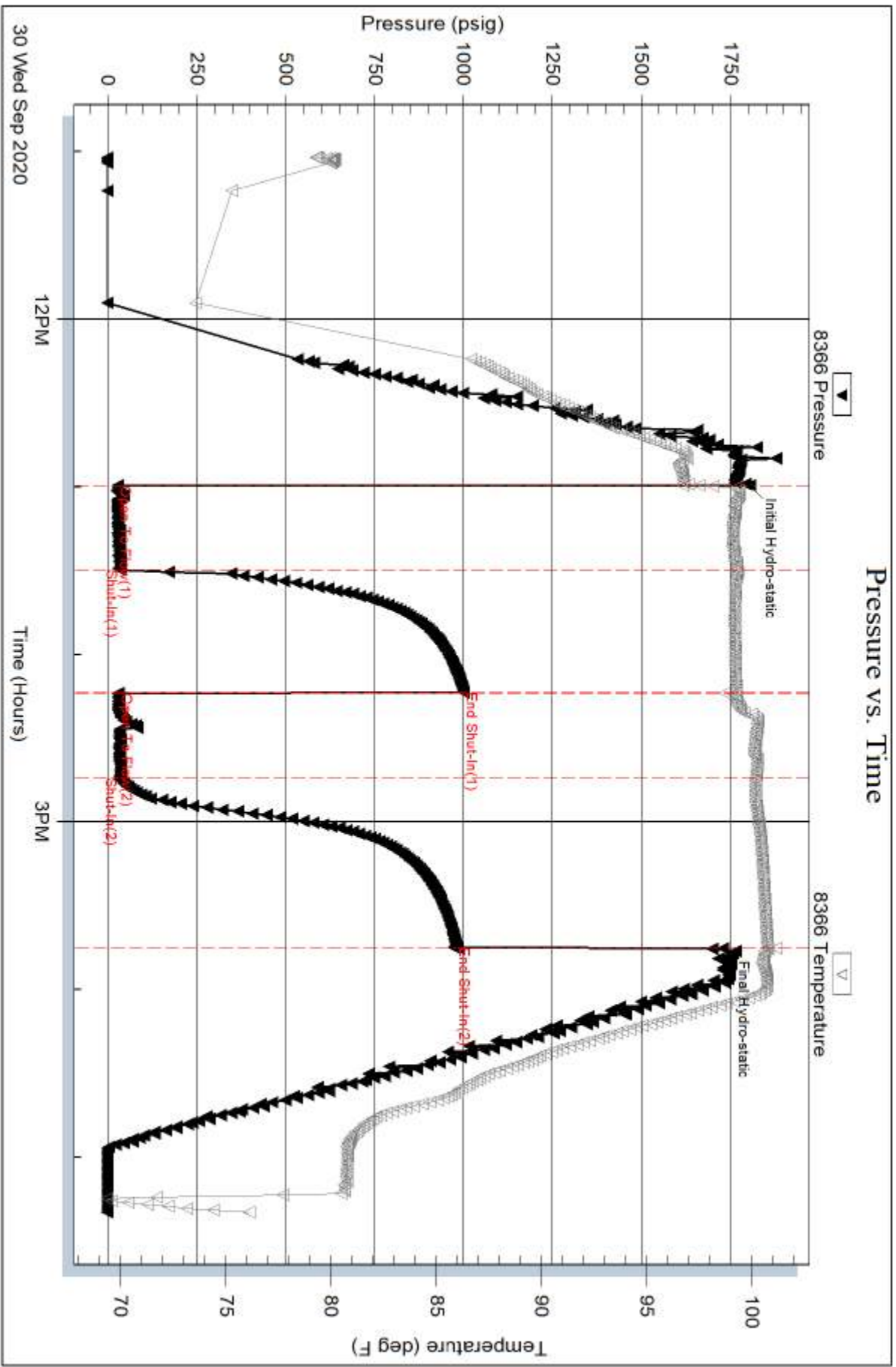
Recovery Comments:

Serial #: 8366

Outside Fourwinds Oil Corp.

GW Unit #1

DST Test Number: 2



Triobite Testing, Inc

Ref. No: 66673

Printed: 2020.09.30 @ 22:43:09

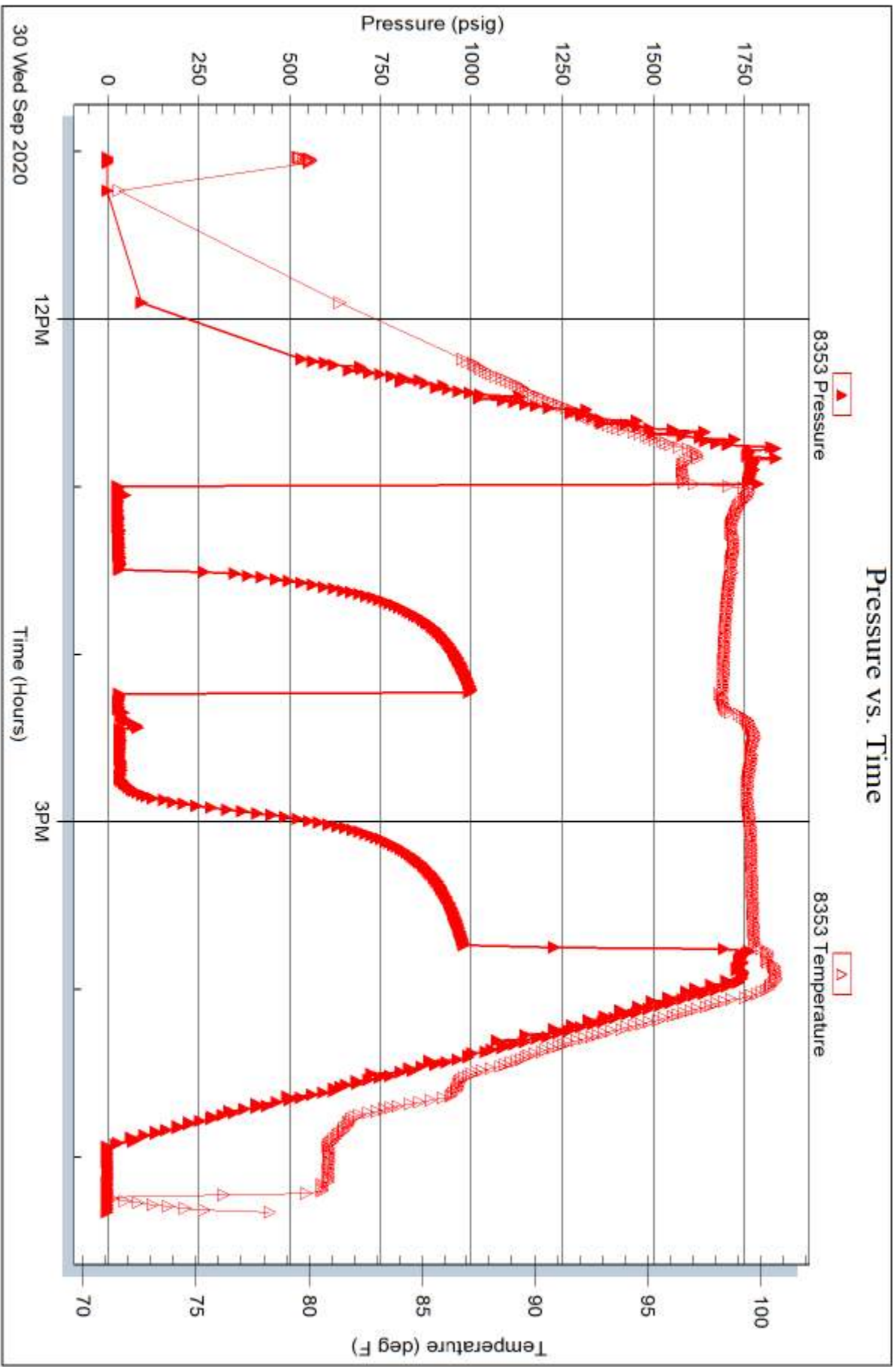
Serial #: 8353

Inside

Fourwinds Oil Corp.

GW Unit #1

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 66673

Printed: 2020.09.30 @ 22:43:09



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Fourwinds Oil Corp.

28-5n-21w Norton KS

P.O. Box 1063
Hays KS 67601

GW Unit #1

Job Ticket: 66674

DST#: 3

ATTN: Jeff Lawler

Test Start: 2020.09.30 @ 22:46:00

GENERAL INFORMATION:

Formation: **Gorham Sand - Arbuck**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:31:40

Time Test Ended: 05:40:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 3672.00 ft (KB) To 3684.00 ft (KB) (TVD)

Reference Elevations: 2244.00 ft (KB)

Total Depth: 3684.00 ft (KB) (TVD)

2236.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8366 Outside

Press@RunDepth: 55.66 psig @ 3673.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.09.30

End Date:

2020.10.01

Last Calib.: 2020.10.01

Start Time: 22:46:01

End Time:

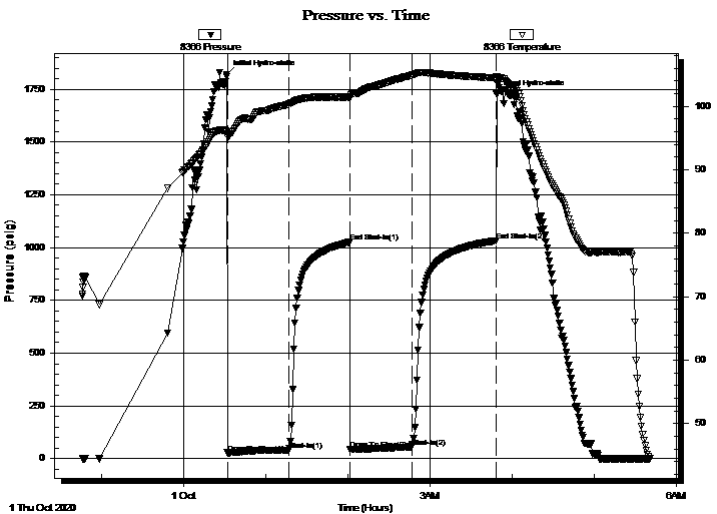
05:40:40

Time On Btm: 2020.10.01 @ 00:31:20

Time Off Btm: 2020.10.01 @ 03:48:30

TEST COMMENT: 45 IF - 3/4" blow built to 3 1/2"
45 ISI - No return
45 FF - Surface blow built to 3"
60 FSI - No return

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1817.65	96.01	Initial Hydro-static
1	26.49	95.24	Open To Flow (1)
46	40.27	100.34	Shut-In(1)
90	1024.91	101.45	End Shut-In(1)
91	43.16	101.42	Open To Flow (2)
135	55.66	104.88	Shut-In(2)
197	1031.87	104.45	End Shut-In(2)
198	1725.32	104.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW - 45%M 55%W	0.57
30.00	MCW - 20%M 80%W	0.42
1.00	Heavy oil 100%o	0.01

* Recovery from multiple tests

Gas Rates

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



DRILL STEM TEST REPORT

Fourwinds Oil Corp.

28-5n-21w Norton KS

P.O. Box 1063
Hays KS 67601

GW Unit #1

Job Ticket: 66674 **DST#: 3**

ATTN: Jeff Lawler

Test Start: 2020.09.30 @ 22:46:00

GENERAL INFORMATION:

Formation: **Gorham Sand - Arbuck**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 00:31:40

Time Test Ended: 05:40:39

Test Type: Conventional Bottom Hole (Reset)

Tester: Ryan Nichols

Unit No: 71

Interval: 3672.00 ft (KB) To 3684.00 ft (KB) (TVD)

Reference Elevations: 2244.00 ft (KB)

Total Depth: 3684.00 ft (KB) (TVD)

2236.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Good

KB to GR/CF: 8.00 ft

Serial #: 8353 Inside

Press@RunDepth: psig @ 3673.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2020.09.30 End Date: 2020.10.01

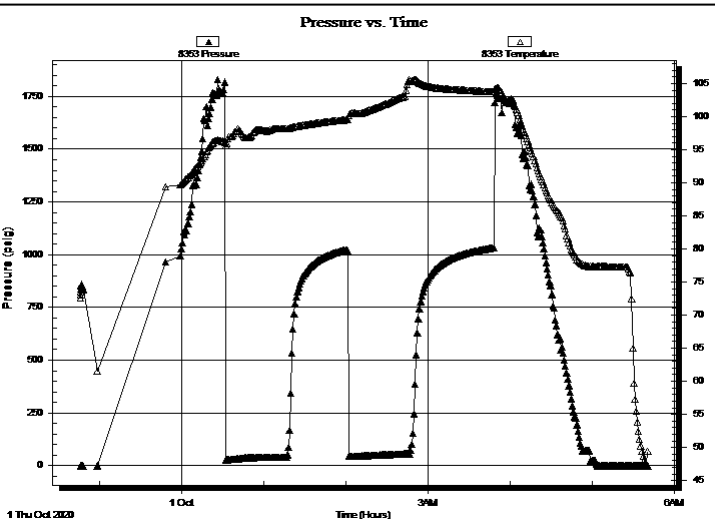
Last Calib.: 2020.10.01

Start Time: 22:46:01 End Time: 05:40:40

Time On Btm:

Time Off Btm:

TEST COMMENT: 45 IF - 3/4" blow built to 3 1/2"
45 ISI - No return
45 FF - Surface blow built to 3"
60 FSI - No return



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
60.00	MCW - 45%M 55%W	0.57
30.00	MCW - 20%M 80%W	0.42
1.00	Heavy oil 100%o	0.01

* Recovery from multiple tests

Gas Rates

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



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Fourwinds Oil Corp.

28-5n-21w Norton KS

P.O. Box 1063
Hays KS 67601

GW Unit #1

Job Ticket: 66674

DST#: 3

ATTN: Jeff Lawler

Test Start: 2020.09.30 @ 22:46:00

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: 59.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	MCW - 45%M 55%W	0.568
30.00	MCW - 20%M 80%W	0.421
1.00	Heavy oil 100%o	0.014

Total Length: 91.00 ft Total Volume: 1.003 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: RW = .398 @ 40 DEG F

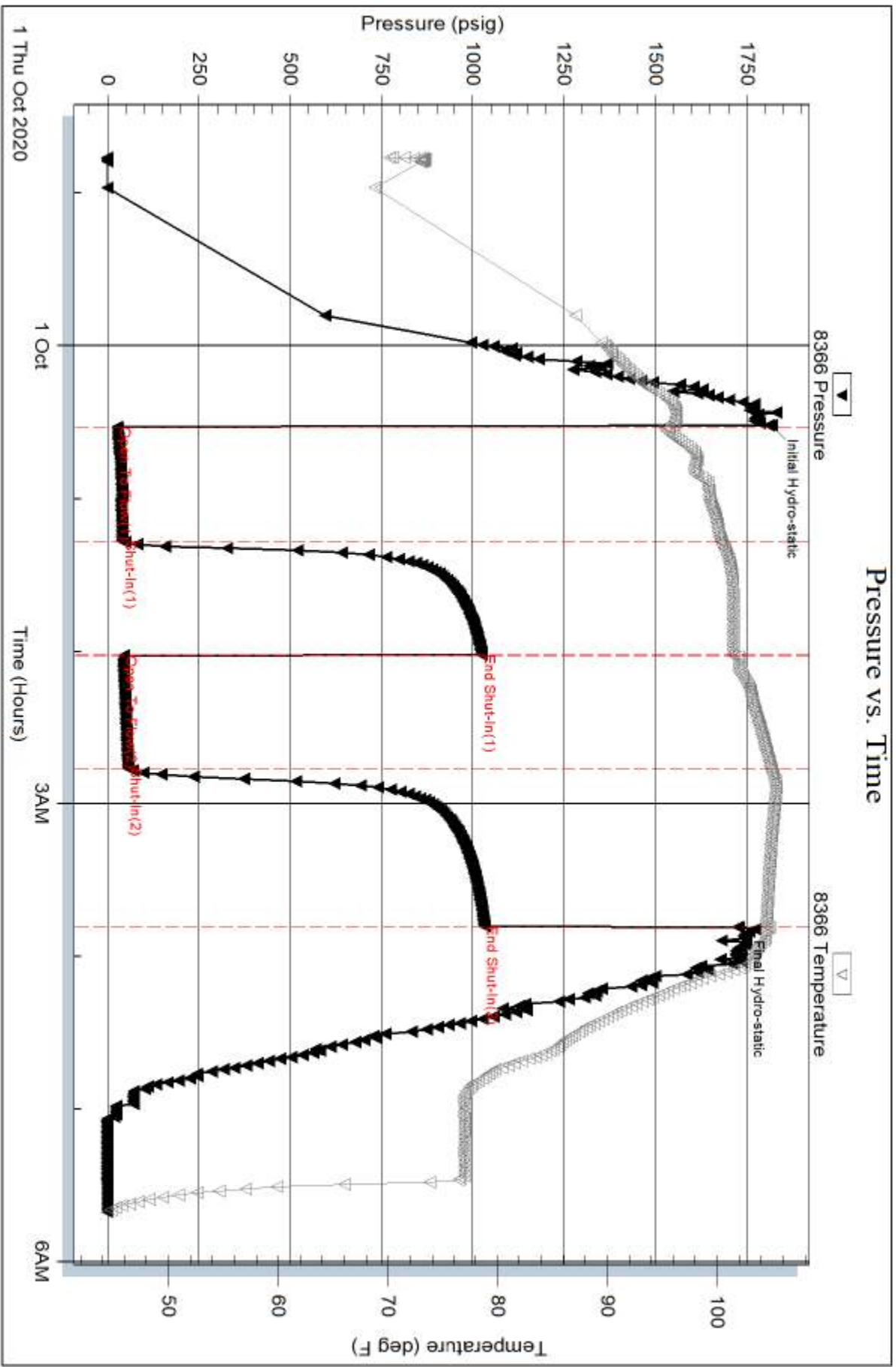
CHLORIDES = 30,000

Serial #: 8366

Outside Fourwinds Oil Corp.

GW Unit #1

DST Test Number: 3



Trilobite Testing, Inc

Ref. No: 66674

Printed: 2020.10.01 @ 08:10:01

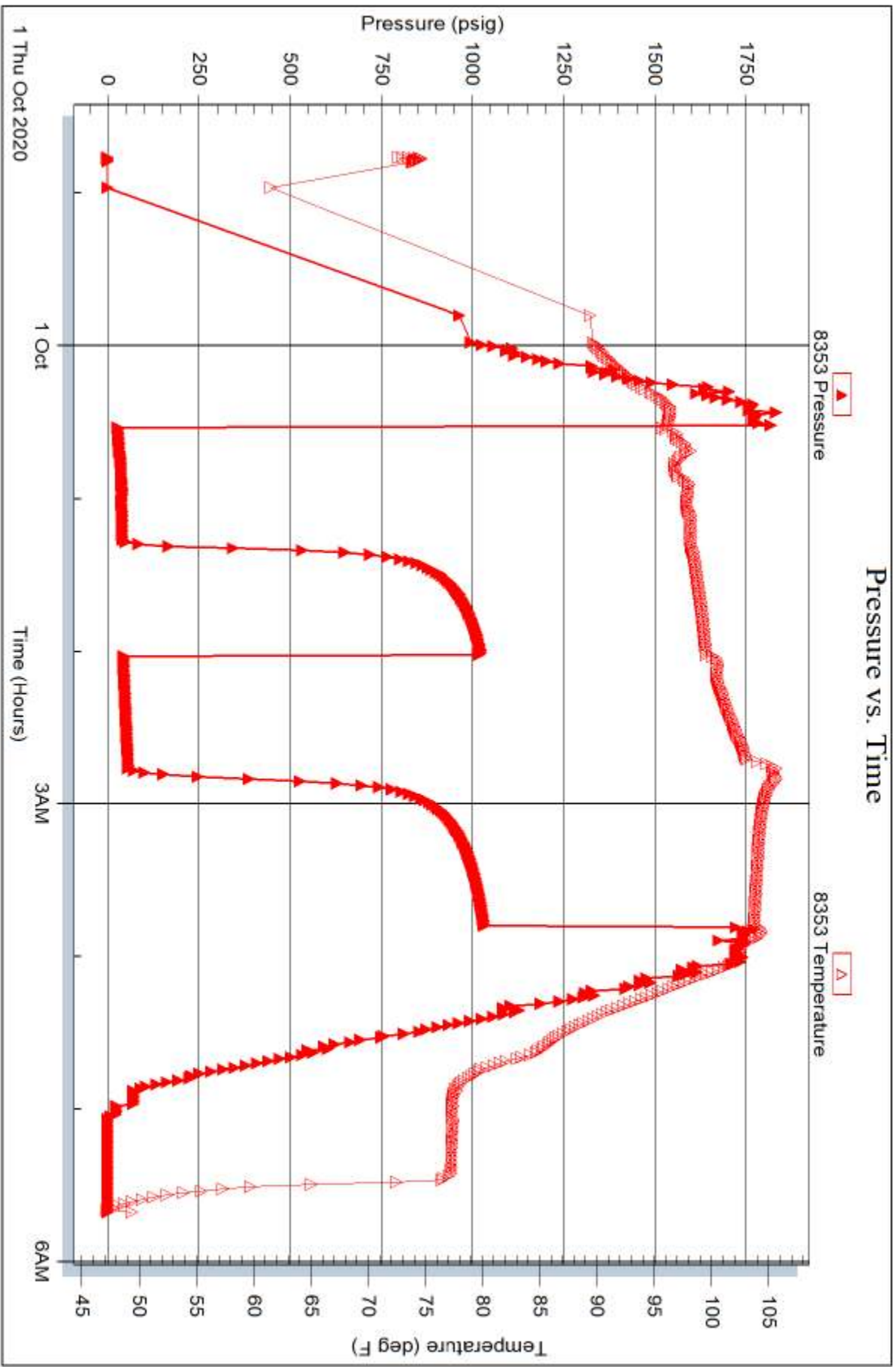
Serial #: 8353

Inside

Fourwinds Oil Corp.

GW Unit #1

DST Test Number: 3



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. 2111

Date	10-1-20	Sec.	28	Twp.	5	Range	21	County	Monroton	State	KS	On Location		Finish	10:30pm
Location								Logan SW E-12RD 1S 1W 3S Winto							
Lease	G.W. unit			Well No.	1			Owner							
Contractor	Discovery #4			To Quality Oilwell Cementing, Inc.											
Type Job	Rotary Plug			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.	3738			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	305 60/40 4.42 4.40						
Meas Line				Displace											
EQUIPMENT															
Pumptrk	20	No.	Cement	Carr's			Common	183							
			Helper				Poz. Mix	122							
Bulktrk		No.	Driver	T.M			Gel.	11							
			Driver				Calcium								
Bulktrk	9	No.	Driver	Davy											
			Driver												
JOB SERVICES & REMARKS															
Remarks:							Hulls								
Rat Hole	30SK						Salt								
Mouse Hole	15SK						Flowseal	75#							
Centralizers							Kol-Seal								
Baskets							Mud CLR 48								
D/V or Port Collar							CFL-117 or CD110 CAF 38								
	1st	3650	50SK				Sand								
	2nd	1860	50SK				Handling	316							
	3rd	1140	100SK				Mileage								
	4th	270	50SK				FLOAT EQUIPMENT								
	5th	40	10SK				Guide Shoe	8 7/8 Dy Hole Plug							
							Centralizer								
							Baskets								
							AFU Inserts								
							Float Shoe								
							Latch Down								
							Pumptrk Charge	plug							
							Mileage	67							
							Tax								
							Discount								
							Total Charge								
X Signature	Dale Decker						Thanks								