



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Richland Oil Investments LLC

22-12-33 Logan Co KS

608 E. 1st. P.O.. Box 166
Palco Tx 67657

Moore 22-3

Job Ticket: 64843

DST#: 1

ATTN: Steve Murphy

Test Start: 2019.07.30 @ 08:45:15

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:01:00

Time Test Ended: 14:49:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Mike Roberts

Unit No: 81

Interval: 4604.00 ft (KB) To 4650.00 ft (KB) (TVD)

Total Depth: 4650.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3108.00 ft (KB)

3098.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8521

Inside

Press@RunDepth: 34.73 psig @ 4640.00 ft (KB)

Start Date: 2019.07.30

End Date:

2019.07.30

Start Time: 08:21:00

End Time:

14:25:15

Capacity: 8000.00 psig

Last Calib.: 2019.07.30

Time On Btm: 2019.07.30 @ 10:36:30

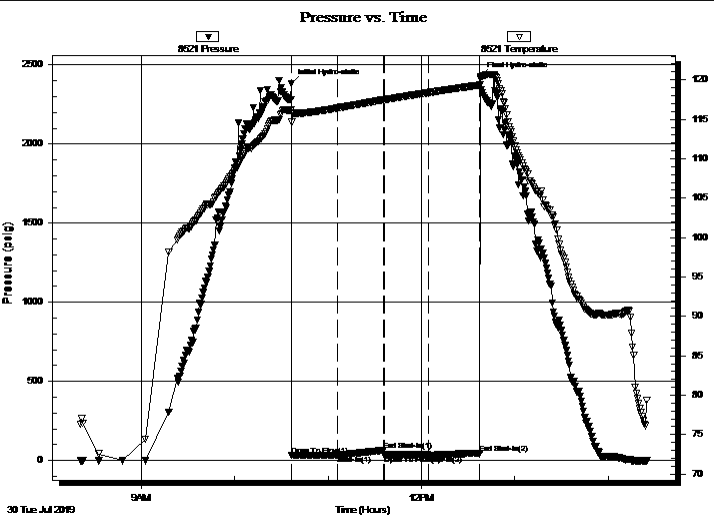
Time Off Btm: 2019.07.30 @ 12:38:00

TEST COMMENT: IF: Built to weak surface blow

IS: No return blow

FF: No blow

FS: No return blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	2384.56	116.23	Initial Hydro-static
1	33.17	114.62	Open To Flow (1)
30	34.32	116.41	Shut-In(1)
60	65.59	117.48	End Shut-In(1)
60	35.53	117.46	Open To Flow (2)
88	34.73	118.38	Shut-In(2)
121	47.42	119.33	End Shut-In(2)
122	2425.62	120.20	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	socm 10%o 90%m	0.07

Gas Rates

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



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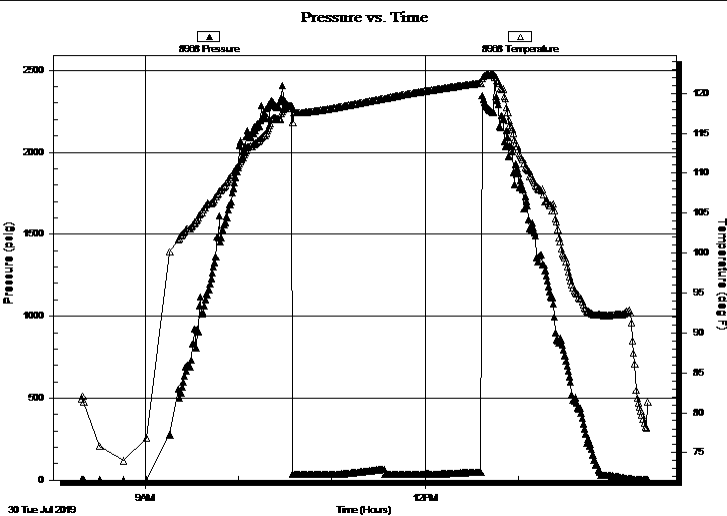
Test Start: 2019.07.30 @ 08:45:15

GENERAL INFORMATION:

Formation:	Johnson			Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No	Whipstock:	ft (KB)	Tester:	Mike Roberts
Time Tool Opened:	11:01:00			Unit No:	81
Time Test Ended:	14:49:30			Reference Elevations:	3108.00 ft (KB)
Interval:	4604.00 ft (KB) To 4650.00 ft (KB) (TVD)				3098.00 ft (CF)
Total Depth:	4650.00 ft (KB) (TVD)			KB to GR/CF:	10.00 ft
Hole Diameter:	7.88 inches	Hole Condition:	Fair		

Serial #: 8968	Outside			Capacity:	8000.00 psig
Press@RunDepth:	psig @	4640.00 ft (KB)		Last Calib.:	2019.07.30
Start Date:	2019.07.30	End Date:	2019.07.30	Time On Btm:	
Start Time:	08:19:15	End Time:	14:23:30	Time Off Btm:	

TEST COMMENT: IF: Built to weak surface blow
IS: No return blow
FF: No blow
FS: No return blow



PRESSURE SUMMARY

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

Recovery

Length (ft)	Description	Volume (bbl)
5.00	socm 10%o 90%o m	0.07

Gas Rates

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



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TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Richland Oil Investments LLC

22-12-33 Logan Co KS

608 E. 1st. P.O.. Box 166
Palco Tx 67657

Moore 22-3

Job Ticket: 64843

DST#: 1

ATTN: Steve Murphy

Test Start: 2019.07.30 @ 08:45:15

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 0 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: 0 ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.98 in ³	Gas Cushion Type:	
Resistivity: 0.00 ohm.m	Gas Cushion Pressure: psig	
Salinity: 4000.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	socm 10%o 90%m	0.070

Total Length: 5.00 ft Total Volume: 0.070 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8521

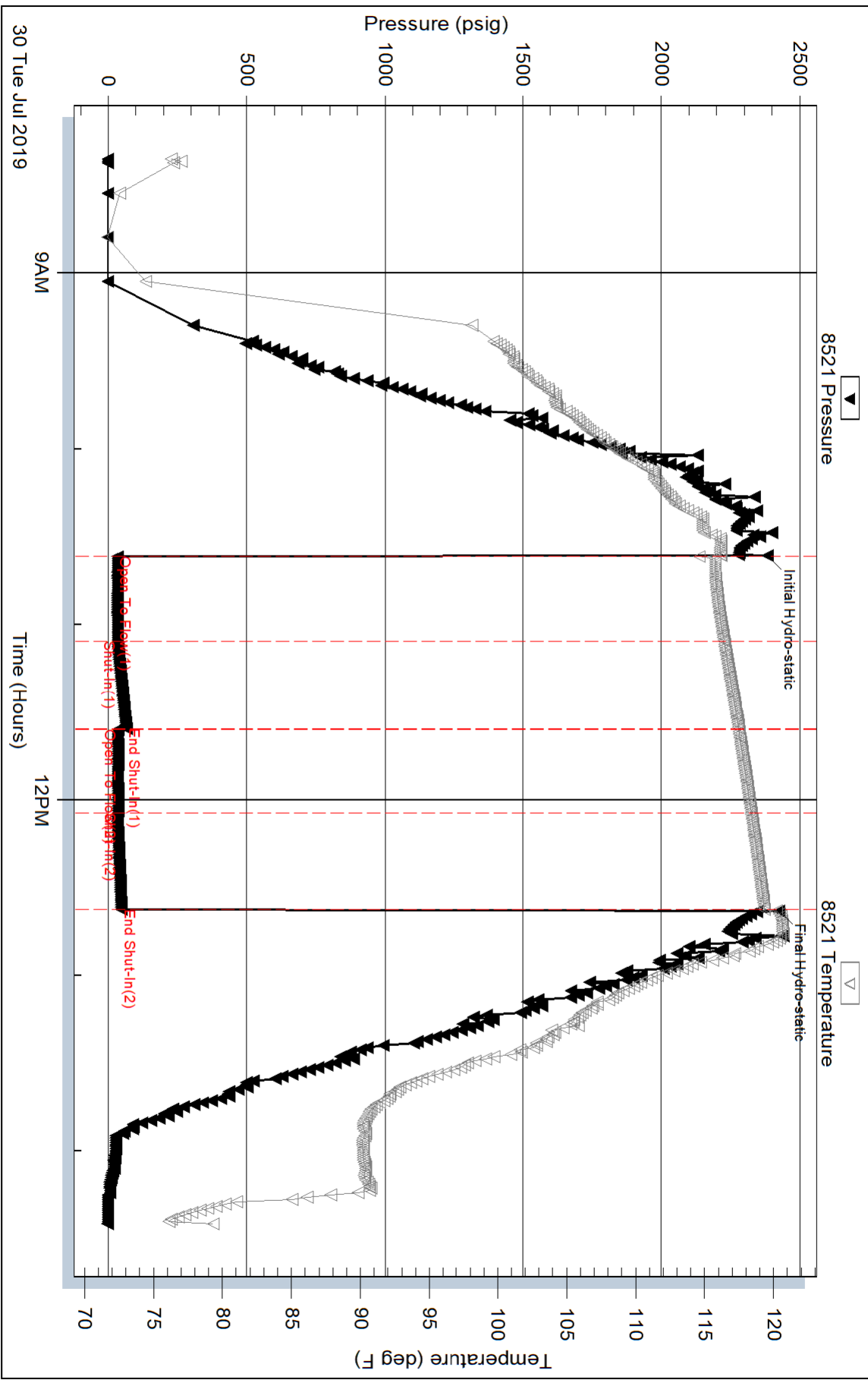
Inside

Richland Oil Investments LLC

Moore 22-3

DST Test Number: 1

Pressure vs. Time



Serial #: 8968

Outside Richland Oil Investments LLC

Moore 22-3

DST Test Number: 1

