



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

TIME ON: 2-3 17:02
TIME OFF: 2-4 01:50

DRILL-STEM TEST TICKET
FILE: Hanks-MRLIUnit1Dst3

Company Raymond Oil Company Inc. Lease & Well No. Hanks-MRLI Unit #1
Contractor L.D Drilling Charge to Raymond Oil Company Inc
Elevation 2611 KB Formation Chero Snd Effective Pay -- Ft. Ticket No. SO442
Date 02/03/2014 Sec. 26 Twp. 18 S Range 27 W County Lane State KANSAS
Test Approved By Kim Shoemaker Diamond Representative Jacob McCallie

Formation Test No. 3 Interval Tested from 4516 ft. to 4570 ft. Total Depth 4690 ft.

Packer Depth 4511 ft. Size 6 3/4 in. Packer depth 4570 ft. Size 6 3/4 in.

Packer Depth 4516 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4497 ft. Recorder Number 5155 Cap. 5,000 P.S.I.

Bottom Recorder Depth (Outside) 4548 ft. Recorder Number 5586 Cap. 5,000 P.S.I.

Below Straddle Recorder Depth 4687 ft. Recorder Number 3851 Cap. 5,000 P.S.I.

Mud Type Chem Viscosity 54 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9.3 Water Loss 6.8 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in

Chlorides 3,500 P.P.M. Drill Pipe Length 4483 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 54 (23A) ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. TP: 120' Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: 1/2" Blow- Built to 10" in 30 min **NOBB**

2nd Open: 1/4" Blow- Built to BB in 37 min **NOBB**

Recovered 78 ft. of SLWCM 13% W 87% M

Recovered 189 ft. of SLMCW 90% W 10% M

Recovered 267 ft. of TOTAL FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of PH: 7 RW: .51 @ 42 degrees F

Recovered _____ ft. of Chlorides: 22,000 ppm

Remarks: Diesel in bucket

Tool Sample: 40% W 60% M

Time Set Packer(s) 7:42 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 11:27 PM ^{A.M.}/_{P.M.} Maximum Temperature 128

Initial Hydrostatic Pressure..... (A) 2278 P.S.I.

Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 68 P.S.I.

Initial Closed In Period..... Minutes 60 (D) 1274 P.S.I.

Final Flow Period..... Minutes 45 (E) 69 P.S.I. to (F) 140 P.S.I.

Final Closed In Period..... Minutes 90 (G) 1276 P.S.I.

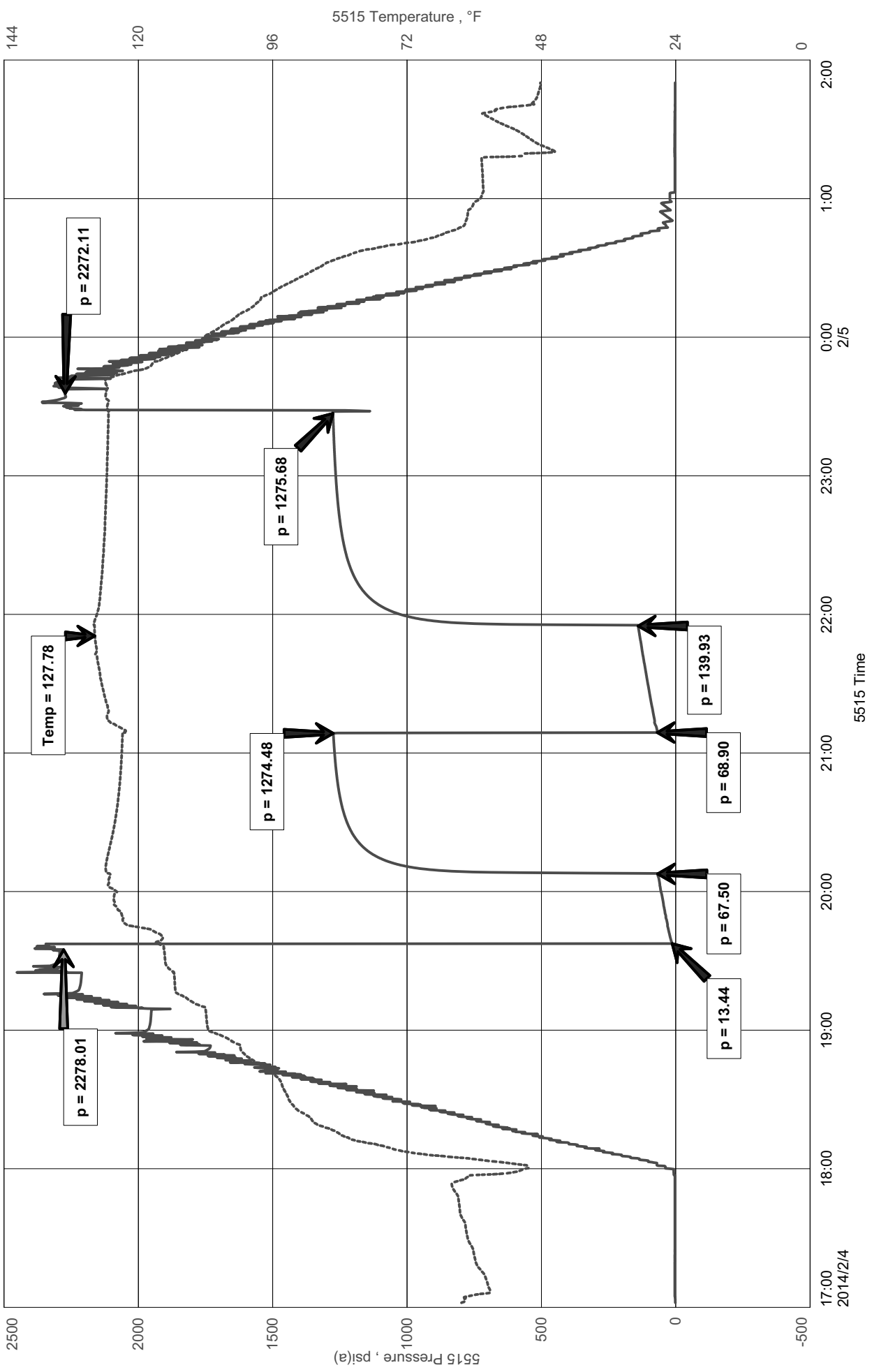
Final Hydrostatic Pressure..... (H) 2272 P.S.I.

Diamond Testing shall not be liable for damages of any kind to 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 statement or opinion concerning the result 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.

Raymond Oil Company Inc
 Dst 3 4516-4570 TD 4690 Chero Snd
 Start Test Date: 2014/02/03
 Final Test Date: 2014/02/04

Hanks-MRLI Unit # 1

Hanks-MRLI Unit # 1
 Formation: Dst 3 4516-4570 TD 4690 Chero Snd
 Pool: WC
 Job Number: SO442



Diamond Testing

General information Report

General Information

Company Name Raymond Oil Company Inc

Contact	Clarke Sandberg	Job Number	SO442
Well Name	Hanks-MRLI Unit # 1	Representative	Jacob McCallie
Unique Well ID	Dst 3 4516-4570 TD 4690 Chero Snd	Well Operator	L.D Drilling
Surface Location	Sec: 26 18s 27w Lane County	Report Date	2014/02/03
Well License Number		Prepared By	Jacob McCallie
Field	Wildcat		
Well Type	Vertical		

Test Type	Drill Stem Test		
Formation	Dst 3 4516-4570 TD 4690 Chero Snd		
Well Fluid Type	06 Water	Start Test Time	17:02:00
		Final Test Time	01:50:00
Start Test Date	2014/02/03		
Final Test Date	2014/02/04		
Gauge Name	5515		
Gauge Serial Number			

Test Results

RECOVERED:

78'	SLWCM	13% W 87% M
189'	SLMCW	90% W 10% M
267'	TOTAL FLUID	

PH: 7

RW: .51 @ 42 degrees F

Chlorides: 22,000 ppm

TOOL SAMPLE:

40% W 60% M