

DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	T556
Contact	JUSTIN CLEGG	Representative	TIM VENTERS
Well Name	LUEBBERS UNIT #1	Well Operator	RITCHIE EXPLORATION, INC.
Unique Well ID	DST #1, TORONTO, 3938-3992	Report Date	2016/09/04
Surface Location	SEC 26-15S-36W, LOGAN CO. KS,	Prepared By	TIM VENTERS
Well License Number			
Field	WILDCAT		
Well Type	Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST #1, TORONTO, 3938-3992
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2016/09/04	Start Test Time	12:01:00
Final Test Date	2016/09/04	Final Test Time	18:58:00

Gauge Name	5504
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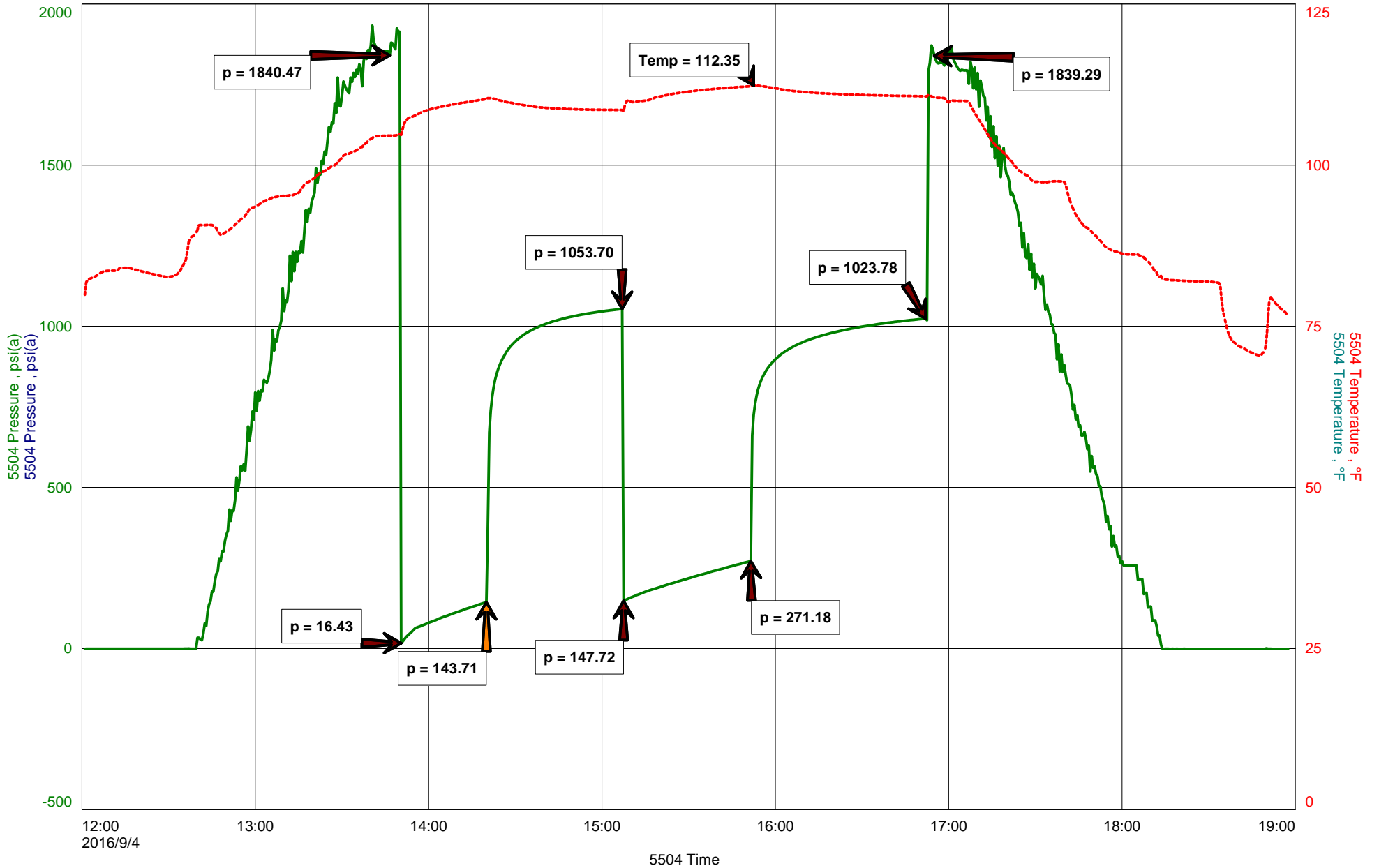
Test Results

RECOVERED: 65' HMCW, W/TR. O, TRACE OIL, 59% WATER, 41% MUD
250' MCW, 71% WATER, 29% MUD
250' SMCW, 90% WATER, 10% MUD
565' TOTAL FLUID

TOOL SAMPLE: TRACE OIL < 1%, 83% WATER. 17% MUD

CHLORIDES: 30,000 ppm
PH: 7.0
RW: .25 @ 70 deg.

LUEBBERS UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: LUEBBERSUNIT1DST1

TIME ON: 12:01
TIME OFF: 18:58

Company RITCHIE EXPLORATION, INC. Lease & Well No. LUEBBERS UNIT #1
Contractor WW DRILLING, LLC RIG #2 Charge to RITCHIE EXPLORATION, INC.
Elevation 3276 KB Formation TORONTO Effective Pay _____ Ft. Ticket No. T556
Date 9-4-16 Sec. 26 Twp. _____ 15 S Range _____ 36 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIM VENTERS

Formation Test No. 1 Interval Tested from 3938 ft. to 3992 ft. Total Depth 3992 ft.
Packer Depth 3933 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 3938 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3919 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 3989 ft. Recorder Number 11029 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 61 Drill Collar Length 119 ft. I.D. 2 1/4 in.
Weight 8.9 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 3,500 P.P.M. Drill Pipe Length 3786 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 22 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{32' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING, REACHING BOB 15 MIN. (NO BB)
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 18 1/2 MIN. (NO BB)

Recovered 65 ft. of HMCW W/TR. O, TRACE OIL, 59% WATER, 41% MUD
Recovered 250 ft. of MCW, 71% WATER, 29% MUD
Recovered 250 ft. of SMCW, 90% WATER, 10% MUD
Recovered 565 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 30,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 7.0	Other Charges
Remarks: _____	RW: .25 @ 70 deg.	Insurance
TOOL SAMPLE: TRACE OIL, < 1%, 83% WATER, 17% MUD		Total

Time Set Packer(s) 1:50 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 4:52 PM ^{A.M.}/_{P.M.} Maximum Temperature 112 deg.

Initial Hydrostatic Pressure..... (A) 1840 P.S.I.
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 144 P.S.I.
Initial Closed In Period..... Minutes 47 (D) 1054 P.S.I.
Final Flow Period..... Minutes 45 (E) 148 P.S.I. to (F) 271 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1024 P.S.I.
Final Hydrostatic Pressure..... (H) 1839 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.