

DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	T558
Contact	JUSTIN CLEGG	Representative	TIM VENTERS
Well Name	LUEBBERS UNIT #1	Well Operator	RITCHIE EXPLORATION, INC.
Unique Well ID	DST #3, LKC "E&F", 4092-4126	Report Date	2016/09/06
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 #3, LKC "E&F", 4092-4126
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2016/09/05	Start Test Time	17:47:00
Final Test Date	2016/09/06	Final Test Time	01:24:00

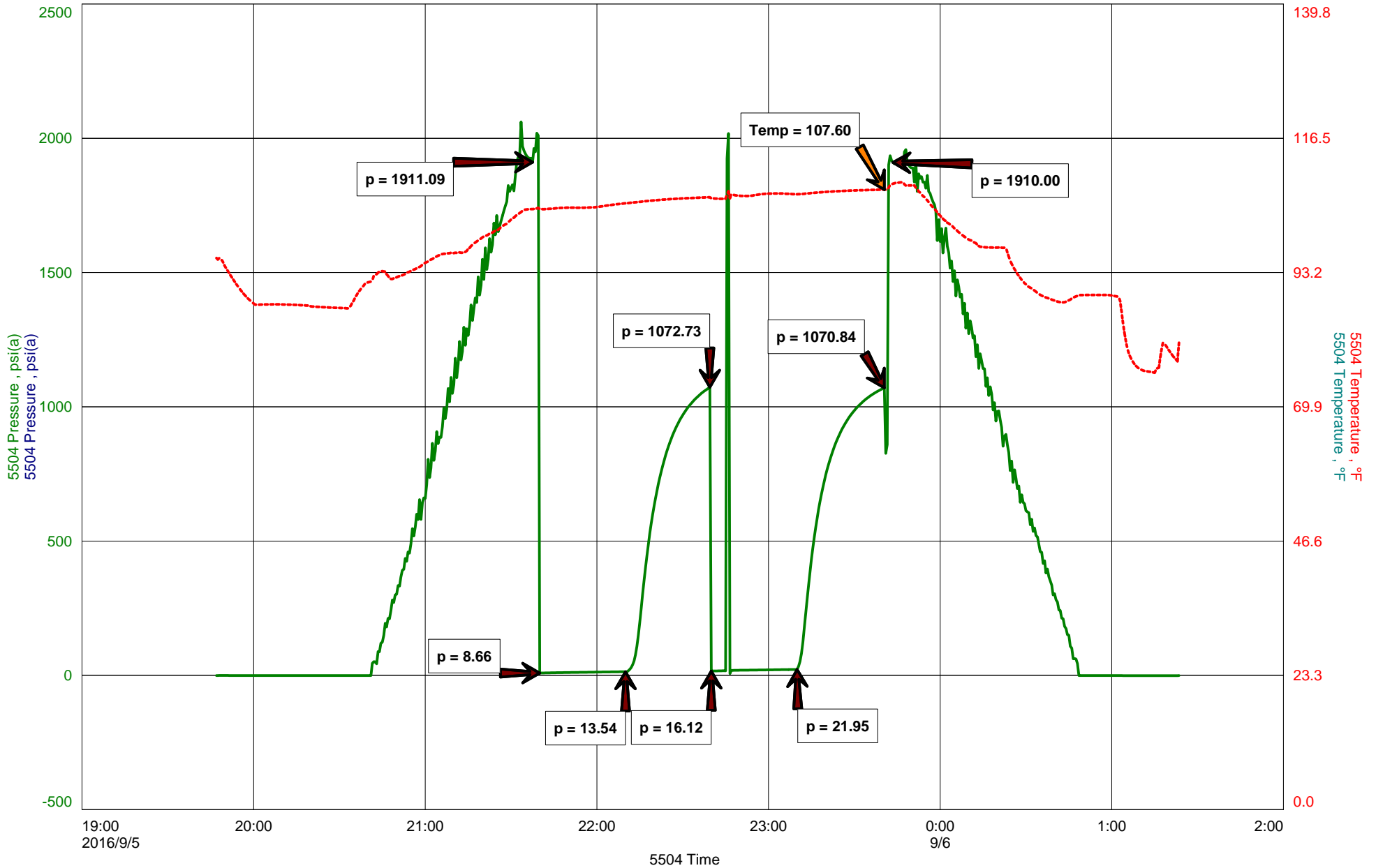
Gauge Name	5504
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Test Results

RECOVERED: 20' DRILLING MUD

TOOL SAMPLE: 100% DRILLING MUD

LUEBBERS UNIT #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: LUEBBERSUNIT1DST3

TIME ON: 17:47 9-5-16
TIME OFF: 01:24 9-6-16

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 LKC "E&F" Effective Pay _____ Ft. Ticket No. T558
Date 9-5-16 Sec. 26 Twp. _____ 15 S Range _____ 36 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIM VENTERS

Formation Test No. 3 Interval Tested from 4092 ft. to 4126 ft. Total Depth 4126 ft.
Packer Depth 4087 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4092 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4073 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4123 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 54 Drill Collar Length 119 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 4,500 P.P.M. Drill Pipe Length 3940 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 34 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: VERY WEAK SURFACE BLOW THROUGHOUT PERIOD. (NO BB)
2nd Open: NO BLOW THROUGHOUT PERIOD. (NO BB)

Recovered 20 ft. of DRILLING MUD
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: WE FLUSHED TOOL 5 MIN. INTO FINAL FLOW PERIOD AND JUST GOT THE SURGE BLOW.
TOOL SAMPLE: 100% DRILLING MUD

Time Set Packer(s) 9:39 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 11:39 PM ^{A.M.}/_{P.M.} Maximum Temperature 108 deg.

Initial Hydrostatic Pressure..... (A) 1911 P.S.I.
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 14 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 1073 P.S.I.
Final Flow Period..... Minutes 30 (E) 16 P.S.I. to (F) 22 P.S.I.
Final Closed In Period..... Minutes 30 (G) 1071 P.S.I.
Final Hydrostatic Pressure..... (H) 1910 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.