

DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

| | | | |
|---------------------|---------------------------------|----------------|---------------------------|
| Company Name | RITCHIE EXPLORATION, INC. | Job Number | T601 |
| Contact | JUSTIN CLEGG | Representative | TIM VENTERS |
| Well Name | VMW LAND 16C #1 | Well Operator | RITCHIE EXPLORATION, INC. |
| Unique Well ID | DST #1, ALTAMONT, 4510-4592 | Report Date | 2017/03/18 |
| Surface Location | SEC 16-16S-38W, WICHITA CO. KS. | Prepared By | TIM VENTERS |
| Well License Number | | | |
| Field | WILDCAT | | |
| Well Type | Vertical | | |

Test Information

| | |
|-----------------|-----------------------------|
| Test Type | CONVENTIONAL |
| Formation | DST #1, ALTAMONT, 4510-4592 |
| Well Fluid Type | 01 Oil |
| Test Purpose | Initial Test |

| | | | |
|-----------------|------------|-----------------|----------|
| Start Test Date | 2017/03/17 | Start Test Time | 17:34:00 |
| Final Test Date | 2017/03/18 | Final Test Time | 00:17:00 |

| | |
|------------|------|
| Gauge Name | 5504 |
|------------|------|

Test Results

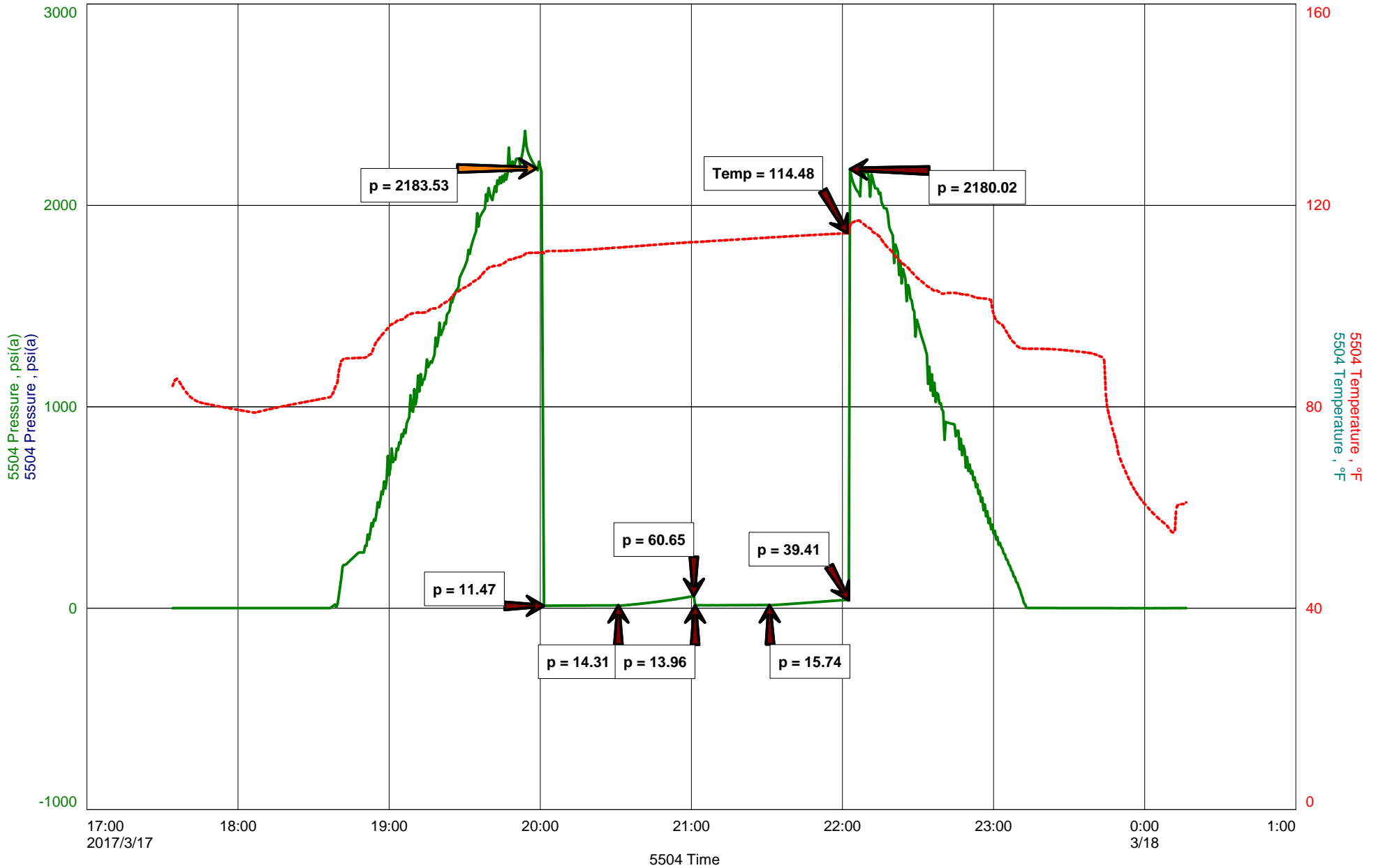
RECOVERY: 5' MUD

TOOL SAMPLE: 100% MUD

RITCHIE EXPLORATION, INC.
DST #1, ALTAMONT, 4510-4592
Start Test Date: 2017/03/17
Final Test Date: 2017/03/18

VMW LAND 16C #1
Formation: DST #1, ALTAMONT, 4510-4592
Pool: WILDCAT
Job Number: T601

VMW LAND 16C #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: VMWLAND16C1DST1

TIME ON: 17:34 3-17-17
TIME OFF: 00:17 3-18-17

Company RITCHIE EXPLORATION, INC. Lease & Well No. VMW LAND 16C #1
Contractor WW DRILLING, LLC RIG #10 Charge to RITCHIE EXPLORATION, INC.
Elevation 3452 KB Formation ALTAMONT Effective Pay _____ Ft. Ticket No. T601
Date 3-17-17 Sec. 16 Twp. 16 S Range 38 W County WICHITA State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIM VENTERS

Formation Test No. 1 Interval Tested from 4510 ft. to 4592 ft. Total Depth 4592 ft.
Packer Depth 4505 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4510 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4491 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4589 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 55 Drill Collar Length 123 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 4,000 P.P.M. Drill Pipe Length 4354 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 19 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{63' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

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

| | |
|--------------------------------------|---------------|
| Recovered <u>5</u> ft. of <u>MUD</u> | |
| Recovered _____ ft. of _____ | |
| Recovered _____ ft. of _____ | |
| Recovered _____ ft. of _____ | |
| Recovered _____ ft. of _____ | Price Job |
| Recovered _____ ft. of _____ | Other Charges |
| Remarks: _____ | Insurance |
| TOOL SAMPLE: <u>100% MUD</u> | Total |

Time Set Packer(s) 8:01 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 10:01 PM ^{A.M.}/_{P.M.} Maximum Temperature 114 deg.
Initial Hydrostatic Pressure..... (A) 2184 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 14 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 61 P.S.I.
Final Flow Period..... Minutes 30 (E) 14 P.S.I. to (F) 16 P.S.I.
Final Closed In Period..... Minutes 30 (G) 39 P.S.I.
Final Hydrostatic Pressure..... (H) 2180 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.