

DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

| | | | |
|---------------------|---------------------------------|----------------|---------------------------|
| Company Name | RITCHIE EXPLORATION, INC. | Job Number | T615 |
| Contact | JUSTIN CLEGG | Representative | TIM VENTERS |
| Well Name | SCHROEDER 22C #1 | Well Operator | RITCHIE EXPLORATION, INC. |
| Unique Well ID | DST #7, ALTAMONT "B", 4503-4520 | Report Date | 2017/05/25 |
| Surface Location | SEC 22-15S-36W, LOGAN CO. KS. | Prepared By | TIM VENTERS |
| Well License Number | | | |
| Field | WILDCAT | | |
| Well Type | Vertical | | |

Test Information

| | |
|-----------------|---------------------------------|
| Test Type | STRADDLE |
| Formation | DST #7, ALTAMONT "B", 4503-4520 |
| Well Fluid Type | 01 Oil |
| Test Purpose | Initial Test |

| | | | |
|-----------------|------------|-----------------|----------|
| Start Test Date | 2017/05/25 | Start Test Time | 12:28:00 |
| Final Test Date | 2017/05/25 | Final Test Time | 20:22:00 |

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

Test Results

RECOVERED: 5' SW&MCO, 97% OIL, 1% WATER, 2% MUD, GRAVITY: 18
30' SWHOCM, 49% OIL, 1% WATER, 50% MUD
120' SO&WCM, 13% OIL, 9% WATER, 78% MUD
155' TOTAL FLUID

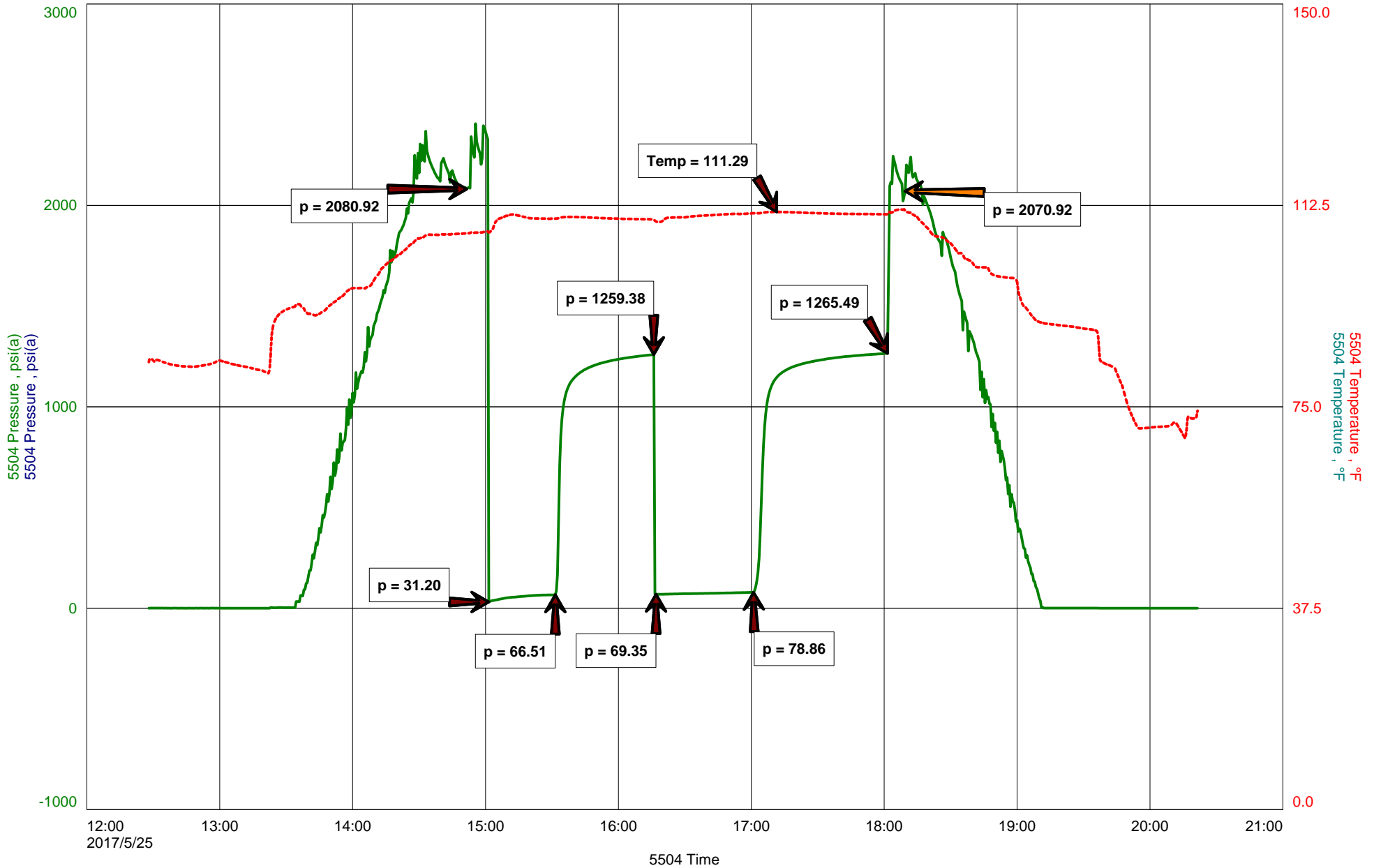
TOOL SAMPLE: 26% OIL, 16% WATER, 58% MUD

CHLORIDES: 17,000 ppm
PH: 8.5
RW: .37 @ 77 deg.

RITCHIE EXPLORATION, INC.
DST #7, ALTAMONT "B", 4503-4520
Start Test Date: 2017/05/25
Final Test Date: 2017/05/25

SCHROEDER 22C #1
Formation: DST #7, ALTAMONT "B", 4503-4520
Pool: WILDCAT
Job Number: T615

SCHROEDER 22C #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: SCHROEDER22C1DST7

TIME ON: 12:28
TIME OFF: 20:22

Company RITCHIE EXPLORATION, INC. Lease & Well No. SCHROEDER 22C #1
Contractor WW DRILLING, LLC RIG #10 Charge to RITCHIE EXPLORATION, INC.
Elevation 3304 KB Formation ALTAMONT "B" Effective Pay _____ Ft. Ticket No. T615
Date 5-25-17 Sec. 22 Twp. 15 S Range 36 W County LOGAN State KANSAS
Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 7 Interval Tested from 4503 ft. to 4520 ft. Total Depth 4976 LTD ft.
Packer Depth 4498 ft. Size 6 3/4 in. Packer depth 4520 ft. Size 6 3/4 in.
Packer Depth 4503 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4484 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4517 ft. Recorder Number 11029 Cap. 5,025 P.S.I.
Below Straddle Recorder Depth 4911 ft. Recorder Number 5514 Cap. 5,000 P.S.I.

Mud Type CHEMICAL Viscosity 58 Drill Collar Length 118 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 9,500 P.P.M. Drill Pipe Length 4352 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 17 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, BUILDING TO 2 1/2 INCHES. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, BUILDING TO 2 1/4 INCHES. (NO BB)

Recovered 5 ft. of SW&MCO, 97% OIL, 1% WATER, 2% MUD, GRAVITY: 18
Recovered 30 ft. of SWHOCM, 49% OIL, 1% WATER, 50% MUD
Recovered 120 ft. of SO&WCM, 13% OIL, 9% WATER, 78% MUD
Recovered 155 ft. of TOTAL FLUID

| | | |
|--|-----------------------|---------------|
| Recovered _____ ft. of _____ | CHLORIDES: 17,000 ppm | Price Job |
| Recovered _____ ft. of _____ | PH: 8.5 | Other Charges |
| Remarks: _____ | RW: .37 @ 77 deg. | Insurance |
| TOOL SAMPLE: 26% OIL, 16% WATER, 58% MUD | | Total |

Time Set Packer(s) 3:01 PM A.M. P.M. Time Started Off Bottom 6:01 PM A.M. P.M. Maximum Temperature 111 deg.

Initial Hydrostatic Pressure..... (A) 2081 P.S.I.
Initial Flow Period..... Minutes 30 (B) 31 P.S.I. to (C) 67 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1259 P.S.I.
Final Flow Period..... Minutes 45 (E) 69 P.S.I. to (F) 79 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1265 P.S.I.
Final Hydrostatic Pressure..... (H) 2071 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.