

# DIAMOND TESTING, LLC

TESTER : TIM VENTERS  
CELL # 620-388-6333

## General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	T610
Contact	JUSTIN CLEGG	Representative	TIM VENTERS
Well Name	SCHROEDER 22C #1	Well Operator	RITCHIE EXPLORATION, INC.
Unique Well ID	DST #2, LANSING "A", 4064-4087	Report Date	2017/05/19
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	CONVENTIONAL
Formation	DST #2, LANSING "A", 4064-4087
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2017/05/18	Start Test Time	17:37:00
Final Test Date	2017/05/19	Final Test Time	00:44:00

Gauge Name	5504
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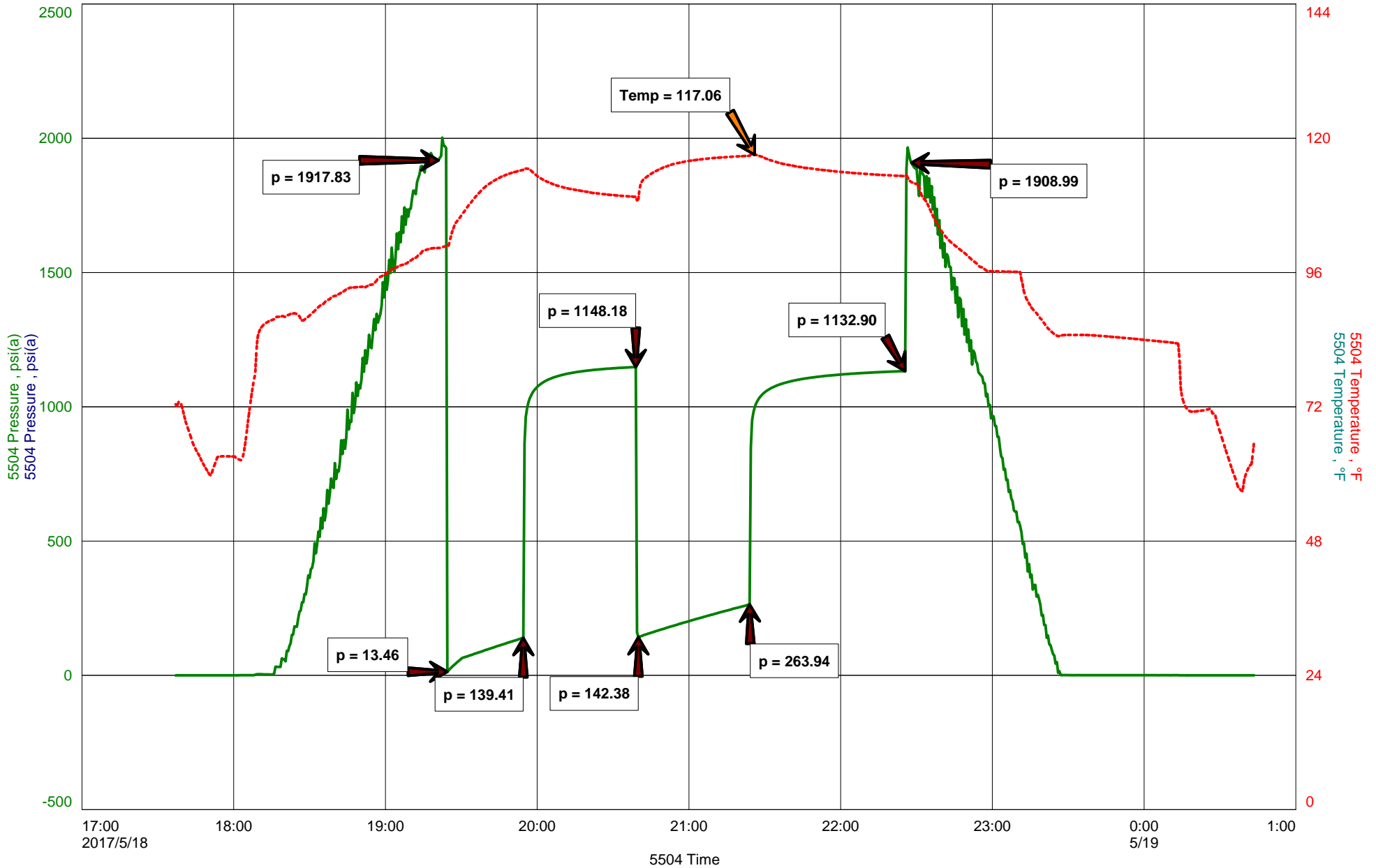
## Test Results

RECOVERED: 5' MCW W/O SPKS, OIL SPECKS, 74% WATER, 26% MUD  
185' MCW, 72% WATER, 28% MUD  
190' SMCW, 97% WATER, 3% MUD  
185' WATER, 100% WATER  
565' TOTAL FLUID

TOOL SAMPLE: TRACE OIL < 1%, 84% WATER, 16% MUD

CHLORIDES: 30,000 ppm  
PH: 7.5  
RW: .28 @ 62 deg.

# SCHROEDER 22C #1





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: SCHROEDER22C1DST2

TIME ON: 17:37 5-18-17  
TIME OFF: 00:44 5-19-17

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 LANSING "A" Effective Pay \_\_\_\_\_ Ft. Ticket No. T610  
Date 5-18-17 Sec. 22 Twp. \_\_\_\_\_ 15 S Range \_\_\_\_\_ 36 W County LOGAN State KANSAS  
Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 2 Interval Tested from 4064 ft. to 4087 ft. Total Depth 4087 ft.  
Packer Depth 4059 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4064 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 4045 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4084 ft. Recorder Number 13819 Cap. 5,025 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 62 Drill Collar Length 118 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 4,400 P.P.M. Drill Pipe Length 3913 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 23 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: WEAK 1/4 INCH BLOW, BUILDING, REACHING BOB 16 1/2 MIN. (VWS BB)  
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 19 MIN. (NO BB)

Recovered 5 ft. of MCW W/O SPKS, OIL SPECKS, 74% WATER, 26% MUD  
Recovered 185 ft. of MCW, 72% WATER, 28% MUD  
Recovered 190 ft. of SMCW, 97% WATER, 3% MUD  
Recovered 185 ft. of WATER, 100% WATER

Recovered <u>565</u> ft. of <u>TOTAL FLUID</u>	<u>CHLORIDES: 30,000 ppm</u>	Price Job
Recovered _____ ft. of _____	<u>PH: 7.5</u>	Other Charges
Remarks: _____	<u>RW: .28 @ 62 deg.</u>	Insurance
<u>TOOL SAMPLE: TRACE OIL &lt;1%, 84% WATER, 16% MUD</u>		Total

Time Set Packer(s) 7:24 PM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 10:24 PM <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 117 deg.

Initial Hydrostatic Pressure..... (A) 1918 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 139 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1148 P.S.I.  
Final Flow Period..... Minutes 45 (E) 142 P.S.I. to (F) 264 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1133 P.S.I.  
Final Hydrostatic Pressure..... (H) 1909 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.