

DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	T613
Contact	JUSTIN CLEGG	Representative	TIM VENTERS
Well Name	SCHROEDER 22C #1	Well Operator	RITCHIE EXPLORATION, INC.
Unique Well ID	DST #5, LANSING "J", 4314-4335	Report Date	2017/05/21
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 #5, LANSING "J", 4314-4335
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2017/05/20	Start Test Time	22:03:00
Final Test Date	2017/05/21	Final Test Time	05:10:00

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

Test Results

RECOVERED: 40' HO&MCW, 35% OIL, 42% WATER, 23% MUD
245' SO&MCW, 3% OIL, 86% WATER, 11% MUD
285' TOTAL FLUID

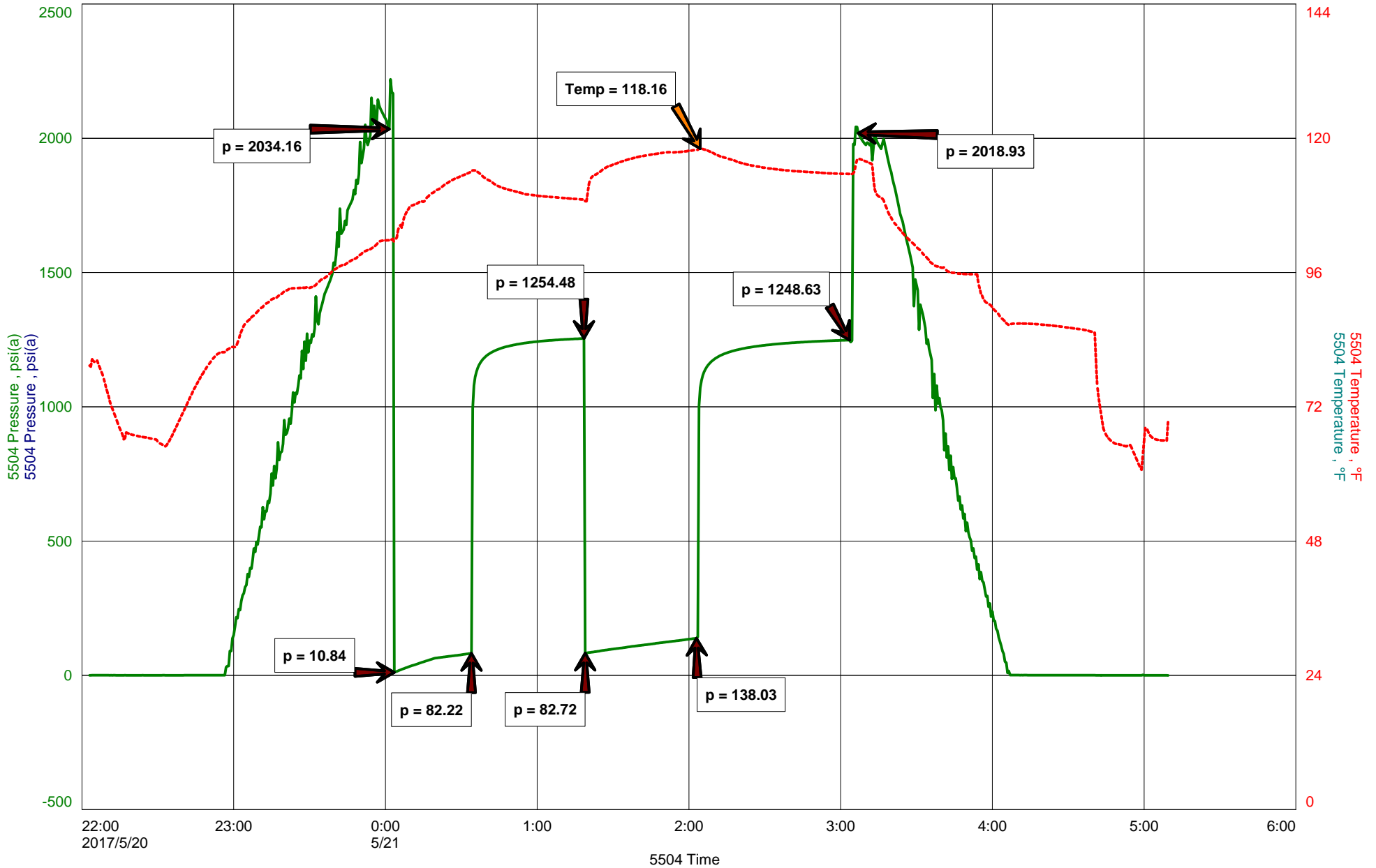
TOOL SAMPLE: 4% OIL, 84% WATER, 12% MUD

CHLORIDES: 24,000 ppm
PH: 7.5
RW: .38 @ 64 deg.

RITCHIE EXPLORATION, INC.
DST #5, LANSING "J", 4314-4335
Start Test Date: 2017/05/20
Final Test Date: 2017/05/21

SCHROEDER 22C #1
Formation: DST #5, LANSING "J", 4314-4335
Pool: WILDCAT
Job Number: T613

SCHROEDER 22C #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: SCHROEDER22C1DST5

TIME ON: 22:03 5-20-17
TIME OFF: 05:10 5-21-17

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 "J" Effective Pay _____ Ft. Ticket No. T613
Date 5-21-17 Sec. 22 Twp. 15 S Range 36 W County LOGAN State KANSAS
Test Approved By MAX LOVELY Diamond Representative TIM VENTERS

Formation Test No. 5 Interval Tested from 4314 ft. to 4335 ft. Total Depth 4335 ft.
Packer Depth 4309 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4314 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4295 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4332 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 54 Drill Collar Length 118 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,200 P.P.M. Drill Pipe Length 4163 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 21 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 TO 8 INCHES. (VWS BB)
2nd Open: WEAK SURFACE BLOW, BUILDING TO 10 INCHES. (NO BB)

Recovered 40 ft. of HO&MCW, 35% OIL, 42% WATER, 23% MUD
Recovered 245 ft. of SO&MCW, 3% OIL, 86% WATER, 11% MUD
Recovered 285 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 24,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 7.5	Other Charges
Remarks: _____	RW: .38 @ 64 deg.	Insurance
TOOL SAMPLE: 4% OIL, 84% WATER, 12% MUD		Total

Time Set Packer(s) 12:03 AM A.M. P.M. Time Started Off Bottom 3:03 AM A.M. P.M. Maximum Temperature 118 deg.

Initial Hydrostatic Pressure..... (A) 2034 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 82 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1254 P.S.I.
Final Flow Period..... Minutes 45 (E) 83 P.S.I. to (F) 138 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1249 P.S.I.
Final Hydrostatic Pressure..... (H) 2019 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.