

# DIAMOND TESTING, LLC

TESTER : TIM VENTERS  
CELL # 620-388-6333

## General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	T588
Contact	JUSTIN CLEGG	Representative	TIM VENTERS
Well Name	BLAU 16C #1	Well Operator	RITCHIE EXPLORATION, INC.
Unique Well ID	DST #2, LANSING "A", 4093-4124	Report Date	2017/01/28
Surface Location	SEC 16-15S-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", 4093-4124
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2017/01/28	Start Test Time	09:12:00
Final Test Date	2017/01/28	Final Test Time	15:17:00

Gauge Name	5504
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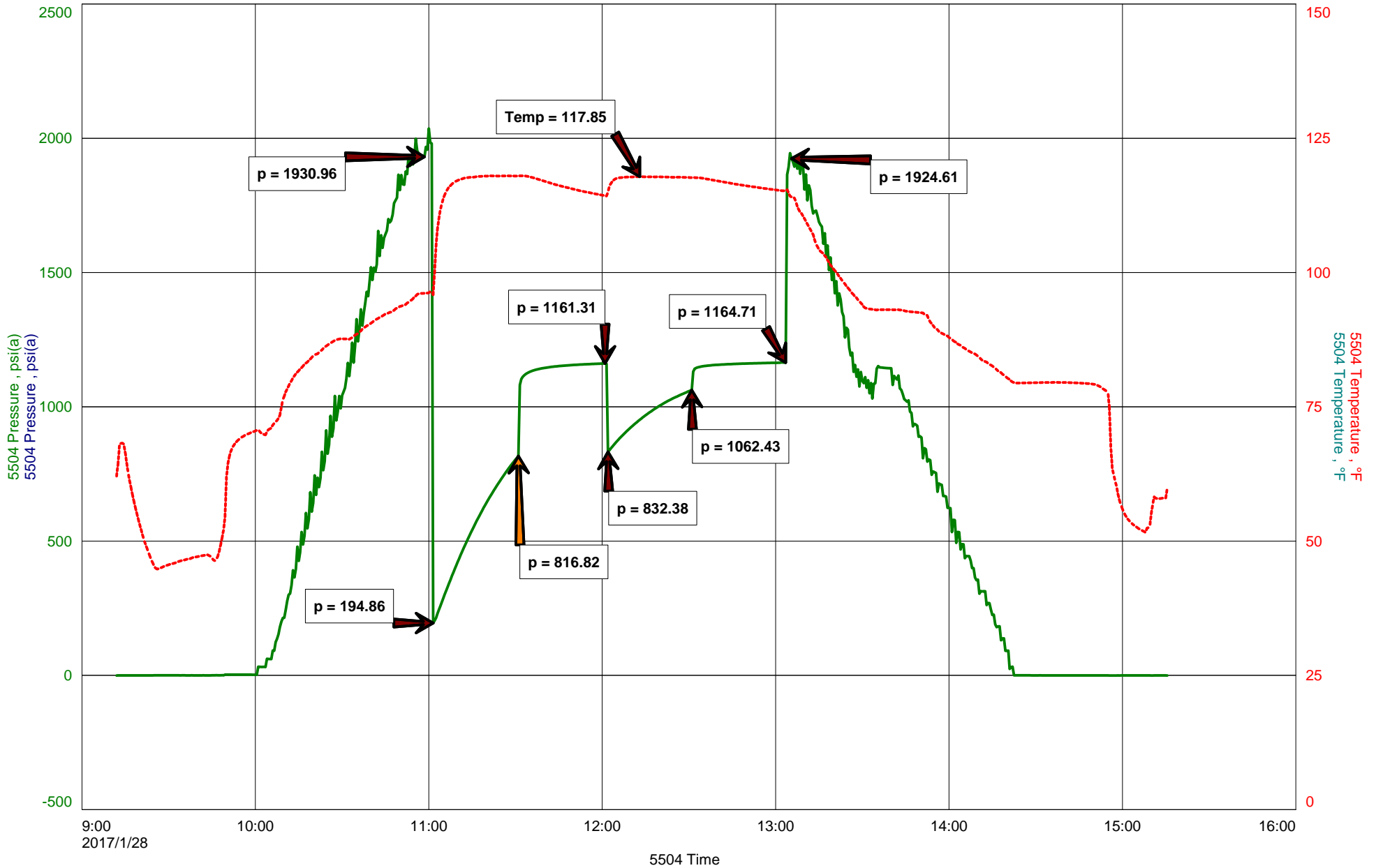
## Test Results

RECOVERED: 330' MCW, 69% WATER, 31% MUD  
500' SMCW, 98% WATER, 2% MUD  
1515' WATER  
2345' TOTAL FLUID

TOOL SAMPLE: 96% WATER, 4% MUD

CHLORIDES: 30,000,ppm  
PH: 6.0  
RW: .26 @ 61 deg.

# BLAU 16C #1





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: BLAU16C1DST2

TIME ON: 09:12  
TIME OFF: 15:17

Company RITCHIE EXPLORATION, INC. Lease & Well No. BLAU 16C #1  
Contractor WW DRILLING, LLC RIG #10 Charge to RITCHIE EXPLORATION, INC.  
Elevation 3349 KB Formation LANSING "A" Effective Pay \_\_\_\_\_ Ft. Ticket No. T588  
Date 1-28-17 Sec. 16 Twp. \_\_\_\_\_ 15 S Range \_\_\_\_\_ 36 W County LOGAN State KANSAS  
Test Approved By JOHN GOLDSMITH Diamond Representative TIM VENTERS

Formation Test No. 2 Interval Tested from 4093 ft. to 4124 ft. Total Depth 4124 ft.  
Packer Depth 4088 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4093 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 4074 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4121 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 53 Drill Collar Length 124 ft. I.D. 2 1/4 in.  
Weight 9.1 Water Loss 8.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 4,000 P.P.M. Drill Pipe Length 3936 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 31 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: **STRONG 3 1/2 INCH BLOW, BUILDING, REACHING BOB 1 1/2 MIN. (NO BB)**  
2nd Open: **GOOD 1 1/2 INCH BLOW, BUILDING, REACHING BOB 2 1/2 MIN. (NO BB)**

Recovered 330 ft. of MCW, 69% WATER, 31% MUD  
Recovered 500 ft. of SMCW, 98% WATER, 2% MUD  
Recovered 1515 ft. of WATER  
Recovered 2345 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 30,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 6.0	Other Charges
Remarks: _____	RW: .26 @ 61 deg.	Insurance
TOOL SAMPLE: 96% WATER, 4% MUD		Total

Time Set Packer(s) 11:01 AM A.M. P.M. Time Started Off Bottom 1:01 PM A.M. P.M. Maximum Temperature 118 deg.

Initial Hydrostatic Pressure..... (A) 1931 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 195 P.S.I. to (C) 817 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 1161 P.S.I.  
Final Flow Period..... Minutes 30 (E) 832 P.S.I. to (F) 1062 P.S.I.  
Final Closed In Period..... Minutes 30 (G) 1165 P.S.I.  
Final Hydrostatic Pressure..... (H) 1925 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.