

# DIAMOND TESTING, LLC

TESTER : TIM VENTERS  
CELL # 620-388-6333

## General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	T590
Contact	JUSTIN CLEGG	Representative	TIM VENTERS
Well Name	BLAU 16C #1	Well Operator	RITCHIE EXPLORATION, INC.
Unique Well ID	DST #4, LANSING "D,E,F", 4160-4234	Report Date	2017/01/30
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 #4, LANSING "D,E,F", 4160-4234
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2017/01/29	Start Test Time	16:31:20
Final Test Date	2017/01/30	Final Test Time	00:00:00

Gauge Name	5504
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## Test Results

RECOVERED: 95' SWCM W/TR. O, TRACE OIL, 4% WATER, 96% MUD  
380' HMCW W/TR. O, TRACE OIL, 52% WATER, 48% MUD  
250' MCW, 78% WATER, 22% MUD  
315' SMCW, 93% WATER, 7% MUD  
60' WCM, 24% WATER, 76% MUD  
1100' TOTAL FLUID

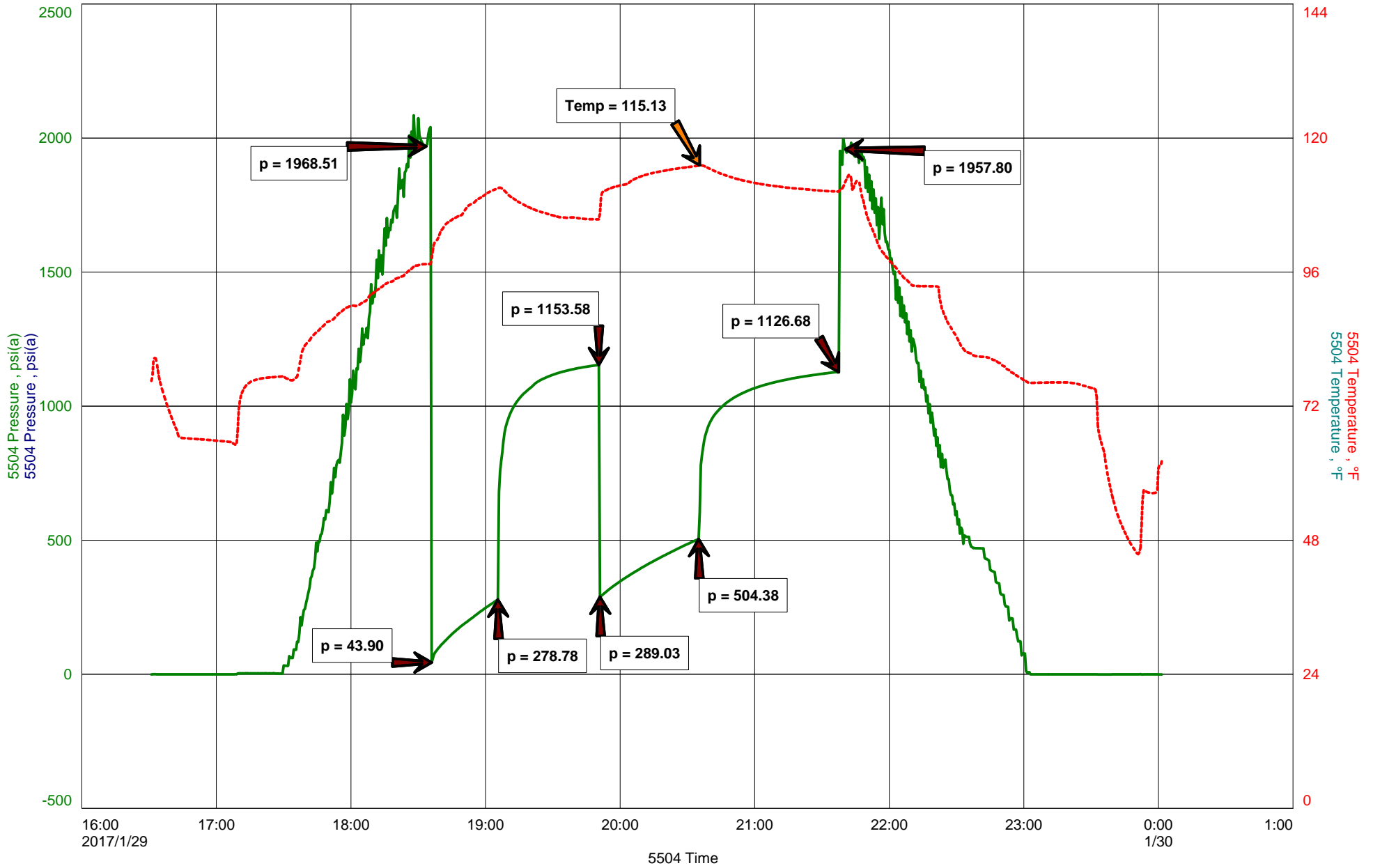
TOOL SAMPLE: 86% WATER, 14% MUD

CHLORIDES: 22,000 ppm  
PH: 6.0  
RW: .40 @ 58 deg.

RITCHIE EXPLORATION, INC.  
DST #4, LANSING "D,E,F", 4160-4234  
Start Test Date: 2017/01/29  
Final Test Date: 2017/01/30

BLAU 16C #1  
Formation: DST #4, LANSING "D,E,F", 4160-4234  
Pool: WILDCAT  
Job Number: T590

# BLAU 16C #1





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: BLAU16C1DST4

TIME ON: 16:31 1-29-17  
TIME OFF: 00:00 1-30-17

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 "D,E,F" Effective Pay \_\_\_\_\_ Ft. Ticket No. T590  
Date 1-29-17 Sec. 16 Twp. \_\_\_\_\_ 15 S Range \_\_\_\_\_ 36 W County LOGAN State KANSAS  
Test Approved By JOHN GOLDSMITH Diamond Representative TIM VENTERS

Formation Test No. 4 Interval Tested from 4160 ft. to 4234 ft. Total Depth 4234 ft.  
Packer Depth 4155 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4160 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 4141 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4231 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 59 Drill Collar Length 124 ft. I.D. 2 1/4 in.  
Weight 9.0 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 6,100 P.P.M. Drill Pipe Length 4003 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 42 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. <sup>32' DP IN ANCHOR</sup> Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: GOOD 1 INCH BLOW, BUILDING, REACHING BOB 5 1/2 MIN. (NO BB)  
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 7 1/2 MIN. (NO BB)

Recovered <u>95</u> ft. of <u>SWCM W/TR. O, TRACE OIL, 4% WATER, 96% MUD</u>	
Recovered <u>380</u> ft. of <u>HMCW W/TR. O, TRACE OIL, 52% WATER, 48% MUD</u>	
Recovered <u>250</u> ft. of <u>MCW, 78% WATER, 22% MUD</u>	
Recovered <u>315</u> ft. of <u>SMCW, 93% WATER, 7% MUD</u>	
Recovered <u>60</u> ft. of <u>WCM, 24% WATER, 76% MUD</u>	Price Job
Recovered <u>1100</u> ft. of <u>TOTAL FLUID</u> CHLORIDES: <u>22,00</u> ppm	Other Charges
Remarks: <u>PH: 6.0</u>	Insurance
<u>RW: .40 @ 58 deg.</u>	
TOOL SAMPLE: <u>86% WATER, 14% MUD</u>	Total

Time Set Packer(s) 6:35 PM A.M. P.M. Time Started Off Bottom 9:35 PM A.M. P.M. Maximum Temperature 115 deg.  
Initial Hydrostatic Pressure..... (A) 1969 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 44 P.S.I. to (C) 279 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1154 P.S.I.  
Final Flow Period..... Minutes 45 (E) 289 P.S.I. to (F) 504 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1127 P.S.I.  
Final Hydrostatic Pressure..... (H) 1958 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.