

DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	T587
Contact	JUSTIN CLEGG	Representative	TIM VENTERS
Well Name	BLAU 16C #1	Well Operator	RITCHIE EXPLORATION, INC.
Unique Well ID	DST #1, TORONTO, 4018-4090	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 #1, TORONTO, 4018-4090
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2017/01/27	Start Test Time	19:33:00
Final Test Date	2017/01/28	Final Test Time	02:18:00

Gauge Name	5504
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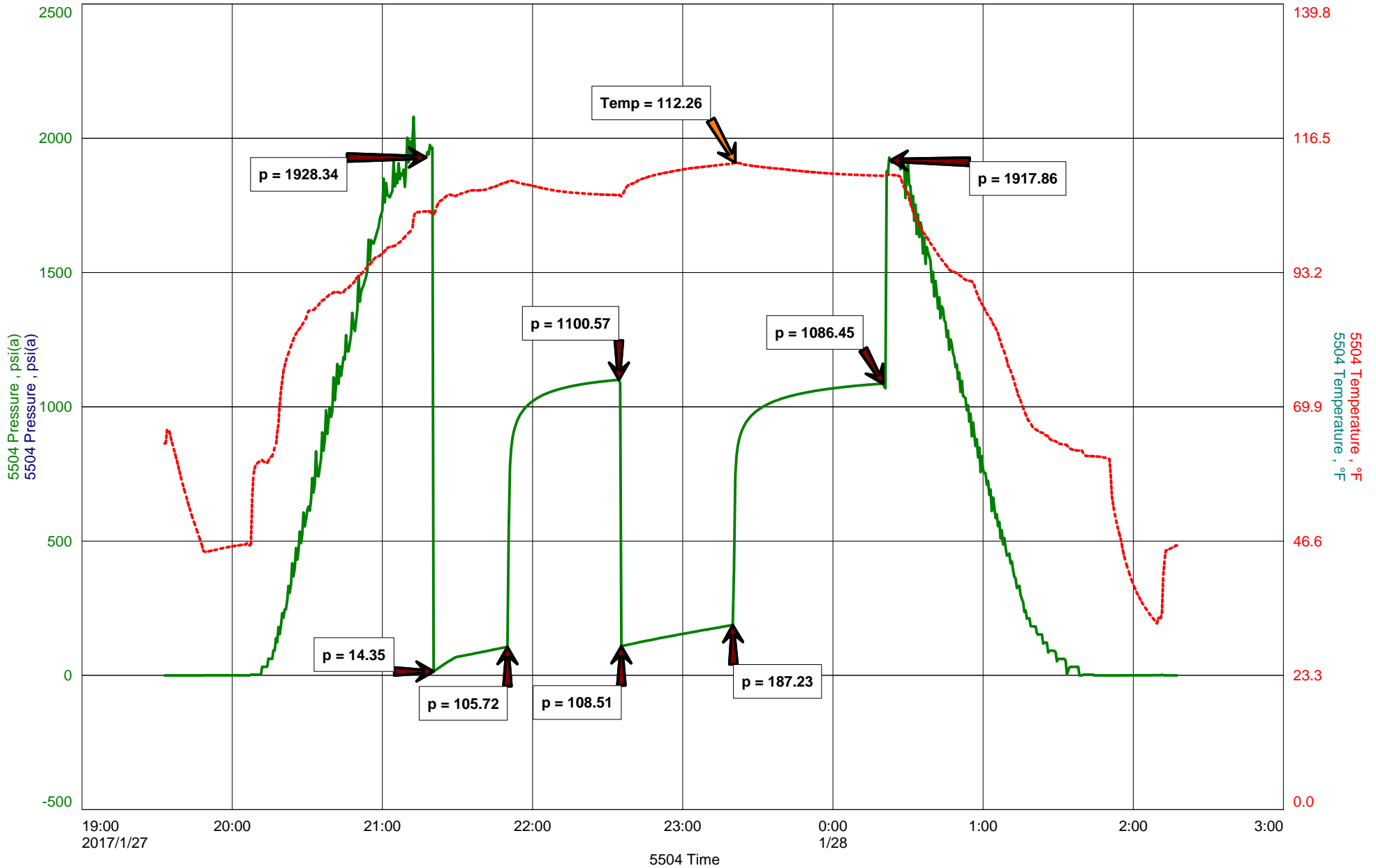
Test Results

RECOVERED: 145' HMCW, 55% WATER, 45% MUD
250' SMCW, 88% WATER, 12% MUD
395' TOTAL FLUID

TOOL SAMPLE: 78% WATER, 22% MUD

CHLORIDES: 36,000 ppm
PH: 6.0
RW: .32 @ 56 deg

BLAU 16C #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BLAU16C1DST1

TIME ON: 19:33 1-27-17
TIME OFF: 02:18 1-28-17

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 TORONTO Effective Pay _____ Ft. Ticket No. T587
Date 1-27-17 Sec. 16 Twp. _____ 15 S Range _____ 36 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIM VENTERS

Formation Test No. 1 Interval Tested from 4018 ft. to 4090 ft. Total Depth 4090 ft.
Packer Depth 4013 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4018 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3999 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4087 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 54 Drill Collar Length 124 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 3,400 P.P.M. Drill Pipe Length 3861 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 40 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{32' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK 1/4 INCH BLOW, BUILDING, REACHING BOB 29 MIN. (NO BB)
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 38 MIN. (NO BB)

Recovered 145 ft. of HMCW, 55% WATER, 45% MUD
Recovered 250 ft. of SMCW, 88% WATER, 22% MUD
Recovered 395 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 36,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 6.0	Other Charges
Remarks: _____	RW: .32 @ 56 deg.	Insurance
TOOL SAMPLE: 78% WATER, 22% MUD		Total

Time Set Packer(s) 9:20 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 12:20 AM ^{A.M.}/_{P.M.} Maximum Temperature 112 deg.

Initial Hydrostatic Pressure..... (A) 1928 P.S.I.
Initial Flow Period..... Minutes 30 (B) 14 P.S.I. to (C) 106 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1101 P.S.I.
Final Flow Period..... Minutes 45 (E) 109 P.S.I. to (F) 187 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1086 P.S.I.
Final Hydrostatic Pressure..... (H) 1918 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.