

DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	T591
Contact	JUSTIN CLEGG	Representative	TIM VENTERS
Well Name	BLAU 16C #1	Well Operator	RITCHIE EXPLORATION, INC.
Unique Well ID	DST #5, LANSING "I", 4318-4346	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 #5, LANSING "I", 4318-4346
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2017/01/30	Start Test Time	13:16:00
Final Test Date	2017/01/30	Final Test Time	20:59:00

Gauge Name	5504
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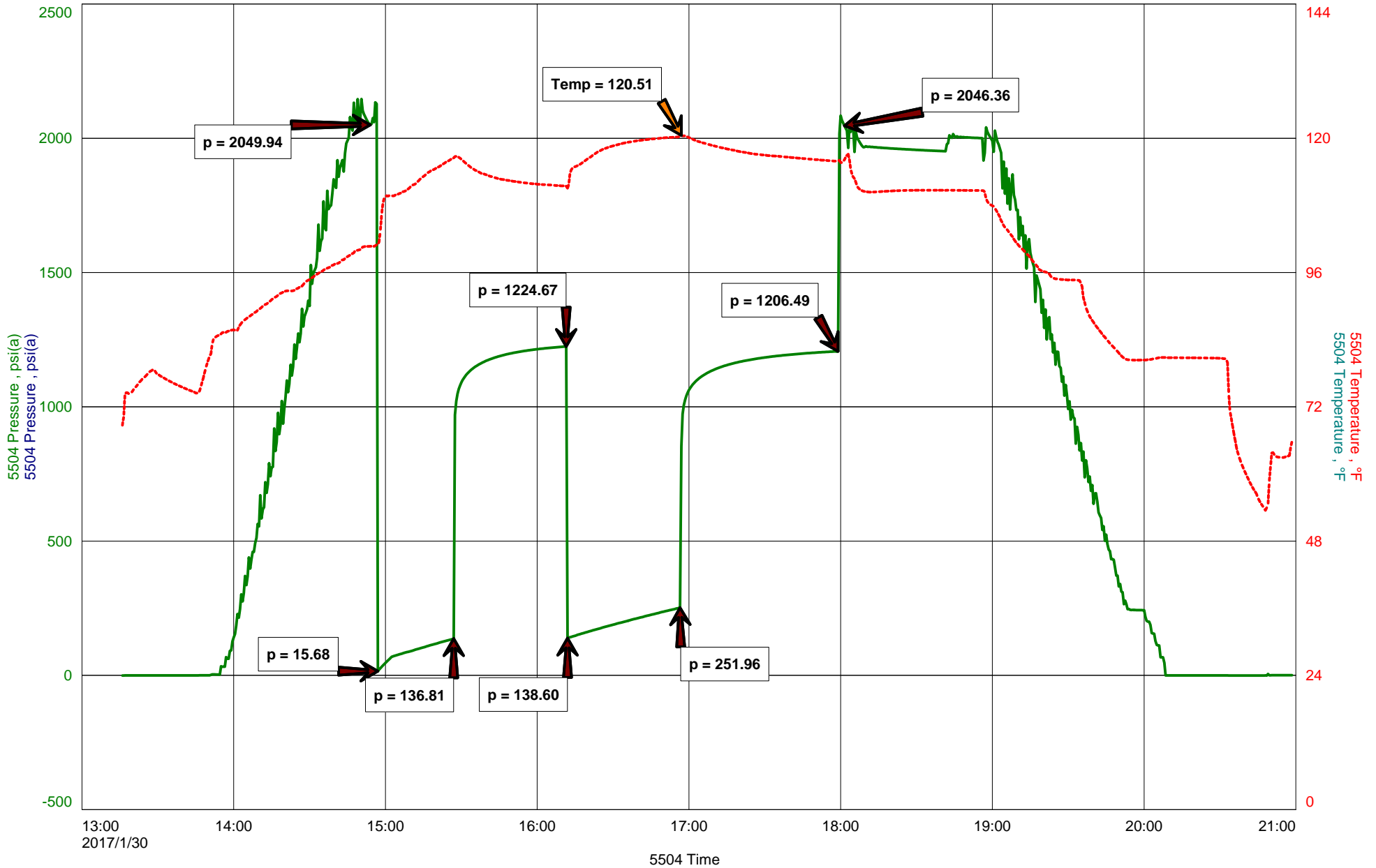
Test Results

RECOVERED: 1' CLEAN OIL
35' O,HMCW, 17% OIL, 44% WATER, 39% MUD
190' SOHMCW, 2% OIL, 58% WATER, 40% MUD
255' SO&MCW, 3% OIL, 92% WATER, 5% MUD
60' SOHWCM, 1% OIL, 44% WATER, 55% MUD
541' TOTAL FLUID

TOOL SAMPLE: 72% OIL, 22% WATER, 6% MUD

CHLORIDES: 22,000 ppm
PH: 6.0
RW: .34 @ 65 deg.

BLAU 16C #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BLAU16C1DST5

TIME ON: 13:16
TIME OFF: 20:59

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 "I" Effective Pay _____ Ft. Ticket No. T591
Date 1-30-17 Sec. 16 Twp. _____ 15 S Range _____ 36 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIM VENTERS

Formation Test No. 5 Interval Tested from 4318 ft. to 4346 ft. Total Depth 4346 ft.
Packer Depth 4313 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4318 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 4299 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4343 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 51 Drill Collar Length 124 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 7.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 5,500 P.P.M. Drill Pipe Length 4161 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 28 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 SURFACE BLOW, BUILDING, REACHING BOB 20 MIN. (NO BB)
2nd Open: VERY WEAK SURFACE BLOW, BUILDING, REACHING BOB 27 1/2 MIN. (NO BB)

Recovered <u>1</u> ft. of <u>CLEAN OIL</u>	
Recovered <u>35</u> ft. of <u>O,HMCW, 17% OIL, 44% WATER, 39% MUD</u>	
Recovered <u>190</u> ft. of <u>SOHMCW, 2% OIL, 58% WATER, 40% MUD</u>	
Recovered <u>255</u> ft. of <u>SO&MCW, 3% OIL, 92% WATER, 5% MUD</u>	
Recovered <u>60</u> ft. of <u>SOHWCM, 1% OIL, 44% WATER, 55% MUD</u>	Price Job
Recovered <u>541</u> ft. of <u>TOTAL FLUID</u> CHLORIDES: <u>22,00</u> ppm	Other Charges
Remarks: _____ PH: <u>6.0</u>	Insurance
_____ RW: <u>.34 @ 65 deg.</u>	
TOOL SAMPLE: <u>72% OIL, 22% WATER, 6% MUD</u>	Total

Time Set Packer(s) 2:56 PM A.M. P.M. Time Started Off Bottom 5:56 PM A.M. P.M. Maximum Temperature 121 deg.
Initial Hydrostatic Pressure..... (A) 2049 P.S.I.
Initial Flow Period..... Minutes 30 (B) 16 P.S.I. to (C) 137 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1225 P.S.I.
Final Flow Period..... Minutes 45 (E) 139 P.S.I. to (F) 252 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1206 P.S.I.
Final Hydrostatic Pressure..... (H) 2046 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.