

DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	RITCHIE EXPLORATION, INC.	Contact	JUSTIN CLEGG	Job Number	T592
Well Name	BLAU 16C #1	Well Operator	RITCHIE EXPLORATION, INC.	Report Date	2017/02/01
Unique Well ID	DST #6, ALTAMONT "A", 4470-4534	Well License Number		Prepared By	TIM VENTERS
Surface Location	SEC 16-15S-36W, LOGAN CO. KS.	Field	WILDCAT		
Well Type			Vertical		

Test Information

Test Type	CONVENTIONAL
Formation	DST #6, ALTAMONT "A", 4470-4534
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2017/01/31	Start Test Time	19:21:00
Final Test Date	2017/02/01	Final Test Time	03:11:00

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

Test Results

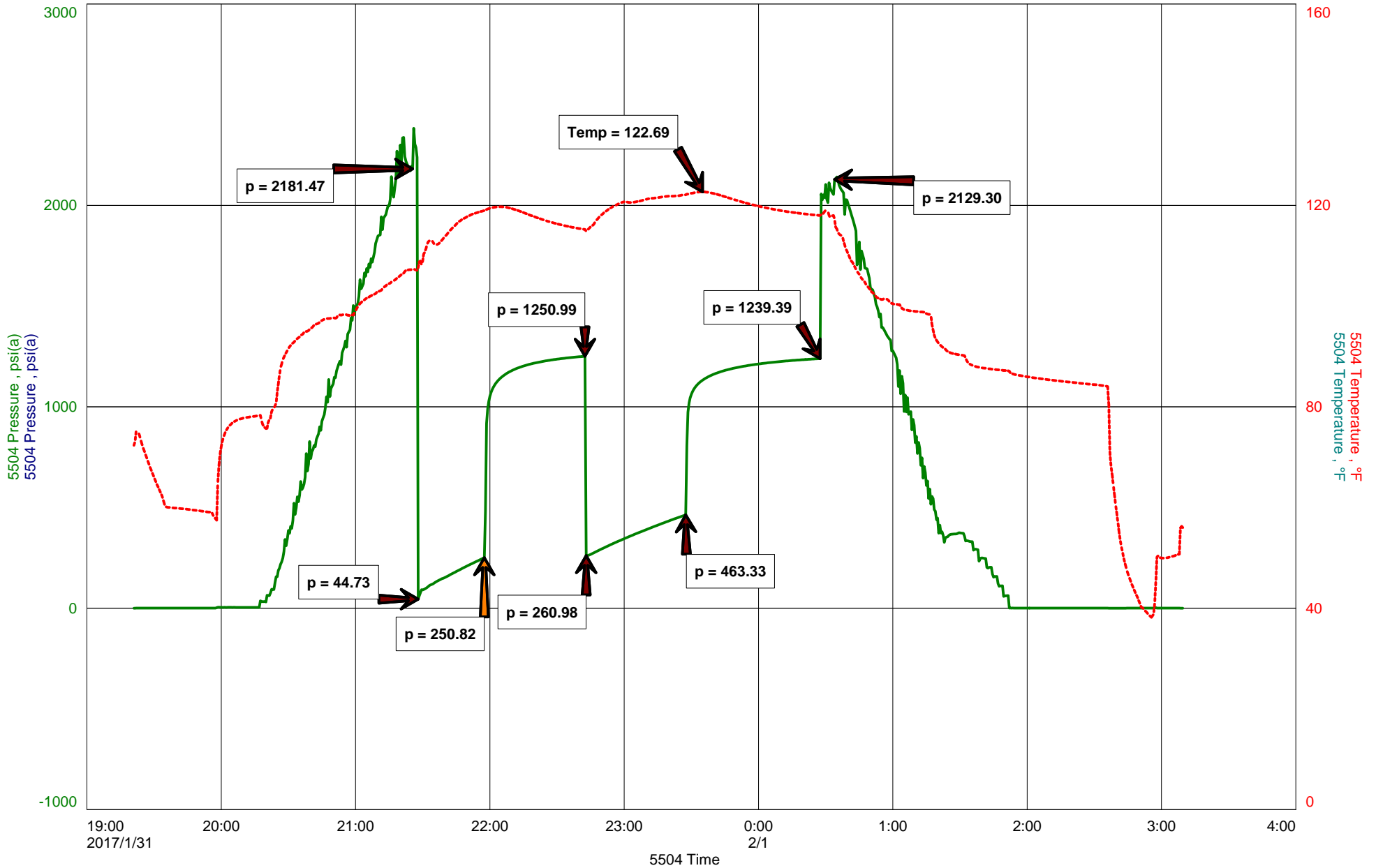
RECOVERED: 485' GAS IN PIPE
335' GO, 11% GAS, 89 % OIL, GRAVITY: 25
690' G,SMCO, 12% GAS, 83% OIL, 5% MUD
190' G,HOCM, 6% GAS, 45% OIL, 49% MUD
1215' TOTAL FLUID

TOOL SAMPLE: 7% GAS, 93% OIL

RITCHIE EXPLORATION, INC.
DST #6, ALTAMONT "A", 4470-4534
Start Test Date: 2017/01/31
Final Test Date: 2017/02/01

BLAU 16C #1
Formation: DST #6, ALTAMONT "A", 4470-4534
Pool: WILDCAT
Job Number: T592

BLAU 16C #1





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: BLAU16C1DST6

TIME ON: 19:21 1-31-17
TIME OFF: 03:11 2-1-17

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 ALTAMONT "A" Effective Pay _____ Ft. Ticket No. T592
Date 1-31-17 Sec. 16 Twp. _____ 15 S Range _____ 36 W County LOGAN State KANSAS
Test Approved By JOHN GOLDSMITH Diamond Representative TIM VENTERS

Formation Test No. 6 Interval Tested from 4470 ft. to 4534 ft. Total Depth 4534 ft.
Packer Depth 4465 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 4470 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4451 ft. Recorder Number 5504 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 4531 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 61 Drill Collar Length 124 ft. I.D. 2 1/4 in.
Weight 9.2 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
Chlorides 6,800 P.P.M. Drill Pipe Length 4313 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 33 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. ^{31' DP IN ANCHOR} 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. (1 1/2" BB)
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 7 1/2 MIN. (1 1/4" BB)

Recovered 485 ft. of GAS IN PIPE
Recovered 335 ft. of GO, 11% GAS, 89% OIL, GRAVITY: 25
Recovered 690 ft. of G,SMCO, 12% GAS, 83% OIL, 5% MUD
Recovered 190 ft. of G,HOCM, 6% GAS, 45% OIL, 49% MUD

Recovered <u>1215</u> ft. of <u>TOTAL FLUID</u>	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
TOOL SAMPLE: <u>7% GAS, 93% OIL</u>	Total

Time Set Packer(s) 9:27 PM ^{A.M.}/_{P.M.} Time Started Off Bottom 12:27 AM ^{A.M.}/_{P.M.} Maximum Temperature 123 deg.

Initial Hydrostatic Pressure..... (A) 2181 P.S.I.
Initial Flow Period..... Minutes 30 (B) 45 P.S.I. to (C) 251 P.S.I.
Initial Closed In Period..... Minutes 45 (D) 1251 P.S.I.
Final Flow Period..... Minutes 45 (E) 261 P.S.I. to (F) 463 P.S.I.
Final Closed In Period..... Minutes 60 (G) 1239 P.S.I.
Final Hydrostatic Pressure..... (H) 2129 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.