

# DIAMOND TESTING, LLC

TESTER : TIM VENTERS  
CELL # 620-388-6333

## General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	T557
Contact	JUSTIN CLEGG	Representative	TIM VENTERS
Well Name	LUEBBERS UNIT #1	Well Operator	RITCHIE EXPLORATION, INC.
Unique Well ID	DST #2, LKC "C", 4032-4060	Report Date	2016/09/05
Surface Location	SEC 26-15S-36W, LOGAN CO. KS.	Prepared By	TIM VENTERS
Well License Number			
Field	WILDCAT		
Well Type	Vertical		

## Test Information

Test Type	CONVENTIONAL
Formation	DST #2, LKC "C", 4032-4060
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2016/09/05	Start Test Time	04:11:00
Final Test Date	2016/09/05	Final Test Time	10:58:00

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

## Test Results

RECOVERED: 5' HMCW W/TR. O, TRACE OIL < 1%, 56% WATER, 44% MUD  
190' MCW, 68% WATER, 32% MUD  
310' SMCW, 96% WATER, 4% MUD  
505' TOTAL FLUID

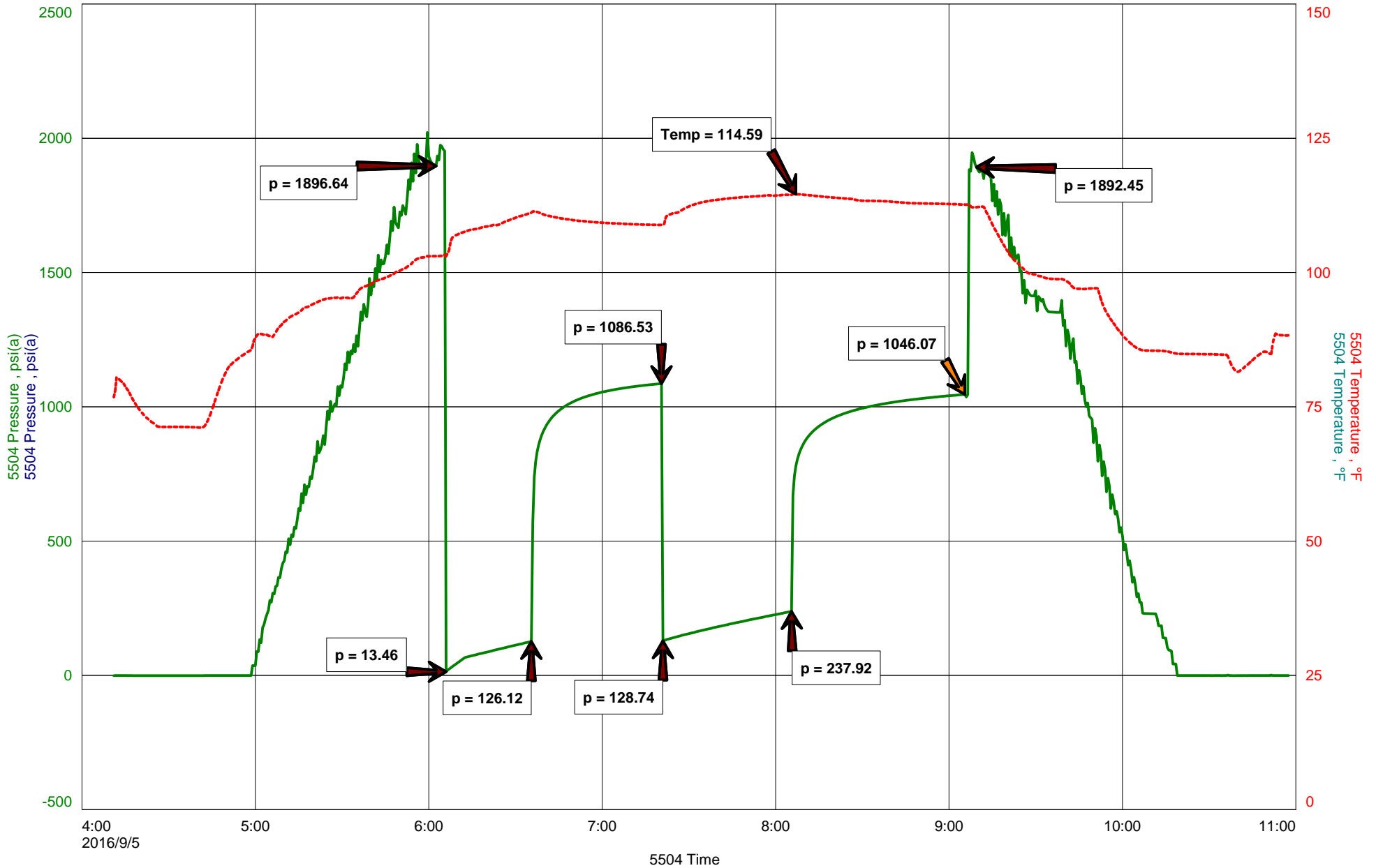
TOOL SAMPLE: TRACE OIL < 1%, 100% WATER

CHLORIDES: 27,000 ppm  
PH: 7.0  
RW: .26 @ 76 deg.

RITCHIE EXPLORATION, INC.  
DST #2, LKC "C", 4032-4060  
Start Test Date: 2016/09/05  
Final Test Date: 2016/09/05

LUEBBERS UNIT #1  
Formation: DST #2, LKC "C", 4032-4060  
Pool: WILDCAT  
Job Number: T557

# LUEBBERS UNIT #1





**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: LUEBBERSUNIT1DST2

TIME ON: 04:01  
TIME OFF: 10:58

Company RITCHIE EXPLORATION, INC. Lease & Well No. LUEBBERS UNIT #1  
Contractor WW DRILLING, LLC RIG #2 Charge to RITCHIE EXPLORATION, INC.  
Elevation 3276 KB Formation LKC "C" Effective Pay \_\_\_\_\_ Ft. Ticket No. T557  
Date 9-5-16 Sec. 26 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 4032 ft. to 4060 ft. Total Depth 4060 ft.  
Packer Depth 4027 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 4032 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

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

Top Recorder Depth (Inside) 4013 ft. Recorder Number 5504 Cap. 5,000 P.S.I.  
Bottom Recorder Depth (Outside) 4057 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 119 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 3,500 P.P.M. Drill Pipe Length 3880 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 1/4 INCH BLOW, BUILDING, REACHING BOB 21 MIN. (NO BB)  
2nd Open: WEAK SURFACE BLOW, BUILDING, REACHING BOB 23 1/2 MIN. (NO BB)

Recovered 5 ft. of HMCW W/TR. O, TRACE OIL < 1%, 56% WATER, 44% MUD  
Recovered 190 ft. of MCW, 68% WATER, 32% MUD  
Recovered 310 ft. of SMCW, 96% WATER, 4% MUD  
Recovered 505 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 27,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 7.0	Other Charges
Remarks: _____	RW: .26 @ 76 deg.	Insurance
TOOL SAMPLE: TRACE OIL, < 1%, 100% WATER		Total

Time Set Packer(s) 6:05 AM <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 9:05 AM <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 115 deg.

Initial Hydrostatic Pressure..... (A) 1897 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 13 P.S.I. to (C) 126 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 1087 P.S.I.  
Final Flow Period..... Minutes 45 (E) 129 P.S.I. to (F) 238 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 1046 P.S.I.  
Final Hydrostatic Pressure..... (H) 1892 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.