

DIAMOND TESTING, LLC

TESTER : TIM VENTERS
CELL # 620-388-6333

General Information

Company Name	RITCHIE EXPLORATION, INC.	Job Number	T527
Contact	JUSTIN CLEGG	Representative	TIM VENTERS
Well Name	KOEHN-MOLLENKAMP #1	Well Operator	RITCHIE EXPLORATION, INC.
Unique Well ID	DST #1, TORONTO, 4002-4076	Report Date	2016/04/27
Surface Location	SEC 14-15S-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, 4002-4076
Well Fluid Type	01 Oil
Test Purpose	Initial Test

Start Test Date	2016/04/27	Start Test Time	06:20:00
Final Test Date	2016/04/27	Final Test Time	13:11:00

Gauge Name	5504
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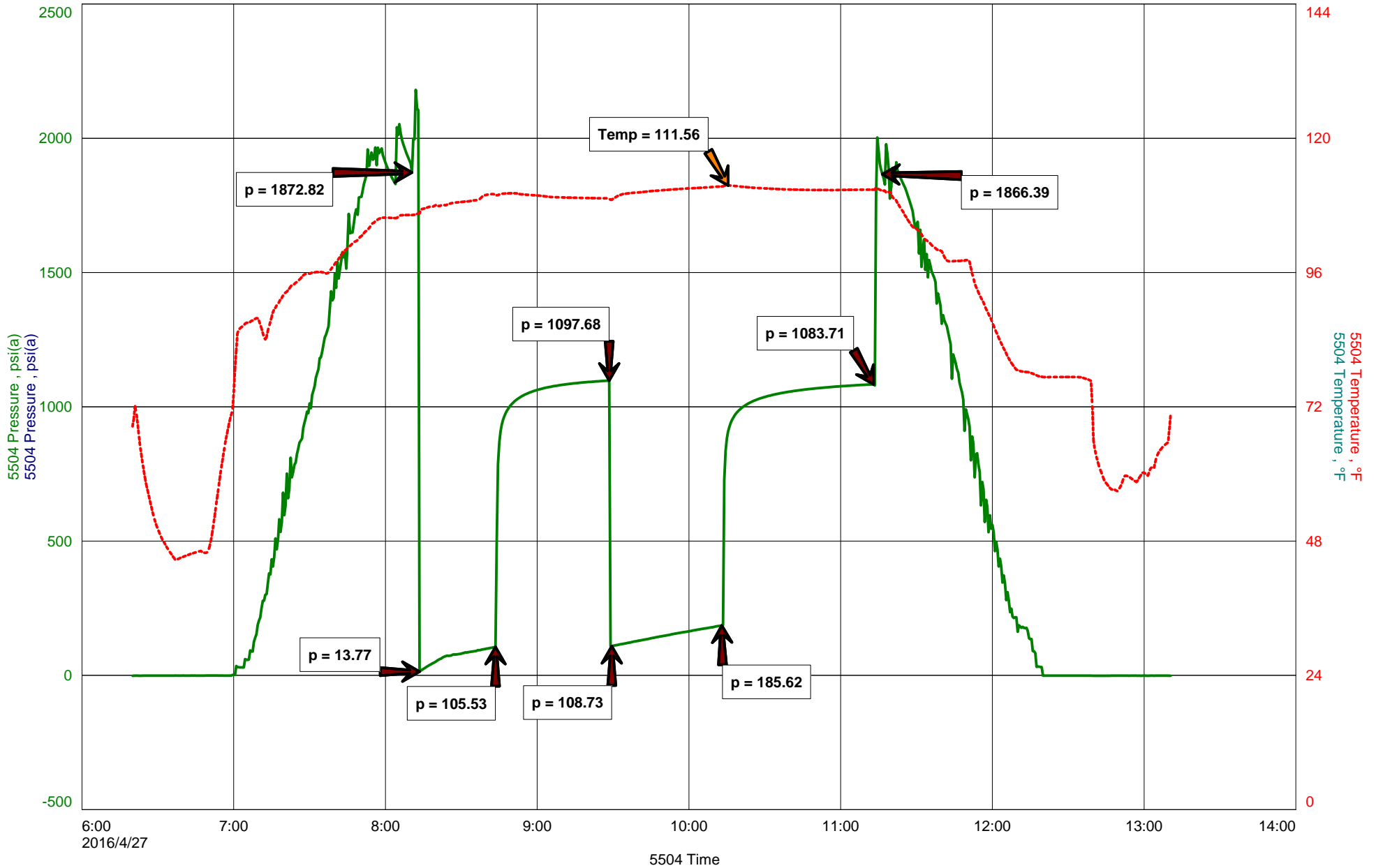
Test Results

RECOVERED: 75' MUD
125' HWCM, 43% WATER, 57% MUD
180' MCW, 68% WATER, 32% MUD
380' TOTAL FLUID

TOOL SAMPLE: 2% OIL, 66% WATER, 32% MUD

CHLORIDES: 25,000 ppm
PH: 7.5
RW: .39 @ 65 deg.

KOEHN-MOLLENKAMP #1





DIAMOND TESTING
 P.O. Box 157
 HOISINGTON, KANSAS 67544
 (800) 542-7313

TIME ON: 06:20
 TIME OFF: 13:11

DRILL-STEM TEST TICKET
 FILE: KOEHN-MOLLENKAMP1DST1

Company RITCHIE EXPLORATION, INC. Lease & Well No. KOEHN-MOLLENKAMP #1
 Contractor RITCHIE EXPLORATION, INC. Charge to RITCHIE EXPLORATION, INC.
 Elevation 3319 KB Formation TORONTO Effective Pay _____ Ft. Ticket No. T527
 Date 4-27-16 Sec. 14 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 4002 ft. to 4076 ft. Total Depth 4076 ft.
 Packer Depth 3997 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 4002 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3983 ft. Recorder Number 5504 Cap. 5000 P.S.I.
 Bottom Recorder Depth (Outside) 4073 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 58 Drill Collar Length 118 ft. I.D. 2 1/4 in.
 Weight 8.8 Water Loss 7.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 3,400 P.P.M. Drill Pipe Length 3851 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. ^{32' DP IN ANCHOR} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WEAK SURFACE BLOW, BUILDING TO 11 INCHES. (NO BB)
 2nd Open: WEAK SURFACE BLOW, BUILDING TO 8 INCHES. (NO BB)

Recovered 75 ft. of MUD
 Recovered 125 ft. of HWCM, 43% WATER, 57% MUD
 Recovered 180 ft. of MCW, 68% WATER, 32% MUD
 Recovered 380 ft. of TOTAL FLUID

Recovered _____ ft. of _____	CHLORIDES: 25,000 ppm	Price Job
Recovered _____ ft. of _____	PH: 7.5	Other Charges
Remarks: _____	RW: .39 @ 65 deg.	Insurance
TOOL SAMPLE: 2% OIL, 66% WATER, 32% MUD		Total

Time Set Packer(s) 8:13 AM ^{A.M.} P.M. Time Started Off Bottom 11:13 AM ^{A.M.} P.M. Maximum Temperature 112 deg.

Initial Hydrostatic Pressure..... (A) 1873 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) 1098 P.S.I.
 Final Flow Period..... Minutes 45 (E) 109 P.S.I. to (F) 186 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 1084 P.S.I.
 Final Hydrostatic Pressure..... (H) 1866 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.