



DIAMOND TESTING, LLC
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HOISINGTON, KANSAS 67544
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KRKR1DST3

Company Richlan Drilling Lease & Well No. Kroeker No. 1
Elevation 2031 EGL Formation Arbuckle Effective Pay Ft. Ticket No. M746
Date 1-20-15 Sec. 30 Twp. 20S Range 15W County Barton State Kansas
Test Approved By Robert A. (Bob) Schreiber Diamond Representative Mike Cochran

Formation Test No. 3 Interval Tested from 3,784 ft. to 3,801 ft. Total Depth 3,801 ft.
Packer Depth 3,779 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,784 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,771 ft. Recorder Number 0063 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,786 ft. Recorder Number 5448 Cap. 5,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Southwind Drilling, Inc. - Rig 3 Drill Collar Length ft. I.D. in.
Mud Type Chemical Viscosity 59 Weight Pipe Length ft. I.D. in.
Weight 8.9 Water Loss 9.2 cc. Drill Pipe Length 3,757 ft. I.D. 3 1/2 in.
Chlorides 5,000 P.P.M. Test Tool Length 27 ft. Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 17 ft. Size 4 1/2-FH in.
Did Well Flow? No Reversed Out Yes Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH in.

Blow: 1st Open: Strong blow increasing. Off bottom of bucket in 15 secs. Gas to surface. Tool small to measure. Sample taken. Gas burned nicely. Bottom of bucket blow back during shut-in.
2nd Open: Strong blow increasing. Off bottom of bucket in 15 secs. then decreasing. Weak blow back during shut-in.

Recovered 108 ft. of gas cut watery mud = 1.536840 bbls. (Grind out: 1%-gas; 30%-water; 69%-mud)
Recovered 2,403 ft. of gas cut water = 34.194690 bbls. (Grind out: 5%-gas; 95%-water)
Recovered 2,511 ft. of TOTAL FLUID = 35.731530 bbls.
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks Tool Sample Grind Out: 1%-gas; 99%-water (Chlorides: 40,000 Ppm PH: 7.0 RW: .26 @ 71°)

Time Set Packer(s) 10:00 P.M. Time Started off Bottom 12:00 A.M. Maximum Temperature 117°
Initial Hydrostatic Pressure.....(A) 1864 P.S.I.
Initial Flow Period.....Minutes 15 (B) 714 P.S.I. to (C) 959 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 1155 P.S.I.
Final Flow Period.....Minutes 30 (E) 1023 P.S.I. to (F) 1150 P.S.I.
Final Closed In Period.....Minutes 45 (G) 1173 P.S.I.
Final Hydrostatic Pressure.....(H) 1833 P.S.I.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	RICHLAN DRILLING, A GENERAL PARTNERSHIP	Job Number	M746
Well Name	KROEKER #1	Representative	MIKE COCHRAN
Unique Well ID	DST #3 ARBUCKLE 3784-3801	Well Operator	RICHLAN DRILLING, A GENERAL PARTNERSHIP
Surface Location	SEC 30-20S-15W BARTON CO. KS.	Report Date	2015/01/21
Field	ASH CREEK	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	BOB SCHREIBER
		Test Unit	NO. 3

Test Information

Test Type	CONVENTIONAL		
Formation	DST #3 ARBUCKLE 3784-3801		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/01/20	Start Test Time	20:40:00
Final Test Date	2015/01/21	Final Test Time	03:40:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
108' GCWM 1% GAS, 30% WTR, 69% MUD
2403' GCW 5% GAS, 95% WTR
2511' TOTAL FLUID

CHLOR: 40,000 PPM
PH: 7.0
RW: .26 @ 71 DEG

TOOL SAMPLE: 1% GAS, 99% WTR

RICHLAN DRILLING, A GENERAL PARTNERSHIP
DST #3 ARBUCKLE 3784-3801
Start Test Date: 2015/01/20
Final Test Date: 2015/01/21

KROEKER #1
Formation: DST #3 ARBUCKLE 3784-3801
Pool: WILDCAT
Job Number: M746

KROEKER #1

