



DIAMOND TESTING, LLC
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HOISINGTON, KANSAS 67544
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KRKR1DST2

Company Richlan Drilling Lease & Well No. Kroeker No. 1
Elevation 2031 EGL Formation Arbuckle Effective Pay _____ Ft. Ticket No. M745
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. 2 Interval Tested from 3,763 ft. to 3,771 ft. Total Depth 3,771 ft.
Packer Depth 3,758 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Packer Depth 3,763 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 3,750 ft. Recorder Number 0063 Cap. 5,000 psi.
Bottom Recorder Depth (Outside) 3,768 ft. Recorder Number 6884 Cap. 6,275 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 3,736 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 8 ft. Size 4 1/2-FH in.
Did Well Flow? No Reversed Out No 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 immediately. Gas to surface in 5 mins. Gas burned nicely. No blow back during shut-in.
2nd Open: Strong blow increasing. Off bottom of bucket immediately. Gas gauged at 1,379 MCF/D. No blow back during shut-in. (SEE GAS VOLUME REPORT)

Recovered 5 ft. of gas & oil cut muddy water = .071150 bbls. (Grind out: 2%-gas; 8%-oily condensate; 65%-water; 25%-mud)
Recovered _____ ft. of Chlorides: 15,000 Ppm PH: 7.0 RW: .56 @ 61°
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Remarks Tool Sample Grind Out: 100%-gas

Time Set Packer(s) 9:15 A.M. Time Started off Bottom 12:30 P.M. Maximum Temperature 104°
Initial Hydrostatic Pressure.....(A) 1856 P.S.I.
Initial Flow Period.....Minutes 15 (B) 434 P.S.I. to (C) 472 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 1199 P.S.I.
Final Flow Period.....Minutes 60 (E) 443 P.S.I. to (F) 592 P.S.I.
Final Closed In Period.....Minutes 90 (G) 1197 P.S.I.
Final Hydrostatic Pressure.....(H) 1835 P.S.I.

DIAMOND TESTING

Pressure Survey Report

General Information

Company Name	RICHLAN DRILLING, A GENERAL PARTNERSHIP	Job Number	M745
Well Name	KROEKER #1	Representative	MIKE COCHRAN
Unique Well ID	DST #2 ARBUCKLE 3763-3771	Well Operator	RICHLAN DRILLING, A GENERAL PARTNERSHIP
Surface Location	SEC 30-20S-15W BARTON CO. KS.	Report Date	2015/01/20
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 #2 ARBUCKLE 3763-3771		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2015/01/20	Start Test Time	07:35:00
Final Test Date	2015/01/20	Final Test Time	14:10:00
		Well Fluid Type	01 Oil
Gauge Name	0063		
Gauge Serial Number			

Test Results

Remarks RECOVERED:
~5' GOCMW 2% GAS, 8% OILY CONDENSATE, 65% WTR, 25% MUD
~5' TOTAL FLUID

CHLOR: 15,000 PPM
PH: 7.0
RW: .56 @ 61 DEG

TOOL SAMPLE: 100% GAS

RICHLAN DRILLING, A GENERAL PARTNERSHIP
DST #2 ARBUCKLE 3763-3771
Start Test Date: 2015/01/20
Final Test Date: 2015/01/20

KROEKER #1
Formation: DST #2 ARBUCKLE 3763-3771
Pool: WILDCAT
Job Number: M745

KROEKER #1

