



DIAMOND TESTING, LLC
P.O. Box 157
HOISINGTON, KANSAS 67544
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STC/Stremel1dst2

Company Richlan Drilling Lease & Well No. Stremel No. 1
Elevation 1964 KB Formation Lansing/Kansas City "I-K" Effective Pay Ft. Ticket No. J3296
Date 9-27-14 Sec. 18 Twp. 16S Range 16W County Rush State Kansas
Test Approved By Robert A. (Bob) Schreiber Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,388 ft. to 3,463 ft. Total Depth 3,463 ft
Packer Depth 3,383 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,388 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,391 ft. Recorder Number 30046 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 3,460 ft. Recorder Number 13498 Cap. 6,000 psi.
Below Straddle Recorder Depth ft. Recorder Number Cap. psi.

Drilling Contractor Ninnescah Drilling, LLC - Rig 101 Drill Collar Length ft I.D. in.
Mud Type Chemical Viscosity 55 Weight Pipe Length ft I.D. in.
Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 3,362 ft I.D. 3 1/2 in.
Chlorides 4,300 P.P.M. Test Tool Length 20 ft Tool Size 3 1/2-IF in.
Jars: Make Sterling Serial Number Not Run Anchor Length 12' perf. w/63' drill pipe 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 to 11 ins. No blow back during shut-in.
2nd Open: Strong blow increasing. Off bottom of bucket in 40 mins. No blow back during shut-in.

Recovered 150 ft. of gas in pipe
Recovered 35 ft. of gas & oil cut mud = .498050 bbls. (Grind out: 10%-gas; 15%-oil; 75%-mud)
Recovered 35 ft. of TOTAL FLUID = .498050 bbls.
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks Tool Sample Grind Out: 75%-oil; 25%-mud

Time Set Packer(s) 2:00 P.M. Time Started off Bottom 4:30 P.M. Maximum Temperature 109°
Initial Hydrostatic Pressure.....(A) 1649 P.S.I.
Initial Flow Period.....Minutes 30 (B) 16 P.S.I. to (C) 19 P.S.I.
Initial Closed In Period.....Minutes 30 (D) 217 P.S.I.
Final Flow Period.....Minutes 45 (E) 20 P.S.I. to (F) 26 P.S.I.
Final Closed In Period.....Minutes 45 (G) 291 P.S.I.
Final Hydrostatic Pressure.....(H) 1626 P.S.I.

Diamond Testing General Report

John Riedl
TESTER
CELL: 620-793-0550

General Information

Company Name	RICHLAN DRILLING	Job Number	J3296
Contact	RICK SCHREIBER	Representative	JOHN RIEDL
Well Name	STREMEL #1	Well Operator	RICHLAN DRILLING
Unique Well ID		Report Date	2014/09/27
Surface Location	S18/16S/16W	Prepared By	JOHN RIEDL
Field		Qualified By	BOB SCHREIBER

Test Information

Test Type	DST #2 CONVENTIONAL
Formation	LKC "I,J,K"
Well Fluid Type	
Test Purpose	

Start Test Date	2014/09/27	Start Test Time	13:00:00
Final Test Date	2014/09/27	Final Test Time	18:30:00

Test Recovery

RECOVERY: 150' GAS IN PIPE
35' GAS+OIL CUT MUD 10% GAS, 15% OIL, 75% MUD
35' TOTAL FLUID

TOOL SAMPLE: 75% OIL, 25% MUD

STREMEL #1

