



# DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313

Company Deep Rock Exploration, Inc. Lease & Well No. Larson No. 1  
 Elevation 3527 GL Formation Marmaton Effective Pay -- Ft. Ticket No. J1209  
 Date 1-31-02 Sec. 15 Twp. 14S Range 39W County Wallace State Kansas  
 Test Approved By Tyler Sanders Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 4,448 ft. to 4,584 ft. Total Depth 4,584 ft.  
 Packer Depth 4,443 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
 Packer Depth 4,448 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
 Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 4,493 ft. Recorder Number Elec. Cap. 5,000 psi  
 Bottom Recorder Depth (Outside) 4,581 ft. Recorder Number 13556 Cap. 5,475 psi  
 Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

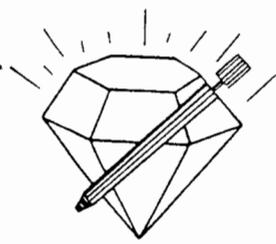
Drilling Contractor B H & K Drilling - Rig 1 Drill Collar Length 290 ft. I.D. 2 1/4 in.  
 Mud Type Chemical Viscosity 57 Weight Pipe Length -- ft. I.D. -- in.  
 Weight 9.1 Water Loss 9.6 cc. Drill Pipe Length 4,132 ft. I.D. 3 1/2 in.  
 Chlorides 4,500 P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 - IF in.  
 Jars: Make Bowen Serial Number 2 Anchor Length 136 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: Weak, 1 in., blow building to 3 ins.  
2nd Open: No blow. Flushed tool but of no help.

Recovered 220 ft. of thin mud = 1.082400 bbls.  
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of         

Remarks         

Time Set Packer(s) 5:00 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 7:45 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 120 °  
 Initial Hydrostatic Pressure ..... (A) 2150 P.S.I.  
 Initial Flow Period ..... Minutes 45 (B) 28 P.S.I. to (C) 72 P.S.I.  
 Initial Closed In Period ..... Minutes 60 (D) 1196 P.S.I.  
 Final Flow Period ..... Minutes 30 (E) 76 P.S.I. to (F) 101 P.S.I.  
 Final Closed In Period ..... Minutes 30 (G) 1180 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 2133 P.S.I.



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**FLUID SAMPLE DATA**

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Date 1-31-02 Sec. 15 Twp. 14 S Range 39 W

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Formation Marmaton

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>57</u> CP	<u>47</u> CP
Weight	<u>9.1</u>	<u>9.0</u>
Water Loss	<u>9.6</u> CC	<u>12.0</u> CC
PH Factor	<u>9.0</u>	<u>9.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>1.40</u> @ <u>70</u> °F.	<u>4,800</u> ppm
Recovery Mud Filtrate	<u>1.50</u> @ <u>70</u> °F.	<u>5,000</u> ppm
Mud Pit Sample	<u>1.30</u> @ <u>70</u> °F.	<u>4,600</u> ppm
Mud Pit Sample Filtrate	<u>1.30</u> @ <u>70</u> °F.	<u>4,600</u> ppm

Sample Taken By JOHN C. RIEDL

Witness By Tyler Sanders

Remarks Pit filtrate triton dish chlorides were 4,500 Ppm.  
Recovery filtrate triton dish chlorides were 4,800 Ppm.

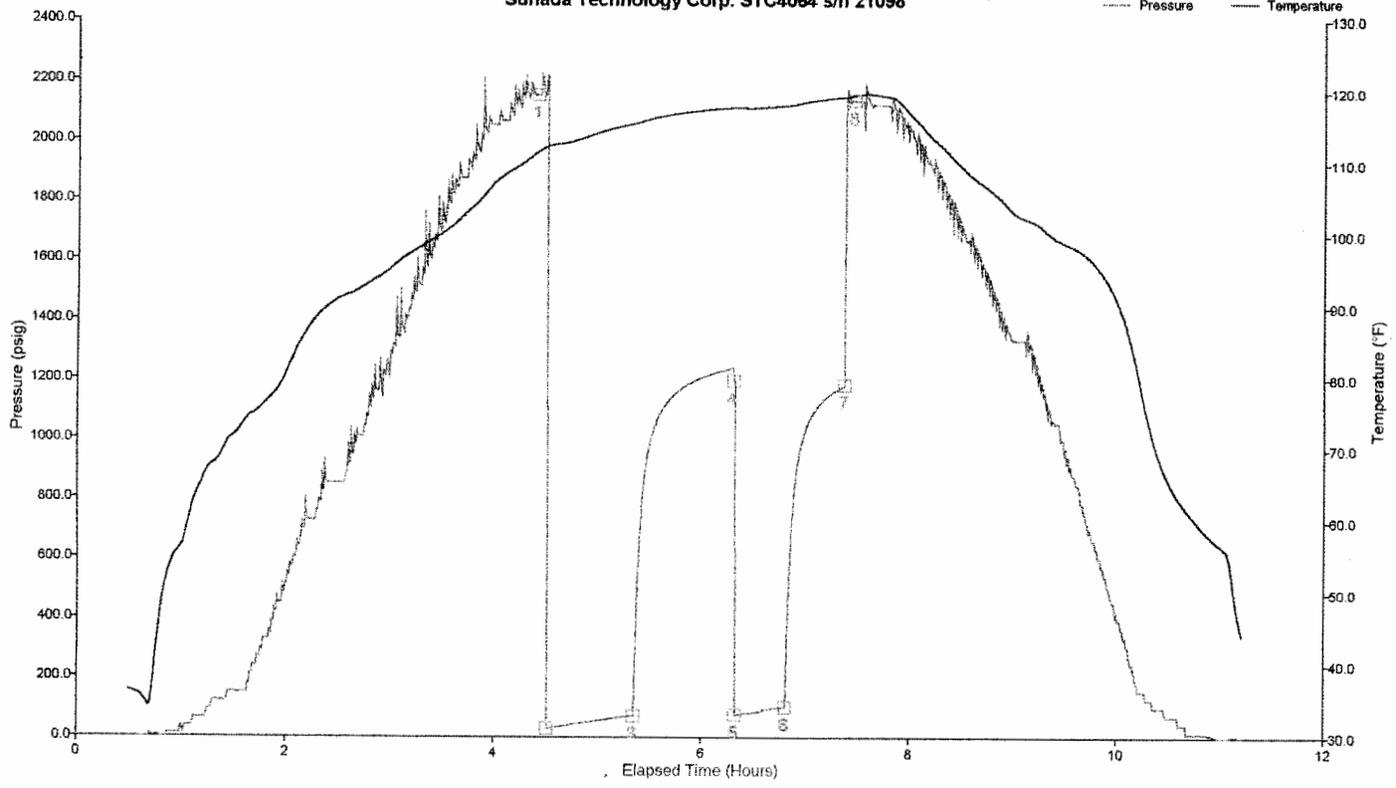
Well LSD: DST 1 MARMATON 4448-4584  
 Well Name: LARSON 1  
 Company: DEEP ROCK EXPLORE  
 Battery on: Jan 31, 2002 at 00:30:00  
 Notes: RECOVERY 220' THIN MUD

**RECEIVED**  
 KANSAS CORPORATION COMMISSION

JUL 31 2002

CONSERVATION DIVISION  
 WICHITA, KS

Sunada Technology Corp. STC4064 s/n 21098



Tag	Pressure	Temperature	Comment
1	2150.05 psig	111.71 °F	2002-01-31 04:55:00
2	28.19 psig	112.51 °F	2002-01-31 05:01:00
3	72.00 psig	115.67 °F	2002-01-31 05:51:00
4	1195.66 psig	117.89 °F	2002-01-31 06:48:30
5	75.61 psig	117.90 °F	2002-01-31 06:49:30
6	101.42 psig	118.15 °F	2002-01-31 07:18:30
7	1179.68 psig	119.40 °F	2002-01-31 07:52:30
8	2132.43 psig	119.65 °F	2002-01-31 07:58:00

WPT #1 ROC #13586 OUTSIDE CLOCK #26705  
LOC 45P1

