



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 853-7550 • (800) 542-7313
STC 30035.D016

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Company L. D. Drilling, Inc. Lease & Well No. Concept No. 1

Elevation 2061 KB Formation Fort Riley Effective Pay -- Ft. Ticket No. R016

Date 12-4-09 Sec. 9 Twp. 22S Range 18W County Pawnee State Kansas

Test Approved By Robert T. Stolzle Diamond Representative Randy Williams

Formation Test No. 1 Interval Tested from 2,264 ft. to 2,340 ft. Total Depth 2,340 ft.

Packer Depth 2,259 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 2,264 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set -- ft.

Top Recorder Depth (Inside) 2,243 ft. Recorder Number 30035 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 2,337 ft. Recorder Number 13387 Cap. 3,900 psi

Below Straddle Recorder Depth -- ft. Recorder Number -- Cap. -- psi

Drilling Contractor Duke Drilling Company, Inc. - Rig 5 Drill Collar Length 248 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 50 Weight Pipe Length -- ft. I.D. -- in.

Weight 8.9 Water Loss -- cc. Drill Pipe Length 1,986 ft. I.D. 3 1/2 in.

Chlorides -- P.P.M. Test Tool Length 30 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 1 Anchor Length 76 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 blow, building to 8 ins. in 15 mins. No blow back during shut-in.

2nd Open: Weak blow, building to 6 ins. in 15 mins. No blow back during shut-in.

Recovered 210 ft. of mud cut water = 1.033200 bbls. (Grind out: 40%-mud; 60%-water) Chlorides: 78,000 Ppm

Recovered -- ft. of PH: 7.0 RW: 2.1 @ 64°

Recovered -- ft. of

Recovered -- ft. of

Recovered -- ft. of

Recovered -- ft. of

Remarks Tool Sample Grind Out: 40%-mud; 60%-water

Time Set Packer(s) 2:54 A.M. Time Started Off Bottom 4:24 A.M. Maximum Temperature 82°

Initial Hydrostatic Pressure (A) 1095 P.S.I.

Initial Flow Period Minutes 15 (B) 30 P.S.I. to (C) 84 P.S.I.

Initial Closed In Period Minutes 30 (D) 700 P.S.I.

Final Flow Period Minutes 15 (E) 88 P.S.I. to (F) 131 P.S.I.

Final Closed In Period Minutes 30 (G) 679 P.S.I.

Final Hydrostatic Pressure (H) 1092 P.S.I.

NOMENCLATURE

b	= Approximate Radius of Investigation	Feet
b¹	= Approximate Radius of Investigation (Net Pay Zone h¹)	Feet
D.R.	= Damage Ratio	—
EI	= Elevation	Feet
GD	= B.T. Gauge Depth (From Surface Reference)	Feet
h	= Interval Tested	Feet
h¹	= Net Pay Thickness	Feet
K	= Permeability	md
K¹	= Permeability (From Net Pay Zone h¹)	md
m	= Slope Extrapolated Pressure Plot (Psi²/cycle Gas)	psi/cycle
OF¹	= Maximum Indicated Flow Rate	MCF/D
OF²	= Minimum Indicated Flow Rate	MCF/D
OF³	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF⁴	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P^S	= Extrapolated Static Pressure	Psig.
P^F	= Final Flow Pressure	Psig.
P^{OT}	= Potentiometric Surface (Fresh Water*)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q¹	= Theoretical Production w/Damage Removed	bbls/day
Q^g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r^w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t^o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
u	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given, Fresh Water Corrected to 100° F.

DIAMOND TESTING

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Drill Test Report

General Information

Company Name L.D.DRILLING ,INC

Contact

Well Name

CONCEPT # 1

Unique Well ID

DST #1 FORT RILEY 2243-2340

Surface Location

SEC-9-22S-18W PAWNEE COUNTY

Field

WILDCAT

Well Type

Vertical

Job Number

R016

Representative

RANDY WILLIAMS

Well Operator

L.D.DRILLING ,INC

Report Date

2009/12/04

Prepared By

RANDY WILLIAMS

Test Information

Test Type

Drill Stem Test

Formation

DST #1 FORT RILEY 2243-2340

Well Fluid Type

01 Oil

Test Purpose (AEUB)

Initial Test

Start Test Time

12:40:00

Final Test Time

06:38:00

Start Test Date

2009/12/03

Final Test Date

2009/12/04

Gauge Name

30035

Test Type Name

Test Results

RECOVERD: 210, MCW, 40% MUD, 60% WATER

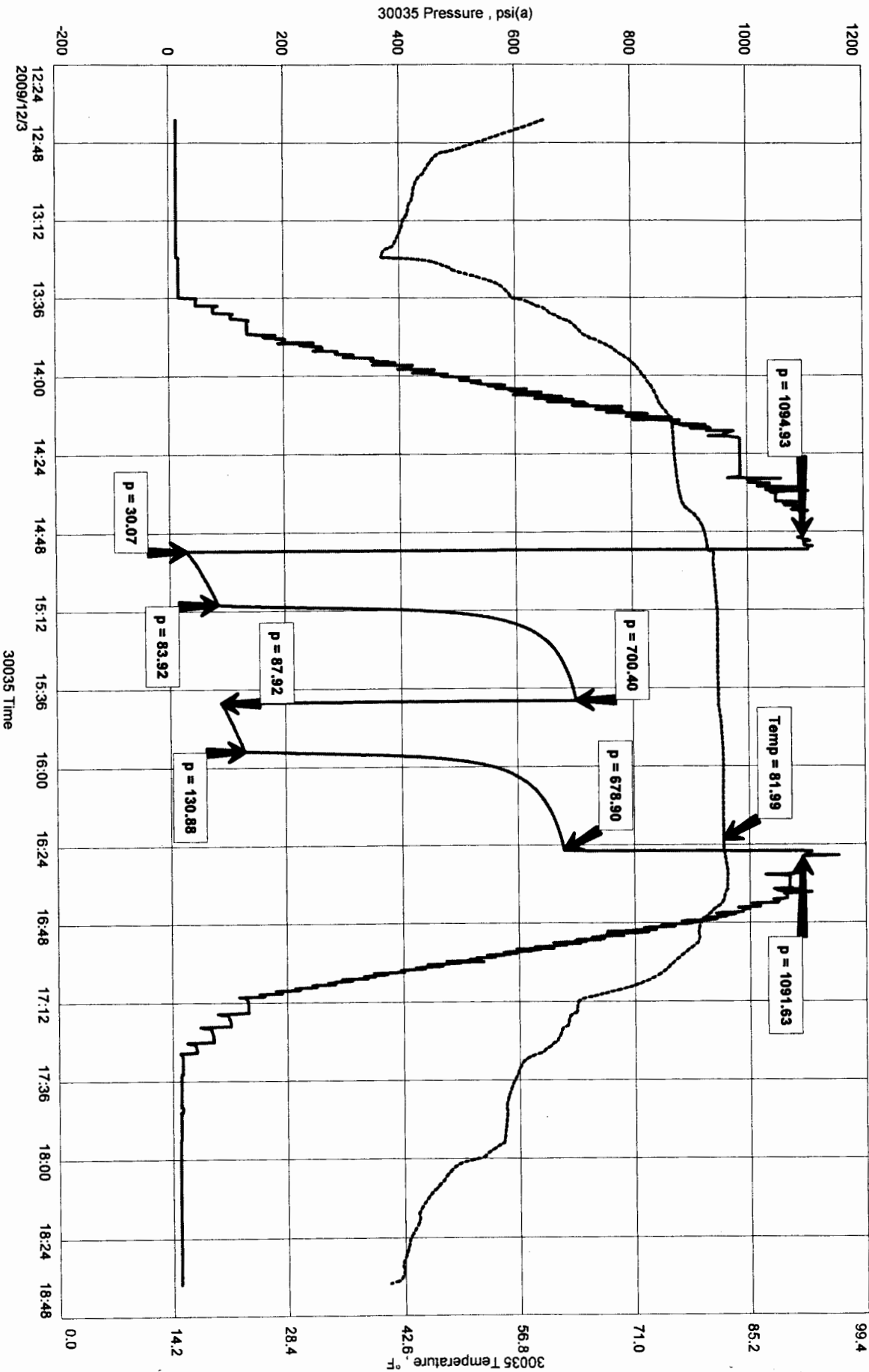
TOTAL FLUID: 210'

TOOL SAMPLE: 60% WATER, 40% MUD

L.D.DRILLING, INC
DST #1 FORT RILEY 2243-2340
Start Test Date: 2009/12/03
Final Test Date: 2009/12/04

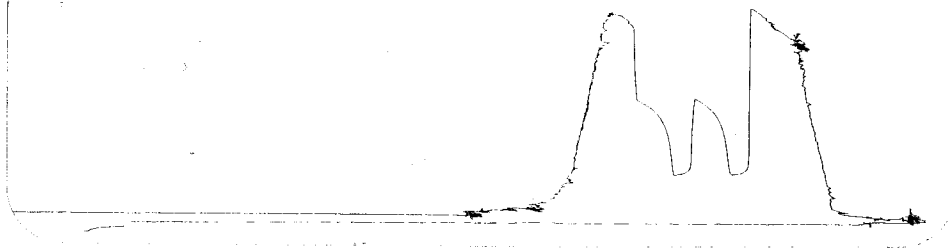
CONCEPT # 1

CONCEPT # 1
Formation: DST #1 FORT RILEY 2243-2340
Pool: WILDCAT
Job Number: R016



DST #1 OUTSIDE 13387
FORT RILEY

2264-2340
LOC 2243



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1938	1938
(B) First Initial Flow Pressure.....	24	24
(C) First Final Flow Pressure	26	26
(D) Initial Closed-in Pressure	49	49
(E) Second Initial Flow Pressure	27	27
(F) Second Final Flow Pressure.....	27	27
(G) Final Closed-in Pressure.....	36	36
(H) Final Hydrostatic Mud	1931	1931

PSI

PSI

PSI

PSI

PSI

PSI

PSI

PSI