



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313
STC 30035.D017

Page 1 of 2 Pages

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

Elevation 2061 KB Formation Cherokee/Conglomerate Effective Pay -- Ft. Ticket No. R017

Date 12-8-09 Sec. 9 Twp. 22S Range 18W County Pawnee State Kansas

Test Approved By Robert T. Stolzle Diamond Representative Randy Williams

Formation Test No. 2 Interval Tested from 4,091 ft. to 4,165 ft. Total Depth 4,165 ft.

Packer Depth 4,086 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 4,091 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 4,070 ft. Recorder Number 30035 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 4,162 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 288 ft. I.D. 2 1/4 in.

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

Weight 9.1 Water Loss 7.2 cc. Drill Pipe Length 3,773 ft. I.D. 3 1/2 in.

Chlorides 5,000 P.P.M. Test Tool Length 30 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number 1 Anchor Length 43' perf. w/31' 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: Weak, surface blow. No blow back during shut-in.

2nd Open: Weak, surface blow. Blow died 2 mins. into open. No blow back during shut-in.

Recovered 5 ft. of mud = .024600 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: 100%-mud

Time Set Packer(s) 12:07 A.M. Time Started Off Bottom 1:37 A.M. Maximum Temperature 107°

Initial Hydrostatic Pressure (A) 1938 P.S.I.

Initial Flow Period Minutes 15 (B) 24 P.S.I. to (C) 26 P.S.I.

Initial Closed In Period Minutes 30 (D) 49 P.S.I.

Final Flow Period Minutes 15 (E) 27 P.S.I. to (F) 27 P.S.I.

Final Closed In Period Minutes 30 (G) 36 P.S.I.

Final Hydrostatic Pressure (H) 1931 P.S.I.

NOMENCLATURE

b	== Approximate Radius of Investigation	Feet
b¹	== Approximate Radius of Investigation (Net Pay Zone h ¹)	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 h ¹)	md
m	== Slope Extrapolated Pressure Plot (Psi ² /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^{DT}	== 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

Page 2 of 2 Pages
Drill Test Report

General Information

Company Name L.D.DRILLING,INC

Contact

Well Name

Unique Well ID DST #2 CHEROKEE-CONG. 4091-4165

Surface Location SEC 9SW-22S-18W PAWNEE COUNTY

Field WILDCAT

Well Type Vertical

Job Number R017

Representative RANDY WILLIAMS

Well Operator L.D.DRILLING,INC

Report Date 2009/12/08

Prepared By RANDY WILLIAMS

Test Information

Test Type Drill Stem Test

Formation DST #2 CHEROKEE-CONG. 4091-4165

Well Fluid Type 01 Oil

Test Purpose (AEUB) Initial Test

Start Test Time 12:07:00

Final Test Time 01:37:00

Start Test Date 2009/12/08

Final Test Date 2009/12/08

Gauge Name 30035

Test Type Name

Test Results

RECOVERED: 5' MUD

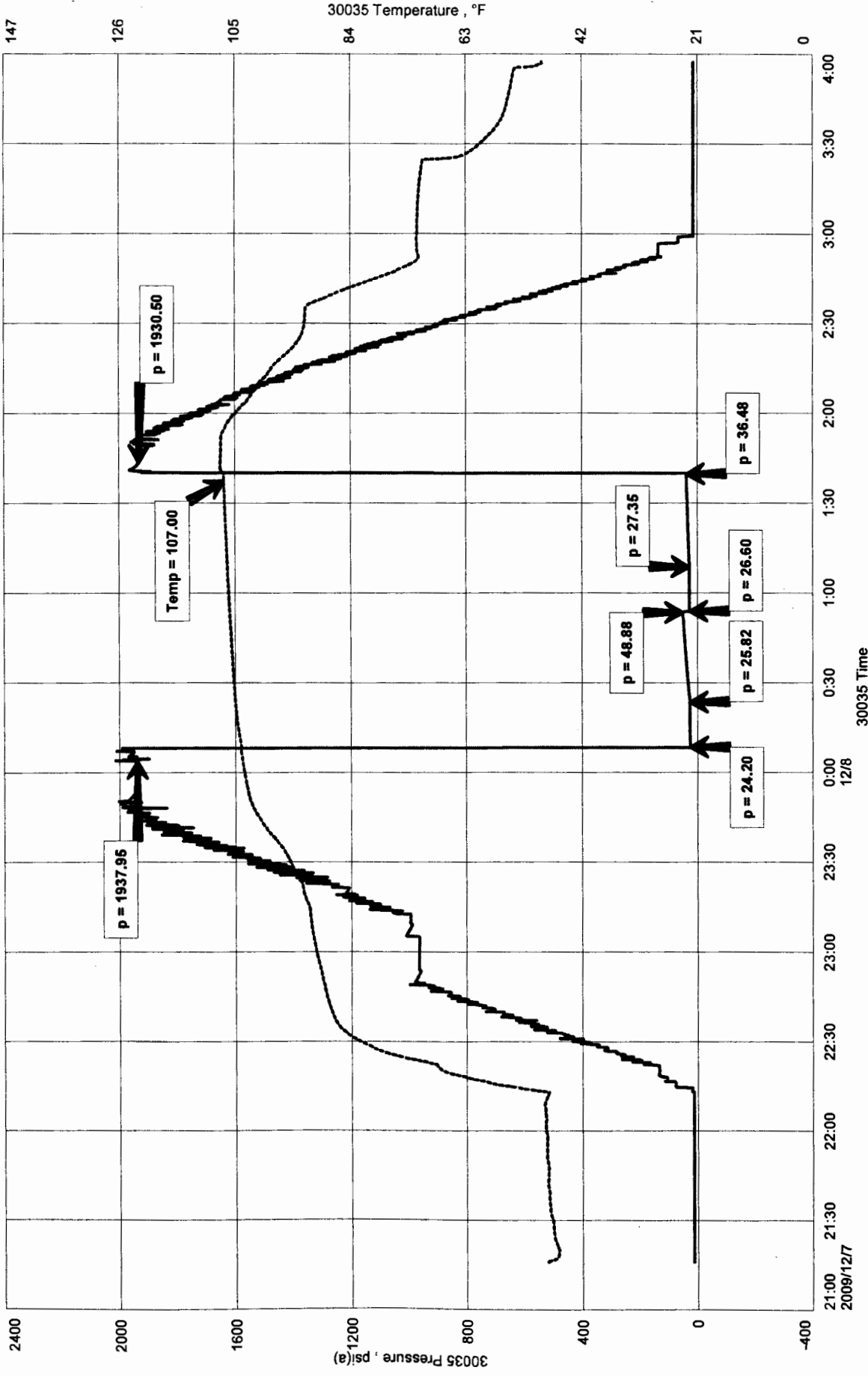
TOTAL FLUID:5'

TOOL SAMPLE: MUD

L.D.DRILLING, INC
DST #2 CHEROKEE-CONG. 4091-4165
Start Test Date: 2009/12/08
Final Test Date: 2009/12/08

CONCEPT #1
Formation: DST #2 CHEROKEE-CONG. 4091-4165
Pool: WILDCAT
Job Number: R017

CONCEPT #1

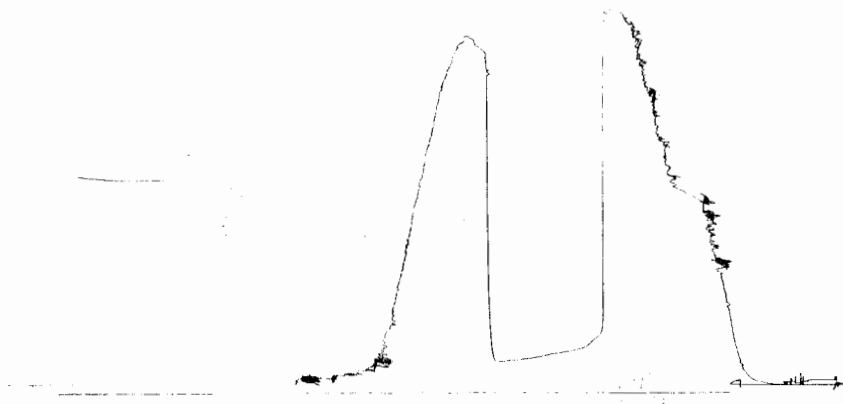


DST#1-OUTSIDE #13387

CHEROKEE-CONG.

4091-4165

LOC-4144



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Elec. Office Reading
(A) Initial Hydrostatic Mud	1095	1095
(B) First Initial Flow Pressure.....	30	30
(C) First Final Flow Pressure	84	84
(D) Initial Closed-in Pressure	700	700
(E) Second Initial Flow Pressure	88	88
(F) Second Final Flow Pressure.....	131	131
(G) Final Closed-in Pressure.....	679	679
(H) Final Hydrostatic Mud	1092	1092