



15-053-21131

DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544

(620) 653-7550 • (800) 542-7313

STC 21083.D03

30-175-10w ORIGINAL

Company L. D. Drilling, Inc. Lease & Well No. Hickel No.8  
 Elevation 1809 KB Formation Arbuckle Effective Pay -- Ft. Ticket No. J1593  
 Date 1-15-05 Sec. 30 Twp. 17S Range 10W County Ellsworth State Kansas  
 Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,246 ft. to 3,291 ft. Total Depth 3,291 ft.  
 Packer Depth 3,241 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
 Packer Depth 3,246 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.  
 Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside) 3,249 ft. Recorder Number 21083 Cap. 5,000 psi  
 Bottom Recorder Depth (Outside) 3,288 ft. Recorder Number 11073 Cap. 3,900 psi  
 Below Straddle Recorder Depth          ft. Recorder Number          Cap.          psi

Drilling Contractor VAL Energy, Inc. - Rig 3 Drill Collar Length 90 ft. I.D. 2 1/4 in.  
 Mud Type Chemical Viscosity 45 Weight Pipe Length -- ft. I.D. -- in.  
 Weight 9.1 Water Loss 13.0 cc. Drill Pipe Length 3,136 ft. I.D. 3 1/2 in.  
 Chlorides 3,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.  
 Jars: Make Bowen Serial Number Not Run Anchor Length 45 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. Dead in 15 mins.  
 2nd Open: No blow. Flushed tool; of no help.

Recovered 20 ft. of drilling mud = .098400 bbls.  
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of           
 Recovered          ft. of           
 Remarks MISRUN! Invalid pressures.

Time Set Packer(s)	<u>9:30</u>	<u>A.M.</u> <u>P.M.</u>	Time Started Off Bottom	<u>10:30</u>	<u>A.M.</u> <u>P.M.</u>	Maximum Temperature	<u>95°</u>
Initial Hydrostatic Pressure			(A)	<u>1570</u>	P.S.I.		
Initial Flow Period	Minutes	<u>15</u>	(B)	<u>--</u>	P.S.I. to (C)	<u>--</u>	P.S.I.
Initial Closed In Period	Minutes	<u>15</u>	(D)	<u>--</u>	P.S.I.		
Final Flow Period	Minutes	<u>15</u>	(E)	<u>--</u>	P.S.I. to (F)	<u>--</u>	P.S.I.
Final Closed In Period	Minutes	<u>15</u>	(G)	<u>--</u>	P.S.I.		
Final Hydrostatic Pressure			(H)	<u>1565</u>	P.S.I.		

## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

### Well Information:

Name: HICKEL #8

Operator: L D DRILLING INC

Location-Downhole: DST 1 3246 3291

Location-Surface:

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIOINAL Job Number: D03

Test Unit: 2

Start Date: 2005/01/15 Start Time: 06:44:00

End Date: 2005/01/15 End Time: 13:20:00

Report Date: 2005/01/15 Prepared By: JOHN RIEDL

Qualified By: JIM MUSGROVE

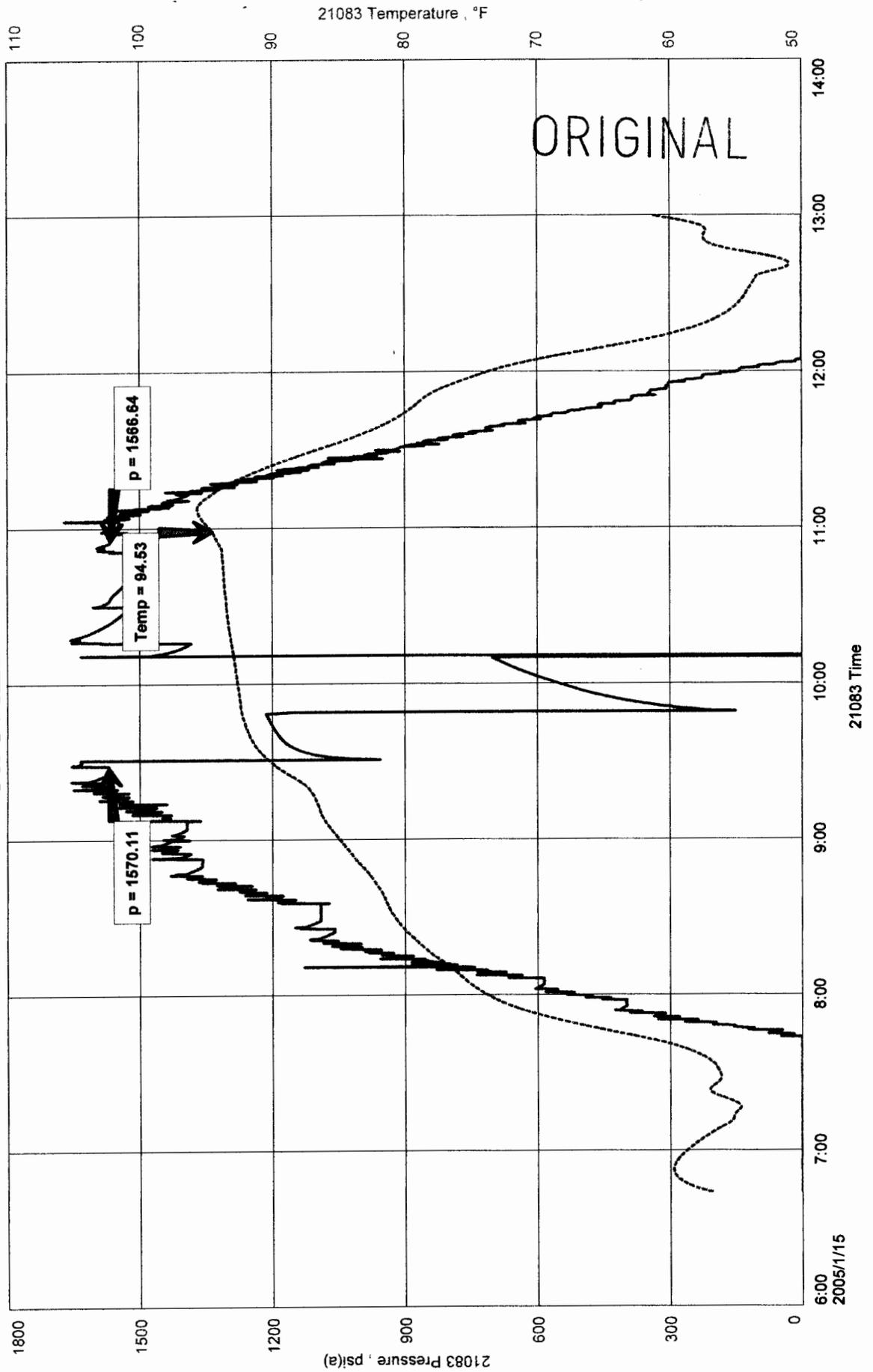
### Remarks:

REC: 20' MUD TEST WAS MISRUN INVALID PRESSURES

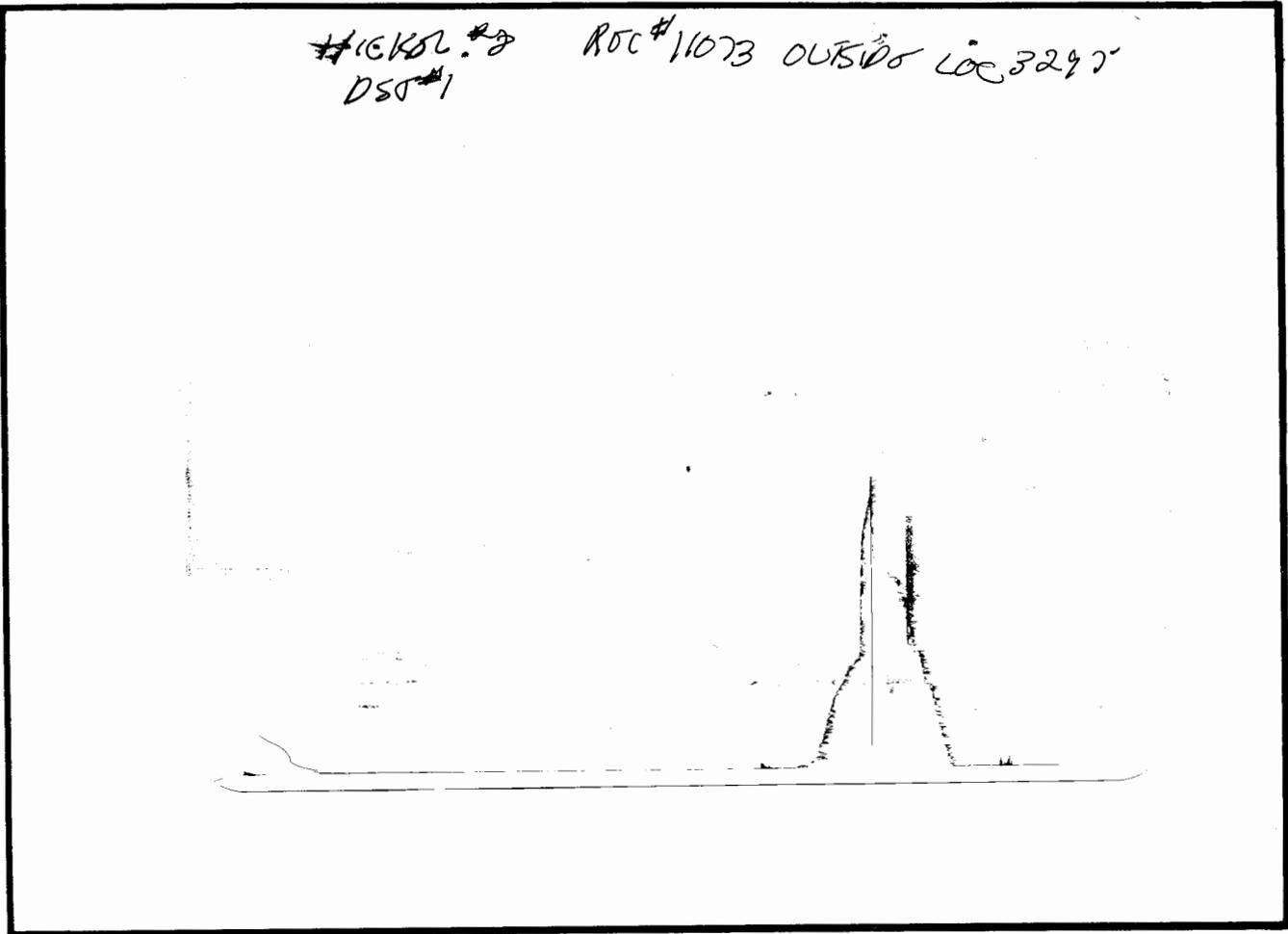
HICKEL #8  
Job Number: D03

L D DRILLING INC  
DST 1 3246 3291  
Start Test Date: 2005/01/15  
Final Test Date: 2005/01/15

# HICKEL #8



HICKS. 22 REC # 11073 OUTSIDE LOC 3297  
 DST #1



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud .....	1570	1570	PSI
(B) First Initial Flow Pressure .....	--	--	PSI
(C) First Final Flow Pressure .....	--	--	PSI
(D) Initial Closed-in Pressure .....	--	--	PSI
(E) Second Initial Flow Pressure .....	--	--	PSI
(F) Second Final Flow Pressure .....	--	--	PSI
(G) Final Closed-in Pressure .....	--	--	PSI
(H) Final Hydrostatic Mud .....	1565	1565	PSI

COMPANY  
 LEASE AND WELL NO.



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(620) 653-7550 • (800) 542-7313  
STC 21083.D04

**ORIGINAL**

Company L. D. Drilling, Inc. Lease & Well No. Hickel No.8  
Elevation 1809 KB Formation Arbuckle Effective Pay      Ft. Ticket No. J1594  
Date 1-15-05 Sec. 30 Twp. 17S Range 10W County Ellsworth State Kansas  
Test Approved By Jim Musgrove Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,246 ft. to 3,300 ft. Total Depth 3,300 ft.

Packer Depth 3,241 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Packer Depth 3,246 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 3,254 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,297 ft. Recorder Number 11073 Cap. 3,900 psi

Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi

Drilling Contractor VAL Energy, Inc. - Rig 3 Drill Collar Length 90 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 44 Weight Pipe Length      ft. I.D.      in.

Weight 9.1 Water Loss 13.0 cc. Drill Pipe Length 3,136 ft. I.D. 3 1/2 in.

Chlorides 3,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 54 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. Off bottom of bucket in 1 min. Weak blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 2 mins. Weak blow back during shut-in.

Recovered 1,750 ft. of gas cut oil = 24.850000 bbls. (Grind out: 10%-gas; 90%-oil) Gravity: 37 @ 60°

Recovered 380 ft. of slightly gas cut muddy oil = 5.396000 bbls. (Grind out: 10%-gas; 35%-mud; 55%-oil)

Recovered 120 ft. of slightly water cut muddy oil = .868800 bbls. (Grind out: 10%-water; 40%-mud; 50%-oil)

Recovered 2,250 ft. of TOTAL FLUID = 31.114800 bbls. Chlorides: 9,000 Ppm

Recovered      ft. of     

Remarks     

Time Set Packer(s) 11:08 ~~XXM.~~ P.M. Time Started Off Bottom 1:38 ~~A.M.~~ P.M. Maximum Temperature 109°

Initial Hydrostatic Pressure      (A) 1575 P.S.I.

Initial Flow Period      Minutes 30 (B) 27 P.S.I. to (C) 590 P.S.I.

Initial Closed In Period      Minutes 30 (D) 1067 P.S.I.

Final Flow Period      Minutes 45 (E) 599 P.S.I. to (F) 854 P.S.I.

Final Closed In Period      Minutes 45 (G) 1086 P.S.I.

Final Hydrostatic Pressure      (H) 1548 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JIM MUSGROVE

Phone: Fax: e-mail:

### Well Information:

Name: HICKEL #8

Operator: L D DRILLING INC

Location-Downhole: DST #2 3246-3300

Location-Surface: S30/17S/10W ELLSWORTH COUNTY

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JIM MUSGROVE

Test Type: CONVENTIONAL Job Number: D04

Test Unit: 2

Start Date: 2005/01/15 Start Time: 21:25:00

End Date: 2005/01/16 End Time: 07:07:40

Report Date: 2005/01/16 Prepared By: JOHN RIEDL

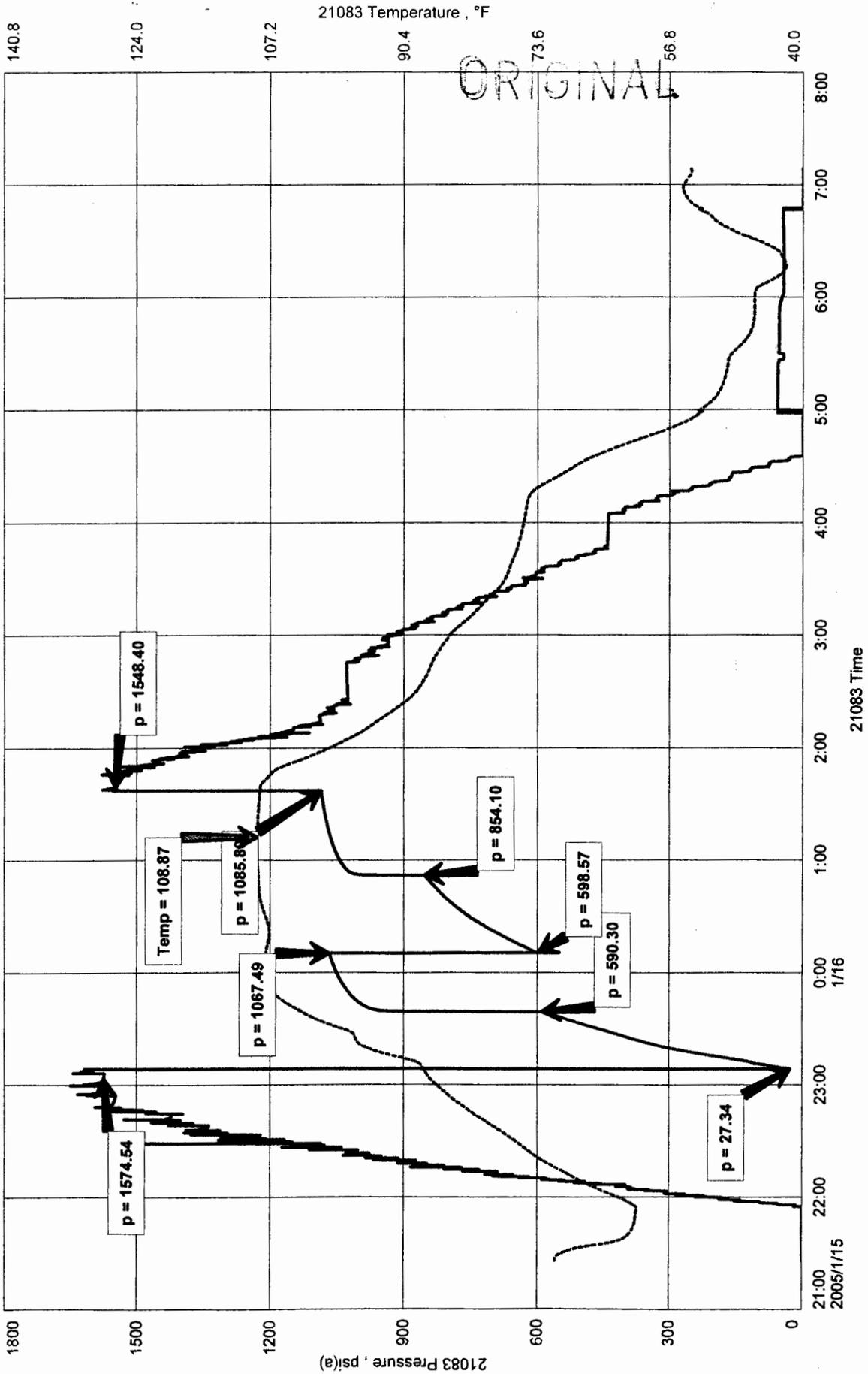
Remarks: Qualified By: JIM MUSGROVE

REC: 1750' GCO 380' SLGCMO 120' SLWCMO TOTAL REC. 2250'

HICKEL #8  
 Formation: ARBUCKLE  
 Job Number: D04

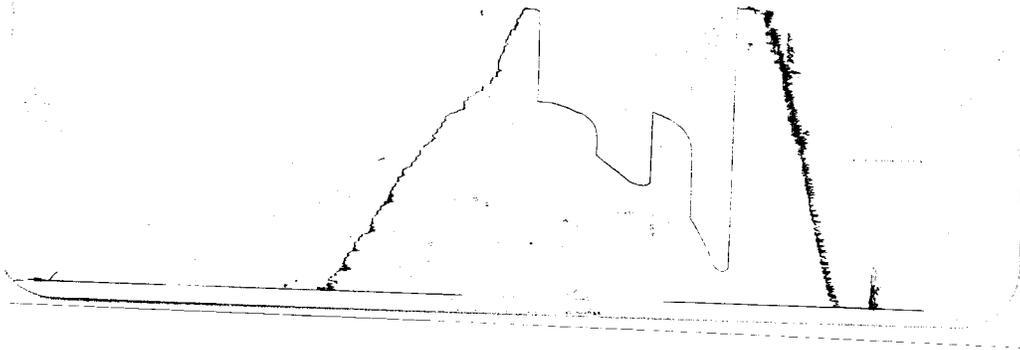
L D DRILLING INC  
 DST #2 3246-3300  
 Start Test Date: 2005/01/15  
 Final Test Date: 2005/01/16

# HICKEL #8



HOKEKSD  
DST #2

ROC # 11073 OUTSIDE LOC 328V



This is an actual photograph of recorder chart.

POINT	PRESSURE Elec.		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	1575	1575	PSI
(B) First Initial Flow Pressure.....	27	27	PSI
(C) First Final Flow Pressure .....	590	590	PSI
(D) Initial Closed-in Pressure .....	1067	1067	PSI
(E) Second Initial Flow Pressure .....	599	599	PSI
(F) Second Final Flow Pressure.....	854	854	PSI
(G) Final Closed-in Pressure.....	1086	1086	PSI
(H) Final Hydrostatic Mud.....	1548	1548	PSI