

3-215-12w

Adi # 15-185-23489-0000



### DIAMOND TESTING

P.O. Box 157  
HOISINGTON, KANSAS 67544  
(620) 653-7550 • (800) 542-7313  
STC 21083.D361

Page 1 of 2 Pages

Company L. D. Drilling, Inc. Lease & Well No. Rugan "B" No. 1

Elevation 1850 KB Formation Lansing/Kansas City "A"- "F" Effective Pay -- Ft. Ticket No. J2164

Date 11-24-07 Sec. 3 Twp. 21S Range 12W County Stafford State Kansas

Test Approved By Josh Austin Diamond Representative John C. Riedl

Formation Test No. 1 Interval Tested from 3,192 ft. to 3,270 ft. Total Depth 3,270 ft.

Packer Depth 3,187 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,192 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set          ft.

Top Recorder Depth (Inside)          3,195 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside)          3,267 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth          ft. Recorder Number          Cap.         psi

Drilling Contractor Petromark Drilling, LLC - Rig 2 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 45 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.0 Water Loss 9.6 cc. Drill Pipe Length 3,052 ft. I.D. 3 1/2 in.

Chlorides 4,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 78 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, 1/2 in., blow.  
2nd Open: N/A

Recovered 30 ft. of oil specked drilling mud = .147600 bbls.

Recovered          ft. of         

Recovered          ft. of         

Recovered          ft. of         

Recovered          ft. of         

Remarks         

Time Set Packer(s) 7:25 <sup>AM</sup> P.M. Time Started Off Bottom 8:25 <sup>AM</sup> P.M. Maximum Temperature 93°

Initial Hydrostatic Pressure ..... (A) 1598 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 21 P.S.I. to (C) 26 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 147 P.S.I.

Final Flow Period ..... Minutes 0 (E) -- P.S.I. to (F) -- P.S.I.

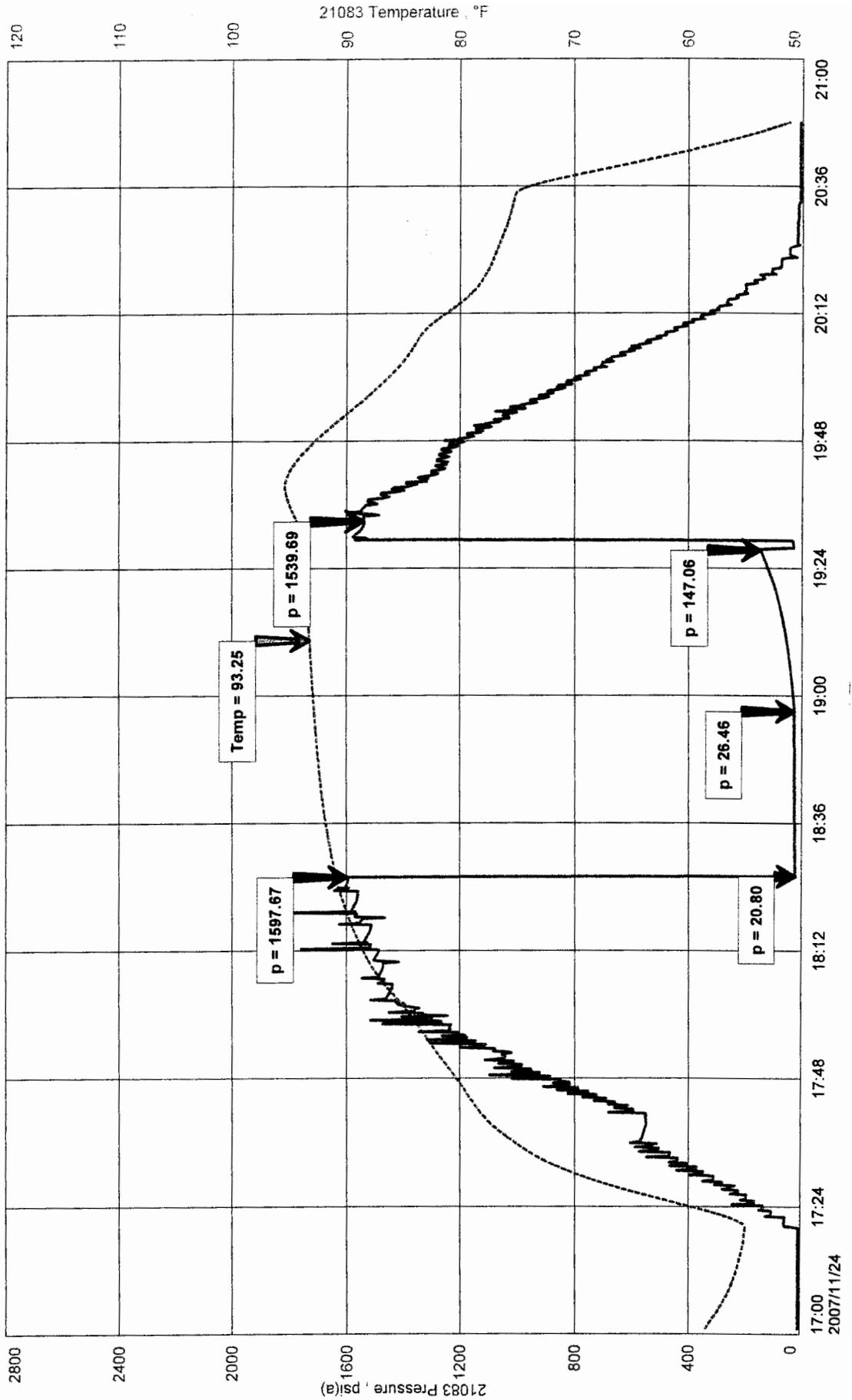
Final Closed In Period ..... Minutes 0 (G) -- P.S.I.

Final Hydrostatic Pressure ..... (H) 1540 P.S.I.

L D DRILLING INC  
DST#1 3192 TO 3270  
Start Test Date: 2007/11/24  
Final Test Date: 2007/11/24

RUGAN "B" #1  
Formation: LKC "B/F"  
Job Number: D361

# RUGAN "B" #1



## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

### Well Information:

Name: RUGAN "B" #1

Operator: L D DRILLING INC

Location-Downhole: DST#1 3192 TO 3270

Location-Surface: S3/21S/12W STAFFORD COUNTY

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: CONVENTIONAL Job Number: D361

Test Unit: 2

Start Date: 2007/11/24 Start Time: 17:00:00

End Date: 2007/11/24 End Time: 20:45:00

Report Date: 2007/11/24 Prepared By: JOHN RIEDL

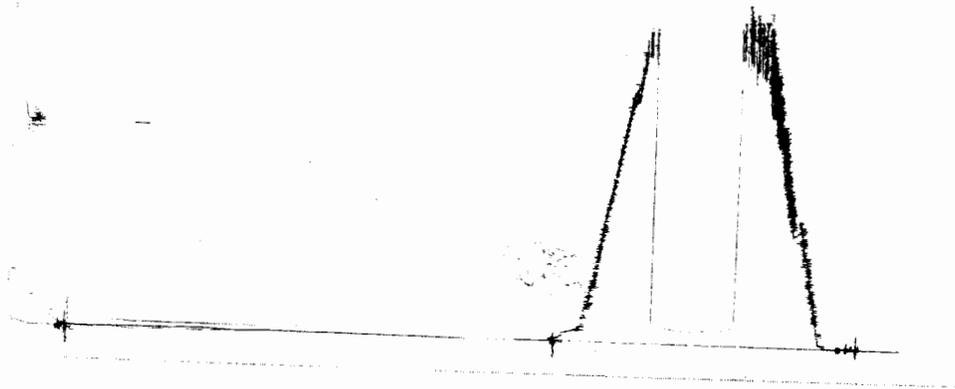
Remarks: Qualified By: JOSH AUSTIN

RECOVERY: 30' OIL SPECKED DRILLING MUD IN DRILL COLLAR

L.D. DRUG  
RUGAN

DST 91

ROC #023  
05/01



This is an actual photograph of recorder chart.

POINT	PRESSURE		Elec. Office Reading
	Field Reading		
(A) Initial Hydrostatic Mud .....	1598	1598	PSI
(B) First Initial Flow Pressure .....	21	21	PSI
(C) First Final Flow Pressure .....	26	26	PSI
(D) Initial Closed-in Pressure .....	147	147	PSI
(E) Second Initial Flow Pressure .....	--	--	PSI
(F) Second Final Flow Pressure .....	--	--	PSI
(G) Final Closed-in Pressure .....	--	--	PSI
(H) Final Hydrostatic Mud .....	1540	1540	PSI



**DIAMOND TESTING**  
 P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
 (620) 653-7550 • (800) 542-7313  
 STC 21083.D362

Company L. D. Drilling, Inc. Lease & Well No. Rugan "B" No. 1

Elevation 1850 KB Formation Arbuckle Effective Pay      Ft. Ticket No. J2165

Date 11-25-07 Sec. 3 Twp. 21S Range 12W County Stafford State Kansas

Test Approved By Josh Austin Diamond Representative John C. Riedl

Formation Test No. 2 Interval Tested from 3,407 ft. to 3,449 ft. Total Depth 3,449 ft.

Packer Depth 3,402 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Packer Depth 3,407 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 3,410 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,446 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi

Drilling Contractor Petromark Drilling, LLC - Rig 2 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 52 Weight Pipe Length      ft. I.D.      in.

Weight 9.3 Water Loss 10.2 cc. Drill Pipe Length 3,267 ft. I.D. 3 1/2 in.

Chlorides 4,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 42 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, 1/2 in., blow.

2nd Open: Weak, 1/2 in., blow. Dead in 20 mins.

Recovered 40 ft. of slightly mud cut oil = .196800 bbls. (Grind out: 15%-mud; 85%-oil)

Recovered      ft. of     

Recovered      ft. of     

Recovered      ft. of     

Recovered      ft. of     

Remarks     

Time Set Packer(s) 4:45 <sup>AM</sup> P.M. Time Started Off Bottom 6:45 <sup>AM</sup> P.M. Maximum Temperature 100 °

Initial Hydrostatic Pressure ..... (A) 1768 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 23 P.S.I. to (C) 33 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 222 P.S.I.

Final Flow Period ..... Minutes 30 (E) 35 P.S.I. to (F) 41 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 228 P.S.I.

Final Hydrostatic Pressure ..... (H) 1692 P.S.I.

## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING INC

Contact: L D DAVIS

Phone: Fax: e-mail:

### Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

### Well Information:

Name: DUGAN "B" #1

Operator: L D DRILLING INC

Location-Downhole: DST#2 3407 TO 3449

Location-Surface: S3/21S/14W STAFFORD COUNTY

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: CONVENTIONAL Job Number: D363

Test Unit: 2

Start Date: 2007/11/25 Start Time: 15:35:00

End Date: 2007/11/25 End Time: 20:25:00

Report Date: 2007/11/25 Prepared By: JOHN RIEDL

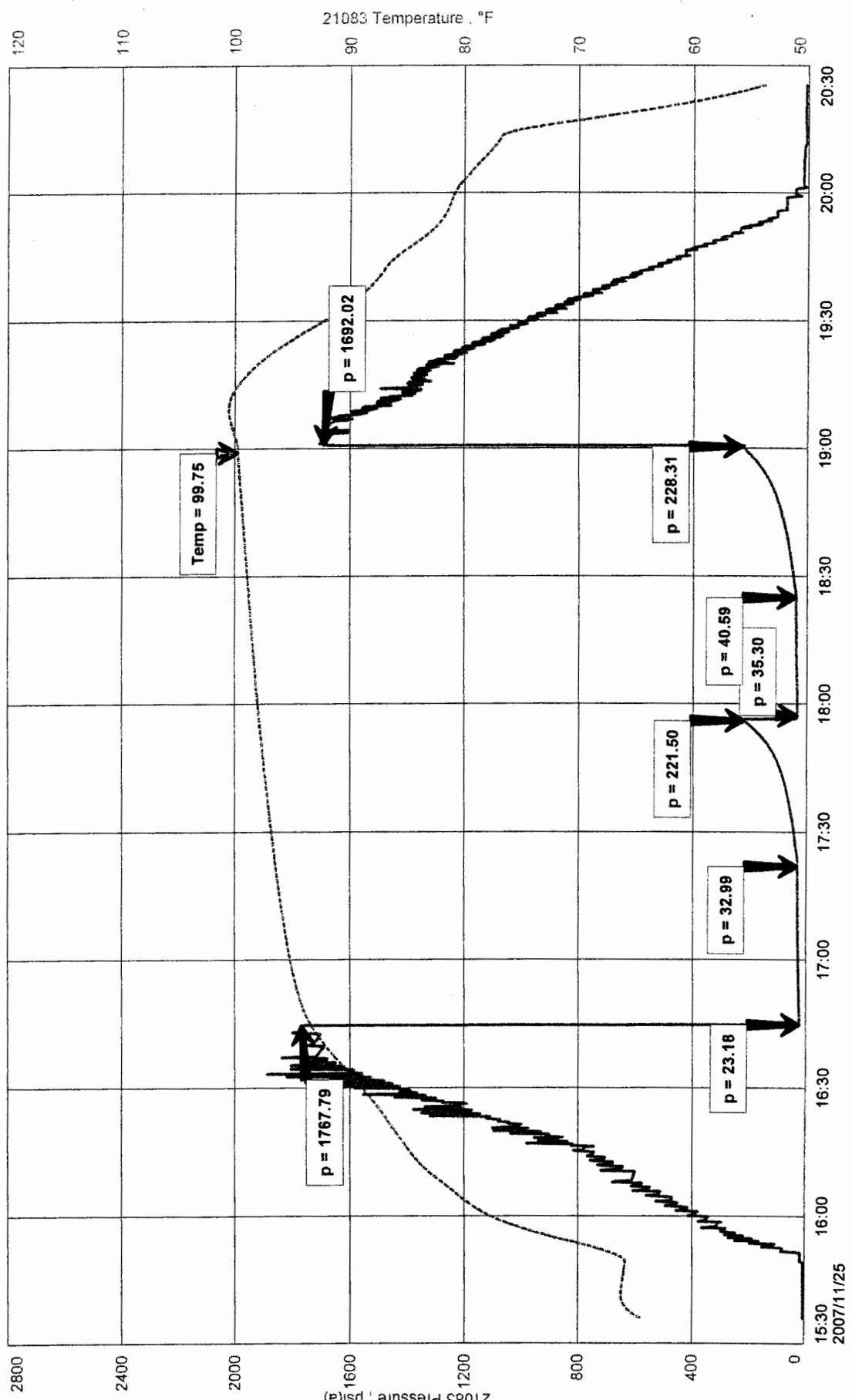
Qualified By: JOSH AUSTIN

REC: 40' SLIGHTLY OIL CUT MUD IN DRILL COLLARS

DUGAN "B" #1  
 Formation: ARBUCKLE  
 Job Number: D363

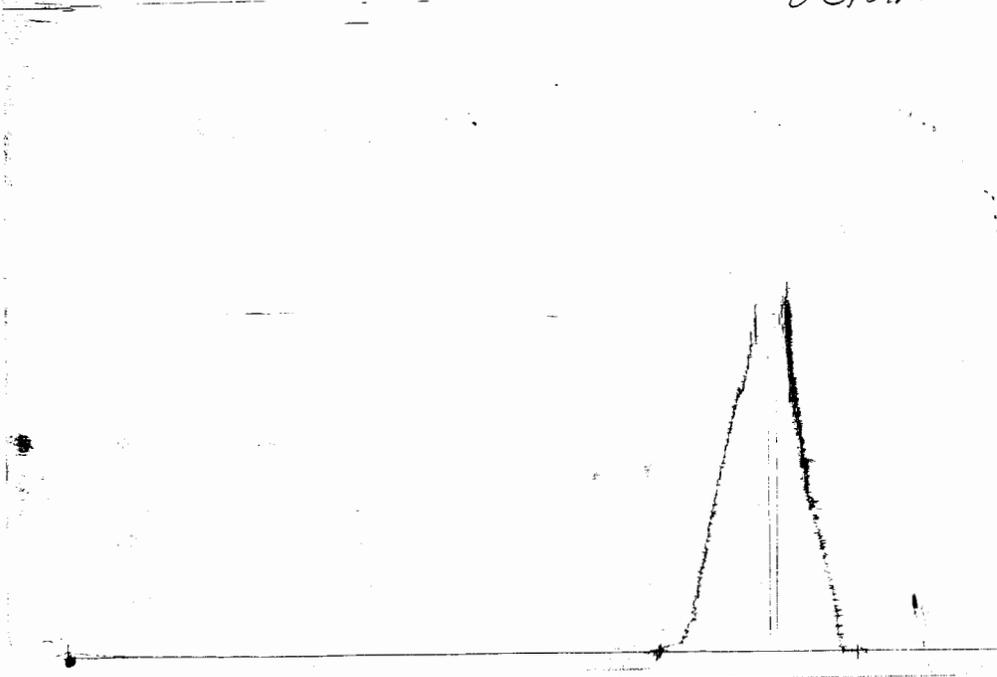
# DUGAN "B" #1

DRILLING INC  
 ST#2 3407 TO 3449  
 art Test Date: 2007/11/25  
 al Test Date: 2007/11/25



LD  
RUEAUB #1 IST #2

POC 11073  
OCT 5/16



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	1768	1768	PSI
(B) First Initial Flow Pressure	23	23	PSI
(C) First Final Flow Pressure	33	33	PSI
(D) Initial Closed-in Pressure	222	222	PSI
(E) Second Initial Flow Pressure	35	35	PSI
(F) Second Final Flow Pressure	41	41	PSI
(G) Final Closed-in Pressure	228	228	PSI
(H) Final Hydrostatic Mud	1692	1692	PSI



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STC 21083.D363

Company L. D. Drilling, Inc. Lease & Well No. Rugan "B" No. 1

Elevation 1850 KB Formation Arbuckle Effective Pay      Ft. Ticket No. J2166

Date 11-26-07 Sec. 3 Twp. 21S Range 12W County Stafford State Kansas

Test Approved By Josh Austin Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,409 ft. to 3,458 ft. Total Depth 3,458 ft.

Packer Depth 3,404 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Packer Depth 3,409 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Depth of Selective Zone Set      ft.

Top Recorder Depth (Inside) 3,412 ft. Recorder Number 21083 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,455 ft. Recorder Number 11073 Cap. 4,000 psi

Below Straddle Recorder Depth      ft. Recorder Number      Cap.      psi

Drilling Contractor Petromark Drilling, LLC - Rig 2 Drill Collar Length 120 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 54 Weight Pipe Length      ft. I.D.      in.

Weight 9.3 Water Loss 10.2 cc. Drill Pipe Length 3,269 ft. I.D. 3 1/2 in.

Chlorides 4,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.

Jars: Make Sterling Serial Number Not Run Anchor Length 49 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 30 secs. Fair blow back during shut-in.

2nd Open: Strong blow. Off bottom of bucket in 1 min. Weak blow back during shut-in.

Recovered 120 ft. of gas in pipe

Recovered 1,030 ft. of clean gassy oil = 14.626000 bbls. (Grind out: 20%-gas; 80%-oil) Gravity: 34 @ 60°

Recovered 250 ft. of heavy mud cut gassy oil = 3.550000 bbls. (Grind out: 30%-mud; 20%-gas; 50%-oil)

Recovered 120 ft. of oil & gas cut watery mud = .590400 bbls. (Grind out: 25%-oil; 15%-gas; 25%-water; 35%-mud)

Recovered 1,400 ft. of TOTAL FLUID = 18.766400 bbls. Chlorides: 20,000 Ppm

Remarks     

Time Set Packer(s) 2:25 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 5:25 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 110°

Initial Hydrostatic Pressure ..... (A) 1757 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 208 P.S.I. to (C) 420 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 802 P.S.I.

Final Flow Period ..... Minutes 45 (E) 468 P.S.I. to (F) 589 P.S.I.

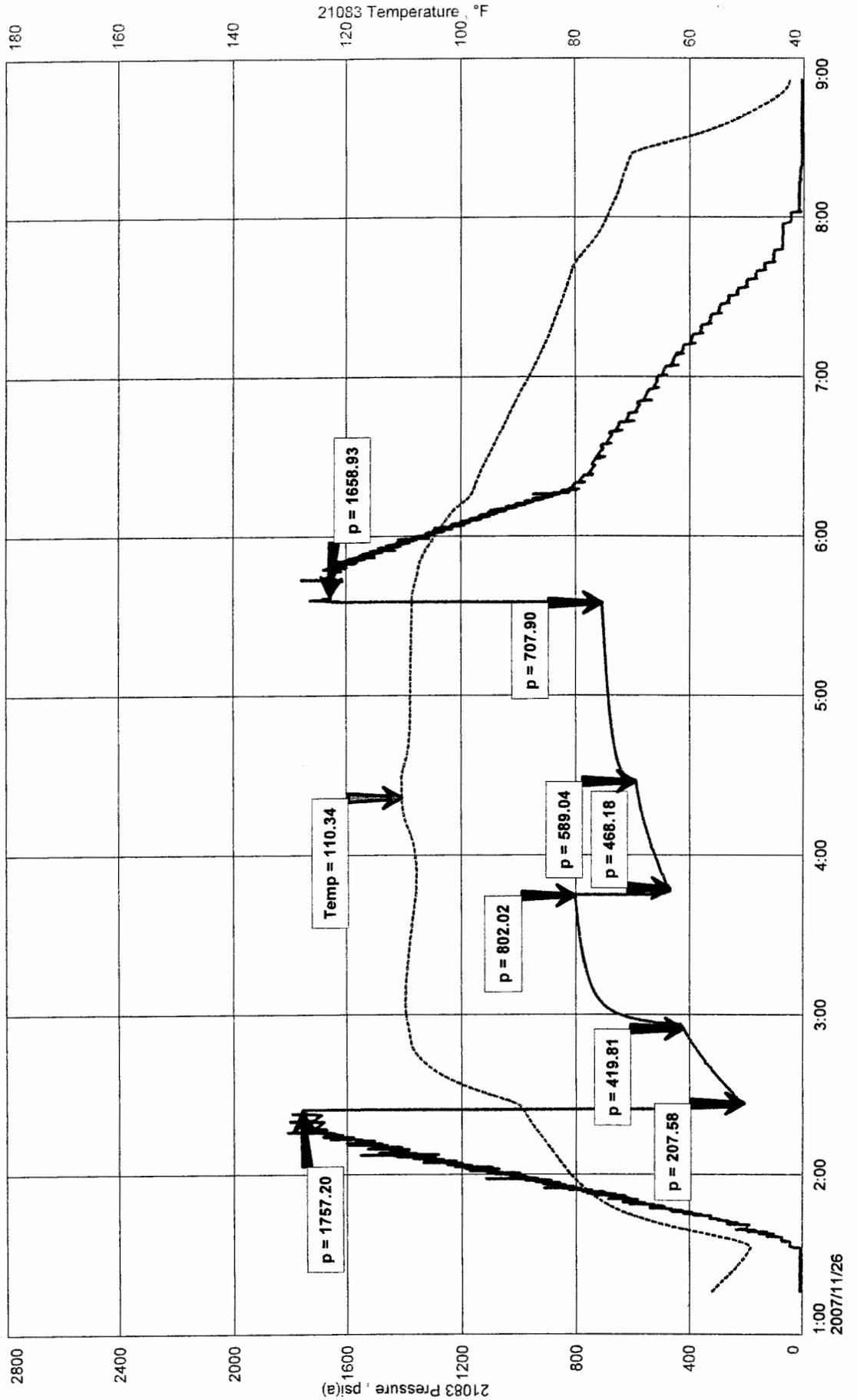
Final Closed In Period ..... Minutes 60 (G) 708 P.S.I.

Final Hydrostatic Pressure ..... (H) 1659 P.S.I.

L D DRILLING IN C  
DST #3 3409 TO 3458  
Start Test Date: 2007/11/26  
Final Test Date: 2007/11/26

RUGAN "B" #1  
Formation: ARBUCKLE  
Job Number: D362

# RUGAN "B" #1



## GENERAL INFORMATION

### Client Information:

Company: L D DRILLING IN C

Contact: JOHN RIEDL

Phone: Fax: e-mail:

### Site Information:

Contact: JOSH AUSTIN

Phone: Fax: e-mail:

### Well Information:

Name: RUGAN "B" #1

Operator: L D DRILLING INC

Location-Downhole: DST #3 3409 TO 3458

Location-Surface: S3/21S/14W STAFFORD COUNTY

### Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: JOSH AUSTIN

Test Type: CONVENTIONAL Job Number: D362

Test Unit: 2

Start Date: 2007/11/26 Start Time: 01:15:00

End Date: 2007/11/26 End Time: 08:50:00

Report Date: 2007/11/26 Prepared By: JOHN RIEDL

Qualified By: JOSH AUSTIN

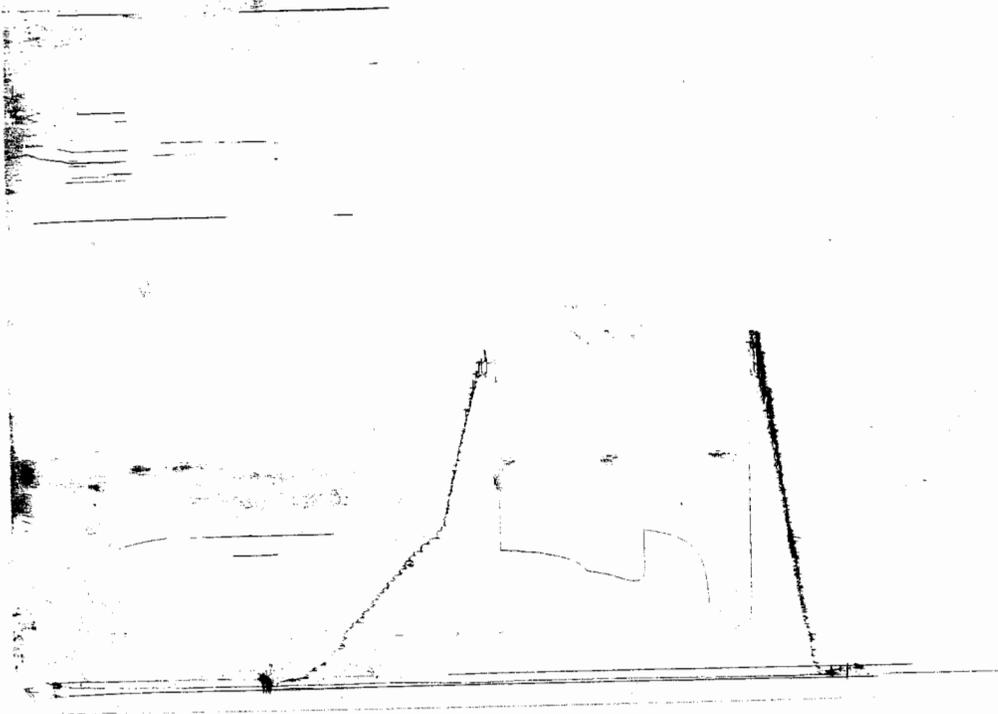
### Remarks:

RECOVERY: 120' GIP  
1280' GASSY OIL  
120' OIL+GAS CUT WATERY MUD

L.D. DRUG  
 WUGAWO#1

DST#3

Rec. # W 93  
 OUTSIDE



This is an actual photograph of recorder chart.

POINT	PRESSURE Elec.		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud .....	1757	1757	PSI
(B) First Initial Flow Pressure.....	208	208	PSI
(C) First Final Flow Pressure .....	420	420	PSI
(D) Initial Closed-in Pressure .....	802	802	PSI
(E) Second Initial Flow Pressure.....	468	468	PSI
(F) Second Final Flow Pressure.....	589	589	PSI
(G) Final Closed-in Pressure.....	708	708	PSI
(H) Final Hydrostatic Mud .....	1659	1659	PSI