15-151-22205

25-26s-11w

DIAMOND TESTING

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

STC 21098.D43

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

Elevation 1811 KB Formation Lansing/Kansas City "L"/Hertha Effective Pay -- Ft. Ticket No. 1933

Date 11-4-04 Sec. 25 Twp. 26S Range 11W County Pratt State Kansas

Test Approved By Kim B. Shoemaker Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 3,890 ft. to 3,926 ft. Total Depth 3,926 ft.

Packer Depth 3,885 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,890 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,878 ft. Recorder Number 21098 Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,923 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Duke Drilling Co., Inc. - Rig 8 Drill Collar Length -- ft. I.D. --

Mud Type Chemical Viscosity 48 Weight Pipe Length -- ft. I.D. --

Weight 9.2 Water Loss 10.0 cc. Drill Pipe Length 3,865 ft. I.D. 3 1/2

Chlorides 5,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF

Jars: Make Bowen Serial Number Not Run Anchor Length 36 ft. Size 4 1/2 - FH

Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2-XH

Blow: 1st Open: Weak, ½ in., blow. Decreasing in 14 mins. Weak surface blow at end. No blow back during shut-in.
2nd Open: No blow.

Recovered 2 ft. of drilling mud with a few oil specks on tool = .028400 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks Tool Sample Grind Out: drilling mud with a few oil specks

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Time Set Packer(s) 8:28 XXX P.M. Time Started Off Bottom 10:28 XXX P.M. Maximum Temperature 111°

Initial Hydrostatic Pressure ..... (A) 1854 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 2 P.S.I. to (C) 9 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 15 P.S.I.

Final Flow Period ..... Minutes 30 (E) 8 P.S.I. to (F) 9 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 10 P.S.I.

Final Hydrostatic Pressure ..... (H) 1846 P.S.I.

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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Zink No. 1

Date 11-4-04 Sec. 25 Twp. 26 S Range 11 W

Formation Test No. 1 Interval Tested From 3,890 ft. to 3,926 ft. Total Depth 3,926 ft.

Formation Lansing/Kansas City "L"/Hertha

	MUD PIT	RECOVERY
Viscosity	48 CP	-- CP
Weight	9.0	9.2
Water Loss	10.0 CC	10.0 CC
PH Factor	10.5	10.0

	RESISTIVITY		CHLORIDE CONTENT
Recovery Water	-- @	-- °F.	-- ppm
Recovery Mud	1.00 @	70 °F.	6,200 ppm
Recovery Mud Filtrate	1.05 @	71 °F.	5,600 ppm
Mud Pit Sample	.96 @	63 °F.	7,500 ppm
Mud Pit Sample Filtrate	1.10 @	66 °F.	6,000 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By KIM B. SHOEMAKER

Remarks Pit filtrate triton dish chlorides were 5,000 Ppm
Recovery filtrate triton dish chlorides were 4,800 Ppm

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GENERAL INFORMATION

Client Information:

Company: L.D. DRILLING, INC.

Contact: L.D. DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone:

Well Information:

Name: ZINK #1

Operator: L.D. DRILLING, INC.

Location-Downhole: DST #1 LKC 'L' HERTHA 3,890' - 3,926'

Location-Surface: SEC 25-26S-11W PRATT COUNTY

Test Information:

Company: DIAMOND TESTING

Representative: ROGER D. FRIEDLY

Supervisor: KIM SHOEMAKER

Test Type: CONVENTIONAL

Test Unit: NO. 1

Start Date: 2004/11/04

End Date: 2004/11/05

Report Date:

Job Number:

Start Time: 17:58:00

End Time: 00:54:00

Prepared By:

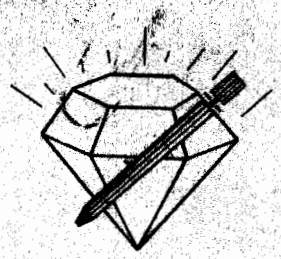
Qualified By:

Remarks:

RECOVERERD: 2' DM WITH A FEW OIL SPECKS.

TOOL SAMPLE DRILLING MUD WITH A FEW OIL SPECKS

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DRILL-STEM TEST TICKET

#44

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

Contractor Duke Rig 8 Charge to L.D. Drilling, Inc

Elevation 1811 KB Formation Miss Effective Pay Ft. Ticket No.

Date 11-05-04 Sec. 25 Twp. 26 S Range 11 W County Pratt State KANSAS

Test Approved By Diamond Representative ROGER D. FRIEDLY

Formation Test No. 2 Interval Tested from 4031 ft. to 4115 ft. Total Depth 4115 ft.

Packer Depth 4026 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4031 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4019 ft. Recorder Number 21098 Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) 4112 ft. Recorder Number 13387 Cap. 4000 P.S.I.

Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type Chem Viscosity 53 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9.5 Water Loss 12.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 6,500 P.P.M. Drill Pipe Length 4006 ft. I.D. 3 1/2 in.

Jars: Make BOWEN Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.

Did Well Flow? No Reversed Out No (42' DP) Anchor Length 84 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Fair 1" blow in To BTM BKT 25½ min (No bb)

2nd Open: STRONG BLOW OFF BTM BKT Immed. (No bb)

Recovered 107 ft. of DM 100% DM

Recovered ft. of

Recovered 620 ft. of Gas in Pipe

Recovered ft. of

Recovered ft. of

Remarks: * Had To set packer Twice- Some Surging

Tool Sample 100% DM

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Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 8:02 A.M. P.M. Time Started Off Bottom 12:17 A.M. P.M. Maximum Temperature 117

Initial Hydrostatic Pressure ..... (A) 1921 P.S.I.

Initial Flow Period ..... Minutes 45 (B) 68 P.S.I. to (C) 58 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 456 P.S.I.

Final Flow Period ..... Minutes 60 (E) 52 P.S.I. to (F) 59 P.S.I.

Final Closed In Period ..... Minutes 90 (G) 683 P.S.I.

Final Hydrostatic Pressure ..... (H) 1923 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

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FLUID SAMPLE DATA

Company L.D. Drilling, Inc.

Lease & Well No. Zink #1

Date 11-05-04 Sec. 25 Twp. 26 S Range 11 W

Formation Test No. 2 Interval Tested From 4031 ft. to 4115 ft. Total Depth 4115 ft.

Formation Miss

	MUD PIT	RECOVERY
Viscosity	53 CP	47 CP
Weight	9.5	9.2
Water Loss	12.0 CC	12.8 CC
PH Factor	9.5	9.5

	RESISTIVITY		CHLORIDE CONTENT
Recovery Water	— @ —	°F.	— ppm
Recovery Mud	.75 @ 68	°F.	9,000 ppm
Recovery Mud Filtrate	.78 @ 70	°F.	8400 ppm
Mud Pit Sample	.60 @ 82	°F.	9500 ppm
Mud Pit Sample Filtrate	.70 @ 90	°F.	8,000 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By

Remarks Pit filtrate triton dish chlorides were 6500 Ppm

Recovery filtrate triton dish chlorides were 6,000 Ppm

Recovery water dish chlorides were — Ppm

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GENERAL INFORMATION

Client Information:

Company: L.D. DRILLING, INC.

Contact: L.D. DAVIS

Phone: Fax: e-mail:

Site Information:

Contact: KIM SHOEMAKER

Phone: Fax: e-mail:

Well Information:

Name: ZINK #1

Operator: L.D. DRILLING, INC

Location-Downhole: DST #2 MISS. 4,031' - 4,115'

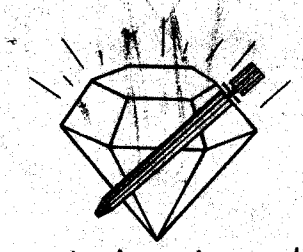
Location-Surface: SEC 25-26S-11W PRATT COUNTY

Test Information:

Company:	DIAMOND TESTING		
Representative:	ROGER D. FRIEDLY		
Supervisor:	KIM SHOEMAKER		
Test Type:	CONVENTIONAL	Job Number:	
Test Unit:	NO. 1		
Start Date:	2004/11/05	Start Time:	17:58:00
End Date:	2004/11/06	End Time:	03:36:20
Report Date:		Prepared By:	
Remarks:		Qualified By:	

RECOVERED: 107' DRILLING MUD (HAD TO SET PACKER TWICE)
620' GAS IN PIPE.
TOOL SAMPLE 100% DRILLING MUD

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11-7 O 05:43

DRILL-STEM TEST TICKET

d 4/5

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

Contractor Duke Rig 8 Charge to L.D. Drilling, Inc.

Elevation 1811 KB Formation Viola Effective Pay Ft. Ticket No.

Date 11-7-04 Sec. 25 Twp. 26 S Range 11 W County Pratt State KANSAS

Test Approved By Diamond Representative ROGER D. FRIEDLY

Formation Test No. 3 Interval Tested from 4269 ft. to 4290 ft. Total Depth 4290 ft.

Packer Depth 4264 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 4269 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4257 ft. Recorder Number 21098 Cap. 5000 P.S.I.

Bottom Recorder Depth (Outside) 4287 ft. Recorder Number 13389 Cap. 4000 P.S.I.

Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type Chem Viscosity 47 Drill Collar Length 0 ft. I.D. 2 1/4 in.

Weight 9.4 Water Loss 12.0 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.

Chlorides 6200 P.P.M. Drill Pipe Length 4244 ft. I.D. 3 1/2 in.

Jars: Make BOWEN Serial Number N/A Test Tool Length 25 ft. Tool Size 3 1/2-IF in.

Did Well Flow? NO Reversed Out NO Anchor Length 21 ft. Size 4 1/2-FH in.

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG BLOW OFF BTM BKT 1 min GTS 5 min (No bb) (No bb)

2nd Open: STRONG BLOW OFF BTM BKT Immed

Recovered 10 ft. of DM 100% DM

Recovered 60 ft. of SLTWTR GCMO 5% WTR 15% GAS 40% mud 40% OIL (Emul.)

Recovered 70 ft. of Total Fluid

Recovered ft. of

Recovered ft. of

Remarks: Tool Sample 5% mud 13% WTR 30% GAS 52% OIL (Emul.)

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Price Job	
Other Charges	
Insurance	
Total	

Time Set Packer(s) 12:26 A.M. P.M. Time Started Off Bottom 3:26 A.M. P.M. Maximum Temperature 119

Initial Hydrostatic Pressure ..... (A) 2029 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 188 P.S.I. to (C) 166 P.S.I.

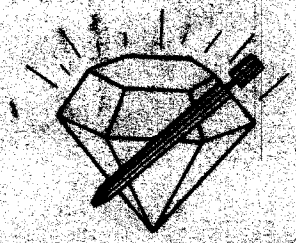
Initial Closed In Period ..... Minutes 45 (D) 1109 P.S.I.

Final Flow Period ..... Minutes 45 (E) 134 P.S.I. to (F) 174 P.S.I.

Final Closed In Period ..... Minutes 60 (G) 1,106 P.S.I.

Final Hydrostatic Pressure ..... (H) 2023 P.S.I.

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FLUID SAMPLE DATA

Company L. D. Drilling, Inc.

Lease & Well No. Zink #1

Date 11-07-04 Sec. 25 Twp. 26 S Range 11 W

Formation Test No. 3 Interval Tested From 4269 ft. to 4290 ft. Total Depth 4290 ft.

Formation Viola

	MUD PIT	RECOVERY
Viscosity	47 CP	90+ CP
Weight	9.4	9.1
Water Loss	12.0 CC	16.0 CC
PH Factor	9.5	8.5

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	.150	@ 58	°F.	18,000 ppm
Recovery Mud	.185	@ 56	°F.	10,000 ppm
Recovery Mud Filtrate	.190	@ 54	°F.	9,200 ppm
Mud Pit Sample	.192	@ 62	°F.	7800 ppm
Mud Pit Sample Filtrate	.194	@ 64	°F.	7200 ppm

Sample Taken By ROGER D. FRIEDLY

Witness By

Remarks Pit filtrate triton dish chlorides were 6200 Ppm

Recovery filtrate triton dish chlorides were 7400 Ppm

Recovery water dish chlorides were 14,000 Ppm

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GAS VOLUME REPORT

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

Date 11-7-04 Sec. 25 Twp. 26 S Rge. 11 W Location County Pratt State KS

Drilling Contractor Duke Rig 8 Formation Viola DST No. 3

Remarks: GTS 5 min - Burned Nicely

INITIAL FLOW PSI

Time O'Clock	Orifice Size	Gauge	CF/D
10	1 1/4 in.	1 in.	233,000
15	1 in.	3 in.	242,000
20	" in.	" in.	242,000
25	" in.	" in.	242,000
30	" in.	" in.	242,000
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW PSI

Time O'Clock	Orifice Size	Gauge	CF/D
5	1/2 in.	22 in.	189,000
10	" in.	30 in.	231,000
15	" in.	" in.	"
20	" in.	31 in.	237,000
25	" in.	32 in.	243,000
30	" in.	32 in.	243,000
35	" in.	31 in.	237,000
40	" in.	30 in.	231,000
45	" in.	30 in.	231,000
	in.	in.	

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