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

CONFIDENTIAL

ORIGINAL

Company Mull Drilling Company, Inc. Lease & Well No. Steckel Farms No. 1-11

Elevation 1940 KB Formation Lansing/Kansas City "J" Effective Pay -- Ft. Ticket No. 1662

Date 9-24-02 Sec. 11 Twp. 22S Range 14W County Stafford State Kansas

Test Approved By Roger L. Martin Diamond Representative Roger D. Friedly

Formation Test No. 1 Interval Tested from 3,591 ft. to 3,618 ft. Total Depth 3,618 ft.

Packer Depth 3,586 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,591 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,579 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,615 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Sterling Drlg Company - Rig 1 Drill Collar Length 241 ft. I.D. 2 1/4 in.

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

Weight 9.45 Water Loss 8.8 cc. Drill Pipe Length 3,325 ft. I.D. 3 1/2 in.

Chlorides 7,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 27 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, 1/8 in., blow throughout. No blow back during shut-in.
2nd Open: No blow. Flushed tool. No blow.

Recovered 15 ft. of very slightly oil specked drilling mud with a good gassy odor = .073800 bbls.
(Grind out: less than 1%-oil; 99%-mud)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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Remarks Tool Sample Grind Out: Few oil specks on top of drill[illegible]

Time Set Packer(s) 6:50 ~~A.M.~~ P.M. Time Started Off Bottom 8:50 ~~A.M.~~ P.M. Maximum Temperature 104°

Initial Hydrostatic Pressure ..... (A) 1724 P.S.I.

Initial Flow Period ..... Minutes 15 (B) 9 P.S.I. to (C) 14 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 492 P.S.I.

Final Flow Period ..... Minutes 30 (E) 16 P.S.I. to (F) 24 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 214 P.S.I.

Final Hydrostatic Pressure ..... (H) 1709 P.S.I.

DIAMOND TESTING
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FLUID SAMPLE DATA

Company: Mull Drilling Company, Inc.

Lease & Well No.: Steckel Farms No. 1-11

Date: 9-24-02 Sec. 11 Twp. 22 S Range 14 W

Formation Test No. 1 Interval Tested From 3,591 ft. to 3,618 ft. Total Depth 3,618 ft.

Formation: Lansing/Kansas City "J"

	MUD PIT	RECOVERY
Viscosity	48 CP	45 CP
Weight	9.45	9.15
Water Loss	8.8 CC	8.8 CC
PH Factor	11.0	11.0

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	--	@ --	°F.	-- ppm
Recovery Mud	.84	@ 62	°F.	9,000 ppm
Recovery Mud Filtrate	.88	@ 62	°F.	8,800 ppm
Mud Pit Sample	.70	@ 72	°F.	9,000 ppm
Mud Pit Sample Filtrate	.70	@ 69	°F.	9,500 ppm

Sample Taken By: ROGER D. FRIEDLY

Witness By: Roger L. Martin

Remarks: Pit filtrate triton dish chlorides were 7,000 Ppm.
Recovery filtrate triton dish chlorides were 6,000 Ppm.

Well LSD: DST #1 LKC J 3591'-3618'
Well Name: STECKEL FARMS 1-11
Company: MULL DRILLING CO INC
Battery on: Sep 24, 2002 at 16:50:00
Notes:RECOVERED 15' VSOSDM LESS THAN 1% OIL.

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Tag	Pressure	Temperature	Comment
1	1723.86 psig	98.73 °F	2002-09-24 18:45:30
2	8.64 psig	99.68 °F	2002-09-24 18:50:30
3	13.94 psig	101.05 °F	2002-09-24 19:05:00
4	491.81 psig	102.60 °F	2002-09-24 19:50:30
5	16.06 psig	102.62 °F	2002-09-24 19:51:30
6	24.12 psig	103.65 °F	2002-09-24 20:21:30
7	213.71 psig	104.09 °F	2002-09-24 20:51:30
8	1709.15 psig	104.32 °F	2002-09-24 20:56:00

This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1724	1724	PSI
(B)	First Initial Flow Pressure	9	9	PSI
(C)	First Final Flow Pressure	14	14	PSI
(D)	Initial Closed-in Pressure	492	492	PSI
(E)	Second Initial Flow Pressure	16	16	PSI
(F)	Second Final Flow Pressure	24	24	PSI
(G)	Final Closed-in Pressure	214	214	PSI
(H)	Final Hydrostatic Mud	1709	1709	PSI

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CONFIDENTIAL ORIGINAL

Company Mull Drilling Company, Inc. Lease & Well No. Steckel Farms No. 1-11

Elevation 1940 KB Formation Lansing/Kansas City "K" Effective Pay 4 Ft. Ticket No. 1663

Date 9-25-02 Sec. 11 Twp. 22S Range 14W County Stafford State Kansas

Test Approved By Roger L. Martin Diamond Representative Roger D. Friedly

Formation Test No. 2 Interval Tested from 3,617 ft. to 3,644 ft. Total Depth 3,644 ft.

Packer Depth 3,612 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,617 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

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Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,603 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,641 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Sterling Drlg Company - Rig 1 Drill Collar Length 241 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 46 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.4 Water Loss 9.6 cc. Drill Pipe Length 3,351 ft. I.D. 3 1/2 in.

Chlorides 7,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 27 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, ½ in., blow increasing to a fair blow in 4 3/4 mins. No blow back during shut-in.
2nd Open: Fair, 1 in., blow increasing. Off bottom of bucket in 28½ mins. Fair, 1 in., blow back during shut-in.

Recovered 240 ft. of gas in pipe

Recovered 35 ft. of clean oil = .172200 bbls. (Gravity: 24 @ 60°)

Recovered 31 ft. of slightly water cut muddy oily gas = .152520 bbls. (Grind out: 7%-water; 18%-mud; 35%-oil; 40%-gas)
Recovered 60 ft of slightly water cut muddy oily gas = .295200 bbls. (Grind out: 8%-water; 15%-mud; 27%-oil; 50%-gas)
Recovered 60 ft. of slightly water cut muddy gassy oil = .295200 bbls. (Grind out: 12%-water; 23%-mud; 23%-gas; 42%-oil)

Recovered 186 ft. of TOTAL FLUID = .915120 bbls.

Remarks Tool Sample Grind Out: 10%-gas; 17%-mud; 28%-water; 45%-oil

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Time Set Packer(s) 9:30 ~~P.M.~~ A.M. Time Started Off Bottom 1:30 ~~A.M.~~ P.M. Maximum Temperature 105°

Initial Hydrostatic Pressure ..... (A) 1737 P.S.I.

Initial Flow Period ..... Minutes 15 (B) 13 P.S.I. to (C) 38 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 723 P.S.I.

Final Flow Period ..... Minutes 60 (E) 50 P.S.I. to (F) 85 P.S.I.

Final Closed In Period ..... Minutes 120 (G) 771 P.S.I.

Final Hydrostatic Pressure ..... (H) 1726 P.S.I.

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FLUID SAMPLE DATA

Company: Mull Drilling Company, Inc.

Lease & Well No.: Steckel Farms No. 1-11

Date: 9-25-02 Sec. 11 Twp. 22 S Range 14 W

Formation Test No. 2 Interval Tested From 3,617 ft. to 3,644 ft. Total Depth 3,644 ft.

Formation: Lansing/Kansas City "K"

	MUD PIT	RECOVERY	
Viscosity	46 CP	-- CP	
Weight	9.4	--	
Water Loss	9.6 CC	-- CC	
PH Factor	10.5	--	Water 7.0

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	.22	@	97 °F.	22,500 ppm
Recovery Mud	--	@	-- °F.	-- ppm
Recovery Mud Filtrate	--	@	-- °F.	-- ppm
Mud Pit Sample	.54	@	92 °F.	9,000 ppm
Mud Pit Sample Filtrate	.55	@	93 °F.	8,900 ppm

Sample Taken By: ROGER D. FRIEDLY

Witness By: Roger L. Martin

Remarks: Pit filtrate triton dish chlorides were 7,000 Ppm.
Recovery water dish chlorides were 19,500 Ppm.

DIAMOND TESTING
HOISINGTON, KS 67544

MULL DRILLING CO INC
STECKEL FARM 1-11
DST NO. 2 DATE 9-25-2002

T E S T P A R A M E T E R S

DRILLPIPE CAPACITY	0.0142 BBL/FT	HOLE SIZE	7.875 IN
DRILLPIPE LENGTH	3351 FT	PAY THICKNESS	4 FT
WEIGHTPIPE CAPACITY	0.0000 BBL/FT	VISCOSITY	2.80 CP
WEIGHTPIPE LENGTH	0 FT	POROSITY FRACTION	.20
DRILLCOLLAR CAPACITY	%241.0000 BBL/FT		
DRILLCOLLAR LENGTH	.0049 FT		
BOTTOM HOLE TEMP	105 DEG F	COMPRESSIBILITY	.00001 1/PSI
RECORDER NUMBER	21073	1ST FLOW TIME	15 MIN
RECORDER DEPTH	3610	1ST SHUT IN TIME	45 MIN
ELEVATION	1866 FT (KB)	2ND FLOW TIME	NONE TAKEN
DATUM	-1744	2ND SHUT-IN TIME	NONE TAKEN

C A L C U L A T I O N S

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI)	860.0
SLOPE (PSI/LOG CYCLE)	418.0
AVERAGE PRODUCTION RATE (BARRELS/DAY)	13.0
TRANSMISSIBILITY (MD.-FT./CP.)	5.06
FLOW CAPACITY (MD.-FT.)	14.16
PERMEABILITY (MD.)	3.540
PRODUCTIVITY INDEX (BARRELS/DAY/PSI)	0.0168
DAMAGE RATIO	0.3
PRODUCTION RATE WITH DAMAGED REMOVED (BARRELS/DAY)	13.0
SKIN FACTOR (S)	-1.6
PRESSURE DROP DUE TO SKIN (PSI)	-579.3
APPROXIMATE RADIUS OF INVESTIGATION (FT.)	16.3
DRAWDOWN FACTOR (%)	N/C
POTENTIOMETRIC SURFACE (FT.)	259.8

MULL DRILLIN CO., INC. STECKEL FARM #1-11 DST #2 INITIAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -2450.1

m(1 hr) = 770.502

Prd Time: = 0.15 hr

Calculated Values:

kh = 2.07016 md-ft

k = 0.51754 md

Skin = 3.93213

P* = 919.22 psi

MULL DRILLIN CO., INC. STECKEL FARM #1-11 DST #2 FINAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -417.717

m(1 hr) = 712.480

Prd Time: = 1.25 hr

Calculated Values:

kh = 12.1424 md-ft

k = 3.03561 md

Skin = 3.69778

P* = 859.59 psi

MULL DRILLING CO., INC. STECKEL FARMS #1-11

DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	PIPE SIZE	FLUID GRADIENT	TIME CHANGE	TOTAL TIME	DAILY PRODUCTION
FINAL FLOW PERIOD	73	52	21	0.0049	0.394	30	1440	12.53604061

DST #2 LKC "K" 3617'-3644'

Well LSD: DST #2 LKC K 3617'-3644'
Well Name: STECKEL FARMS 1-11
Company: MULL DRILLING CO INC
Battery on: Sep 25, 2002 at 07:57:00
Notes:RECOVERED 35' CO, 31' SWCMOC, 60' SWCMOG, 60' SWCMGO, WITH 240' GAS IN PIPE.

Tag	Pressure	Temperature	Comment
1	52.41 psig	102.45 °F	2002-09-25 10:35:00
2	72.95 psig	103.86 °F	2002-09-25 11:05:00

Well LSD: DST #2 LKC K 3617'-3644'
Well Name: STECKEL FARMS 1-11
Company: MULL DRILLING CO INC
Battery on: Sep 25, 2002 at 07:57:00

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Notes:RECOVERED 35' CO, 31' SWCMOC, 60' SWCMOG, 60' SWCMGO, WITH 240' GAS IN PIPE.

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Tag	Pressure	Temperature	Comment
1	1737.48 psig	95.98 °F	2002-09-25 09:27:00
2	13.41 psig	97.09 °F	2002-09-25 09:30:00
3	38.15 psig	100.90 °F	2002-09-25 09:45:30
4	723.03 psig	102.08 °F	2002-09-25 10:30:00
5	49.81 psig	102.11 °F	2002-09-25 10:31:30
6	84.69 psig	104.59 °F	2002-09-25 11:31:00
7	771.03 psig	105.16 °F	2002-09-25 13:31:30
8	1725.96 psig	105.26 °F	2002-09-25 13:35:00

This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1737	1737	PSI
(B)	First Initial Flow Pressure	13	13	PSI
(C)	First Final Flow Pressure	38	38	PSI
(D)	Initial Closed-in Pressure	723	723	PSI
(E)	Second Initial Flow Pressure	50	50	PSI
(F)	Second Final Flow Pressure	85	85	PSI
(G)	Final Closed-in Pressure	771	771	PSI
(H)	Final Hydrostatic Mud	1726	1726	PSI

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ORIGINAL

Company Mull Drilling Company, Inc. Lease & Well No. Steckel Farms No. 1-11

Elevation 1940 KB Formation Simpson Sand Effective Pay 5 Ft. Ticket No. 1664

Date 9-26-02 Sec. 11 Twp. 22S Range 14W County Stafford State Kansas

Test Approved By Roger L. Martin Diamond Representative Roger D. Friedly

Formation Test No. 3 Interval Tested from 3,640 ft. to 3,794 ft. Total Depth 3,794 ft.

Packer Depth 3,635 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,640 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

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Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,612 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,791 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Sterling Drlg Company - Rig 1 Drill Collar Length 241 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 46 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.25 Water Loss 10.4 cc. Drill Pipe Length 3,374 ft. I.D. 3 1/2 in.

Chlorides 7,000 P.P.M. Test Tool Length 25 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 30' perf. w/124' 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, ¼ in., blow increasing to 2½ ins. No blow back during shut-in.
2nd Open: Weak, ½ in., blow increasing to 7¼ ins. Weak, surface blow back during shut-in.

Recovered 148 ft. of gas in pipe

Recovered 5 ft. of clean oil = .024600 bbls.

Recovered 60 ft. of gas & oil cut mud = .295200 bbls. (Grind out: 15%-gas; 23%-oil; 62%-mud)

Recovered 60 ft. of oil & gas cut mud = .295200 bbls. (Grind out: 17%-oil; 20%-gas; 63%-mud)

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Recovered 125 ft. of TOTAL FLUID = .615000 bbls.

Remarks Tool Sample Grind Out: 2%-gas; 40%-mud; 58%-oil

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Time Set Packer(s) 11:34 A.M. P.M. Time Started Off Bottom 3:34 A.M. P.M. Maximum Temperature 105°

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

Initial Flow Period ..... Minutes 15 (B) 19 P.S.I. to (C) 37 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 1062 P.S.I.

Final Flow Period ..... Minutes 60 (E) 44 P.S.I. to (F) 68 P.S.I.

Final Closed In Period ..... Minutes 120 (G) 1149 P.S.I.

Final Hydrostatic Pressure ..... (H) 1743 P.S.I.

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FLUID SAMPLE DATA

Company: Mull Drilling Company, Inc.

Lease & Well No.: Steckel Farms No. 1-11

Date: 9-26-02 Sec. 11 Twp. 22 S Range 14 W

Formation Test No. 3 Interval Tested From 3,640 ft. to 3,794 ft. Total Depth 3,794 ft.

Formation: Simpson Sand

	MUD PIT	RECOVERY
Viscosity	46 CP	-- CP
Weight	9.25	--
Water Loss	10.4 CC	-- CC
PH Factor	10.5	9.5

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	--	@	-- °F.	-- ppm
Recovery Mud	--	@	-- °F.	-- ppm
Recovery Mud Filtrate	.65	@	64 °F.	10,500 ppm
Mud Pit Sample	.47	@	85 °F.	11,000 ppm
Mud Pit Sample Filtrate	.48	@	103 °F.	9,000 ppm

Sample Taken By: ROGER D. FRIEDLY

Witness By: Roger L. Martin

Remarks: Pit filtrate triton dish chlorides were 7,000 Ppm.
Recovery filtrate triton dish chlorides were 7,500 Ppm.

DIAMOND TESTING
HOISINGTON, KS 67544

MULL DRILLING CO INC
STECKEL FARM 1-11
DST NO. 3 DATE 9-26-2002

T E S T P A R A M E T E R S

DRILLPIPE CAPACITY	0.0142 BBL/FT	HOLE SIZE	7.875 IN
DRILLPIPE LENGTH	3374 FT	PAY THICKNESS	5 FT
WEIGHTPIPE CAPACITY	0.0000 BBL/FT	VISCOSITY	2.80 CP
WEIGHTPIPE LENGTH	0 FT	POROSITY FRACTION	.15
DRILLCOLLAR CAPACITY	0.0049 BBL/FT		
DRILLCOLLAR LENGTH	241 FT		
BOTTOM HOLE TEMP	105 DEG F	COMPRESSIBILITY	.00001 1/PSI
RECORDER NUMBER	21073	1ST FLOW TIME	15 MIN
RECORDER DEPTH	3628	1ST SHUT IN TIME	45 MIN
ELEVATION	1940 FT (KB)	2ND FLOW TIME	60 MIN
DATUM	-1688	2ND SHUT-IN TIME	120 MIN

C A L C U L A T I O N S

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI)	1266.0
SLOPE (PSI/LOG CYCLE)	1701.0
EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI)	1293.0
SLOPE (PSI/LOG CYCLE)	660.0
AVERAGE PRODUCTION RATE (BARRELS/DAY)	7.0
TRANSMISSIBILITY (MD.-FT./CP.)	1.72
FLOW CAPACITY (MD.-FT.)	4.83
PERMEABILITY (MD.)	0.966
PRODUCTIVITY INDEX (BARRELS/DAY/PSI)	0.0057
DAMAGE RATIO	0.3
PRODUCTION RATE WITH DAMAGED REMOVED (BARRELS/DAY)	7.0
SKIN FACTOR (S)	-1.1
PRESSURE DROP DUE TO SKIN (PSI)	-623.5
APPROXIMATE RADIUS OF INVESTIGATION (FT.)	8.5
DRAWDOWN FACTOR (%)	0.000
POTENTIOMETRIC SURFACE (FT.)	1324.7

MULL DRILLING CO., INC. STECKEL FARM DST #3 INITIAL SHUT IN

MULL DRILLING CO., INC. STECKEL FARM DST #3 INITIAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -1701.37

m(1 hr) = 1101.16

Prd Time: = 0.25 hr

Calculated Values:

kh = 1.8728 md-ft

k = 0.37456 md

Skin = 4.18949

P* = 1266 psi

MULL DRILLING CO., INC. STECKEL FARM DST #3 FINAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -659.641

m(1 hr) = 1061.10

Prd Time: = 1.25 hr

Calculated Values:

kh = 4.83039 md-ft

k = 0.96608 md

Skin = 4.21738

P* = 1293.4 psi

MULL DRILLING CO., INC. STECKEL FARMS #1-11

DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	PIPE SIZE	FLUID GRADIENT	TIME CHANGE	TOTAL TIME	DAILY PRODUCTION
FINAL FLOW PERIOD	61	49	12	0.0049	0.4	30	1440	7.056

DST #3 SIMPSON SAND 3640'-3793'

Well LSD:
Well Name: STECKEL FARMS 1-11
Company: MULL DRILLING CO INC
Battery on: Sep 26, 2002 at 09:55:00
Notes:

Tag	Pressure	Temperature	Comment
1	49.36 psig	102.33 °F	2002-09-26 12:45:00
2	61.30 psig	102.99 °F	2002-09-26 13:15:00

Well LSD: DST #3 SIMPSON SAND 3640'-3794'
Well Name: STECKEL FARMS 1-11
Company: MULL DRILLING CO INC
Battery on: Sep 26, 2002 at 09:55:00
Notes:RECOVERED 5' CO, 60' G&OCM, 60' O&GCM WITH 148' GAS IN PIPE.

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Tag	Pressure	Temperature	Comment
1	1757.12 psig	98.43 °F	2002-09-26 11:30:30
2	19.11 psig	99.22 °F	2002-09-26 11:34:00
3	36.69 psig	101.15 °F	2002-09-26 11:49:30
4	1062.10 psig	102.05 °F	2002-09-26 12:34:00
5	43.51 psig	102.05 °F	2002-09-26 12:35:00
6	68.29 psig	103.40 °F	2002-09-26 13:34:00
7	1149.47 psig	104.51 °F	2002-09-26 15:35:00
8	1743.31 psig	104.75 °F	2002-09-26 15:42:00

This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1757	1757	PSI
(B)	First Initial Flow Pressure	19	19	PSI
(C)	First Final Flow Pressure	37	37	PSI
(D)	Initial Closed-in Pressure	1062	1062	PSI
(E)	Second Initial Flow Pressure	44	44	PSI
(F)	Second Final Flow Pressure	68	68	PSI
(G)	Final Closed-in Pressure	1149	1149	PSI
(H)	Final Hydrostatic Mud	1743	1743	PSI

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ORIGINAL

Company Mull Drilling Company, Inc. Lease & Well No. Steckel Farms No. 1-11

Elevation 1940 KB Formation Arbuckle Effective Pay -- Ft. Ticket No. 1665

Date 9-27-02 Sec. 11 Twp. 22S Range 14W County Stafford State Kansas

Test Approved By Roger L. Martin Diamond Representative Roger D. Friedly

Formation Test No. 4 Interval Tested from 3,795 ft. to 3,800 ft. Total Depth 3,800 ft.

Packer Depth 3,790 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,795 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

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Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,783 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) -- ft. Recorder Number -- Cap. -- psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Sterling Drlg Company - Rig 1 Drill Collar Length 241 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 42 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 3,526 ft. I.D. 3 1/2 in.

Chlorides 10,000 P.P.M. Test Tool Length 28 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number Not Run Anchor Length 5 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: MISRUN! Had 20 ft. fill. Tool slid to 11½ ft. off bottom.
2nd Open: N/A

Recovered 10 ft. of heavy drilling mud = .049200 bbls.

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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Remarks Anchor & tool plugged with heavy mud, shale, etc.

Time Set Packer(s) 4:00 A.M. P.M. Time Started Off Bottom 4:15 A.M. P.M. Maximum Temperature 103°

Initial Hydrostatic Pressure ..... (A) 1810 P.S.I.

Initial Flow Period ..... Minutes 15 (B) 23 P.S.I. to (C) 18 P.S.I.

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

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

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

Final Hydrostatic Pressure ..... (H) 1824 P.S.I.

DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

FLUID SAMPLE DATA

Company: Mull Drilling Company, Inc.

Lease & Well No.: Steckel Farms No. 1-11

Date: 9-27-02 Sec. 11 Twp. 22 S Range 14 W

Formation Test No. 4 Interval Tested From 3,795 ft. to 3,800 ft. Total Depth 3,800 ft.

Formation: Arbuckle

	MUD PIT	RECOVERY
Viscosity	42 CP	137 CP
Weight	9.3	9.95
Water Loss	8.8 CC	8.8 CC
PH Factor	10.0	8.0

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	--	@ -- °F.		-- ppm
Recovery Mud	.68	@ 54 °F.		13,500 ppm
Recovery Mud Filtrate	.67	@ 54 °F.		13,800 ppm
Mud Pit Sample	.60	@ 54 °F.		14,000 ppm
Mud Pit Sample Filtrate	.62	@ 57 °F.		13,000 ppm

Sample Taken By: ROGER D. FRIEDLY

Witness By: Roger L. Martin

Remarks: Pit filtrate triton dish chlorides were 10,000 Ppm.
Recovery filtrate triton dish chlorides were 9,000 Ppm.

Well LSD: DST #4 ARB. 3795'-3800'
Well Name: STECKEL FARMS 1-11
Company: MULL DRILLING CO INC
Battery on: Sep 27, 2002 at 01:19:00
Notes:RECOVERED 10 HDM TOOL SLIDE 9' THEN STOPPED 11.5' OFF BTM.

Well LSD: DST #4 ARB. 3795'-3800'
Well Name: STECKEL FARMS 1-11
Company: MULL DRILLING CO INC
Battery on: Sep 27, 2002 at 01:19:00
Notes:RECOVERED 10 HDM TOOL SLIDE 9' THEN STOPPED 11.5' OFF BTM.

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Tag	Pressure	Temperature	Comment
1	1809.79 psig	100.68 °F	2002-09-27 03:54:00
2	22.89 psig	101.22 °F	2002-09-27 03:59:30
3	18.20 psig	103.12 °F	2002-09-27 04:11:00
4	1824.07 psig	103.31 °F	2002-09-27 04:14:30

This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1810	1810	PSI
(B)	First Initial Flow Pressure	23	23	PSI
(C)	First Final Flow Pressure	18	18	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	1824	1824	PSI

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ORIGINAL

Company Mull Drilling Company, Inc. Lease & Well No. Steckel Farms No. 1-11

Elevation 1940 KB Formation Arbuckle Effective Pay 7 Ft. Ticket No. 1666

Date 9-27-02 Sec. 11 Twp. 22S Range 14W County Stafford State Kansas

Test Approved By Roger L. Martin Diamond Representative Roger D. Friedly

Formation Test No. 5 Interval Tested from 3,718 ft. to 3,800 ft. Total Depth 3,800 ft.

Packer Depth 3,713 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,718 ft. Size 6 3/4 Packer Depth -- ft. Size -- in.

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Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,699 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,797 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Sterling Drlg Company - Rig 1 Drill Collar Length 241 ft. I.D. 2 1/4 in.

Mud Type Chemical Viscosity 62 Weight Pipe Length -- ft. I.D. -- in.

Weight 9.1 Water Loss 8.8 cc. Drill Pipe Length 3,442 ft. I.D. 3 1/2 in.

Chlorides 10,000 P.P.M. Test Tool Length 35 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number JR #1 Anchor Length 52' perf. w/30' 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, ½ in., blow increasing to a fair, 5 1/8 in., blow. No blow back during shut-in.
2nd Open: Weak, surface blow increasing to a fair, 6 in., blow. No blow back during shut-in.

Recovered 30 ft. of gas in pipe

Recovered 61 ft. of muddy oil = .300120 bbls. (Grind out: 10%-mud; 90%-oil) Gravity: 24 @ 60°

Recovered 152 ft. of gas cut oily mud = .747840 bbls. (Grind out: 7%-gas; 34%-oil; 59%-mud)

Recovered 60 ft. of slightly water & gas cut oily mud = .374560 bbls. (Grind out: 2%-water; 13%-gas; 35%-oil; 50%-mud)

Recovered 273 ft. of TOTAL FLUID = 1.42250 bbls.

Remarks Tool Sample Grind Out: 17%-gas; 30%-oil; 53%-mud

BOTTOM HOLE SAMPLER RECOVERY:
P.S.I.: 66 lbs.
Fluid : 300 cc gas
2,700 cc gas cut oily mud
2,700 cc TOTAL FLUID

Time Set Packer(s) ~~A.M.~~ 4:22 P.M. Time Started Off Bottom ~~A.M.~~ 8:52 P.M. Maximum Temperature 102°

Initial Hydrostatic Pressure ..... (A) 1808 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 20 P.S.I. to (C) 75 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1178 P.S.I.

Final Flow Period ..... Minutes 60 (E) 81 P.S.I. to (F) 130 P.S.I.

Final Closed In Period ..... Minutes 120 (G) 1185 P.S.I.

Final Hydrostatic Pressure ..... (H) 1777 P.S.I.

DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

FLUID SAMPLE DATA

Company: Mull Drilling Company, Inc.

Lease & Well No.: Steckel Farms No. 1-11

Date: 9-27-02 Sec. 11 Twp. 22 S Range 14 W

Formation Test No. 5 Interval Tested From 3,718 ft. to 3,800 ft. Total Depth 3,800 ft.

Formation: Arbuckle

	MUD PIT	RECOVERY
Viscosity	62 CP	-- CP
Weight	9.1	--
Water Loss	8.8 CC	-- CC
PH Factor	10.5	9.0

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	--	@ --	°F.	-- ppm
Recovery Mud	--	@ --	°F.	-- ppm
Recovery Mud Filtrate	.54	@ 65	°F.	12,500 ppm
Mud Pit Sample	.42	@ 78	°F.	14,000 ppm
Mud Pit Sample Filtrate	.42	@ 88	°F.	12,000 ppm

Sample Taken By: ROGER D. FRIEDLY

Witness By: Roger L. Martin

Remarks: Pit filtrate triton dish chlorides were 10,000 Ppm.
Recovery filtrate triton dish chlorides were 9,000 Ppm.

DIAMOND TESTING
HOISINGTON, KS 67544

MULL DRILING CO INC
STECKEL FARM 1-11
DST NO. 5 DATE 9-27-2002

T E S T P A R A M E T E R S

DRILLPIPE CAPACITY	0.0142 BBL/FT	HOLE SIZE	7.875 IN
DRILLPIPE LENGTH	3442 FT	PAY THICKNESS	7 FT
WEIGHTPIPE CAPACITY	0.0000 BBL/FT	VISCOSITY	2.80 CP
WEIGHTPIPE LENGTH	0 FT	POROSITY FRACTION	.20
DRILLCOLLAR CAPACITY	0.0049 BBL/FT		
DRILLCOLLAR LENGTH	241 FT		
BOTTOM HOLE TEMP	102 DEG F	COMPRESSIBILITY	.00001 1/PSI
RECORDER NUMBER	21073	1ST FLOW TIME	30 MIN
RECORDER DEPTH	3699	1ST SHUT IN TIME	60 MIN
ELEVATION	1940 FT (KB)	2ND FLOW TIME	60 MIN
DATUM	-1759	2ND SHUT-IN TIME	120 MIN

C A L C U L A T I O N S

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI)	1251.0
SLOPE (PSI/LOG CYCLE)	409.0
EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI)	1250.0
SLOPE (PSI/LOG CYCLE)	264.0
AVERAGE PRODUCTION RATE (BARRELS/DAY)	22.0
TRANSMISSIBILITY (MD.-FT./CP.)	13.55
FLOW CAPACITY (MD.-FT.)	37.94
PERMEABILITY (MD.)	5.420
PRODUCTIVITY INDEX (BARRELS/DAY/PSI)	0.0196
DAMAGE RATIO	0.8
PRODUCTION RATE WITH DAMAGED REMOVED (BARRELS/DAY)	22.0
SKIN FACTOR (S)	0.8
PRESSURE DROP DUE TO SKIN (PSI)	194.8
APPROXIMATE RADIUS OF INVESTIGATION (FT.)	22.1
DRAWDOWN FACTOR (%)	0.080
POTENTIOMETRIC SURFACE (FT.)	1153.5

MULL DRILLING CO., INC DST #5 INITIAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -408.739

m(1 hr) = 1178.83

Prd Time: = 0.5 hr

Calculated Values:

kh = 24.5001 md-ft

k = 3.50001 md

Skin = 5.3339

P* = 1250.8 psi

MULL DRILLING CO., INC DST #5 FINAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -263.788

m(1 hr) = 1144.90

Prd Time: = 1.5 hr

Calculated Values:

kh = 37.9629 md-ft

k = 5.42327 md

Skin = 6.15686

P* = 1249.9 psi

MULL DRILLING CO., INC. STECKEL FARMS #1-11

DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	PIPE SIZE	FLUID GRADIENT	TIME CHANGE	TOTAL TIME	DAILY PRODUCTION
FINAL FLOW PERIOD	116	91	25	0.0049	0.394	20	1440	22.3857868

DST #5 ARB 3718'-3800'

Well LSD: DST #5 ARB 3718'-3800'
Well Name: STECKEL FARM 1-11
Company: MULL DRILLING CO., INC.
Battery on: Sep 27, 2002 at 14:05:00
Notes:RECOVERED 61' MO, 152' GCOM, 60' SW&GCOM WITH 30' GAS IN PIPE.

Tag	Pressure	Temperature	Comment
1	91.34 psig	98.37 °F	2002-09-27 18:00:00
2	116.07 psig	99.13 °F	2002-09-27 18:20:00

Well LSD: DST #5 ARB 3718'-3800'
Well Name: STECKEL FARM 1-11
Company: MULL DRILLING CO., INC.
Battery on: Sep 27, 2002 at 14:05:00
Notes:RECOVERED 61' MO, 152' GCOM, 60' SW&GCOM WITH 30' GAS IN PIPE.

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Tag	Pressure	Temperature	Comment
1	1807.62 psig	93.06 °F	2002-09-27 16:17:30
2	19.96 psig	94.12 °F	2002-09-27 16:22:00
3	74.72 psig	96.57 °F	2002-09-27 16:52:00
4	1178.05 psig	98.00 °F	2002-09-27 17:52:00
5	80.99 psig	98.04 °F	2002-09-27 17:53:30
6	130.00 psig	99.98 °F	2002-09-27 18:52:30
7	1184.97 psig	101.68 °F	2002-09-27 20:53:30
8	1776.64 psig	101.83 °F	2002-09-27 20:58:00

This is an actual photograph of recorder chart.

POINT		PRESSURE Elec. Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1808	1808	PSI
(B)	First Initial Flow Pressure	20	20	PSI
(C)	First Final Flow Pressure	75	75	PSI
(D)	Initial Closed-in Pressure	1178	1178	PSI
(E)	Second Initial Flow Pressure	81	81	PSI
(F)	Second Final Flow Pressure	130	130	PSI
(G)	Final Closed-in Pressure	1185	1185	PSI
(H)	Final Hydrostatic Mud	1777	1777	PSI

DIAMOND TESTING
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ORIGINAL

Company Mull Drilling Company, Inc. Lease & Well No. Steckel Farms No. 1-11

Elevation 1940 KB Formation Arbuckle Effective Pay 10 Ft. Ticket No. 1667

Date 9-28-02 Sec. 11 Twp. 22S Range 14W County Stafford State Kansas

Test Approved By Roger L. Martin Diamond Representative Roger D. Friedly

Formation Test No. 6 Interval Tested from 3,800 ft. to 3,810 ft. Total Depth 3,810 ft.

Packer Depth 3,795 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Packer Depth 3,800 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

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Depth of Selective Zone Set ft.

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Top Recorder Depth (Inside) 3,781 ft. Recorder Number Elec. Cap. 5,000 psi

Bottom Recorder Depth (Outside) 3,807 ft. Recorder Number 13387 Cap. 4,000 psi

Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Sterling Drlg Company - Rig 1 Drill Collar Length 241 ft. I.D. 2 1/4 in.

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

Weight 9.2 Water Loss 8.8 cc. Drill Pipe Length 3,524 ft. I.D. 3 1/2 in.

Chlorides 10,000 P.P.M. Test Tool Length 35 ft. Tool Size 3 1/2 - IF in.

Jars: Make Bowen Serial Number JR #1 Anchor Length 10 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, ½ in., blow increasing to 10¼ ins. No blow back during shut-in.
2nd Open: Weak, 1/8 in., blow increasing. Off bottom of bucket in 38 mins. No blow back during shut-in.

Recovered 60 ft. of gas in pipe

Recovered 5 ft. of clean oil = .024600 bbls. (Gravity: 24 @ 60°)

Recovered 62 ft of slightly gassy muddy water cut oil = .305040 bbls. (Grind out: 2%-gas; 9%-mud; 13%-water; 76%-oil)

Recovered 62 ft. of slightly gassy muddy water cut oil = .305040 bbls. (Grind out: 2%-gas; 24%-mud; 30%-water; 44%-oil)

Recovered 242 ft. of slightly oily & mud cut water = 1.513040 bbls. (Grind out: 1%-oil; 4%-mud; 95%-water)

Recovered 371 ft. of TOTAL FLUID = 2.147720 bbls.

Remarks Sample chamber: 3,000 cc slightly oily & mud cut water (Grind out: 1%-oil; 1%-mud; 98%-water)

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Time Set Packer(s) 12:38 ~~A.M.~~ P.M. Time Started Off Bottom 5:08 ~~A.M.~~ P.M. Maximum Temperature 111°

Initial Hydrostatic Pressure ..... (A) 1813 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 19 P.S.I. to (C) 104 P.S.I.

Initial Closed In Period ..... Minutes 60 (D) 1208 P.S.I.

Final Flow Period ..... Minutes 60 (E) 113 P.S.I. to (F) 173 P.S.I.

Final Closed In Period ..... Minutes 120 (G) 1188 P.S.I.

Final Hydrostatic Pressure ..... (H) 1816 P.S.I.

DIAMOND TESTING
P. O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

FLUID SAMPLE DATA

Company: Mull Drilling Company, Inc.

Lease & Well No.: Steckel Farms No. 1-11

Date: 9-28-02 Sec. 11 Twp. 22 S Range 14 W

Formation Test No. 6 Interval Tested From 3,800 ft. to 3,810 ft. Total Depth 3,810 ft.

Formation: Arbuckle

	MUD PIT	RECOVERY	
Viscosity	44 CP	-- CP	
Weight	9.2	--	
Water Loss	8.8 CC	-- CC	
PH Factor	10.5	--	Water 7.0

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water	.25	@ 72	°F.	25,000 ppm
Recovery Mud	--	@ --	°F.	-- ppm
Recovery Mud Filtrate	--	@ --	°F.	-- ppm
Mud Pit Sample	.33	@ 100	°F.	12,500 ppm
Mud Pit Sample Filtrate	.37	@ 94	°F.	12,500 ppm

Sample Taken By: ROGER D. FRIEDLY

Witness By: Roger L. Martin

Remarks: Pit filtrate triton dish chlorides were 10,000 Ppm.
Recovery water dish chlorides were 21,500 Ppm.

DIAMOND TESTING
HOISINGTON, KS 67544

MULL DRILLING INC
STECKEL FARM 1-11
DST NO. 6 DATE 9-28-2002

T E S T P A R A M E T E R S

DRILLPIPE CAPACITY	0.0142 BBL/FT	HOLE SIZE	7.875 IN
DRILLPIPE LENGTH	3524 FT	PAY THICKNESS	10 FT
WEIGHTPIPE CAPACITY	0.0000 BBL/FT	VISCOSITY	2.80 CP
WEIGHTPIPE LENGTH	0 FT	POROSITY FRACTION	.14
DRILLCOLLAR CAPACITY	0.0049 BBL/FT		
DRILLCOLLAR LENGTH	241 FT		
BOTTOM HOLE TEMP	111 DEG F	COMPRESSIBILITY	.00001 1/PSI
RECORDER NUMBER	21073	1ST FLOW TIME	30 MIN
RECORDER DEPTH	3781	1ST SHUT IN TIME	60 MIN
ELEVATION	1940 FT (KB)	2ND FLOW TIME	60 MIN
DATUM	-1841	2ND SHUT-IN TIME	120 MIN

C A L C U L A T I O N S

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI)	1270.0
SLOPE (PSI/LOG CYCLE)	334.0
EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI)	1246.0
SLOPE (PSI/LOG CYCLE)	241.0
AVERAGE PRODUCTION RATE (BARRELS/DAY)	19.0
TRANSMISSIBILITY (MD.-FT./CP.)	12.82
FLOW CAPACITY (MD.-FT.)	35.89
PERMEABILITY (MD.)	3.589
PRODUCTIVITY INDEX (BARRELS/DAY/PSI)	0.0177
DAMAGE RATIO	0.8
PRODUCTION RATE WITH DAMAGED REMOVED (BARRELS/DAY)	19.0
SKIN FACTOR (S)	1.1
PRESSURE DROP DUE TO SKIN (PSI)	234.2
APPROXIMATE RADIUS OF INVESTIGATION (FT.)	18.0
DRAWDOWN FACTOR (%)	1.890
POTENTIOMETRIC SURFACE (FT.)	1062.2

MULL DRILLING CO., INC DST #6 INITIAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -333.666

m(1 hr) = 1210.92

Prd Time: = 0.5 hr

Calculated Values:

kh = 25.9199 md-ft

k = 2.59199 md

Skin = 6.03035

P* = 1269.7 psi

MULL DRILLING CO., INC DST #6 FINAL SHUT IN

Analysis Results: Horner

Parameters:

Slope = -241.266

m(1 hr) = 1149.82

Prd Time: = 1.5 hr

Calculated Values:

kh = 35.8467 md-ft

k = 3.58467 md

Skin = 6.41686

P* = 1245.8 psi

MULL DRILLING CO., INC. STECKEL FARMS #1-11

DESCRIPTION	SECOND READING	FIRST READING	PRESSURE CHANGE	PIPE SIZE	FLUID GRADIENT	TIME CHANGE	TOTAL TIME	DAILY PRODUCTION
FINAL FLOW PERIOD	153	121	32	0.0049	0.394	30	1440	19.10253807

DST #6 ARB 3800'-3810'

Well LSD: DST #6 ARB 3800'-3810'
Well Name: STECKEL FARM 1-11
Company: MULL DRILLING CO., INC.
Battery on: Sep 28, 2002 at 11:05:00
Notes:RECOVERED 5' CO, 62' HO&GCWM, 62' HO&GCMW, 242' SLO&MCW WITH 60' GAS IN PIPE.

Tag	Pressure	Temperature	Comment
1	120.53 psig	103.10 °F	2002-09-28 14:15:00
2	153.16 psig	108.98 °F	2002-09-28 14:45:00

Well LSD: DST #6 ARB 3800'-3810'
Well Name: STECKEL FARM 1-11
Company: MULL DRILLING CO., INC.
Battery on: Sep 28, 2002 at 11:05:00

ORIGINAL

Notes:RECOVERED 5' CO, 62' HO&GCWM, 62' HO&GCMW, 242' SLO&MCW WITH 60' GAS IN PIPE.

Tag	Pressure	Temperature	Comment
1	1813.31 psig	93.54 °F	2002-09-28 12:36:30
2	19.30 psig	93.80 °F	2002-09-28 12:38:00
3	104.31 psig	101.97 °F	2002-09-28 13:07:00
4	1208.19 psig	101.25 °F	2002-09-28 14:07:30
5	112.80 psig	101.26 °F	2002-09-28 14:08:30
6	173.09 psig	110.55 °F	2002-09-28 15:07:30
7	1188.26 psig	106.31 °F	2002-09-28 17:08:30
8	1816.40 psig	106.39 °F	2002-09-28 17:13:00

This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Elec. Office Reading	
(A)	Initial Hydrostatic Mud	1813	1813	PSI
(B)	First Initial Flow Pressure	19	19	PSI
(C)	First Final Flow Pressure	104	104	PSI
(D)	Initial Closed-in Pressure	1208	1208	PSI
(E)	Second Initial Flow Pressure	113	113	PSI
(F)	Second Final Flow Pressure	173	173	PSI
(G)	Final Closed-in Pressure	1188	1188	PSI
(H)	Final Hydrostatic Mud	1816	1816	PSI