

13-13-20e

TEST BORING LOG

Project Prairie Resources

Gage Lease _____

Address Douglas County, Kansas

City & State _____

Boring No. _____ Gage #1 _____ Sheet 1 of 6

Surface Elevation _____ Offset _____

Date Started 1-16-85 Completed 1-16-85

Driller V. Campbell Rig D-15

Abbreviations:

A.O. - Auger Only R.B. - Rock Bit C.W. - Core Water
 H.A. - Hollow Auger S.S. - Split Spoon C.A. - Core Air
 W.B. - Wash Bore S.T. - Shelby Tube F.B. - Finger Bit

DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
0.0	17.0	RB				Brown clay
17.0	19.0	RB				Brown sandstone with clay
19.0	21.0	RB				Brown silty clay
21.0	52.0	RB				Brown sandstone
52.0	58.0	RB				Gray lime
58.0	59.0	RB				Gray shale
59.0	75.0	RB				Gray lime
75.0	78.0	RB				Black shale
78.0	85.0	RB				Gray lime
85.0	97.0	RB				Gray shale
97.0	115.0	RB				Gray lime
115.0	145.0	RB				Gray shale
145.0	178.0	RB				Gray lime
178.0	215.0	RB				Gray shale
215.0	226.0	RB				Gray lime
226.0	230.0	RB				Gray shale

REMARKS: (Casing, Water Loss, Etc.)

Water Level

Time

Date

(Completion)

TEST BORING LOG

13-13-20e

Project Prairie Resources
 Gage Lease _____
 Address Douglas County, Kansas
 City & State _____

Boring No. Gage #1 Sheet 2 of 6
 Surface Elevation _____ Offset _____
 Date Started 1-16-85 Completed 1-16-85
 Driller V. Campbell Rig D-15

Abbreviations:

A.O. - Auger Only R.B. - Rock Bit C.W. - Core Water
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DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
230.0	235.0	RB				Gray lime
235.0	236.0	RB				Black shale
236.0	237.0	RB				Gray lime
237.0	255.0	RB				Gray sandy shale
255.0	267.0	RB				Gray lime
267.0	268.0	RB				Black shale
268.0	279.0	RB				Gray sandy shale
279.0	280.0	RB				Red shale
280.0	286.0	RB				Gray shale
286.0	297.0	RB				Gray lime
297.0	300.0	RB				Dark gray shale
300.0	315.0	RB				Gray lime
315.0	317.0	RB				Gray shale
317.0	337.0	RB				Gray lime
337.0	339.0	RB				Dark gray shale
339.0	340.0	RB				Gray shale

FEB 20 1985
 State Geological Survey
 WICHITA BRANCH

RECEIVED
 STATE CORPORATION COMMISSION
 FEB 10 1985
 CONSERVATION DIVISION
 Wichita, Kansas

REMARKS: (Casing, Water Loss, Etc.)

Water Level

Time

Date

(Completion)

13-13-20e

TEST BORING LOG

Project Prairie Resources
 Gage Lease _____
 Address Douglas County, Kansas
 City & State _____

Boring No. _____ Gage #1 _____ Sheet 3 of 6
 Surface Elevation _____ Offset _____
 Date Started 1-16-85 Completed 1-16-85
 Driller V. Campbell Rig D-15

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DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
340.0	341.0	RB				Black shale
341.0	350.0	RB				Gray shale
350.0	372.0	RB				Gray lime
372.0	374.0	RB				Dark gray shale
374.0	375.0	RB				Black shale
375.0	379.0	RB				Gray lime
379.0	380.0	RB				Gray shale
380.0	390.0	RB				Gray lime
390.0	396.0	RB				Gray sandstone
396.0	435.0	RB				Gray sandy shale
435.0	445.0	RB				Gray sandstone
445.0	510.0	RB				Gray sandy shale
510.0	515.0	RB				Gray sandstone
515.0	525.0	RB				Gray sandy shale
525.0	530.0	RB				Red shale
530.0	545.0	RB				Gray shale

REMARKS: (Casing, Water Loss, Etc.)

Water Level

Time

Date

(Completion)

Layne-Western Company, Inc.

13-13-20e

TEST BORING LOG

Project Prairie Resources
Gage Lease _____
Address Douglas County, Kansas
City & State _____

Boring No. _____ Gage # 1 Sheet 4 of 6
Surface Elevation _____ Offset _____
Date Started 1-16-85 Completed 1-16-85
Driller V. Campbell Rig D-15

Abbreviations: A.O. - Auger Only R.B. - Rock Bit C.W. - Core Water
H.A. - Hollow Auger S.S. - Split Spoon C.A. - Core Air
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DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
545.0	557.0	RB				Gray shale
557.0	561.0	RB				Gray lime
561.0	563.0	RB				Gray shale
563.0	564.0	RB				Black shale
564.0	566.0	RB				Gray lime
566.0	567.0	RB				Gray shale
567.0	568.0	RB				Black shale
568.0	577.0	RB				Gray shale
577.0	578.0	RB				Brown lime
578.0	582.0	RB				Gray lime
582.0	587.0	RB				Gray sandstone
587.0	598.0	RB				Dark gray shale
598.0	600.0	RB				Brown lime
600.0	601.0	RB				Black shale
601.0	610.0	RB				Gray shale
610.0	611.0	RB				Black shale

REMARKS: (Casing, Water Loss, Etc.)

Water Level

Time

Date

(Completion)

TEST BORING LOG

13-13-20e

Project Prairie Resources
 Gage Lease _____
 Address Douglas County, Kansas
 City & State _____

Boring No. _____ Gage #1 _____ Sheet 5 of 6
 Surface Elevation _____ Offset _____
 Date Started 1-16-85 Completed 1-16-85
 Driller V. Campbell Rig D-15

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DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETROMETER	NO. OF BLOWS		
611.0	612.0	RB				Gray lime
612.0	616.0	RB				Gray shale
616.0	617.0	RB				Gray lime
617.0	630.0	RB				Gray shale
630.0	631.0	RB				Black shale
631.0	633.0	RB				Gray shale
633.0	643.0	RB				Gray lime
643.0	654.5	RB				Gray sandy shale
654.5	656.0	RB				Gray brown sandstone - oil
656.0	666.0	CW	R-1		10	Gray sandy shale
666.0	676.0	CW	R-2		100	Gray shale
676.0	710.0	RB				Gray sandy shale
710.0	715.0	RB				Gray sandstone, shaly
715.0	741.0	RB				Gray sandy shale
741.0	742.0	RB				Black shale
742.0	744.0	RB				Gray lime

REMARKS: (Casing, Water Loss, Etc.)

Water Level

Time

Date

(Completion)

Layne-Western Company, Inc.

13-13-20e

TEST BORING LOG

Project Prairie Resources Boring No. Gage #1 Sheet 6 of 6

Gage Lease Surface Elevation _____ Offset _____

Address Douglas County, Kansas Date Started 1-16-85 Completed 1-16-85

City & State _____ Driller V. Campbell Rig D-15

Abbreviations:

A.O. — Auger Only R.B. — Rock Bit C.W. — Core Water
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DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR—MATERIAL—MOISTURE—CLAY CONSISTENCY SAND DENSITY
FROM	TO		POCKET PENETRO-METER	NO. OF BLOWS		
744.0	758.0	RB				Gray sandy shale
758.0	765.0	RB				Gray sandstone
5.0	775.0	RB				Gray sandy shale
775.0	775.5	RB				Black shale
775.5	826.0	RB				Gray sandy shale
826.0	830.0	RB				Gray sandstone
830.0	850.0	RB				Gray sandy shale
850.0	887.0	RB				Gray sandstone
887.0	888.0	RB				Black shale
888.0	900.0	RB				Gray sandstone
900.0	Total Depth					

RECEIVED
STATE CORPORATION COMMISSION

FEB 10 1985

CONSERVATION DIVISION
Wichita, Kansas

FEB 20 1985
State Geological Survey
WICHITA BRANCH

REMARKS: (Casing, Water Loss, Etc.)

Water Level

Time

Date

Drilled 9-7/8" hole to 60' and cemented in 60' of 7" pipe; _____ (Completion)

drilled 4-1/2" hole to 900'; plugged hole with 10 sacks cement _____
 at 675' and plugged hole with cement from 350' back to surface.

Layne-Western Company, Inc.