State Geological Survey 2415 FSL, 1015 FWL Sec 37 - T14S - R25E

WICHITA BRANCH

TEST BORING LOG

JAN 22 1982

Project Prairie Energy Corporation

5600 W. 10th St.

Address Suite 202 Country Club Plaza, KS

City & State ~~Stilwell, Kansas~~ 66210

381-3807

Boring No. Edder No. 6-I Sheet 1 of 5

Surface Elevation _____ Offset _____

Date Started 10/7/81 Completed 10/12/81

Driller J. Von Holt and V. Campbell Rig _____

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

DEPTH FROM	DEPTH TO	METHOD	PENETRATION RECORD: POCKET PENETROMETER	PENETRATION RECORD: NO. OF BLOWS	CORE RECOVERY	SAMPLE DESCRIPTION: COLOR–MATERIAL–MOISTURE–CLAY CONSISTENCY SAND DENSITY
0.0'	5.0'	RB				Brown silty clay
5.0'	35.0'	RB				Brown gray limestone
0'	39.0'	RB				Gray shale
39.0'	76.0'	RB				Gray limestone
76.0'	98.0'	RB				Gray shale
.0'	105.0'	RB				Brown gray limestone
105.0'	112.0'	RB				Gray shale
112.0'	126.0'	RB				Gray sandstone
126.0'	131.0'	RB				Maroon shale
131.0'	155.0'	RB				Gray shale
155.0'	158.0'	RB				Gray sandy shale
158.0'	178.0'	RB				Gray sandstone
178.0'	190.0'	RB				Gray limestone
190.0'	202.0'	RB				Gray shale
202.0'	224.0'	RB				Gray limestone
224.0'	235.0'	RB				Gray shaly limestone

Continued

REMARKS: (Casing, Water Loss, Etc.) Water Level Time Date

_____ _____ _____ _____ (Completion)

_____ _____ _____ _____

Layne-Western Company, Inc.

LW 50A

34-14-25E

TEST BORING LOG

Project Prairie Energy Corporation

Boring No. Edder No. 6-I Sheet 2 of 5

Surface Elevation _____ Offset _____

Address _____

Date Started _____ Completed _____

City & State _____

Driller _____ Rig _____

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

DEPTH FROM	DEPTH TO	METHOD	PENETRATION RECORD: POCKET PENETROMETER	PENETRATION RECORD: NO. OF BLOWS	CORE RECOVERY	SAMPLE DESCRIPTION: COLOR–MATERIAL–MOISTURE–CLAY CONSISTENCY SAND DENSITY
[illegible]0'	258.0'	RB				Gray limestone
258.0'	262.0'	RB				Gray shale
[illegible].0'	266.0'	RB				Gray limestone w/siltstone layers
266.0'	269.0'	RB				Gray shale
269.0'	281.0'	RB				Gray limestone
281.0'	289.0'	RB				Gray sandy shale
289.0'	396.0'	RB				Gray shale
396.0'	405.0'	RB				Gray limestone
405.0'	455.0'	RB				Gray shale w/limestone layers
455.0'	480.0'	RB				Gray limestone
480.0'	484.0'	RB				Gray sandstone
484.0'	490.0'	RB				Dark gray shale
490.0'	495.0'	RB				Brown limestone
495.0'	497.0'	RB				Black shale
497.0'	501.0'	RB				Gray sandstone
501.0'	503.0'	RB				Gray shale

Continued

REMARKS: (Casing, Water Loss, Etc.) Water Level Time Date

_____ _____ _____ _____ (Completion)

_____ _____ _____ _____

Layne-Western Company, Inc.

LW 59A

34-14-25E

TEST BORING LOG

Project Prairie Energy Corporation

Boring No. Edder No. 6-I Sheet 3 of 5

Surface Elevation _____ Offset _____

Address _____

Date Started _____ Completed _____

City & State _____

Driller _____ Rig _____

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

DEPTH FROM	DEPTH TO	METHOD	PENETRATION RECORD: POCKET PENETROMETER	PENETRATION RECORD: NO. OF BLOWS	CORE RECOVERY	SAMPLE DESCRIPTION: COLOR–MATERIAL–MOISTURE–CLAY CONSISTENCY SAND DENSITY
503.0'	509.0'	RB				Gray limestone
509.0'	511.0'	RB				Gray shale
.0'	514.0'	RB				Gray limestone
514.0'	520.0'	RB				Gray shale
520.0'	525.0'	RB				Red shale
525.0'	537.0'	RB				Gray shale
537.0'	538.0'	RB				Brown limestone
538.0'	541.0'	RB				Black shale
541.0'	550.0'	RB				Gray shale
550.0'	552.0'	RB				Brown limestone
552.0'	559.0'	RB				Gray shale
559.0'	563.0'	RB				Black shale
563.0'	566.0'	RB				Gray shale
566.0'	573.0'	RB				Gray sandstone
573.0'	594.0'	RB				Gray shale
594.0'	596.0'	RB				Gray shale w/siltstone layers

Continued

REMARKS: (Casing, Water Loss, Etc.)

Water Level	Time	Date	
			(Completion)

Layne-Western Company, Inc.

LW-50A

34-14-25E

TEST BORING LOG

Project Prairie Energy Corporation

Boring No. Edder No. 6-I Sheet 4 of 5

Surface Elevation _____ Offset _____

Address _____

Date Started _____ Completed _____

City & State _____

Driller _____ Rig _____

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DEPTH FROM	DEPTH TO	METHOD	PENETRATION RECORD: POCKET PENETROMETER	PENETRATION RECORD: NO. OF BLOWS	CORE RECOVERY	SAMPLE DESCRIPTION: COLOR–MATERIAL–MOISTURE–CLAY CONSISTENCY SAND DENSITY
596.0'	608.0'	RB				Dark gray shale
608.0'	610.0'	RB				Gray sandstone w/trace oil
0.0'	614.0'	RB				Gray sandstone
614.0'	615.5'	CW1				Same
615.5'	624.0'	CW1			10.0'	Gray shale
624.0'	634.0'	CW2			10.0'	Same
634.0'	644.0'	CW3			10.0'	Same
644.0'	650.0'	CW4				Same
650.0'	650.5'	CW4				Coal
650.5'	654.0'	CW4			10"	Gray shale
654.0'	663.0'	CW5			9.0'	Gray shale
663.0'	678.0'	RB				Gray shale
678.0'	679.0'	RB				Gray limestone
679.0'	680.0'	RB				Gray shale
680.0'	690.0'	RB				Gray sandstone
690.0'	695.0'	RB				Same

Continued

REMARKS: (Casing, Water Loss, Etc.)

Water Level	Time	Date	
			(Completion)

Layne-Western Company, Inc.

LWE 50A

34-14-25E

TEST BORING LOG

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Boring No. Edder No. 6-I Sheet 5 of 5

Surface Elevation _____ Offset _____

Address _____

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DEPTH FROM	DEPTH TO	METHOD	PENETRATION RECORD: POCKET PENETROMETER	PENETRATION RECORD: NO. OF BLOWS	CORE RECOVERY	SAMPLE DESCRIPTION: COLOR–MATERIAL–MOISTURE–CLAY CONSISTENCY SAND DENSITY
[illegible].0'	697.0'	RB				Gray limestone
697.0'	715.0'	RB				Same
[illegible].0'	725.0'	RB				Dark gray shale
725.0'	739.0'	RB				Gray shale
739.0'	750.0'	RB				Gray shale w/limestone seams
[illegible].0'	800.0'	RB				Dark gray shale
800.0'	Total depth					

REMARKS: (Casing, Water Loss, Etc.)

Water Level	Time	Date	
			(Completion)

Layne-Western Company, Inc.

LW-50A