

LAYNE-WESTERN COMPANY

1010 West 39th Street

Kansas City, Missouri

Farm: Graham

DRILLER J. Harper

SURFACE ELEV. _____ NO. H-2

Loc = 690 FNL, 325 FWL, SW/4

PAGE - 1 - NW SW SW

File in sec. 9 until correct loc. is obtained
DATE 7/22/63 BORING NO. _____

CONTRACT Oil Test - Dr. Robison

ADDRESS 803 Highland - Lawrence

CITY AND STATE Linwood, Kansas

WATER LEVEL _____ CASING USED 17'6" of 8"

A.G.—Auger Only
S.A.—Sample Auger
W.B.—Wash Bore

R.B.—Rock BH
S.S.—Split Spoon
S.T.—Shelby Tube

S.V.—Shear Vane
C.W.—Core Water
C.A.—Core Air

Log covers period of July 22 - Aug 8, 1963
SAMPLE DESCRIPTION

DEPTH		METHOD	CORRECTION	TIME	COLOR—MATERIAL—MOISTURE—CLAY CONSISTENCY SAND DENSITY
From	To				
0'0"	2'0"	WB			Top of
2'0"	14'0"	WB			Brown sandy clay
14'0"	19'0"	WB			Brown sandstone
19'0"	24'0"	RB			GRAY shale, med.
24'0"	29'0"	RB			Light gray limestone
29'0"	35'6"	RB			Gray limy shale, hard
35'6"	56'0"	RB			Gray shale, hard
56'0"	57'0"	RB			Dark shale, hard
57'6"	65'0"	RB			Gray limestone, very hard
65'0"	77'0"	RB			Gray shale, hard
77'0"	93'10"	RB			Gray limestone, V. hard
93'10"	96'0"	RB			Gray shale, hard
96'0"	100'0"	RB			Red shale, med.
100'0"	124'10"	RB			Gray shale, hard
124'10"	127'0"	RB			Dark gray limestone, V. hard
127'0"	143'10"	RB			Light gray limestone, hard
143'10"	147'10"	RB			Gray shale, hard
147'10"	158'10"	RB			GRAY limestone, V. hard

GRAB TO INDICATE

TIME AND DATE HOLE COMPLETED

DATE AND TIME HOLE RE-OPENED

LAYNE-WESTERN COMPANY

1010 West 39th Street

Kansas City, Missouri

Loc.

690 FNL, 325 FWL, 3W/4

DRILLER

J. Harper

SURFACE ELEV. 845

NO. H-2

TD 1123.

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DATE 8/23/63

BORING NO.

9-125-21E

CONTRACT Oil Test - Dr. Robinson

#1 Graham

ADDRESS

CITY AND STATE Linwood, Kansas

WATER LEVEL CASING USED 17'6" of 8"

A.O.—Auger Only

R.B.—Rock Bit

S.V.—Shear Vane

S.A.—Sample Auger

S.S.—Split Spoon

C.W.—Core Water

W.B.—Wash Bar

S.T.—Shelby Tube

C.A.—Core Air

ABANDONMENT

DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR—MATERIAL—MOISTURE—CLAY CONSISTENCY SAND DENSITY
From	To		Hydraulic Pressure	Number of Blows		
155'0"	179'0"	RB				Gray limestone, solid, hard
179'0"	206'0"	RB				Dark shale, hard
206'0"	210'0"	RB				Dark gray limestone, solid
210'0"	213'0"	RB				Light gray limestone, solid
213'0"	216'0"	RB				Black shale, hard
216'0"	218'0"	RB				Gray limestone, solid
218'0"	226'0"	RB				Gray shale, hard
226'0"	230'0"	RB				Gray shale, hard
230'0"	242'0"	RB				Gray limestone, solid, hard
242'0"	243'0"	RB				Gray shale, hard
243'0"	247'0"	RB				Black shale, hard
247'0"	254'0"	RB				Gray shale, hard
254'0"	257'0"	RB				Gray liney shale, hard
257'0"	261'0"	RB				Dark gray limestone, hard
261'0"	310'0"	RB				Gray limestone, solid, hard
310'0"	314'0"	RB				Gray shaly limestone, hard
314'0"	316'0"	RB				Gray liney shale, hard
316'0"	318'0"	RB				Black shale, hard
318'0"	342'0"	RB				Gray limestone, solid

57'

52'

24'

TIME AND DATE HOLE COMPLETED

FOOTER TO INDICATE

LAYNE-WESTERN COMPANY

1010 West 29th Street
Kansas City, Missouri

DRILLER J. Harper

SURFACE ELEV. _____ NO. H-2

DATE 7/25/33 9-12-21E FORING NO. _____

CONTRACT Oil Test - Dr. Robison

ADDRESS _____

CITY AND STATE Linnwood, Kansas

WATER LEVEL _____ CASING USED 17'6" of 8"

A.O.—Auger Only
S.A.—Sample Auger
W.B.—Wash Bore

R.B.—Rock Bit
S.S.—Split Spoon
S.T.—Shelby Tube

S.V.—Shovel Vane
C.W.—Core Water
C.A.—Core Air

ABBREVIATIONS:

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DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION	
From	To		Hydraulic Pressure	Number of Blows		COLOR—MATERIAL—MOISTURE—	CLAY CONSISTENCY SAND DENSITY
343'0"	345'0"	RB				Gray limy shale, hard	
345'0"	347'0"	RB				Black shale, hard	
347'0"	350'0"	RB	7/25/33			Gray limestone, solid	17'
350'0"	360'0"	RB				Gray limestone, solid	+ 480
360'0"	364'0"	RB				Light gray limestone, solid	
364'0"	370'0"	RB				Dark gray shale, hard	
370'0"	380'0"	RB				Gray & green sandy shale, hard	
380'0"	390'0"	RB				Gray shale, hard	
400'0"	426'0"	RB				Gray shale, thin layers of limestone	
425'0"	475'0"	RB				Gray shale, hard	
475'0"	480'0"	RB				Gray limy shale, hard	
480'0"	488'0"	RB				Gray shale, hard	
499'0"	508'0"	RB				Gray limy shale, hard	
508'0"	519'0"	RB				Gray shale, hard	
519'0"	525'0"	RB				Gray limestone, hard	14'
525'0"	531'0"	RB				Gray shaly limestone, hard	
531'0"	533'0"	RB				Brown limestone, very hard	+ 311
533'0"	537'0"	RB				Gray shale, hard	
537'0"	538'0"	RB				Gray limestone, solid	

TIME AND DATE HOLE COMPLETED _____

OTHER TO INDICATE _____

LAYNE-WESTERN COMPANY

1010 West 39th Street

Kansas City, Missouri

DRILLER J. Harper

SURFACE ELEV. _____ PG. 11-2

DATE 7/26/63

9-12-21E
BORING NO. 1

CONTRACT Oil Test - Dr. Robison

ADDRESS _____

CITY AND STATE Lindenwood, Kansas

WATER LEVEL _____ CASING USED 17'6" of 8"

A.O.—Auger Only
S.A.—Sample Auger
W.B.—Watch Bore

R.B.—Rock Bit
S.S.—Split Spoon
S.T.—Shelby Tube

S.V.—Shear Vane
C.W.—Core Water
C.A.—Core Air

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ABBREVIATIONS:

DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION	
From	To		Hydraulic Pressure	Number of Blows		COLOR—MATERIAL—MOISTURE—	CLAY CONSISTENCY SAND DENSITY
538'0"	544'0"	RB				Gray limestone, solid	
544'0"	550'0"	RB				Green & gray limey shale, hard	
550'0"	563'0"	RB				Gray shale, hard	
563'0"	567'0"	RB				Brown limestone, hard	
567'0"	568'0"	RB				Black shale, hard	
568'0"	573'0"	RB				Gray shale, hard	
573'0"	579'0"	RB				Gray limestone, thin shale seams	
579'0"	581'0"	RB				Gray limey shale, hard	
581'0"	584'0"	RB				Gray shale, hard	
584'0"	588'0"	RB				Dark gray shale, hard	
588'0"	592'0"	RB				Gray shale, hard	
592'0"	610'0"	RB				Gray limey shale, hard	
610'0"	613'0"	RB				Gray shaly limestone, hard	
613'0"	622'0"	RB				Gray sandy shale, hard	
622'0"	630'0"	RB				Gray sandstone, hard	
630'0"	679'0"	CW	7/30/63	19'0"		Gray sandstone	
679'0"	700'0"	RB				Gray sandstone	
700'0"	720'0"	RB				Gray sandy shale	
720'0"	727'0"	RB				Gray shale	

TIME AND DATE HOLE COMPLETED _____

LAYNE-WESTERN COMPANY

1010 West 35th Street

Kansas City, Missouri

J. Harper

DRILLER

SURFACE ELEV.

FG

7/31/63

BORING NO.

9-12-21E

DATE

CONTRACT Oil Test - Dr. Robison

ADDRESS

CITY AND STATE Linwood, Kansas

WATER LEVEL

CASING USED

ABBREVIATIONS:

A.O.—Auger Only
S.A.—Sample Auger
W.B.—Wash Bore

R.B.—Rock Bit
S.S.—Split Spoon
S.T.—Shelby Tube

S.V.—Shovel Veneer
C.W.—Core Water
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		Hydraulic Pressure	Number of Blows		
727'0"	728'0"	RB				Limestone, solid
728'0"	749'0"	RB				Gray shale
749'0"	758'0"	RB				Gray limey shale, hard
758'0"	762'0"	RB				Dark gray shale, hard
762'0"	770'0"	RB				Dark gray shale, hard
770'0"	773'0"	RB				Gray sandy shale, hard
773'0"	775'0"	RB				Dark gray shale, hard
775'0"	781'0"	RB				Gray shale, hard
781'0"	784'0"	RB				Limestone, solid
784'0"	788'0"	RB				Gray shale, hard
788'0"	793'0"	RB				Gray shale, hard
793'0"	803'0"	RB				Gray limey shale, hard
803'0"	805'0"	RB				Black shale, or coal, hard
805'0"	815'0"	RB				Gray shale, hard
815'0"	821'0"	RB				Gray sandstone, hard
821'0"	831'0"	RB				Gray shale, hard
831'0"	842'0"	RB				Gray limey shale, hard
842'0"	850'0"	RB				Gray shaly sandstone, med.
850'0"	855'0"	RB				Gray limey shale, hard

TIME AND DATE HOLE COMPLETED

DRILLER TO INDICATE

LAYNE-WESTERN COMPANY

1010 West 39th Street
Kansas City, Missouri

DRILLER J. Harper

SURFACE ELEV. _____ NG H-2

DATE 8/6/63

BORING NO. 9-12-21E

CONTRACT Oil Test - Dr. Robison

ADDRESS _____

CITY AND STATE Idnwood, Kansas

WATER LEVEL _____ CASING USED 17'6" of 8'

A.O.—Auger Only
S.A.—Sample Auger
W.B.—Wash Bore

R.B.—Rock Bit
S.S.—Split Spoon
S.T.—Shelby Tube

S.V.—Shear Vane
C.W.—Core Water
C.A.—Core Air

ABBREVIATIONS:

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DEPTH		METHOD	PENETRATION RECORD		CORE RECOVERY	SAMPLE DESCRIPTION COLOR—MATERIAL—MOISTURE—CLAY CONSISTENCY SAND DENSITY
From	To		Hydraulic Pressure	Number of Blows		
868'0"	873'0"	RB				Dark gray shale, hard
873'0"	875'0"	RB				Gray limey shale, hard
875'0"	881'0"	RB				Brown limestone, solid, hard
881'0"	887'0"	RB				Gray limey shale, hard
887'0"	898'0"	RB				Gray limestone, thin shale layers
898'0"	905'0"	RB				Gray limestone, solid
905'0"	920'0"	RB				Gray limey sandstone, hard
920'0"	926'0"	RB				Gray limestone, solid
926'0"	932'0"	RB				Gray limey shale, hard
932'0"	940'0"	RB				Gray limey shale, hard
940'0"	943'0"	RB				Dark gray shale, hard
943'0"	978'0"	RB				Gray sandy shale, hard
978'0"	1018'0"	RB	8/7/63			Gray sandy shale, hard
1018'0"	1034'0"	RB				Gray sandy shale, thin limestone layers
1034'0"	1042'0"	RB				Gray sandy shale, hard
1042'0"	1052'0"	RB				Black limestone, solid, very hard
1052'0"	1060'0"	RB				Dark gray shale, hard
1060'0"	1066'0"	RB				Gray sandy shale, hard
1066'0"	1088'0"	RB				Black limey shale, hard

TIME AND DATE HOLE COMPLETED

CHANGED TO INDICATE:

1010 West 39th Street
Kansas City, Missouri

DRILLER J. HANDEY

SURFACE ELEV. _____ NG 71-2

DATE 8/8/63

LEARNING NO.

CONTRACT Oil Test - Dr. Robison

ADDRESS.

CITY AND STATE Lidwood, Kansas

WATER LEVEL _____ CASING USED 7' 6" 0 8"

A.O.—Auger Only
S.A.—Sample Auger
W.B.—Wash Bore

R.B.—Rock Bit
S.S.—Split Spoon
S.T.—Shelby Tube

S.V.—Shear Vane
C.W.—Core Water
C.A.—Core Air

ABBREVIATIONS

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