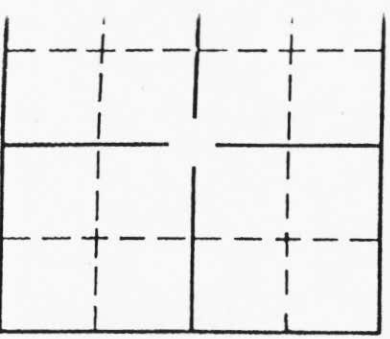


WESTERN WELL LOGGING, INC.

7391 W. 38th AVE. • WHEAT RIDGE, COLORADO 80033 • (303) 423-7823

001-
00018

G02071

Date: JUNE 11, 1976

HOLE NUMBER: CF-12-12-C
Well Name:
Elevation:
Depth Drilled: 160
Log Measured From: GROUND LEVEL
State/County: MO. / ~~SULLIVAN~~ Adair
Region:
Project:
Location:
Sec.: **Twp.:** **Rng.:**
CLIENT: AMAX COAL
Owner: MEADOW LARK FARMS
Drilling Co.: TETON
Engineer: STEVE MONTZ
Unit Operator: G. REYNOLDS
Unit Number: L-6
Job Number: 035.02
REMARKS:

GAMMA — DENSITY GAMMA				
	INITIAL RUN			
Logged Depth (ft.)				
Range (Full Scale) CPS	1K			
Time Constant (sec.)	1			
Logging Speed (ft./min.)	20			
Paper Speed (ft./in.)	10			
Probe Number	61-G			
Probe Dia. (in.)	1 1/4			
Crystal Size (in.)	1/2 x 2			
Digital Readout (ft.)				
Time Base (sec.)				
Dead Time (μ sec.)	10.9 x 10⁻⁶			
Digital Dead Time (μ sec.)				
Water Factor ( ) in. Hole				
Casing Factor ( ) in. Steel				
K—Factor (x 10⁻⁵)	5.6			
Calibration CPS	100			
Standard (cps)				
Bkgnd. Count (cps)				

ELECTRIC	RES	SP
Logged Depth (ft.)		
Resist. Scale (ohm./in.)	20	
S. P. Scale (mv./in.)		20
Logging Speed (ft./min.)	20	20
Viscosity - Density		
Rm @ T°F		
Rmf @ T°F		
Rmc @ T°F		

SPECIAL RUN

Logged Depth (ft.)	15 Survey:
Scale:	105 - 120
Paper Speed (ft./in.)	5
Logging Speed (ft./min.)	15

CASING — HOLE DATA

Bit Size:	4 3/4 in.,	0 to 160	ft.
Bit Size:	in.,	to	ft.
Cased From:		to:	ft.
Dia. (inside):		in., wall size	in.
Cased From:		to:	ft.
Dia. (inside):		in., wall size	in.

GAMMA | DENSITY — INCREASING — | SPONTANEOUS POTENTIAL | RESISTANCE

Plotted On Scale

Field Map : 1:24,000

____ Coal Bed Map :

____ Coal Bed Map :

____ Coal Bed Map :

____ Coal Bed Map :

001-00018

AMAX 012

012C

CONFIDENTIAL

64 17

31 located

plotted

Adair County

Stahl Quadrangle

N.W¼ SW¼ SE¼ SW¼ NW¼ Sec 31, T. 64N., R. 17W.

State Planar Coordinates: 1,629,259.83'N, 401,150.54' E.

Amax Coal Company 012, Drillers log CF-112, Coal Test, elevation 967.5'. Hole is located N 17° E from house in NE NE NE SW sec 30, T. 64N., R. 17W and N 65°E from hay barn in Qtr NW SE sec 30, T. 64N. R 18W. Hole is marked by green steel fence post.

Preliminary Log

967'6"			
922'6"	45'	Clay, brown	
877'6"	45'	Gumbo, gray	
876'6"	1'	Coal	
857'6"	19'	Shale, gray	
852'6"	5'	Shale	
850'	30"	Coal	
827'6"	22'6"	Sandstone and shale	
817'6"	10'	Sandstone	
814'6"	3'	Hard	
812'6"	2'	Sandstone	
811'	1'6"	Coal 1.5' = 1'6" = 18"	
802'6"	8'6"	Sandstone	
800'6"	2'	Hard	
787'6"	13'	Shale, sandy	

180'

Q Pleistocene

P

Pleasanton

Lexington Coal Bed

Labette Fm

Hepansville Fm

Heat Hill Ss Mbr

Summit Coal Bed

Little Osage Fm

Blackjack Ck Fm.

Iagarda Fm

FORM 489

AMAX COAL COMPANY

DRILLER'S LOG

PROJECT Carmel Farms

Sub Area _____ HOLE NO. CF 112

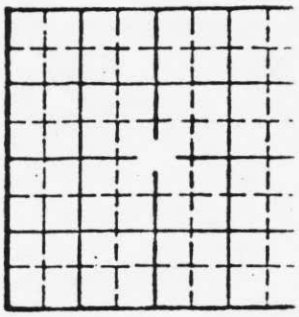
Property Owner _____ Elevation 967.5

Description _____ Date Drilling Started _____

Township _____ Range _____ Date Drilling Completed _____

County Sullivan Drilling Contractor _____

State Should be Adair Bit Type and Size 4 3/4 Irene Law



FROM	TO	FORMATION
0	45	Brown Gumbo
45	90	Gray Gumbo
90	91	Coal
91	110	Gray shale
110	115	shale
115	117½	Coal
117½	140	Sandstone + shale
140	150	SANDstone
150	153	Hard
153	155	Sandstone
155	156½	Coal
156½	165	Sandstone
163	167	Hard
167	180	Shady shale

FROM	TO	FORMATION

REMARKS:

CONFIDENTIAL

Driller's Signature Vern Jensen Approved By _____

OFFICE COPY - WHITE
FIELD COPY - YELLOW
CONTRACTOR'S COPY - PINK

Amax 012C

CONFIDENTIAL

64 17

Adair Co 31 located

SE¼ Green City 15' Quad

SW NW SE SW NW Sec. 31, T. 64 N., R. 17 W.

Amax Coal Company, Coal test 012C, ~~Drillers log CF-112~~

elevation 967.5'

012C is 5' N 22° W from 012

plat map reports 1.5' Coal