ENERGY RESOURCES, INC.

Page # 2 of 5

Company: CLARK BRODER
Well: 69-C1
Field: BIDDLEVALE
County: JACKSON, MISSOURI
Location: 660' FSL & 1320' FEL
Sec. 28 Twp. 47N Rge. 33W
Permanent Elevation: Log Measured From: Drilling Measured From: GL
Elevations: K.B. N/A D.F. N/A G.L. N/A
Date: 4-6-81
Run No.: 1 BW
Type Log: GAMMA RAY
Depth-Driller: 605.0
Depth-Logger: 605.0
Bottom Log Interval: 605.0
Top Log Interval: 0
Type Fluid in Hole: WATER
Salinity, PPM Cl: -
Density: -
Level: FULL
Max. Rec. Temp. Deg. F: -
Equipment No.: 705
Location: 3RD & MAIN
Recorded By: JEFFERSON
Witnessed By: MCCRAY

Bore Hole Record

Run No.	Bit No.	From	To
1	1	0	605.0

Casing Record

	Size	Wgt.	From	To
	4.5		0	605.0

Fold Here

THIS READING AND LOG CONFORMS TO API RP 33

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PRELIMINARY

EQUIPMENT DATA

Gamma Ray		Neutron	
Run No.	1 BW	Run No.	1 BW
Tool Model No.	705	Log Type	NEU/NEU
Diameter	1 11/16"	Tool Model No.	705
Detector Model No.	705-GR	Diameter	1 11/16"
Type	GEIGER	Detector Model No.	705 NE-1
Length	1 3/8x18"	Type	HE
Distance to M. Source	4.5	Length	1"x6"
		Source Model No.	71-1
		Serial No.	71-1-3359
		Spacing	13"
		Type	AMDT-241
		Strength	3 CI

General

Hoist Truck No.	0020
Instrument Truck No.	0020
Tool Serial No.	0002

LOGGING DATA

General Depths Run No.	From	To	Speed Ft/Min.	T.C. Sec.	Gamma Ray Sens. Settings	Zero Div. L or R	API G.R. Units Per Log Div.	T.C. Sec.	Neutron Sens. Settings	Zero Div. L or R	API N. Units Per Log Div.
1	0	T.D.	20	4	100/95	0-R	10	4	500/100	3-L	20

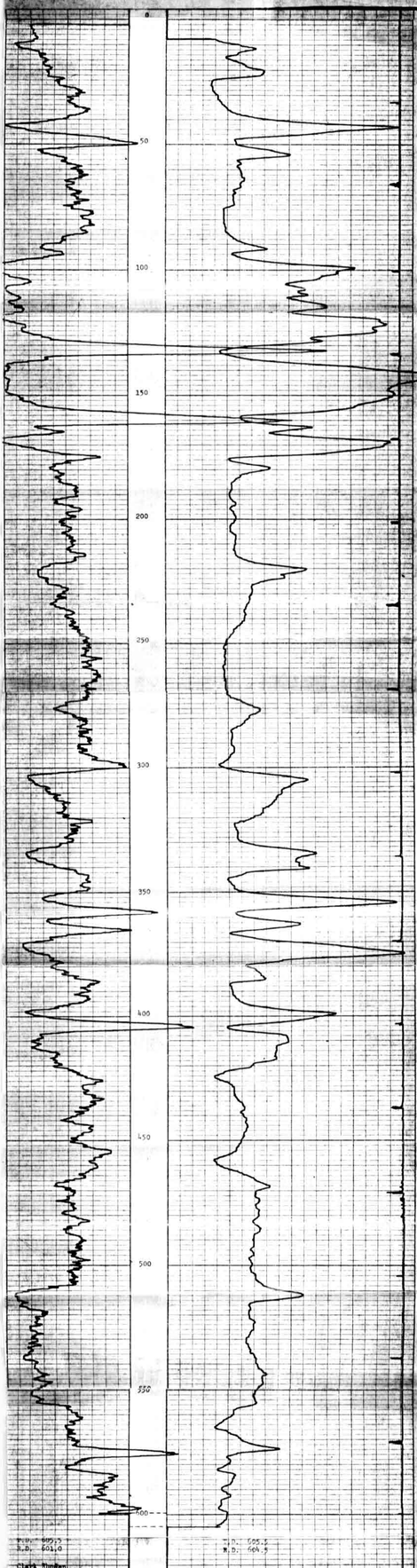
Reference Literature:

Remarks:

MSCO 12345

GAMMA RAY DEPTH NEUTRON

CASING COLLARS



T.D. 605.5
B.D. 601.0

T.D. 605.5
B.D. 604.5

Clark Broden
No. 69-C1
Jackson County, Missouri
April 6, 1981