COMPANY LOG ENERGY CORPORATION

WELL B.J. MILLER 28-24

FIELD WATTENBERG

County WELD

State COLORADO

Other Services

ACOUSTIC CEMENT BOND GAMMA RAY LOG

COMPANY LOG ENERGY CORPORATION

WELL B.J. MILLER 28-24

FIELD WATTENBERG

COUNTY WELD STATE COLORADO

Location: Other Services

Permanent Datum: GROUND LEVEL Elev. 4977

Log Measured From: KELLY BUSHING 20 Ft. Above Perm. Datum

Drilling Measured From: KELLY BUSHING

Elev.: K.B. 4997 D.F. 4996 G.L. 4977

Date: 7-29-81

Run No.: ONE

Depth-Driller: 7926

Depth-Logger: 7926

Bottom Logged Interval: 7926

Top Logged Interval: 6500

Type Fluid in Hole: GEL CHEM

Salinity, PPM Cl: 1000

Density: 9.0

Level: FULL

Max. Rec. Temp. Deg. F: 160

Operating Rig Time: 5 HRS

Recorded By: R. SCHMIDT

Witnessed By: MR. SMITH

CASING RECORD

	Size	Wgt.	Grade	From	To
Surface String	8 5/8"	24#	J-55	SURF.	1000
Prod. String	4 1/2"	10.5#	J-55	SURF.	7926

BIT RECORD

No.	Size	Type	From	To
1	7 7/8"	HTC	1000	7926

Rig Name & No.: UNIT #2

Source of Sample: FLOWLINE

Rm @ Meas. Temp.: .35 @ 70°F

Rmf @ Meas. Temp.: .28 @ 70°F

Rmc @ Meas. Temp.: .45 @ 70°F

Source: Rmf Rmc: MEASURED

Rm @ BHT: .16 @ 160°F

Time Since Circ.: 5 HRS

Max. Rec. Temp. Deg. F: 160

Equip. Location: GREELEY

Recorded By: R. SCHMIDT

Witnessed By: MR. SMITH

EQUIPMENT DATA

Top Log Int.: 6500 Type Fluid in Hole: GEL CHEM Salinity PPM Cl: 1000

Density: 9.0 Level: FULL Max. Rec. Temp. Deg. F: 160

Operating Rig Time: 5 HRS

Recorded By: R. SCHMIDT Witnessed By: MR. SMITH

LOGGING DATA

GAMMA RAY

Run No.	Type	Depth-Driller	Depth-Logger	Bottom Log Interval	Top Log Interval	Scale Up/Lin.	Zero	Scale	Gain	Delay	Scale
1	CBL	7926	7926	7926	6500	LINEAR	0	200	1	0	0

AMPLITUDE

Run No.	Type	Scale	Gain	Delay	Scale
1	CBL	0	1	0	100

3 TIME

Run No.	Type	Scale
1	CBL	1500-6500

CEMENTING DATA

GAMMA RAY

API UNITS

TRANSIT TIME

MICROSECONDS

600 200

AMPLITUDE

CEMENT BONDING INCREASES

0 AMPLIFIED AMPLITUDE 20

AMPLITUDE 100

VARIABLE DENSITY or SEISMIC SPECTRUM

TIME

MICROSECONDS

100 1100

6900

6950

7000

7050

7100

7150

7200

7250

7300

7350

7400

7450

7500

7550

7600

7650

7700

7750

7800

7850

7900

7926

REPEAT SECTION

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Company	LOG ENERGY CORPORATION	Drillers T.D.	7926
Well	B.J. MILLER 28-24	Log T.D.	7926
Field	WATTENBERG	Elevations:	
County	WELD	K.B. 4997	D.F. 4996 G.L. 4977
State	COLORADO		