

WELL REPORT  
ENERGY RESERVES GROUP, INC.  
JICARILLA 35 #4  
BLANCO PICTURED CLIFFS - SOUTH OTERO CHACRA  
RIO ARriba COUNTY, NEW MEXICO

R. Tucker Attebery  
R. Tucker Attebery, Geologist  
Farmington, New Mexico 87401

## ABSTRACT

The Energy Reserves Group: Jicarilla 35 #4 was spudded January 10, 1977. The test was drilled to a total depth of 3841' Logger, 3830' Driller, in the Lewis Shale of Cretaceous age. A total of 101.5 rotating hours were required for the drilling of this test.

All formations were evaluated by a careful examination of rotary cuttings by a geologist in the field (from 2750' to 3830') and by qualitative and quantitative analyses of well log surveys conducted by Dresser Atlas. Potentially productive sands were indicated in Pictured Cliffs and Chacra zones.

Samples were stored in the Energy Reserves Group offices in Farmington, New Mexico.

WELL REPORT  
ENERGY RESERVES GROUP: JICARILLA 35 #4  
RIO ARriba COUNTY, NEW MEXICO

LOCATION

890° FSL & 960° FWL, Section 35, Township 25 North, Range 5 West,  
NMPM

ELEVATION

6789° GL: 6802° KB

CONTRACTOR

Arapahoe Drilling Company, Rig #6  
Toolpusher: Roy Shepard

SPUD AND COMPLETION DATA

Spud Date: January 10, 1977 @3:00 A.M.  
Drillout Date: January 11, 1977  
Date TD Reached: January 15, 1977  
TD Driller: 3830'  
TD Logger : 3841'

CASING

Surface: : 8 5/8" @223' w/150 sxS w/3% KCl  
Production: 5 1/2" @223' w/ : sxS

ELECTRICAL SURVEYS

Dresser Atlas: Induction Electrolog from 226' to 3836';  
Compensated Densilog and Compensated Neutron from 1830' to 3838';  
Acoustilog from 1830' to 3831'

It should be noted that there was no charge made for the  
Compensated Neutron log as Dresser Atlas was attempting to illustrate  
their recommended porosity tools for the area.

### FORMATION TOPS

<u>Tertiary</u>	<u>Depth</u>	<u>KB Datum</u>	<u>Thickness</u>
Tertiary Undivided	Surface	6802'	2293'
Ojo Alamo	2293'	4509'	145'

### CRETACEOUS

Kirtland	2438'	4364'	262'
Fruitland	2700'	4102'	105'
Pictured Cliffs	2805'	3997'	125'
Lewis	2930'	3872'	725'
Chacra	3655'	3147'	186'
TD Logger	3841'	2961'	
TD Driller	3830		

### WELL CUTTINGS

30' samples from 2130' to 2750'  
10' samples from 2750' to 3830'

**BIT RECORD**

<u>No.</u>	<u>Make</u>	<u>Size</u>	<u>Type</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Hours Run</u>
1	HTC	12 1/4"	OSC1G	227'	227'	5 3/4
2	Smith	7 7/8"	DTT	1425'	1198'	15
3	Smith	7 7/8"	DGT	2036'	611'	11 1/4
4	Smith	7 7/8"	DG	2474'	438'	9
5	Smith	7 7/8"	DGT	2763'	289'	11 1/4
6	Smith	7 7/8"	DG	3260'	497'	19 1/2
7	Smith	7 7/8"	DG	3700'	440'	19 3/4
8	STC	7 7/8"	DT	3830'	130'	10

**TOTAL ROTATING HOURS - 101.5**

# DEVIATION RECORD

<u>No.</u>	<u>Degree</u>	<u>Depth</u>
1	$3/4^{\circ}$	227'
2	$2\ 1/2^{\circ}$	1425'
3	$1\ 3/4^{\circ}$	2036'
4	$1\ 1/2^{\circ}$	2474'
5	$1\ 1/2^{\circ}$	2763'
6	$3/4^{\circ}$	3260'
7	$1/2^{\circ}$	3700'
8	None	

## DAILY DRILLING REPORTS

- 1-9-77      Drlg surface, rig-up 20 hrs., Drlg 4 hrs.  
Water
- 1-10-77      Drlg 227°, Drlg surface 2 3/4 hrs, Serv rig 1 hr,  
Trip 1 1/4 hrs., run 8 5/8 csg and cement 1 1/2 hrs.,  
WOC 6 hrs, nipple up 11 1/2 hrs.  
Deviation: 3/4° @227°  
Water
- 1-11-77      Drlg 1548°, nipple up 2 hrs., serv 1/2 hrs, drlg plug  
and cement 1 1/2 hrs, drlg 16 3/4 hrs., cir and  
survey 1/2 hr., trip and survey 2 3/4 hrs.  
Deviation: 2 1/2° @1425°  
Mud Properties: Vis 28, Wt 8.8
- 1-12-77      Drlg 2474°, serv 1/2 hr., drlg 18 1/2 hrs., trip 5 hrs.  
Deviation: 1 3/4° @2036°  
1 1/2° @2474°  
Mud Properties: Vis 35, Wt 9.0, W.L. 6cc, Cake 1/32"
- 1-13-77      Drlg 2960°, serv 1/4 hr., drlg 19 1/2 hrs., trip 4 1/4 hrs.  
Deviation: 1 1/2° @2763°  
Mud Properties: Vis 30, Wt 9.2, W.L. 6.8cc, Cake 1/32"
- 1-14-77      Drlg 3520°, drlg 20 1/4 hrs., serv 1/4 hrs., trip 3 1/2 hrs.  
Deviation: 3/4° @3260°  
Mud Properties: Vis 34, Wt 9.1, W.L. 6.2cc, Cake 1/32"

DAILY DRILLING REPORTS - CONTINUED

1-15-77 Drlg 3765', drlg 15 hrs., WO Fuel 2.5 hrs., repair 2 hrs.,  
trip 3 3/4 hrs., survey 1/4 hr.

Deviation: 1/2° @3700'

Mud Properties: Vis 38, Wt 9.2, W.L, 6cc, Cake 1/32"

1-16-77 TD @3830', run logs and casing