

WELL REPORT
ENERGY RESERVES GROUP, INC.: JICARILLA 35 #5
BLANCO PICTURED CLIFFS - SOUTH OTERO CHACRA FIELDS
RIO ARriba COUNTY, NEW MEXICO

R. Tucker Attebery

R. Tucker Attebery, Geologist
Farmington, New Mexico 87401

ABSTRACT

The Energy Reserves Group, Jicarilla 35 #5, was spudded January 25, 1977 in the Blanco Pictured Cliffs - South Otero Chacra Fields. The well was drilled to a total depth of 4025' Driller, 4028' Logger, in the Chacra Formation of Upper Cretaceous age.

The rotary cuttings were examined by a geologist in the field. The well was logged by Dresser Atlas: Induction Electrolog (230' to 4025') and Gamma Ray - Density (2026' to 4026').

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

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LOCATION

1600' FSL & 1650' FEL (NW SE), Section 36 - T25N - R5W

ELEVATION

6871' GL, 6884' KB

CONTRACTOR

Arapahoe Drilling Company, Rig #6
Toolpusher: Roy Shepherd

SPUD AND COMPLETION DATA

Spud Date: January 25, 1977
Drillout Date: January 26, 1977
Date TD Reached: February 1, 1977

TD Driller 4025' : TD Logger 4028'

CASING

Surface: 8 5/8" @ 230' w/150 sxs
Production: 5 1/2" @ 4028'

ELECTRICAL SURVEYS

Dresser Atlas: Induction Electrolog (230' - 4025')
Gamma Ray - Density (2026' - 4026')

FORMATION TOPS

<u>Tertiary</u>	<u>Depth</u>	<u>KB Datum</u>	<u>Thickness</u>
Undivided Tertiary	Surface	6884'	2420'
Ojo Alamo	2420'	4464'	183'
<u>Cretaceous</u>			
Kirtland	2603'	4281'	131'
Fruitland	2734'	4150'	216'
Pictured Cliffs	2950'	3934'	133'
Lewis	3083'	3801'	719'
Chacra	3802'	3082' pentrtd	226'
TD Logger	4028'	2856'	
TD Driller	4025'		

WELL CUTTINGS

30' Samples from 980' to 2900'
10' Samples from 2900' to 4020'

BIT RECORD

<u>No.</u>	<u>Make</u>	<u>Size</u>	<u>Type</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Hrs. Run</u>
1	HTC	12 1/4"	OSC (RR)	226'	226'	4 1/2
2	Smith	7 7/8"	DGT	1238'	1012'	15
3	Smith	7 7/8"	F2 (RR)	2811'	1573'	4
4	Smith	7 7/8"	F3 (RR)	3009'	198'	7
5	Security	7 7/8"	S88 (RR)	3758'	749'	40 3/4
6	Stc	7 7/8"	DGT	4020'	262'	22 1/4

Total Rotating Hours - 93 1/4

DEVIATION RECORD

<u>No.</u>	<u>Degree</u>	<u>Depth</u>
1	1/2°	765'
2	3/4°	1170'
3	3/4°	1238'
4	3/4°	1730'
5	3/4°	2416'
6	1°	2811'
7	1/2°	3758'
8	1/4°	4020'

DAILY DRILLING REPORT

- 1-26-77 Depth 226', MIRT and Rig-up 14 1/2 hrs., Drlg. Rat and Mouse Holes 1 1/4 hrs., Repair Pump 3/4 hr., Drlg. surface 4 1/2 hrs., Circ. 1/2 hr., Run Csg. 1 hr., Circ. Csg. 1 1/4 hrs., Prep to cement 1/4 hr.
- 1-27-77 Drlg. 790', Cmt. Csg. 3/4 hr., WOC 12 hrs., Repair 1 1/2 hrs Drlg Plug and Cement 2 1/4 hrs., Drlg 7 1/4 hrs., Survey 1/4 hr.
- Deviation: 1/2° @ 765'
- Mud Properties: Vis 28, Wt 8.9
- 1-28-77 Drlg 1960', Service Rig 1/4 hr., Drlg 21 3/4 hrs., Trip 1 1/4 hr., Surv 3/4 hr.
- Deviation: 3/4° @ 1170'
3/4° @ 1238'
- Mud Properties: Vis 29, Wt 8.9, W.L. 6.8 cc, Cake 1/32"
- 1-29-77 Drlg 2740', Serv 1/4 hr., Drlg 23 1/2 hrs., Surv 1/4 hr.
- Deviation: 3/4 @ 1730'
3/4 @ 2416'
- Mud Properties: Vis 29, Wt 9.0, W.L. 7cc, Cake 1/32"
- 1-30-77 Drlg 3190', Serv 1/4 hr., Drlg 18 1/2 hrs., Trip 5 1/4 hr.
- Deviation: 1° @ 2811'
- Mud Properties: Vis 29, Wt 8.9, W.L. 7.6 cc, Cake 1/32"
- 1-31-77 Drlg 3665', Serv 1/4 hr., Drlg 23 3/4 hrs.
- Deviation: 1/2° @ 3758'
- Mud Properties: Vis 40, Wt. 9.1, W.L. 6.0 cc, Cake 1/32"
- 2-1-77 Drlg 3930', Serv 1/4 hr., Drlg 20 1/2 hrs., Surv 1/4 hr. Trip 3 hrs.
- Deviation: 1/4° @ 4020'
- Mud Properties: Vis 38, Wt. 9.4, W.L. 6.6 cc, Cake 2/32"

DAILY DRILLING REPORT - CONTINUED

2-2-77 TD 4020', Serv 1/4 hr., Drlg 9 1/2 hrs., Circulate and condition mud 3 hrs., Short trip 1 hr., Trip 6 hrs., Waiting on loggers 1 hr., Rig-up and attempt to log 3 1/4 hrs.

Mud Properties: Vis 65, Wt. 9.5, W.L. 6 cc, Cake 2/32"

2-3-77 Attempting to log.

2-4-77 Ran logs and casing.