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00400476

FINAL WELL REPORT

J. W. Nylund, et al

#1 Gade

SW SW Sec. 13-T3S-R55W
Washington County, Colorado

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GENERAL INFORMATION

OPERATOR: J. W. Nylund
FARM: Clinton Gade
WELL NUMBER: 1
LOCATION: 660' FSL, 605' FWL; SW SW Sec. 13-T3S-
R55W,
COUNTY: Washington
STATE: Colorado
FIELD: Mescalero
ELEVATIONS: 4797' GL, 4809' KB (surveyed by
Billy Holloway, Powers Elevation Service)

SURFACE CASING: Ran 3 joints, 114', of 8-5/8", 24#
casing, set at 126' KB, with 90 sacks
class G regular cement, 3% CaCl,
2% gel

CORES: None

DRILL STEM TESTS: J sand straddle packer test.

LOGS: Ran Dresser Atlas Induction-Electrolog
from 4924' to 126'; ran Compensated
Gamma Ray-Desilog from 4924' to
4600'. Prolog field analysis over
sand sections.

MUD PROGRAM: Chemical gel drilling mud with the
following properties on the morning
of November 15, 1985: Wt. 9.4;
vis. 50 (raised to 88 to log);
pH 10.5; water loss 5 cc; filter
cake thickness 2/32".

DRILLING TIME CHARTS: Star Recorder drilling time charts
showing 1' penetration rate are on
permanent file in operator's office.

STATUS: Plugged and abandoned.

WELLSITE GEOLOGIST: J. W. Nylund

DRILLING CONTRACTOR: J. W. Gibson Drilling Company, Inc.,
Rig No. 75; Harold Vaagen, tool-
pusher.

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DRILL STEM TESTS

DST #1 - 4872' - 4876' (using a TD of 4925', and 49' of anchor).
Open 15 minutes, shut in 30 minutes, open 1 hour, shut in 1
hour. Tool opened with a weak blow of 1/4" under water, and
increased to 2" under water at end of pre-flow. Tool opened for
second flow with a weak blow, gradually increasing to a 4" blow
in 45 minutes and stabilized for remainder of flow period.

Recovery (pipe)

488' of water. R_w 2.6 @ 70° = 2200 parts per million

Recovery (sample chamber)

2,000 cc water. R_w 2.6 @ 70° = 2200 parts per million

Pressures (Field)

Initial hydrostatic	2506 psi
Final hydrostatic	2470 psi
Initial Flow #1	73 psi
Final Flow #1	109 psi
Initial Flow #2	201 psi
Initial shut in	659 psi
Final shut in	659 psi

Pressure below bottom packer bled to 764 psi.

Temperature

Bottom hole temperature - 136° F

Liberty Testers Engineer - Tom Michel
Test Successful

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SAMPLE DESCRIPTION

(Depths corrected to Dresser Atlas)

- 4766' - 4771' Top of D Sand
Sandstone, white to brown, fine to very fine grained, tight, argillaceous, glauconitic, soft, friable, poor to fair sorting, subrounded grains, no shows.
- 4771' - 4780' Sandstone, white, fine grained, fair P & P, slightly argillaceous, glauconitic, medium hard, slightly friable, subangular to subrounded grains, no shows.
- 4780' - 4790' Sandstone, gray, fine grained, tight, very argillaceous, medium hard, poorly sorted, subangular grains, no shows.
- 4790' - 4816' Shale, black, soft, fissile, bentonitic, pyritic.
- 4816' - 4828' Top of J Sand.
Sandstone, tan, fine grained, tight, argillaceous, glauconitic, medium hard, friable, poor sorting, subangular grains, no shows.
- 4828' - 4859' Sandstone, gray, fine grained, tight, very argillaceous, locally grading into a gray claystone, very soft, very friable, poorly sorted, subrounded grains, no shows.
- 4859' - 4870' Sandstone, white to light tan, fine to very fine grained, fair P & P, argillaceous in part, generally well sorted, soft and friable, subrounded grains, no shows.
- 4870' - 4878' Sandstone, light tan, fine to very fine grained, variable tight and clay filled to good P & P, argillaceous in part, well sorted, very soft and friable, subrounded grains, good live oil stain, breaks with globules, bright yellow fluorescence.
- 4878' - 4885' Shale, black, arenaceous, bentonitic.
- 4885' - 4903' Sandstone, gray, fine grained, low to fair P & P, argillaceous, shaley, pyritic, hard, poor sorting, subangular grains, no shows.
- 4903' - 4917' Sandstone, tan, fine grained, low P & P, moderately clay filled, poorly sorted, subrounded grains, no shows.
- 4917' - 4925' Sandstone, as above, becoming increasingly shaley with low to no P & P.

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CHRONOLOGICAL HISTORY

November 12, 1985 Moved in, rigged up, spudded at 1:30 P.M., set surface casing. Plug down at 4:00 P.M. Drilled surface plug at 12:00 A.M.

November 13 Drilling at 1186' with water; Bit No. 1.

November 14 Drilling at 3459' with water; Bit No. 1.

November 15 Drilling at 4589' with mud, Bit No. 2. Drilled to total depth of 4925'.

November 16 Logging at report time. Ran IES and Gamma Ray-Densilog. Ran DST No. 1. Plugged well with 20 sacks cement in bottom of surface casing and 10 sacks in top as per telephone instructions from Hack Morrell, Colorado Oil and Gas Conservation Commission.

FORMATION TOPS

<u>Formation</u>	<u>Log Tops</u>	<u>Sea Level Datum</u>
Niobrara	3797'	
Ft. Hayes	4295'	
Carlile	4358'	
Greenhorn	4427'	
Bentonite Marker	4668'	
D Sand	4766'	+43
J Sand	4816'	-7
Total Depth	4925' driller	
	4924' Dresser Atlas	

BIT RECORD

<u>Run No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth Out</u>	<u>Footage</u>	<u>Hours</u>
1	7-7/8"	WMD	03J	4179'	4047'	33-1/2
2	7-7/8"	STC	DTJ	4876'	697'	14-1/2
3	7-7/8"	HTC	J22	4925'	49'	3

DEVIATION SURVEYS

<u>Depth</u>	<u>Degrees From Vertical</u>
1123'	1/2°
2124'	3/4°
3147'	1°
4179'	1°
4876'	1°
4925'	1°