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COLO. OIL & GAS CONS. COMM.

FINAL WELL REPORT

J. W. Nylund, et al

#1-A Jolly

NW NW Section 17-T3S-R55W
Washington County, Colorado

John B

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GENERAL INFORMATION

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OPERATOR: J. W. Nylund
FARM: Jolly Ranch (Kent Jolly, Manager)
WELL NUMBER: 1-A
LOCATION: 900' FNL, 660' FWL; S/2 NW NW Sec. 17-T3S-R55W
FIELD: Ramp
COUNTY: Washington
STATE: Colorado

ELEVATION: 4691' GL, 4703' KB

SURFACE CASING: Drilled 140' of surface hole. Ran three joints, 121' overall of 8 5/8" 24.00# surface casing, set @ 133' with 80 sacks regular cement, 3% CaCl, 2% gel. Good returns.

CORES: None

DRILL STEM TESTS: One, J Sand straddle packer test.

LOGS: Ran Dresser Atlas Induction Electrolog from 4974' to 132'; ran Gamma Ray-Densilog from 4974' to 4700'. Prolog Field Analysis over sand sections.

DRILLING TIME CHARTS: Geolograph drilling time charts showing one foot penetration rate are on permanent file in operator's office.

MUD PROGRAM: Chemical gel drilling mud with the following properties on the morning of July 3, 1985: weight 9.7, viscosity 57 (raised to 74 to log), pH 10, water loss 5.0, filtercake 2/32.

STATUS: Plugged and abandoned.

WELLSITE GEOLOGIST: J. W. Nylund

DRILLING CONTRACTOR: J. W. Gibson Drilling Co., Inc., rig #75, David Heisel, toolpusher.

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CHRONOLOGICAL HISTORY

June 29, 1985 Moved in, rigged up, spudded at 2:30 PM. set surface casing. Plug down at 4:15 PM. Drilled surface plug at 12:15 AM.

June 30 Drilling at 1465' with water, bit #1.

July 1 Drilling at 3928' with mud, bit #2

July 2 Drilling at 4807' with mud, bit #2.

July 3 Drilling at 4960' with mud, bit #3. Drilled to total depth of 4975'. Ran IES and Gamma Ray-Densilog. Went in with DST #1.

July 4 Pulled DST #1. Plugged well with 35 sacks cement over J sand; 20 sacks in bottom of surface casing and 10 sacks in top as per telephone instructions from William Smith, Director Colorado Oil and Gas Conservation Commission.

FORMATION TOPS

<u>Formation</u>	<u>Log Tops</u>	<u>Sea Level Datum</u>
Niobrara	3870'	
Ft. Hayes	4355'	
Carlile	4404'	
Greenhorn	4490'	
Bentonite marker	4730'	
D Sand	4827'	-124
J Sand	4877'	-174
Total Depth	4975' driller	
	4974' 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	3928'	3788'	21- $\frac{1}{2}$
2	7-7/8"	STC	DTJ	4845'	917'	21- $\frac{1}{4}$
3	7-7/8"	HTC	J22	4975'	130'	10- $\frac{1}{2}$

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DEVIATION SURVEYS

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Depth

Degrees from Vertical

1155'

$3/4^{\circ}$

2340'

1°

3182'

1°

3928'

1°

4845'

$3/4^{\circ}$

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SAMPLE DESCRIPTION

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(Depths corrected to Dresser Atlas)

- 4827' - 4835' Top of D Sand. Sandstone, light tan, fine grained, tight, argillaceous, slightly quartzitic in part, few shale laminations, fair to good sorting, hard, slightly friable, subangular grains, no shows.
- 4835' - 4842' Siltstone, gray, hard, shaley, arenaceous in part.
- 4842' - 4853' Sandstone, clear to gray, fine grained, very low P & P to tight, slightly argillaceous, hard, well sorted, subangular grains, no shows.
- 4853' - 4877' Shale, black, soft, fissile, bentonitic, pyritic.
- 4877' - 4891' Top of J Sand. Sandstone, white, fine grained, tight to low P & P, argillaceous, glauconitic, medium hard, slightly friable, poor to fair sorting, subangular grains, no shows.
- 4891' - 4901' Shale, black, silty.
- 4901' - 4913' Sandstone, gray, fine grained, tight, silty, very shaley, very argillaceous, poorly sorted, subrounded grains, no shows.
- 4913' - 4918' Sandstone, gray, fine grained, tight, argillaceous, medium soft, fair sorting, friable, subrounded grains, no shows.
- 4918' - 4930' Sandstone, light tan, fine grained, variable low to good P & P, argillaceous in part, glauconitic, medium soft, friable, fair sorting, subrounded grains, very spotty good oil stain (approximately 5% of sand had stain), fair yellow florescence. Note: A large amount of unconsolidated sand grains were noted in the bottom of the sample tray through this interval.
- 4930' - 4955' Sandstone, very light tan, fine grained, tight to low P & P, argillaceous, traces of glauconite, slightly biotitic, fair sorting, subangular grains, no shows.
- 4955' - 4975' Sandstone, white to gray, fine grained, fair P & P, argillaceous in part, large amounts of free bentonite, fair sorting, soft, friable, subrounded grains, no shows.

Sample quality - very good.

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DRILL STEM TEST

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DST #1

4922' - 4928' (J Sand straddle packer test using 47' of anchor). Open 15 min., shut in 30 min., open 60 min., shut in 60 min. Tool opened with weak blow, increased to 6" blow. Tool opened for second flow with a very weak blow, gradually increased to an 8-1/2" blow after 60 min.

Recovery (pipe) 527' of water - $R_w = 2.04 @ 90^\circ F = 2200 \text{ ppm}$

Recovery (sample chamber)

1850 cc water

Pressures

	Field	Office
Initial Flow #1	35 psi	24 psi
Final Flow #1	123 psi	123 psi
Initial Flow #2	159 psi	153 psi
Final Flow #2	212 psi	240 psi
Initial shut in	318 psi	315 psi
Final shut in	318 psi	315 psi
Initial hydrostatic	2450 psi	2436 psi
Final hydrostatic	2400 psi	2400 psi

Pressure below bottom packer bled to 858 psi.

Bottom hole temperature 141 °F.

Liberty Testers engineer - Derell Suter

Test Successful