



WELL SUMMARY

The Skaer Enterprise #4 North Minto J Sand Unit well was spudded in on July 21, 1989. The well was drilled without problem to a total depth of 5019' (-832').

The #4 North Minto J Sand Unit was drilled in an attempt to extend J1 Channel Sand production in Minto Field to the Northwest. There were no other objectives; however, both the D and J2 Sands were examined for potential.

The J1 Sand was topped at 4931' (-744'), 57' low to the #1 Armstrong. Extremely weak to mostly nonexistent sample shows were observed in the J1 Sand. Electric logs indicated tight shaley sand with a maximum of 8 ohms resistivity in the correlative interval to that which produces in the Armstrong and Whitier Wells.

There were no sample shows observed in D or Lower J Sands. Electric logs of these zones calculate nonproductive.

Based upon the poor sand development, lack of show and low structural position in the J1 Sand, the well was plugged and abandoned the night of July 24, 1989.

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WELL RESUME

OPERATOR: Skaer Enterprise, Inc.

WELL NAME: North Minto J Sand Unit #4

LOCATION: 1930' FSI, 1930' FEL (NWSE)
Section 23-T9N-R54W
Logan County, Colorado

ELEVATION: 4177' GL, 4187' KB

SPUD DATE: July 21, 1989, 1800 hrs

RIG RELEASE: July 25, 1989, 300 hrs

DRILLING CONTRACTOR: Gear Drilling Co. - Rig #3

TOOLPUSHER: John Eaglin

GEOLOGIST: Michael J. Fuchs

HOLE SIZE: 12 1/4 inch to 100 feet; 7 7/8 inch to 5019 feet

CASING: 8 5/8 inch to 99 feet

DRILLING FLUID: Gel/Chem

MUD COMPANY: Diamond Drilling Fluids

MUD ENGINEER: Mack Steen

MUDLOGGING: None

CORES: None

DRILL STEM TESTS: None

SAMPLE PROGRAM: 30 Foot Intervals from 3900' to 4780'
10 Foot Intervals from 4780' to TD

LOGGING PROGRAM: Great Guns, DIL, SFE, FDC, CAL, GR

TOTAL DEPTH: 5021 Driller, 5019 Great Guns

WELL STATUS: Plugged and Abandoned

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MUD RECORD

7-23-89 4879' 9.2 wt 47 vis 7.8 Ph, 5.7 Filt

BIT RECORD

#	Make	Size	Type	Jets	Serial #	Out	Ftg	Hours
1	Smith	7 7/8	DTJ	13-13-14	ME7492	4160'	4060'	24 1/4
2	Hughes	7 7/8	R-2	14-14-14	DJOHW	4930'	770'	13 3/4
3	Hughes	7 7/8	J-22	13-13-13	RR	5021'	91'	5 3/4

FORMATION TOPS

Niobrara	3992' (+195')
Fort Hays	4310' (-123')
Codell	4359' (-172')
X Bentonite	4726' (-539')
D Sand	4826' (-639')
J Silt	4909' (-722')
J1 Sand	4931' (-744')
J2 Sand	4960' (-773')
J3 Sand	4978' (-791')
TD	5019' (-832')

All tops are E-log tops from a KB of 4187'.

DEVIATION RECORD

Depth	Drift
549'	1/2
1017'	3/4
1541'	1
2012'	3/4
2514'	1/2
3011'	3/4
3539'	1
3973'	1 1/2
4931'	1 1/4
5021	1 1/4

North Minto J Sand Unit - Bollish #4

Logan County, CO - NW SE 23-9N-53W - Gear Drilling Rig #3

July 21, 1989 - Spud @ 6:00 PM - drilled 100' of 12 $\frac{1}{4}$ " surface hole.
Ran 89' (2 jts.) 8 5/8", 24# casing set @99' KB w/
60 sx reg. +3% cc. Plug down @ 8:00 PM, drilled out
@ 11:30 PM.

July 22, 1989 - 1730' - drilling.
Sur. $\frac{1}{2}$ ° - 549'
" 3/4° - 1017'
" 1° - 1541'

July 23, 1989 - On bottom tripping for Bit #2 @4160'.
Sur. 3/4° - 2012'
" $\frac{1}{2}$ ° - 2514'
" 3/4° - 3011'
" 1! - 3539'
" $\frac{1}{2}$ ° - 3973'
Vis. 32
Mud # 8.9

July 24, 1989 -4950' - drilling - Tripped for Bit #3 @4930' - #2 Bit made
770' in 13 3/4 hrs.
Sur. 1 $\frac{1}{4}$ ° - 4930'
Vis. 46
Mud #9.3
P.H. 8.0
W.L. 5.7

5021' T.D. - Ran: DIL, SFL, FDC Gamma
Logger's T.D. 5019'
Plugged and abandoned.

50 sacks of cement 4850' to 5021', 35 sacks across base of
surface, 5 sacks top of surface - cut casing 4' below surface.
Weld on steel cap top of surface.

Release rig @3:00 AM, 7-25-89.

SAMPLE SHOWS

J SILT

4910' - 4930' Siltstone, brown-black, firm-brittle, platy-irregular, black carbonaceous flecks in part, noncalcitic, no fluorescence, very slow diffuse milky residual ring cut. Pyritic.

J1 SAND

4940' - 4948' Sandstone, clear, medium-course floating grains, probably very poorly cemented and clayfilled in matrix, no stain, no fluorescence, very faint residual ring cut.