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1/8/2007



**Petroleum Development Corporation**  
 National Hog Farm 44-21  
 SESE Sec.21-T5N-R63W  
 Weld County, CO

Current Wellbore Schematic - NOT TO SCALE!!!

10/19/2005

API#: 05-123-21185



GL Elevation: 4570'

KB Elevation: 4582'

## Surface Casing:

8 5/8" 24#, 422' KB.

## Production Casing:

4 1/2" 10.5#, 8 RD, M-65.

## Longstring Cement:

20 sx, Class G, 15.8#

190 sx, Prem Lite Cement, 10.5#

280 sx, Class G, 15.8#

0

## Top of Cement:

3080', partial bond to  
1800'

## Current Tubing In Hole:

Landed at 6512'

2 3/8" 4.7#.

0

## Perforations:

Old:

Dakota: 7254-7260', 3 spf. 0.34" holes.

Dakota Plugged: CIBP @ 7200'

J-Sand: 6976, 6980, 7004, 7012, (24 total)

J-Sand Plugged: CIBP set @ 6840'

0

New:

Codell: 6522-6528' (2 spf).

Niob "B": 6372-6378' (1 spf).

0

0

Niob B

Codell

J-Sand

CIBP @ 7200'

CIBP set @ 6840'

Dakota

PBSD: 7378'

Casing TD: 7402' KB

## NOTES

Lay down production tbg. Clean out to 6900' with 3 7/8" blade bit & 4 1/2" scraper. RIH with wireline set CIBP, set CIBP @ 6840', dump a sack of cement on CIBP. Pressure test casing for 15 minutes. RIH with wireline & perforate Codell and perforate Niobrara "B" bench (deep penetrating charges). Frac with BJ Services Vistar 20# fluid system, Codell/Niobrara limited entry, 334000 lbs of 20/40 white sand & 16000 lbs of Super LC resin coat sand, acid/balls for Niobrara breakdown, 36 bpm. 5000 psi max psi. Frac via casing.

Frac'd Codell/Niobrara Recomplete w/ 152,989 gals Vistar 20# gel, 335,220# 20/40 white sand & 16,000# Super LC 20/40 resin coated prop