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			o. Haddicite statements o	. representations	, as to ally illa	aci wiani its julis				

District I PO Bax 1980, Hobbs, NM 88241-1980

District II PO Drawer DD, Artesia, NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088 Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office

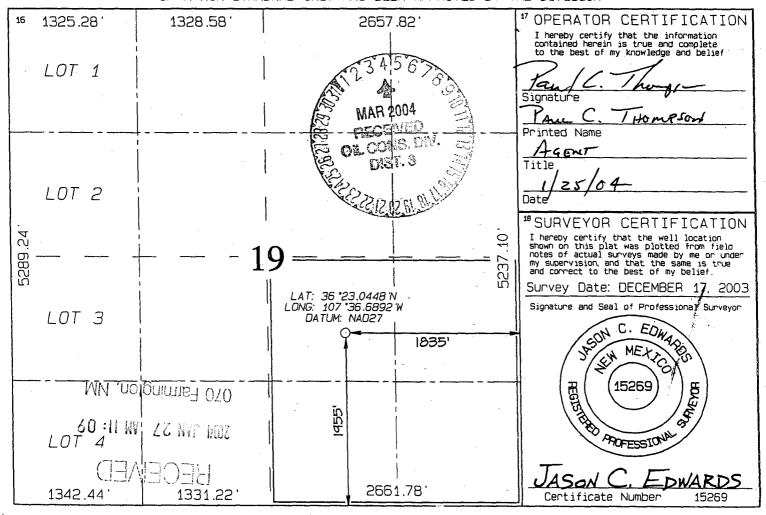
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AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

'API Number				Pool Code	9	³Pool Name					
30-039-27590 71439					BALLARD PICTURED CLIFFS						
'Property Code				Property Name				*Well Number			
l				NORDHAUS FEDERAL				8			
'OGRID N	lo.				*Operator	Operator Name				*Elevation	
9338	·	GREAT W				STERN DRILLING			6523		
¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	the East/West line County			
J	19	25N	7W		1955	SOUTH	1835	EAST RIO ARRIBA		ARRIBA	
¹¹ Bottom Hole Location If Different From Surface											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/Wes	st line	County	
12 Dedicated Acres 15 Joint or Infill 14 Consolidation Code 15 Order No.											
Y											
NO ALLOWARIE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED											

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



GREAT WESTERN DRILLING CO. OPERATIONS PLAN Nordhaus Federal #8

Date: January 23, 2004

Elev: GL 6523'

I. Location: 1955' FSL & 1835' FEL

Sec 19 T25N R7W San Juan County, NM

Field: Ballard Pictured Cliffs

Surface: BLM

Minerals: SF - 078477

II. Geology: Surface formation _ Nacimiento

Α.	Formation Tops	Depths
	Ojo Alamo	1415'
	Kirtland	1575 ′
	Pictured Cliffs	2165
	Total Depth	2365'

Estimated depths of anticipated water, oil, gas, and other mineral bearing formations which are expected to be encountered:

Water and gas - 2165'.

- B. Logging Program: Induction/GR and neutron/density logs at TD.
- C. No over pressured zones are expected in this well. No H_2S zones will be penetrated in this well. Max. BHP = 500 psig.

III. Drilling

- A. Contractor:
- B. Mud Program:

The surface hole will be drilled with a fresh water mud.

The production hole will be drilled with a fresh water polymer mud. The weighting material will be drill solids or if conditions dictate, barite. The maximum mud weight expected is 8.5 ppg.

C. Minimum Blowout Control Specifications:

Double ram type or annular type 2000 psi working pressure BOP with a rotating head. See the attached exhibits (#1 and #2) for details on the BOP equipment. All ram type preventers and related equipment will be hydraulically tested at nipple-up and after any use under pressure to 1000 psi.

Nordhaus Federal #8 Operations Plan Po #2

C. Cont.

The blind rams will be hydraulically activated and checked for operational readiness each time pipe is pulled out of the hole. All checks of the BOP stack and equipment will be noted on the daily drilling report. The BOP equipment will include a kelly cock, floor safety valve, and choke manifold all rated to 2000 psi.

IV. Materials

A. Casing Program:

Hole Size	Depth	Casing Size	Wt. & Grade
8-3/4"	120'	7"	20# K-55
6-1/4"	2365′	4-1/2"	10.5# K-55

- B. Float Equipment:
- a) Surface Casing: None
- b) Production Casing: 4-1/2" cement guide shoe and self fill insert float collar. Place float one joint above shoe. Five centralizers spaced every other joint above shoe and five turbolizers every other joint from the top of the well.

V. Cementing:

Surface casing: 7" - Use 30 sx (36 cu. ft.) of Cl "B" with 2% CaCl₂ (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG). 100% excess to circulate cement to surface. WOC 12 hours. Pressure test surface casing to 600 psi for 30 min.

Production Casing: 4-1/2" - Before cementing circulate hole with at least 1-1/2 hole volumes of mud. Precede cement with 30 bbls of fresh water. Lead with $180 \, \mathrm{sx}$ (371 cu.ft) of Cl "B" with 2% SMS, $\frac{1}{4}$ */sk. celloflake. (Yield = 2.06 cu.ft./sk; slurry weight = 12.5 PPG). Tail with 100 sx (118 cu.ft.) of Cl "B" with 2% CaCl₂, and $\frac{1}{4}$ */sk. celloflake/sk. (Yield = 1.18 cu. ft./sk; slurry weight = 15.6 PPG) Total cement volume is 489 cu.ft. (100% excess to circulate cement to surface).

Paul C. Thompson, P.E.