UNITED STATES DEPARTMENT OF THE INTERIOR

Porm approved.
Budget Bureau No.1004-0136
Expires: December 31, 1991

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District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brutos Rd., Aztec, NM 87410 Dhirict IV

PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico Energy, Minerals & Natural Resources Department

RECEIVED Revised February 21, 1994

Form C-102

OIL CONSERVATION DIVISIONE M Malinia to Appropriate District Office State Lease - 4 Copies
55 OCT - 3 PM 1: 39 Fee Lease - 1 Copies PO Box 2088 Santa Fe, NM 87504-2088

070 FAMILIATION, MMMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

AM Numi	API Number ' Pool Code		Pool Name	
30-045-2	10189	72319	Blanco Mesaverde	
'Property Code		IBERG GAS COM	Property Name	* Well Number # 1 R
'OGRID No. 000778	AMOC	CO PRODUCTION	Operator Name COMPANY	Flevation 6043

10 Curface Location

					10 Surface	Location			
UL or lot no. Lot 1	Section 28	Township 32 N	Range 10 W	Lot Idn	Feet from the 960	North/South line NORTH	feet from the 1710	EAST EAST	SAN JUAN
	<u> </u>	<u> </u>	11 Bot	tom Hol	e Location I	f Different Fro	om Surface		
UL, or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	20	32N	10W		1847	North	823	East	San Juan
12 Dedleated Acr	= "Joint		i <u>IUW</u> Consolidatio	n Code 11 (Order No.	<u> </u>			
319.51				1					

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

OK A 11011-31 A	DARD ON THO B		
16	1327, C9'	327.59	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief
		1817' Bottom Hak Location To	Patty Haefele Patty Haefele Printed Name Staff Assistant Title
<u>peceiven</u>	28	Bily au 10/02/95	10/2/95 Date **SURVEYOR CERTIFICATION**
001 3 0 1995 0014 (1014). DIV. 01871. &		!	I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. September 7, 1995 Date of Survey
			Signature and Sol of Professional Approver: MEXICO MEXICO TO 16 Certificate Number POFFS 8 10 M

FINAL COPY (REVISED)

AMOCO PRODUCTION COMPANY DRILLING AND COMPLETION PROGRAM

For Exploration Dept.

Lease: County:

St.John/TerBest/bilyet Form 46 7-84bw

Homberg Gas Unit Com

San Juan, New Mexico

Well No.

#1-mR

Location:

NE Section 28, T32N, R10W

SPECIAL SURVEYS TYPE DEPTH Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee A REMARKS:	(B	10 CAL MARKER 6041 Msd.Depth (ft.) 1,534 1,654 2,529 2,854 3,000 4,850 5,077 5,697	6054 SS Elev. (ft.) 4,520 4400 3,525 3,200 3,054 1,327
METHOD OF DRILLING TYPE OF TOOLS Rotary 0 - TD DEPTH OF DRILLING O- TD Actual GL—Estimated K Marker True V Ojo Alarno Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Actual GL—Estimated K Marker True V Ojo Alarno Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Actual GL—Estimated K Marker True V Ojo Alarno Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Actual GL—Estimated K Marker True V Ojo Alarno Kirtland Fruitland* Pictured Cliffs* Lewis Shale Cliff House* Menefee Actual GL—Estimated K Marker True V Ojo Alarno Kirtland Fruitland*	(B fert Depth 4,727 4,818 5,255	6041 Msd.Depth (ft.) 1,534 1,654 2,529 2,854 3,000 4,850 5,077	SS Elev. (ft.) 4,520 4400 3,525 3,200 3,054
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For Production Dep

9/21/55

August 31, 1995 Revised--9/6/95 Revised--10/02/95 (cement)

Holmberg Gas Unit #1-A Replacement/horizontal well NE/4 Section 28, T32N, R10W San Juan County, New Mexico DRILLING PROCEDURE

This well will be a replacement high angle well designed to intersect the fracture system in the middle of the Cliff House at approximately 700' Southeast of the surface location. The well's design is set up to utilize the 4.750" air drill motors that have proven highly reliable in the last three horizontal wells drilled in 1994.

- 1. Stake and clear location 60' directly South or Southeast of the plugged and abandoned original Holmberg Gas Unit #1. This should minimize the archeological and road/location building expense.
- 2. MIRURT (Aztec Rig #124) complete with air package, dual double ram preventers and cavitation blooie lines.
- 3. Drill 12.250" hole to 200', run and cement 9.625" 36 #/ft, J-55, ST & C casing back to surface with 150 sacks of type "B" containing 2 % CaCl (1.15 cubic feet per sack). Displace casing with clear water. Screw on casing head and 28" rental 11" x 3,000 psi spool. NUBOE and test to 2,000 psi. Drill 8.750" hole to 3,250' (150' into Lewis Shale) using fresh water to top of the Fruitland at 2,500' and LSND 8.8 ppg, 10.0 cc WL mud to total intermediate depth. Condition hole for casing, lay down the 4.500' drill string and run 7.000" 20.0 #/ft, J-55, LT & C casing. Flush with 20 bbls of water and cement with 600 sx (50% excess) of 50:50 Poxmix containing 0.4 % Halad 344, 2 % gel, 6 % salt and 0.25 #/sx flocele (1.40 cubic feet per sack). Mix and pump at 13.5 ppg and displace with fresh water. NU casing spool and BOE, test to 2,000 psi. Run gyro survey and pick up monel nonmagnetic collars while WOC.
- 4. Rig up air equipment, pick up 6.125" Smith F-57 DDP (fully diamond enhanced) on 3.500" drill string and drill vertically with dry air to KOP, estimated at 3,600' measured depth. Take surveys with singleshot to KOP; trip out, pick up a 4.750" air motor and steering equipment and begin drilling curve at 5 degrees per 100' at a 145 degree azimuth.
- 5. Build curve to 45 degrees at which time, the bottom hole location should be 4,410' TVD, 4,500' MD and 336' to the Southeast of the surface location. Trip out, lay down the directional equipment and pick up a stabilized rotating bottom hole assembly which should allow rotating ahead at the 45 degree angle. Maintain angle and azimuth to the intersection of the Cliff House at 4,775' TVD with approximately 700' of displacement. Should a major fracture be intersected, a decision may be made to curtail any further drilling, otherwise continue drilling at the same angle and azimuth through the Point Lookout to a TVD of 5,330'. At that point, the bottom hole location should be at 5,800' MD with 1,255' of lateral displacement. Run logs as required.

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BLM MAIL ROOM
95 OCT -3 AH II: 07
070 FARMINGTON NIM

page 2 Holmberg Gas Unit #1 Drilling Procedure

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BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE

- 6. Clean up hole and trip out laying down the drilling assembly. Run 4.500" 11.6#/ft, N-80, LTC casing to TD. Cement back into the 5.500' intermediate casing at 3,000'. Utilize 20 bbls water ahead followed by 150 sx of 50:50 Pozmix containing .4 % Halad 344, 2 % gel and 6% salt (50% excess-1.35 cubic feet/sack). Mix and pump the cement at 13.70 to 13.90 ppg, displace with clear water. Should a major fracture be encountered, install one or more ECP's in place to protect it from the cement.
- 7. Determine best method of completion; dependent on fractures encountered, stimulation required and cement inside the 4.500" casing. Should extensive work be required, attempt to perform rigless. Run 2.375" tubing to +/- 5,740'.
- 8. RDMORT.

brad





