

NAOCU

District I
PO Box 1780, Hobbs NM 88241-1980
District II
PO Drawer KK, Artesia, NM 87211-0719
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
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-30937		Pool Code 71599 F 72319	Pool Name BASIN DAKOTA	BLANCO MESAVEDE
Property Code 000702	Property Name Hughes B			Well Number # 2B
OGRID No. 000778	Operator Name AMOCO PRODUCTION COMPANY			Elevation 6480

10 Surface Location

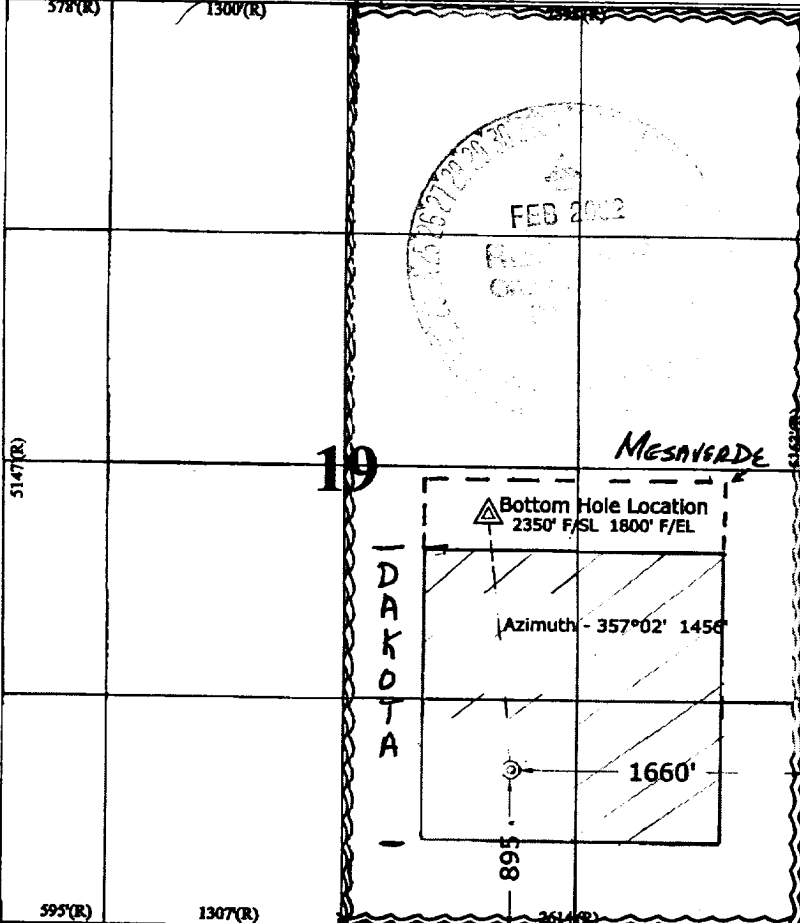
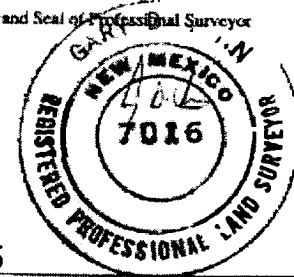
UL or Lot No. O	Section 19	Township 29 N	Range 8 W	Lot Idn	Feet from the 895	North/South line SOUTH	Feet from the 1660	East/West line EAST	County SAN JUAN
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11 Bottom Hole Location If Different From Surface

UL or lot no. J	Section 19	Township 29 N	Range 8 W	Lot Idn	Feet from the 2350	North/South line SOUTH	Feet from the 1800	East/West line EAST	County SAN JUAN
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Dedicated Acres DK 309 MV 320	Joint or Infill	Consolidation Code	Order No.
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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

16		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <i>Mary Corley</i> Signature MARY CORLEY Printed Name SR. Regulatory Specialist Title 11.29.2001 Date
		18 SURVEYOR CERTIFICATION 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. November 6, 2001 Date of Survey Signature and Seal of Professional Surveyor  7016 Certificate Number

(R) - BLM Record



**AMOCC PRODUCTION COMPANY
DRILLING AND COMPLETION PROGRAM**

Prospect Name: Hughes B
Lease: HUGHES B
County: San Juan
State: New Mexico
Date: November 29, 2001

Well No: 2B
Surface Location: 19-29N-8W, 895 FSL, 1660 FEL
Field: Blanco Mesaverde/Basin Dakota
Bottom Hole Location: 19-29N-8W, 2350 FSL, 1800 FEL

OBJECTIVE: Drill 400' below the base of the Greenhorn Limestone, set 4 1/2" production casing, Stimulate LS, CH, MF, PL and DK intervals

METHOD OF DRILLING		APPROXIMATE DEPTHS OF GEOLOGICAL MARKER			
TYPE OF TOOLS	DEPTH OF DRILLING	Estimated GL: 6492		Estimated KB: 6506	
Rotary	0 - TD	MARKER		TVD	MEAS. DEPTH
LOG PROGRAM		Ojo Alamo		1903	2031
TYPE	DEPTH INVERAL	Fruitland Coal	*	2716	2933
OPEN HOLE		Pictured Cliffs	*	3069	3324
GR-Induction	TD to 7" shoe	Lewis Shale	#	3176	3443
Density/Neutron	TD to 7" shoe	Cliff House	#	4665	4964
		Menefee Shale	#	4823	5122
<u>CASED HOLE</u>		Point Lookout	#	5254	5553
GR-CCL-TDT	TDT - TD to 7" shoe	Mancos		5681	5980
CBL	Identify 4 1/2" cement top	Greenhorn		7274	7573
		Bentonite Marker		7338	7637
REMARKS:		Two Wells	#	7386	7685
- Please report any flares (magnitude & duration).		Dakota MB	#	7508	7807
		Burro Canyon	*	7598	7897
		Morrison	*	7738	
		TOTAL DEPTH		7724	8037
		# Probable completion interval		* Possible Pay	
SPECIAL TESTS		DRILL CUTTING SAMPLES		DRILLING TIME	
TYPE		FREQUENCY	DEPTH	FREQUENCY	DEPTH
None		10 feet	Production hole	Geolograph	0-TD
REMARKS:					

MUD PROGRAM:

Approx. Interval	Type Mud	Weight, #/ga	Vis, sec/qt	W/L cc's/30 min	Other Specification
0 - 200	Spud	8.6-9.2			
200 - 3554 (1)	Water/LSND	8.6-9.2		<6	
3554 - 8037	Gas/Air/N2/Mist	Volume sufficient to maintain a stable and clean wellbore			

REMARKS:

(1) The hole will require sweeps to keep unloaded while fresh water drilling. Let hole conditions dictate frequency.

CASING PROGRAM: (Normally, tubular goods allocation letter specifies casing sizes to be used. Hole sizes will be governed by Contract)

Casing String	Estimated Depth	Casing Size	Grade	Weight	Hole Size	Landing Pt, Cmt, Etc.
Surface/Conductor	200	9 5/8"	H-40 ST&C	32#	12.25"	1 -
Intermediate 1	3554	7"	J/K-55 ST&C	20#	8.75"	1,2 -
Production	8037	4 1/2"	J-55	11.6#	6.25"	3 -

REMARKS:

- (1) Circulate Cement to Surface
- (2) Set casing 100' into Lewis Shale
- (3) Bring cement 100' above 7" shoe

CORING PROGRAM:

None

COMPLETION PROGRAM:

Rigless, 4-6 Stage Limited Entry Hydraulic Frac

GENERAL REMARKS:

Notify BLM/NMOCD 24 hours prior to Spud, BOP testing, and Casing and Cementing.

Form 46 Reviewed by:

Logging program reviewed by: N/A

PREPARED BY:	APPROVED:	DATE:	
HGJ/MNP		26, Nov 2001	
Form 46 12-00 MNP		Version 1.0	

FEDERAL CEMENTING REQUIREMENTS

- 1. All permeable zones containing fresh water and other usable water containing 10,000 PPM or less total dissolved solids will be isolated and protected from contamination by cement circulated in place for the protection of permeable zones per the NTL-FRA 90-1 Section III A.**
- 2. The hole size will be no smaller than 1 ½" larger diameter than the casing O.D. across all water zones.**
- 3. An adequate spacer will be pumped ahead of the cement slurry to help prevent mud contamination of the cement.**
- 4. An adequate number of casing centralizers will be run through usable water zones to ensure that the casing is centralized through these zones. The adequate number of centralizers to use will be determined by API SPEC 10D.**
- 5. Centralizers will impart a swirling action around the casing and will be used just below and into the base of the lowest usable water zone.**
- 6. A chronological log will be kept recording the pump and slurry information and will be sent to the BLM with the subsequent sundry.**

Amoco Production Company

BOP Pressure Testing Requirements

Well Name: Hughes B
County: San Juan

2B
State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	1903		
Fruitland Coal	2716		
PC	3069		
Lewis Shale	3176		
Cliff House	4665	500	0
Menefee Shale	4823		
Point Lookout	5254	600	0
Mancos	5681		
Dakota	7386	2600	1350

** Note: Determined using the following formula: $ABHP - (.22 \times TVD) = ASP$

Requested BOP Pressure Test Exception: 3000 psi

SAN JUAN BASIN Dakota Formation Pressure Control Equipment

Background

The objective Dakota formation maximum surface pressure is anticipated to be less than 1000 PSI, based on shut-in surface pressures from adjacent wells. Pressure control equipment working pressure minimum requirements are therefore 2000 PSI. Equipment to be used will conform to API RP-53 (Figure 2.C.2) for a 2000 PSI system per Federal Onshore Order No. 2. Due to available conventional equipment within the area, 3000 PSI rated pressure control equipment will typically be utilized in a double ram type arrangement. Regional drilling rights to be utilized have substructure height limitations which exclude the use of annular preventers; therefore a rotating head will be installed above these rams. This pressure control equipment will be utilized for conventional drilling below conductor to total depth in the Basin Dakota. No abnormal temperature, pressure, or H₂S anticipated.

Equipment Specification

Interval

Below conductor casing to total depth

BOP Equipment

11" nominal or 7 1/16", 3000 PSI
double ram preventer with rotating
head.

All ram type preventers and related control equipment will be hydraulically tested to 250 PSI (low pressure) and 2000 PSI (high pressure), upon installation, following any repairs or equipment replacements, or at 30 day intervals. Accessories to BOP equipment will include kelly cock,

upper kelly cock with a handle available, floor safety valves and choke manifold which will also be tested to equivalent pressure.