

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-101
Revised March 17, 1999

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Submit to appropriate District Office
State Lease - 6 Copies
Fee Lease - 5 Copies

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Amoco Production Company P. O. Box 3092 Houston, Texas 77253		² OGRID Number 000778
³ Property Code 000570		⁴ API Number 3004530683
⁵ Property Name Gallegos Canyon Unit		⁶ Well No. 555

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	12	28N	12W		90	South	2465	East	San Juan

Proposed 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/West line	County
⁹ Proposed Pool 1 Basin Dakota					¹⁰ Proposed Pool 2 Kutz Pictured Cliffs, West				

¹¹ Work Type Code N - New Drill	¹² Well Type Code Gas	¹³ Cable/Rotary Rotary/Top Drive	¹⁴ Lease Type Code State	¹⁵ Ground Level Elevation 5487'
¹⁶ Multiple No	¹⁷ Proposed Depth 6250'	¹⁸ Formation Dakota/Pictured Cliffs	¹⁹ Contractor Aztec	²⁰ Spud Date 07/01/2001

Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
(1) 8 3/4"	7"	23#	320' 138'	115 SXS CLS B	Surface
(2) 6 1/2"	4 1/2"	10.5#	6250' 1450'	654 SXS CLS B	Surface

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

OBJECTIVE: Drill 100' into the Morrison, set 4 1/2" Casing to TD, Perf, Stimulate & DHC the Dakota & Pictured Cliffs. Run Cased Hole (GR-CCL-TDT) logs: TDT from PBDT. GR- CCL from PDTB to Surface.

(1) Circulate Cement to Surface

(2) Set Casing 150' below top of Pictured Cliffs.

Mud Program: 0' - 135' Type - Spud Weight 8.6 - 9.2

135' - TD' Type - Water Weight 8.6 - 9.2

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

Completion: Rigless, Single Stage Hydraulic Frac.

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature:

Printed name: **Mary Corley**

Title: **Sr. Regulatory Analyst**

Date: **05/29/2001**

Phone: **281-366-4491**

OIL CONSERVATION DIVISION

Approved by:

Title: **DEPUTY OIL & GAS INSPECTOR, DIST. III**

Approval Date: **JUN - 4 2001**

Expiration Date:

Conditions of Approval:

Attached

HOLD C-104 FOR NSL
& exception to R-10987*

JUN - 4 2001

District I
PO Box 1980 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

¹ API Number 30-045-30683	² Pool Code 715994 79680	³ Pool Name BRAIN DAKOTA / KUTZ PICTURED CLIFFS WEST
⁴ Property Code 000570	⁵ Property Name Gallegos Canyon Unit	⁶ Well Number # 555
⁷ OGRID No. 000778	⁸ Operator Name AMOCO PRODUCTION COMPANY	⁹ Elevation 5487

¹⁰ Surface Location

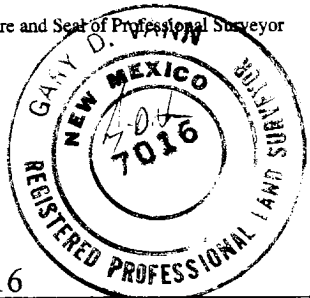
UL or Lot No. O	Section 12	Township 28 N	Range 12 W	Lot Idn	Feet from the 90	North/South line SOUTH	Feet from the 2465	East/West line EAST	County SAN JUAN
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¹¹ Bottom Hole Location If Different From Surface

⁷ UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres 337.98 DK 135.10 PC	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-1814 Tract 9
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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

<p>16</p> <p>INCLUDES ACREAGE IN SECTION 11 SEE ATTACHMENT</p> <p>DK</p> <p>PC</p> <p>Lot 4 Lot 3 Lot 2 Lot 1</p> <p>12</p> <p>90'</p> <p>2465'</p> <p>2231'(R)</p> <p>2231'(R)</p>	<p>17 OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Mary Corley</i></p> <p>Signature</p> <p>MARY CORLEY</p> <p>Printed Name</p> <p>SR Regulatory Analyst</p> <p>Title</p> <p>05-28-2001</p> <p>Date</p>
	<p>18 SURVEYOR CERTIFICATION</p> <p>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.</p> <p>May 18, 2001</p> <p>Date of Survey</p> <p>Signature and Seal of Professional Surveyor</p> <p></p> <p>7016</p> <p>Certificate Number</p>

Amoco Production Company BOP Pressure Testing Requirements

Well Name: GCU 555
County: San Juan

555
State: New Mexico

Formation	TVD	Anticipated Bottom Hole Pressure	Maximum Anticipated Surface Pressure **
Ojo Alamo	134		
Kirtland	336		
Fruitland Coal	1177		
PC	1432	150	
Cliff House	2966	1000	347
Menefee Shale	3094		
Point Lookout	3853	1400	848
Gallup	5056		
Dakota	5920	700	

** 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

BOP Equipment

Below conductor casing to total depth	11" nominal or 7 1/16", 3000 psi double ram preventer with rotating head.
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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.

Exhibit "A"

**Spacing Unit Dedication for the GCU #201 Dakota Well 9/22/65
T28N-12W, N.M.P.M.**

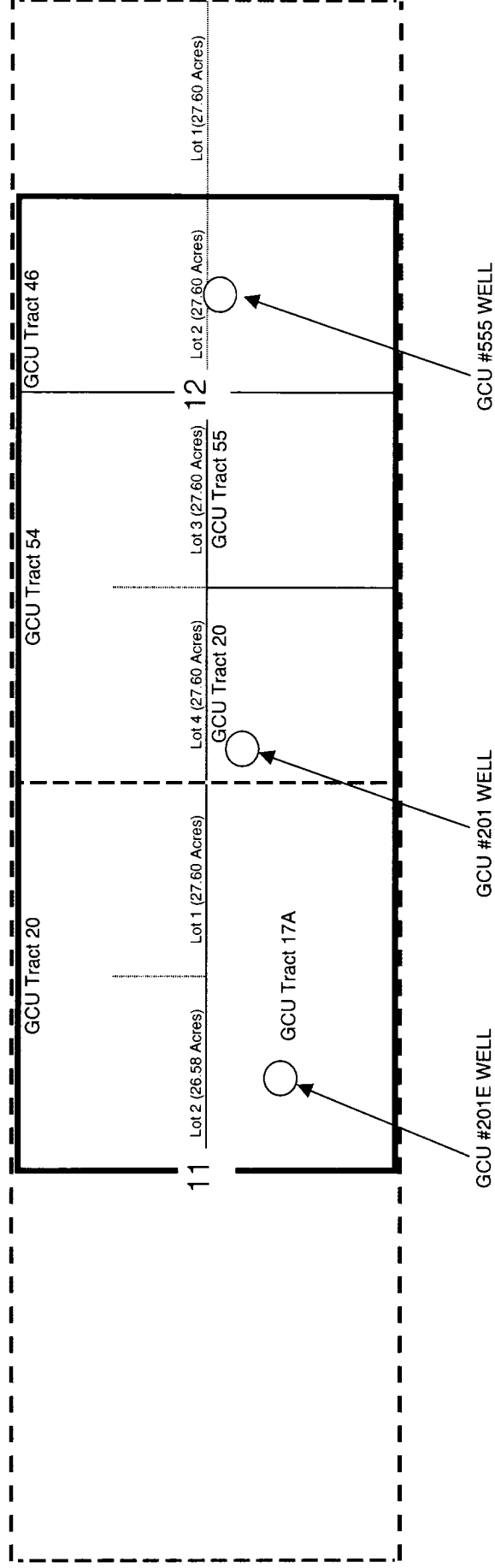
Section 11: Lots 1, 2, S/2SE/4

Section 12: Lots 2, 3, 4, SW/4SE/4, S/2SW/4

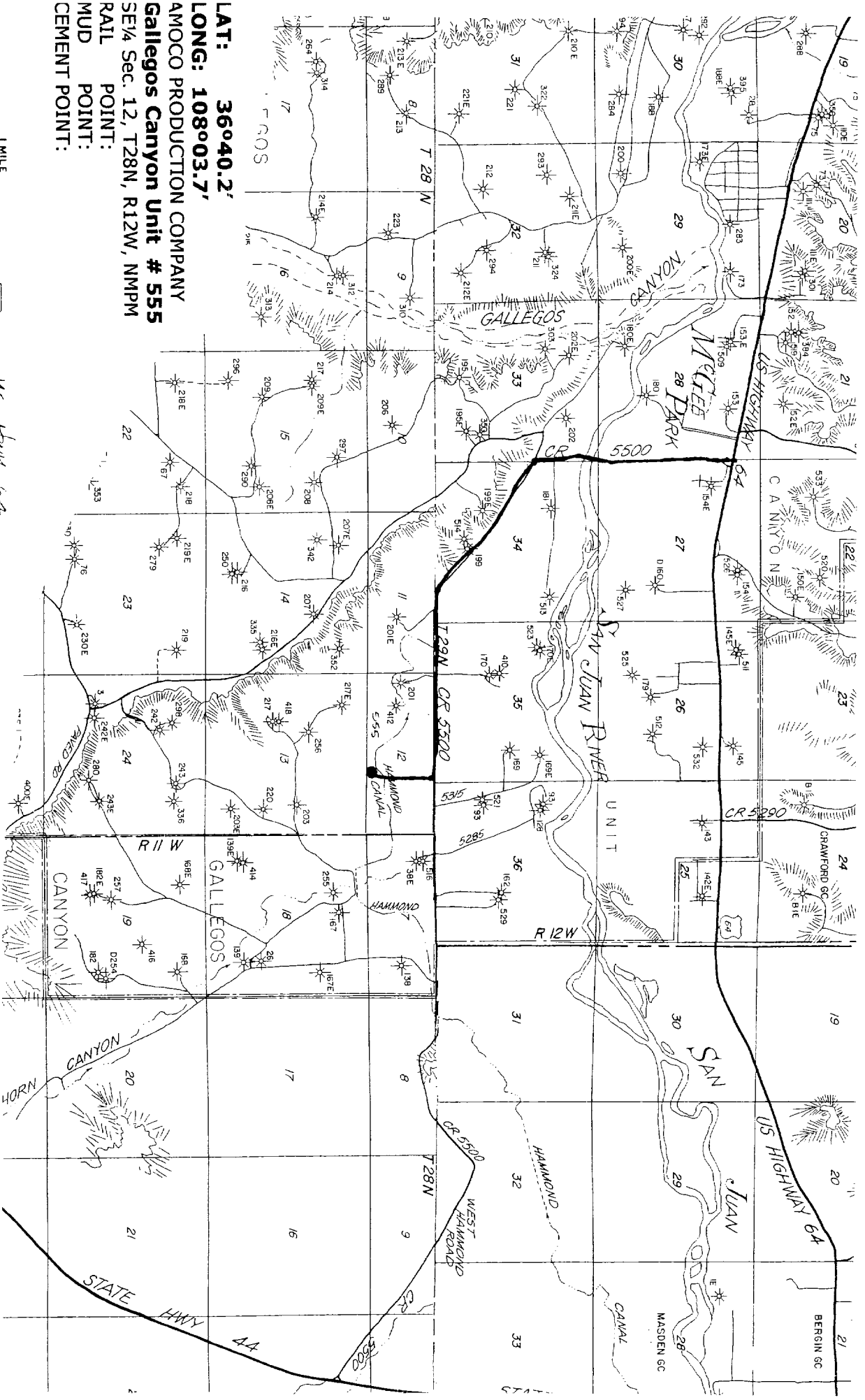
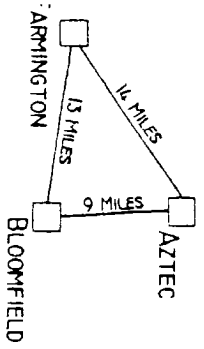
San Juan County, New Mexico

**Containing 337.98 Acres, more or less
As to Gas and Associated Liquid Hydrocarbons**

Dakota Formation



LAT: 36°40.2'
 LONG: 108°03.7'
 AMOCO PRODUCTION COMPANY
Gallegos Canyon Unit # 555
 SE 1/4 Sec. 12, T28N, R12W, NMPM
 RAIL POINT:
 MUD POINT:
 CEMENT POINT:



Farmington
 US Hwy 64
 McCoe Park

CR 5500
3.4 miles

Bloomfield