

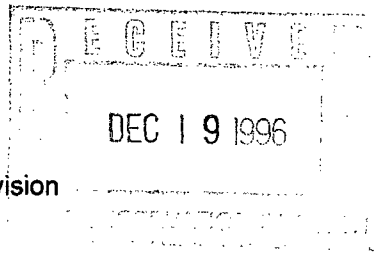
**BURLINGTON
RESOURCES**

1465

SAN JUAN DIVISION

December 16, 1996

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505



Re: San Juan 28-6 Unit #116
990'FNL, 1650'FWL Section 33, T-28-N, R-06-W, Rio Arriba County, NM
API #30-039-not assigned

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and Basin Dakota pools in the subject well. This well was originally drilled as a Dakota, and the Mesa Verde is being added.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company is submitting the following for your approval of this commingling:

1. Form C107A - Application for Downhole Commingling;
2. C-102 plat for each zone showing its spacing unit and acreage dedication;
3. Notification list of offset operators - Burlington is the operator of the unit;
4. Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
5. Nine-section plats for the Mesa Verde and Dakota.

Notification of Mesa Verde and Dakota interest owners is covered under Order R-10696 dated November 12, 1996.

As we discussed, we would like to amend our allocation method to a method approved by the District Office of the New Mexico Oil Conservation Division. This will afford us greater flexibility in determining the most accurate allocation formula.

Please let me know if you require additional data.

Sincerely,

Peggy Bradfield
Regulatory/Compliance Administrator

District I
PO Box 1988, Hobbs, NM 88241-1988
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

RECEIVED
OIL NOV 12 PM 2:23

Form C-10
Revised February 21, 199
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 30-039-07266	Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7462	Property Name San Juan 28-6 Unit	Well Number 116
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6597'

10 Surface Location

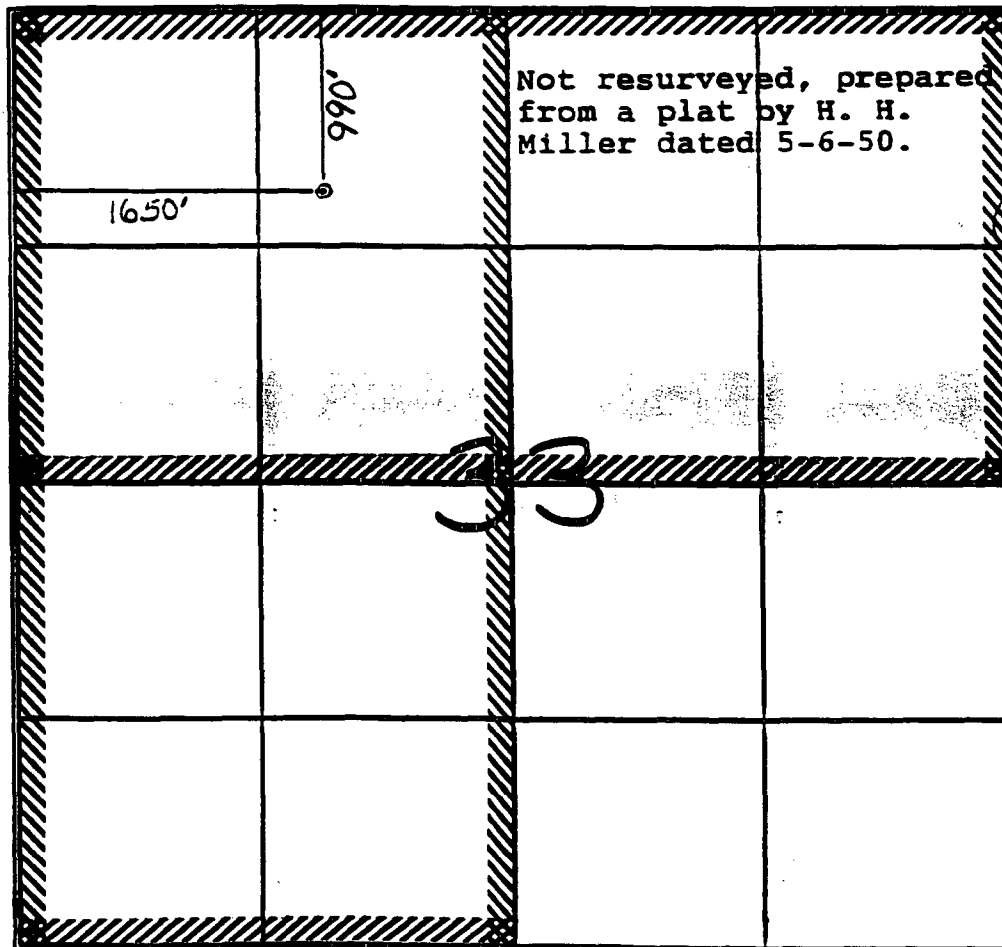
UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
C	33	28-N	6-W		990	North	1650	West	R.A.

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres 14-W/325.59 DK-N/320	13 Joint or Infill	14 Commencement Code	15 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



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Signature
Peggy Bradfield
Printed Name
Regulatory Administrator
Title
11-12-96
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.

11/08/96

Date of Survey
Signature and Seal of Professional Surveyor
NEALE G. EDWARDS
NEW MEXICO
6287
Certificate Number

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980
DISTRICT II
811 South First St., Artesia, NM 88210-2835
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410-1693

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

Form C-107-A
New 3-12-96
APPROVAL PROCESS :
☒ Administrative ☐ Hearing
EXISTING WELLBORE
☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES PO BOX 4289 FARMINGTON, NM 87499
Operator Address

SAN JUAN 28-6 UNIT 116 C-33 -28N-6W RIO ARRIBA
Lease Well No. Unit Ltr. - Sec - Twp - Rge County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 014538 Property Code 7462 API NO. 30-039-07266 Federal ☒ , State , (and/or) Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	BLANCO MESAVERDE - 72319		BASIN DAKOTA - 71599
2. Top and Bottom of Pay Section (Perforations)	PROPOSED - 5025-5715'		7643-7868'
3. Type of production (Oil or Gas)	GAS		GAS
4. Method of Production (Flowing or Artificial Lift)	FLOWING		FLOWING
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 968 psi (see attachment)	a.	a. 1271 psi (see attachment)
	(Original) b. 1282 psi (see attachment)	b.	b. 2839 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1228		BTU 1110
7. Producing or Shut-In?	SHUT - IN		PRODUCING
Production Marginal? (yes or no)	NO		YES
* If Shut-In and oil/gas/water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data * If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION	Oil: % Gas: % WILL BE SUPPLIED UPON COMPLETION

9. If allocation formula is based upon something other than current or past production, or is based upon some other method, submit attachments with supporting data and/or explaining method and providing rate projections or other required data.
10. Are all working, overriding, and royalty interests identical in all commingled zones? ☐ Yes ☒ No
If not, have all working, overriding, and royalty interests been notified by certified mail? ☐ Yes ☒ No
Have all offset operators been given written notice of the proposed downhole commingling? ☐ Yes ☒ No
11. Will cross-flow occur? ☒ Yes ☐ No If yes, are fluids compatible, will the formations not be damaged, will any cross-flowed production be recovered, and will the allocation formula be reliable. ☒ Yes ☐ No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? ☒ Yes ☐ No
13. Will the value of production be decreased by commingling? ☐ Yes ☒ No (If Yes, attach explanation)
14. If this well is on, or communitized with, state or federal lands, either the Commissioner of Public Lands or the United States Bureau of Land Management has been notified in writing of this application. ☒ Yes ☐ No
15. NMOC Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). R-10696
16. ATTACHMENTS:
* C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
* Production curve for each zone for at least one year. (If not available, attach explanation.)
* For zones with no production history, estimated production rates and supporting data.
* Data to support allocation method or formula.
* Notification list of all offset operators.
* Notification list of working, overriding, and royalty interests for uncommon interest cases.
* Any additional statements, data, or documents required to support commingling.

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

SIGNATURE Peggy Bradfield TITLE Regulatory Administrator DATE 12-17-96

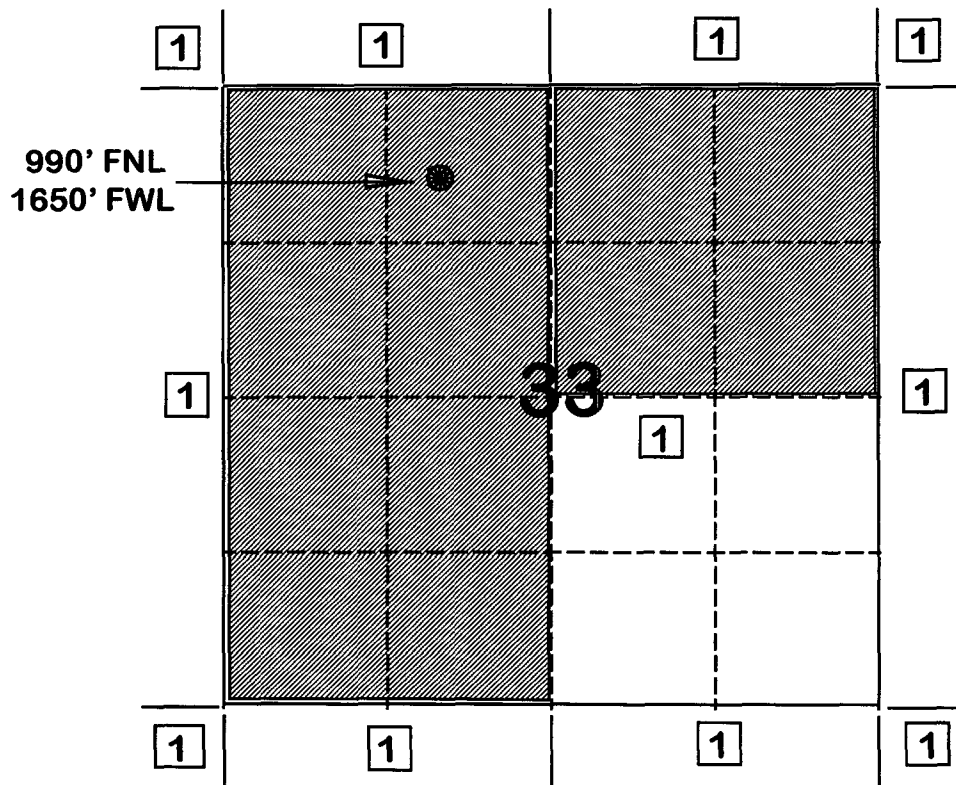
TYPE OR PRINT NAME Peggy Bradfield TELEPHONE NO. (505) 326-9700

BURLINGTON RESOURCES OIL AND GAS COMPANY

**San Juan 28-6 Unit #116
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde (W/2)/Dakota (N/2) Formations Commingle Well

Township 28 North, Range 6 West



1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	C
%N2	0.25
%CO2	0.73
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	4996
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	842
BOTTOMHOLE PRESSURE (PSIA)	968.4

SAN JUAN 28-6 #32 MESAVERDE - (CURRENT)

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	C
%N2	0.25
%CO2	0.73
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	4996
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1107
BOTTOMHOLE PRESSURE (PSIA)	1281.9

SAN JUAN 28-6 UNIT #32 MESAVERDE - ORIGINAL

Page No.: 1

Print Time: Tue Oct 15 16:04:04 1996

Property ID: 10536

Property Name: SAN JUAN 28-6 UNIT | 32 | 49296A-1

Table Name: K:\ARIES\RR97PDP\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP
Mcf Psi

09/13/55	0	1107.0	← original
12/07/55	7000	881.0	
08/24/56	21000	1003.0	
10/30/57	36000	1059.0	
11/06/58	46000	784.0	
06/14/59	56000	697.0	
06/14/60	71000	703.0	
06/13/61	81000	742.0	
05/29/62	93000	783.0	
08/12/63	116000	681.0	
05/26/64	130000	663.0	
03/08/65	144000	666.0	
04/12/66	164000	612.0	
03/22/67	180000	654.0	
04/01/68	193000	713.0	
05/25/70	229886	542.0	
08/16/71	252118	498.0	
05/22/72	263990	542.0	
11/30/81	397566	623.0	
04/07/86	451460	617.0	
10/21/91	507844	750.0	
06/25/95	543071	842.0	← current

Mesa Verde
Parent well

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.649
COND. OR MISC. (C/M)	C
%N2	0.21
%CO2	1.13
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7557
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1062
BOTTOMHOLE PRESSURE (PSIA)	1271.4

SAN JUAN 28-6 UNIT #116 DAKOTA-CURRENT

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**

VERSION 1.0 3/13/94

GAS GRAVITY	0.649
COND. OR MISC. (C/M)	C
%N2	0.21
%CO2	1.13
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7557
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	2344
BOTTOMHOLE PRESSURE (PSIA)	2838.8

SAN JUAN 28-6 UNIT #116 DAKOTA-ORIGINAL

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Print Time: Tue Oct 15 15:52:58 1996

Property ID: 1834

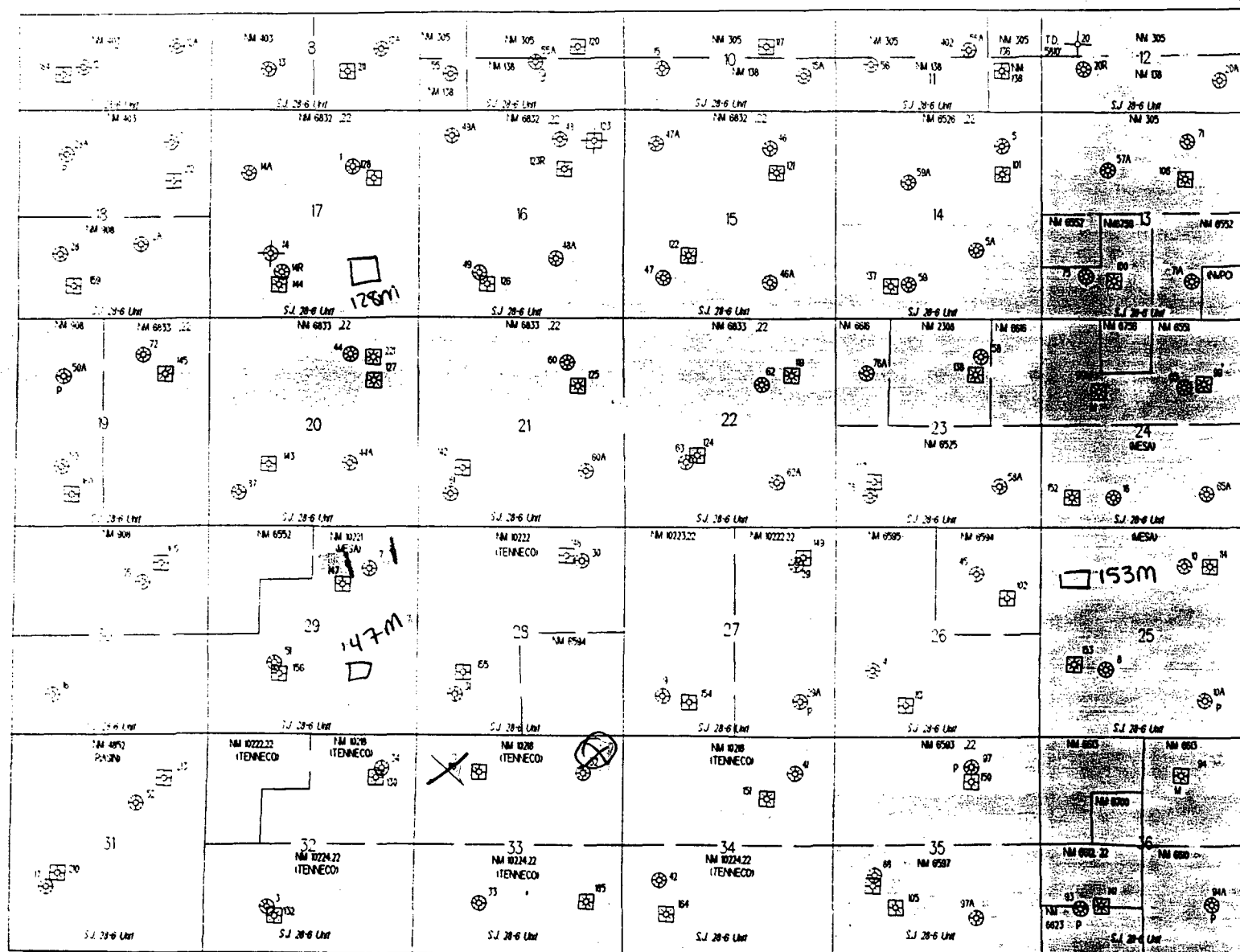
Property Name: SAN JUAN 28-6 UNIT | 116 | 51503A-1

Table Name: K:\ARIES\RR97PDP\TEST.DBF

--DATE-- ---CUM GAS-- M SIWHP
Mcf Psi

04/13/63	0	2344.0	← original
06/03/63	0	2319.0	
10/10/65	131000	1888.0	
04/12/66	221000	1712.0	
03/22/67	438000	1349.0	
04/01/68	635000	1199.0	
08/18/69	886880	1065.0	
05/25/70	1004577	983.0	
05/04/71	1150546	947.0	
05/22/72	1280057	877.0	
08/21/73	1395984	954.0	
06/24/75	1562550	737.0	
08/08/77	1721157	823.0	
04/24/79	1812014	902.0	
09/29/81	1932574	850.0	
09/22/83	2008556	1005.0	
06/07/85	2066901	1026.0	
06/29/90	2196606	982.0	
05/28/92	2231803	1062.0	← Current

Sakota
Existing Wellbore



SAN JUAN 28-6 UNIT

X- DK well to be recomplected to MV
 ⊗ MV Offset