

DHC 10/21/96
1389

BURLINGTON RESOURCES

SAN JUAN DIVISION

September 30, 1996

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

RECEIVED

OCT 1 1996

Oil Conservation Division

Re: San Juan 32-9 Unit #3
1190'FNL, 820'FEL Section 1, T-31-N, R-10-W, San Juan County, NM
API #30-045-11083

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Pictured Cliffs and Blanco Mesa Verde pools in the subject well. This is currently a Mesa Verde well; it is planned to add the Pictured Cliffs.

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. Production curve for the Mesa Verde for at least one year;
4. Notification list of offset operators - Burlington is the offset operator;
5. Shut in wellhead pressure and calculated down hole pressure;
6. Nine-section plats for the Pictured Cliffs and Mesa Verde.

Notification of Pictured Cliffs and Mesa Verde interest owners is covered under Case #11601 before the New Mexico Oil Conservation Division.

The allocation formula will be based off actual flow rates from the Pictured Cliffs and Mesa Verde formations.

Please let me know if you require additional data.

Sincerely,



Peggy Bradfield
Regulatory/Compliance Administrator

encs.

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 :
__X__ Administrative
__Hearing
EXISTING WELLBORE
__X__ YES __ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator Address
San Juan 32-9 Unit 3 A-1-31N-10W San Juan

Lease Well No. Unit Ltr. - Sec - Twp - Rge County
Spacing Unit Lease Types: (check 1 or more)
OGRID NO. 14538 Property Code 7473 API NO. 30-045-11083 Federal X, 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 Pictured Cliffs - 72359		Blanco Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	Will be supplied upon completion		5390-5612'
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. 450psi (see attachment - from offset well San Juan 32-9 Unit #96) (Original) b. 797 psi (see attachment - from offset well San Juan 32-9 Unit #96)	a. b.	a. 423psi (calc - see attachment) b. 998psi (calc - see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1129		BTU 1155
7. Producing or Shut-In?	recompletion		producing
Production Marginal? (yes or no)	yes		no
* 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	Date: N/A Rates:	Date: Rates:	Date: N/A Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: rates: Will be supplied upon completion	Date: Rates:	Date: 7-96 Rates: 108 MCF/D 1.65 BOPD
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Will be supplied upon completion		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 X No
If not, have all working, overriding, and royalty interests been notified by certified mail? Yes X No
Have all offset operators been given written notice of the proposed downhole commingling? X Yes No
11. Will cross-flow occur? X 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. X Yes No (If No, attach explanation)
12. Are all produced fluids from all commingled zones compatible with each other? X Yes No
13. Will the value of production be decreased by commingling? Yes X 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. X Yes No
15. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S). Order to be issued - Case 11601
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 TITLE_Regulatory Administrator DATE 9-25-96

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

District I
PO Box 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
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-11083		Pool Code 72359/72319		Pool Name Blanco Pictured Cliffs/Blanco Mesaverde	
Property Code 7473		Property Name San Juan 32-9 Unit			Well Number 3
OGRID No. 14538		Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY			Elevation 6698'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
A	1	31 N	10 W		1190	North	820	East	S.J.

¹¹ Bottom Hole Location If Different From Surface

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

¹² Dedicated Acres 147.73 E/292.63	¹³ Joint or Infill	¹⁴ Consolidation 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

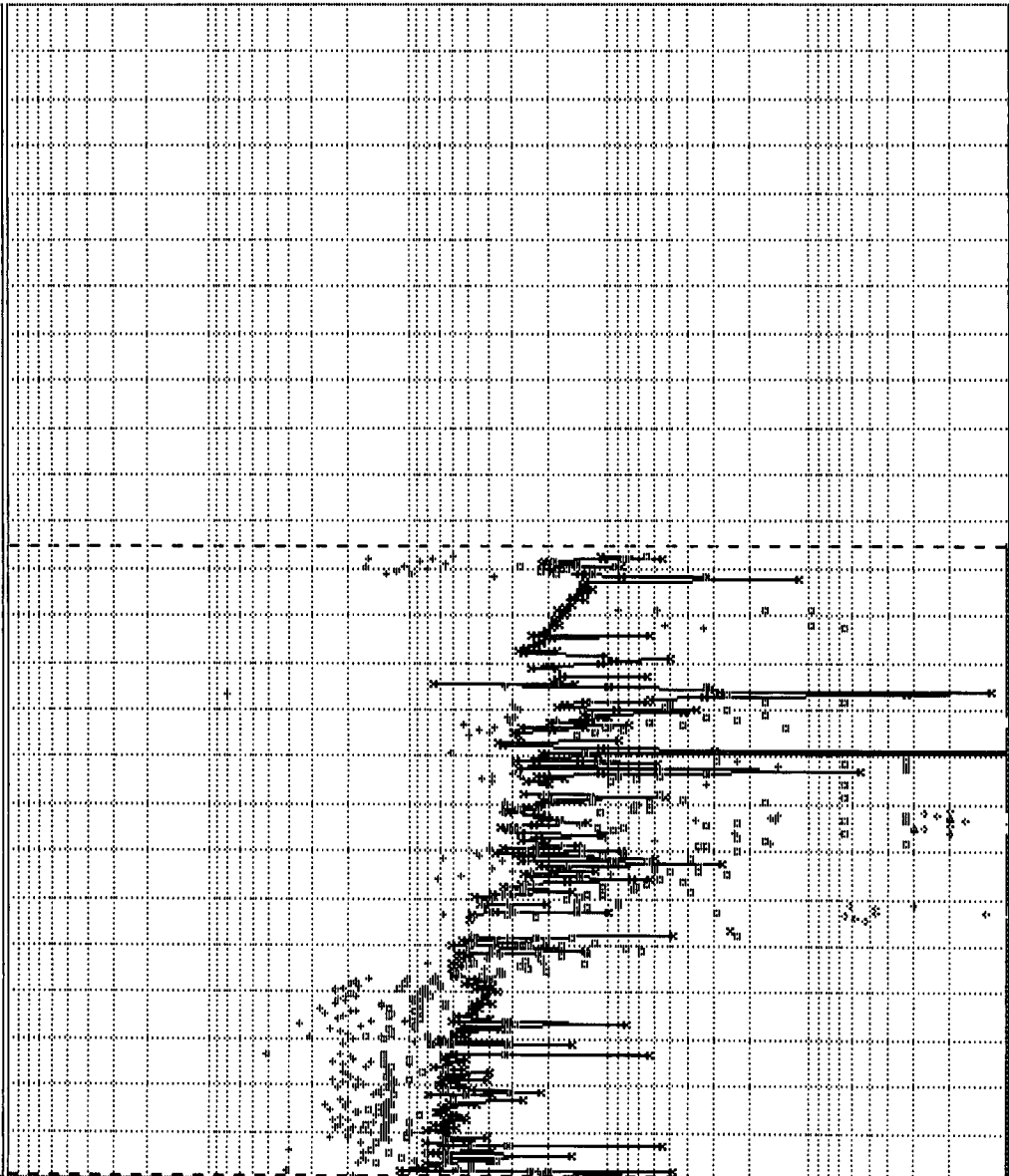
¹⁶ Not resurveyed, prepared from a plat dated 1953. by F.H. Wood.		¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief</i>	
		Signature Peggy Bradfield	
		Printed Name Regulatory Administrator	
		Title 9-9-96	
Date		¹⁸ SURVEYOR CERTIFICATION <i>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.</i>	
Date of Survey 9-6-96		Signature and Seal of Professional Surveyor 	
Certificate Number			

SAN JUAN 32-9 UNIT : 3 : 69971-1

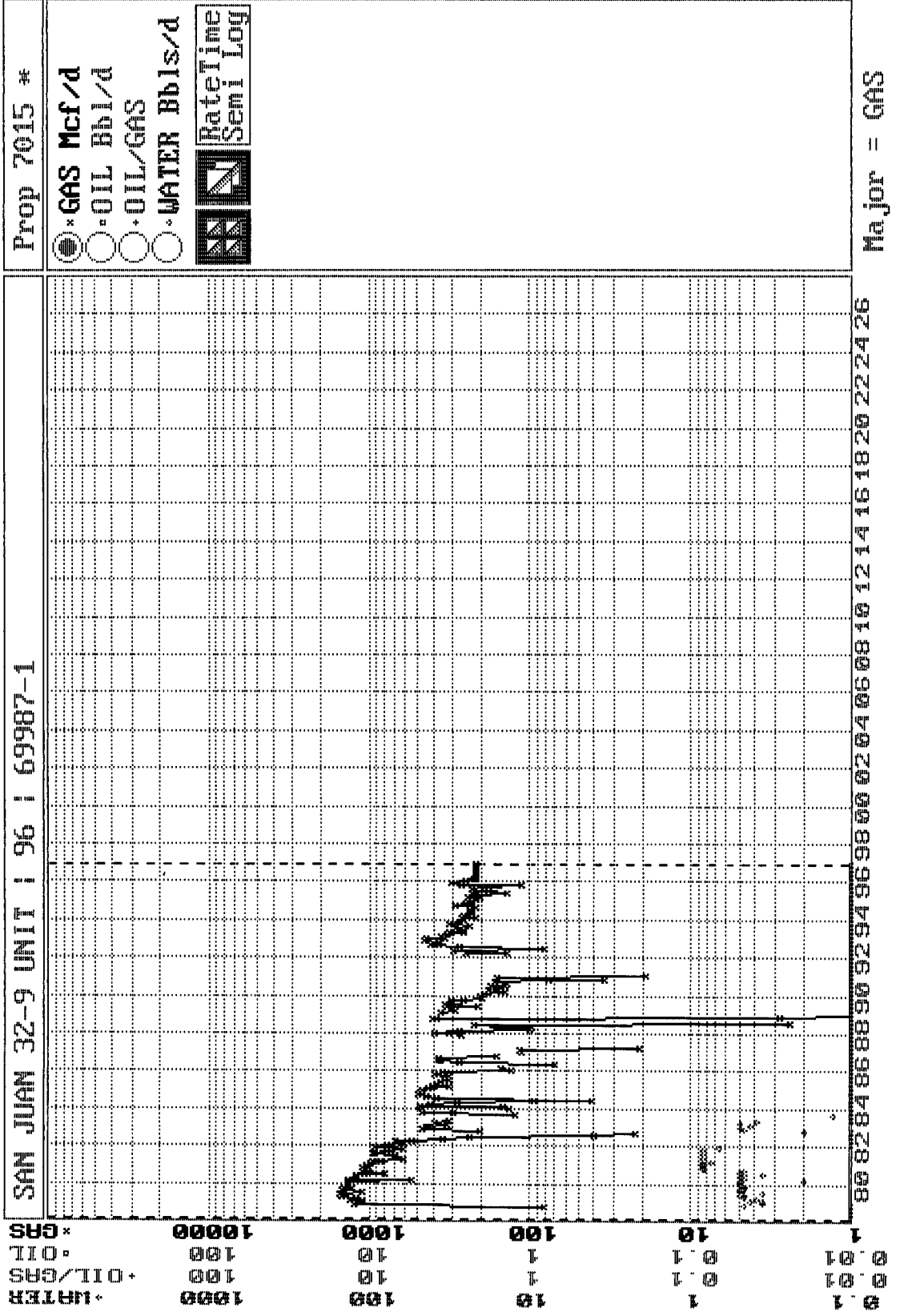
Prop 215 *

* WATER 1000
 * OIL/GAS 100
 * OIL 10
 * GAS 10000

- * GAS Mcf/d
 - * OIL Bbl/d
 - * OIL/GAS
 - * WATER Bbls/d
- RateTime
 Semi Log



Major = GAS

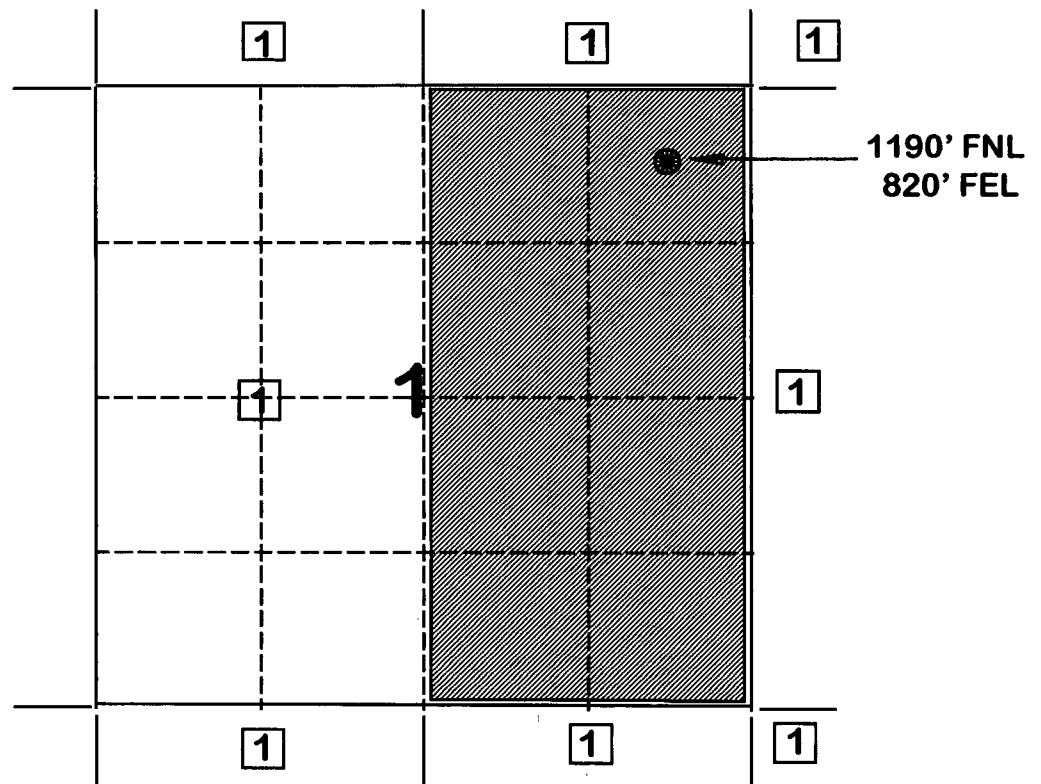


BURLINGTON RESOURCES OIL AND GAS COMPANY

**SAN JUAN 32-9 UNIT #3
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde (E/2) / Pictured Cliffs (NE/4) Formations Commingle Well

Township 31 North, Range 10 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	<u>0.68</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.19</u>
%CO2	<u>1.5</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>6251</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>364</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>422.9</u>

SAN JUAN 32-9 #3 MESAVERDE (CURRENT)

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

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.68</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.19</u>
%CO2	<u>1.5</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>6251</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>848</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>997.9</u>

SAN JUAN 32-9 UNIT #3 MESAVERDE - (ORIGINAL)

STATE: 30
PROD : 2
IDENT : 31N10W
DISTRICT: 4
LOCATION: 1A31N10W
RETRIEVAL CODE: 251,045,31N10W01A00MV
GAS GATH: MOI
API NO: 1108300

LEASE NAME: SAN JUAN 32 9 UNIT
COUNTY NAME: SAN JUAN
RESERVOIR NAME: MESASVERDE
OPERATOR NAME: MERIDIAN OIL INC
FIELD NAME: BLANCO (MESASVERDE)
WELL: 3
STATUS: ACT
COMP DATE: 195306

MV
TOTAL DEPTH: 6251
UPPER PERF: 5370
LOWER PERF: 6112

DATE	CUM TO TEST	WHSIP	BHP	P/Z	BDWTR	BDCND	WHFLW	POTEN M/C POT	Z FAC
19530605	0	848	968	1064	0	0	0	5056 C 4	10.000
19700501	2073272	0	0	0	0	0	0	5056 C 2	.000
19700702	2133840	660	751	808	0	0	415	1014 C 2	29.000
19710611	2293904	758	864	941	0	0	391	858 C 2	18.000
19720629	2540348	568	645	688	0	0	298	709 C 2	38.000
19730726	2749878	627	713	765	0	0	272	609 C 2	32.000
19740416	2901277	572	649	692	0	0	278	637 C 2	38.000
19760507	3251468	512	581	615	0	0	301	611 C 2	44.000
19780411	3555909	513	582	617	0	0	285	508 C 2	44.000
19800603	3937188	473	536	565	0	0	319	468 C 2	48.000
19820603	4092959	490	556	587	0	0	354	503 C 2	46.000
19840719	4254476	464	526	554	0	0	279	364 C 2	49.000
19860428	4397661	432	489	514	0	0	323	232 C 2	52.000
19891108	4604398	449	509	536	0	0	355	200 C 2	.950
19910611	4674930	453	513	540	0	0	393	201 C 2	.950
19930815	4805853	397	449	470	0	0	264	189 C 2	.956
19950927	4915529	364	412	430	0	0	282	251 C 2	.959

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

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.67</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.13</u>
%CO2	<u>1.5</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>1.25</u>
DEPTH (FT)	<u>3344</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>733</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>796.8</u>

SAN JUAN 32-9 UNIT #3 PICTURED CLIFFS - (ORIGINAL)
Offset well - San Juan 32-9 Unit #96

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

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.67</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.13</u>
%CO2	<u>1.5</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>1.25</u>
DEPTH (FT)	<u>3344</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>416</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>450.4</u>

SAN JUAN 32-9 UNIT #3 PICTURED CLIFFS - (CURRENT)
Offset set - San Juan 32-9 Unit #96

STATE: 30
PROD : 2
IDENT: 31N10W
DISTRICT: 4
LOCATION: 2031N10W
RETRIEVAL CODE: 251, 045, 31N10W02000PC
GAS GATH: ELNAT
API NO: 2290100
LEASE NAME: SAN JUAN 32 9 UNIT
COUNTY NAME: SAN JUAN
RESERVOIR NAME: PICTURED CLIFFS
OPERATOR NAME: MERIDIAN OIL INC
FIELD NAME: BLANCO (PICTURED CLIFFS)
WELL: 96
STATUS: ACT
COMP DATE: 197809
TOTAL DEPTH: 3344
UPPER PERF: 3207
LOWER PERF: 3257

DATE	CUM TO TEST	WHSIP	BHP	P/Z	BDWTR	BCDND	WHFLW	POTEN M/C POT	Z FAC
19780913	0	733	0	0	0	0	0	0	.000
19781204	45195	681	0	0	0	0	279	229	.000
19790725	352085	580	0	0	0	0	325	1331	.000
19800709	784551	480	0	0	0	0	332	973	.000
19820525	1350832	423	0	0	0	0	334	507	.000
19840801	1529354	416	0	0	0	0	312	292	.000

SAN JUAN 32-9 UNIT #3 BLANCO MESAVERDE/PICTURED CLIFFS SECTION 1, T31N, R10W.

