

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 Oil & Gas Company PO Box 4289, Farmington, NM 87499  
Operator Address  
**San Juan 32-9 Unit 17R M-8-31N-9W 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. 30-045-29404 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 Pictured Cliffs - 72359		Blanco Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	Will be supplied upon completion		Will be supplied upon completion
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. 458 psi 1992 (see attached - from offset well Johnston Federal #14)  (Original) b. 588 psi 1981 (see attached - from offset well Johnston Federal #14)		a. 518 psi 1995 (see attached - from offset well San Juan 32-9 Unit #17)  b. 1137 psi 1954 (see attached - from offset well San Juan 32-9 Unit #17)
6. Oil Gravity ( <sup>o</sup> API) or Gas BTU Content	BTU 1108		BTU 1136
7. Producing or Shut-In?	New Drill		New Drill
Production Marginal? (yes or no)	Yes		No
* If Shut-In and oil/gas/water rates of last production <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>	Date: Rates: Will be supplied upon completion	Date: Rates:	Date: Rates: Will be supplied upon completion
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: Rates: Will be supplied upon completion	Date: Rates:	Date: 8-98 Rates: 83 MCF/D, 0 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

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DIST. 3

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. NMOCD Reference Cases for Rule 303(D) Exceptions: ORDER NO(S).  Order to be issued - Case 1106
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 9-25-96

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

series I  
 ) Box 1988, Hobbs, NM 88241-1988  
 series II  
 ) Drawer DD, Artesia, NM 88211-0719  
 series III  
 ) 38 Mile Branch Rd., Aztec, NM 87410  
 series IV  
 ) 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

APN Number 30-045-		Pool Code 72359/72319		Pool Name Blanco Pictured Cliffs/Blanco Mesaverde	
Property Code 7473		Property Name San Juan 32-9 Unit			Well Number 17R
OGRID No. 14538		Operator Name Meridian Oil Inc.			Elevation 6611'

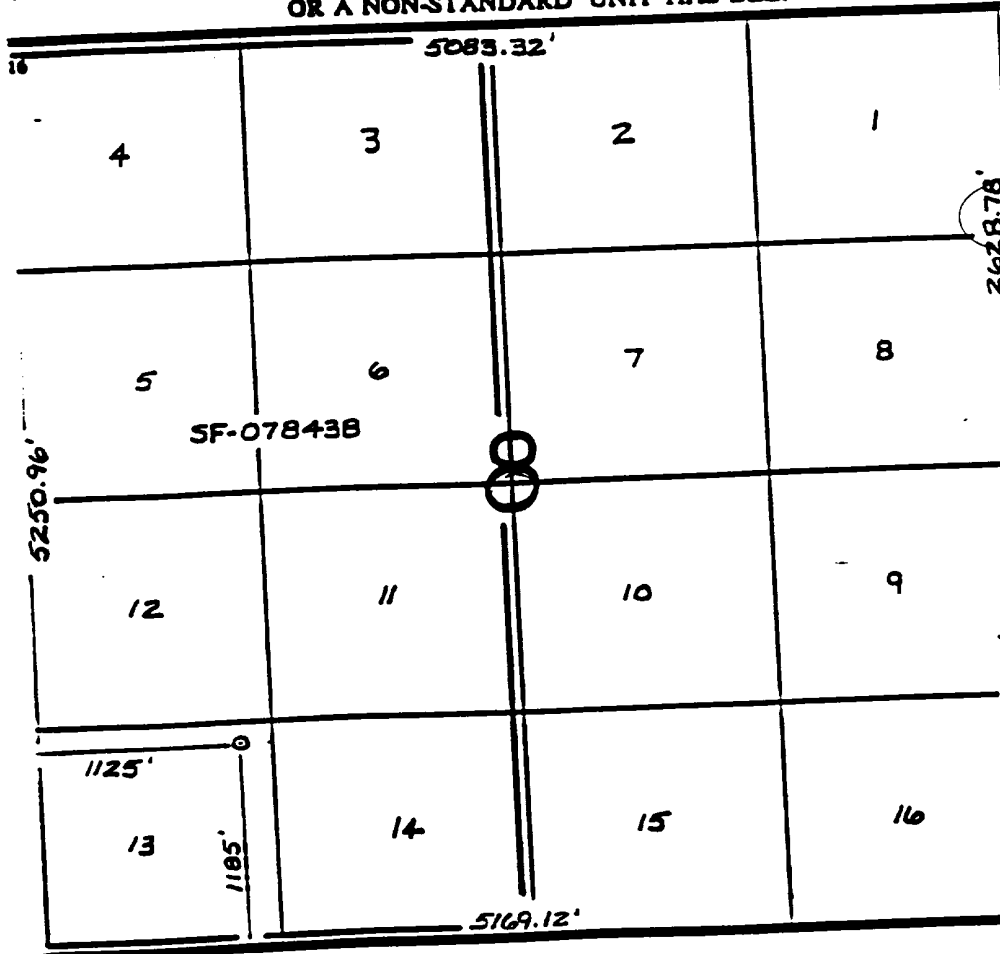
10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	8	31 N	9 W		1185	South	1125	West	S.J.

11 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

1 Dedication Acres: 160  
 2 Joint or Infill: N/A  
 3 Consolidation Code: N/A  
 4 Order No.: 160 acres for density purposes for the Pictured Cliffs  
 5 320 acres for Revenue purposes for the Pictured Cliffs  
**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: Peggy Bradfield

Title: Regulatory Administrator

Date: 4-19-96

18 SURVEYOR CERTIFICATION:

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 6-12-96

Signature: *Merle C. Edwards*

Professional Seal: MERLE C. EDWARDS, REGISTERED SURVEYOR, NEW MEXICO, 8857

Certificate Number: 8857

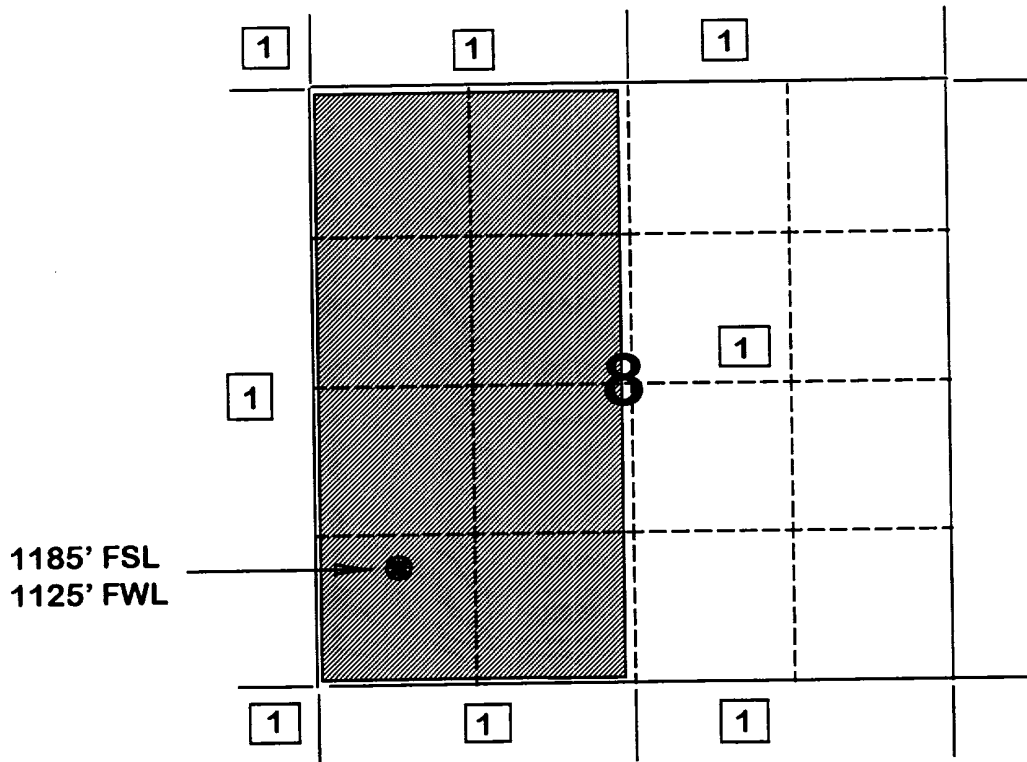
*BURLINGTON RESOURCES OIL AND GAS COMPANY*

**SAN JUAN 32-9 UNIT #17R**

**OFFSET OPERATOR \ OWNER PLAT**

**Mesaverde (W/2) / Pictured Cliffs (SW/4) Formations Commingle Well**

**Township 31 North, Range 9 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>0.67</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.15</u>
%CO2	<u>2.28</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>3510</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>100</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>419</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>457.6</u>

JOHNSTON FEDERAL #14 (CURRENT) 1992

**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>0.15</u>
%CO2	<u>2.28</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>3510</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>100</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>537</u>
 BOTTOMHOLE PRESSURE (PSIA)	 <u>587.6</u>

JOHNSTON FEDERAL #14 (ORIGINAL) 1981

Organize Data ScreenGraph Economics Report Plot Utility Quit  
 Browsing: JOHNSTON FEDERAL | 14 | : CW: : 1565 Property No.: 6217  
 Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/4/99832  
 Item: 11/32/33 Name: OIL\_RATE Type: Numeric Len: 8/197/203 Dec: 0

	OIL RATE	GAS RATE	WTR RATE	WHT	M FWHP- Psi	M FBHP- Psi	M SIWHP Psi	M SIBHP Psi	C FWHP-	
1981 <	0		0		388.0		537.0	0.0		>
1982 <	0		0		375.0		586.0	0.0		>
1984 <	0		0		318.0		599.0	0.0		>
1992 <							419.0			>

F1=Help    F3=PrvPro    F5=PrvTbl    F7=Calcu    F9=Utils    Alt+TableLtr=Change Table  
 F2=Jump    F4=NxtPro    F6=NxtTbl    F8=Print    F10=Exit    Shift+<- ->=Fast Tbl R & L

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.67
COND. OR MISC. (C/M)	C
%N2	0.16
%CO2	1.6
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	5910
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	975
BOTTOMHOLE PRESSURE (PSIA)	1137.3

SAN JUAN 32-9 #17 (ORIGINAL) 1954

**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>0.16</u>
%CO2	<u>1.6</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>2.5</u>
DEPTH (FT)	<u>5910</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>150</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>450</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>518.4</u>

SAN JUAN 32-9 #17 (CURRENT) 1995



T E S T D A T A

STATE: 30  
 PROD : 2  
 IDENT: 31N09M  
 DISTRICT: 4  
 LOCATION: 8K31N9M  
 RETRIEVAL CODE: 251,045,31N09M08K00M  
 GAS GATH: MOI  
 API NO: 1088900

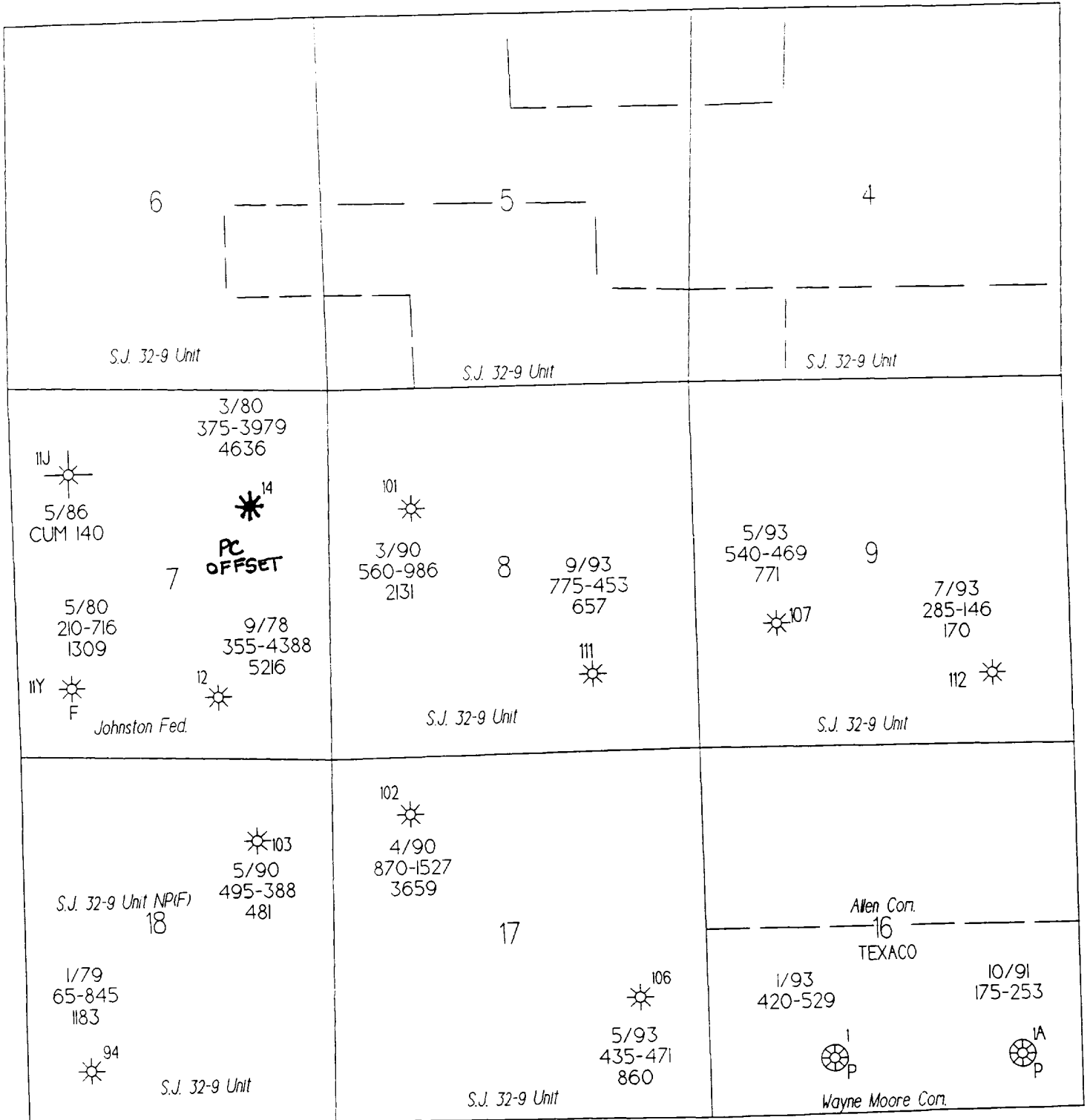
LEASE NAME: SAN JUAN 32 9 UNIT  
 COUNTY NAME: SAN JUAN  
 RESERVOIR NAME: MESAVERDE  
 OPERATOR NAME: MERIDIAN OIL INC  
 FIELD NAME: BLANCO (MESAVERDE)  
 WELL: 17  
 STATUS: ACT  
 COMP DATE: 195403

MV  
 TOTAL DEPTH: 5943  
 UPPER PERF: 5775  
 LOWER PERF: 5910

DATE	CUM TO TEST	WHSTP	BHP	P/Z	BDWTR	BDCND	WHFLW	POTEN M/C POT	Z FAC
19540317	0	975	1119	1231	0	0	0	304.2 C	4 9.000
19681119	935504	0	0	0	0	0	0	2405	2 262 C 2 34.000
19700714	992556	689	787	843	0	0	377	290 C	2 34.000
19710319	1043345	694	793	849	0	0	353	322 C	2 37.000
19720524	1163367	657	750	800	0	0	250	130 C	2 39.000
19730628	1267585	633	722	769	0	0	222	305 C	2 40.000
19740514	1365470	624	712	757	0	0	261	168 C	2 33.000
19760831	1574286	699	798	855	0	0	273	183 C	2 42.000
19780509	1745980	601	685	727	0	0	291	245 C	2 43.000
19800603	1902387	581	662	702	0	0	273	163 C	2 46.000
19820628	1998185	548	624	660	0	0	294	166 C	2 47.000
19840712	2055609	541	616	650	0	0	308	125 C	2 46.000
19860404	2125822	553	630	666	0	0	326	135 C	2 .948
19890307	2200529	525	598	631	0	0	304	135 C	2 .951
19911008	2266812	496	565	594	0	0	372	22 C	2 .953
19930816	2296267	481	547	574	0	0	230	16 C	2 .956
19950616	2343638	450	512	536	0	0	315		



San Juan 32-9 Unit #17  
 SECTION 8, T31N, R09W  
 PICTURED CLIFFS



LEGEND

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 COMPLETED  
 MCFPD - CUM (MMCF)  
 EUR\_NG

R-09-W