

DHC 10/21/96
1391

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 #17R
1185'FSL, 1125'FWL Section 8, T-31-N, R-9-W, San Juan County, NM
API #30-045-29404

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 a new drill Pictured Cliffs and Mesa Verde well.

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. No production curve attached, as this is a new drill well;
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 :

☒ 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)	a.	a. 518 psi 1995 (see attached - from offset well San Juan 32-9 Unit #17)
	(Original) b. 588 psi 1981 (see attached - from offset well Johnston Federal #14)	b.	b. 1137 psi 1954 (see attached - from offset well San Juan 32-9 Unit #17)
6. Oil Gravity (^o 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 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 of recent test (within 60 days)	Date: Rates: Will be supplied upon completion	Date: Rates:	Date: Rates: Will be supplied upon completion
	Date: Rates: Will be supplied upon completion	Date: Rates:	Date: 8-96 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

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 88211-8719
Series III
) 30 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

API 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 Ida	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 Ida	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 160 W/320	Joint or Infill	Consolidation Code	Order No. 160 acres for density purposes for the Pictured Cl 320 acres for Revenue purposes for the Pictured Cl
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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	5083.32'				17 OPERATOR CERTIFICATION	
4	3	2	1	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.		
5	6	7	8	Signature <i>Peggy Bradfield</i>		
SF-078438				Printed Name Peggy Bradfield		
				Title Regulatory Administrator		
				Date 7-19-96		
				Date		
12	11	10	9	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.		
				Date of Survey 6-12-96		
				Signature and Seal of Professional Engineer <i>HELEN C. EDWARDS</i>		
13	14	15	16	Certificate Number 8857		
5169.12'						

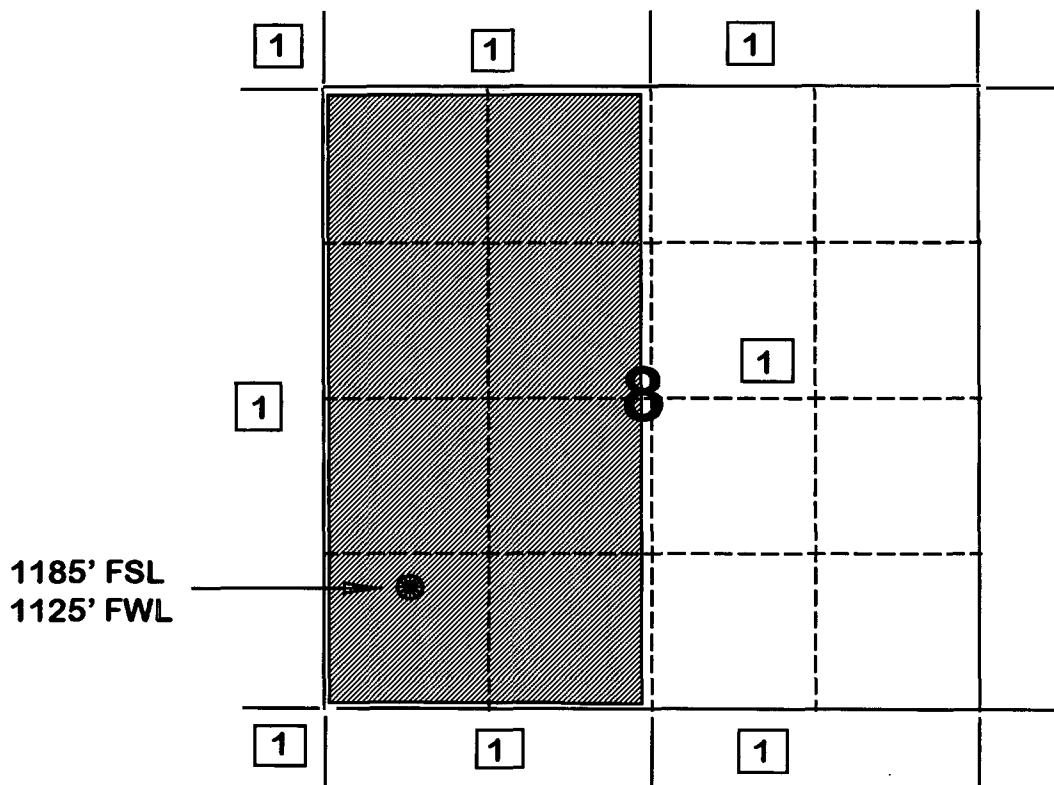
BURLINGTON RESOURCES OIL AND GAS COMPANY

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	0.67
COND. OR MISC. (C/M)	C
%N2	0.15
%CO2	2.28
%H2S	0
DIAMETER (IN)	2.5
DEPTH (FT)	3510
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	100
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	419
BOTTOMHOLE PRESSURE (PSIA)	457.6

JOHNSTON FEDERAL #14 (CURRENT) 1992

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

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-	M	FBHP-	M	SIWHP	M	SIBHP	C	FWHP-	
	██████████	██████████	██████████	████	██	Psi██	██	Psi██	██	Psi██	██	Psi██	██████████		
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

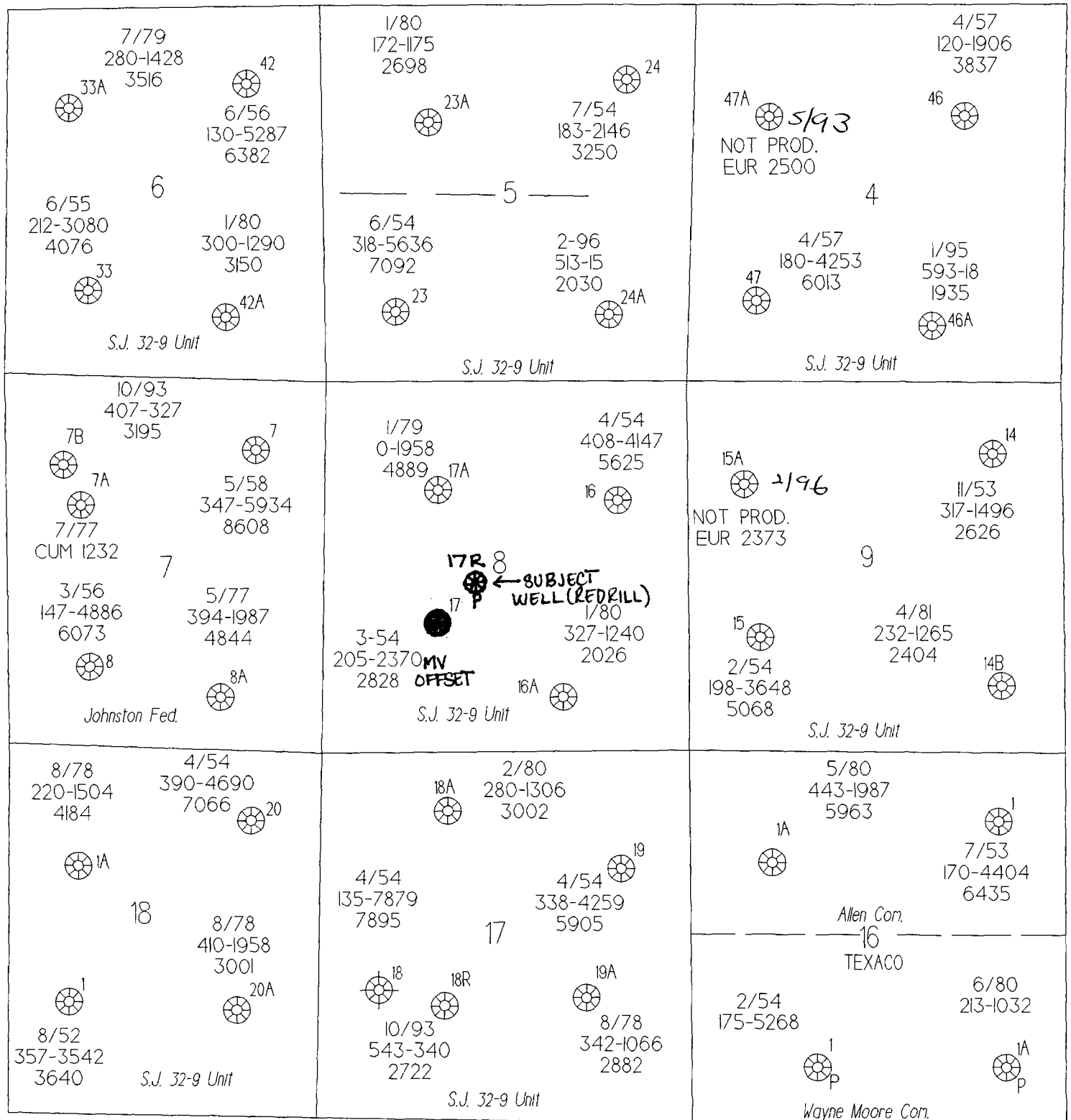
STATE: 30
PROD : 2
IDENT: 31N09W
DISTRICT: 4
LOCATION: 8K31N9W
RETRIEVAL CODE: 251,045,31N09W08K00MV
GAS GATH: MOI
API NO: 1088900

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

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

DATE	CUM TO TEST	WHSIP	BHP	P/Z	BDWTR	BCDND	WHFLW	POTEN M/C POT	Z FAC
19540317	0	975	1119	1231	0	0	0	3042 C 4	9.000
19681119	935504	0	0	0	0	0	0	2405 C 2	.000
19700714	992556	689	787	843	0	0	377	262 C 2	34.000
19710319	1043345	694	793	849	0	0	353	290 C 2	34.000
19720524	1163367	657	750	800	0	0	250	322 C 2	37.000
19730628	1267585	633	722	769	0	0	222	130 C 2	39.000
19740514	1365470	624	712	757	0	0	261	305 C 2	40.000
19760831	1574286	699	798	855	0	0	273	168 C 2	33.000
19780509	1745980	601	685	727	0	0	291	183 C 2	42.000
19800603	1902387	581	662	702	0	0	273	245 C 2	43.000
19820628	1998185	548	624	660	0	0	294	163 C 2	46.000
19840712	2055609	541	616	650	0	0	308	166 C 2	47.000
19860404	2125822	553	630	666	0	0	326	125 C 2	46.000
19890307	2200529	525	598	631	0	0	304	135 C 2	.948
19911008	2266812	496	565	594	0	0	372	135 C 2	.951
19930816	2296267	481	547	574	0	0	230	22 C 2	.953
19950616	2343638	450	512	536	0	0	315	16 C 2	.956

SAN JUAN 32-9 UNIT #17 SECTION 8, T31N, R09W BLANCO MESAVERDE



T
31
N

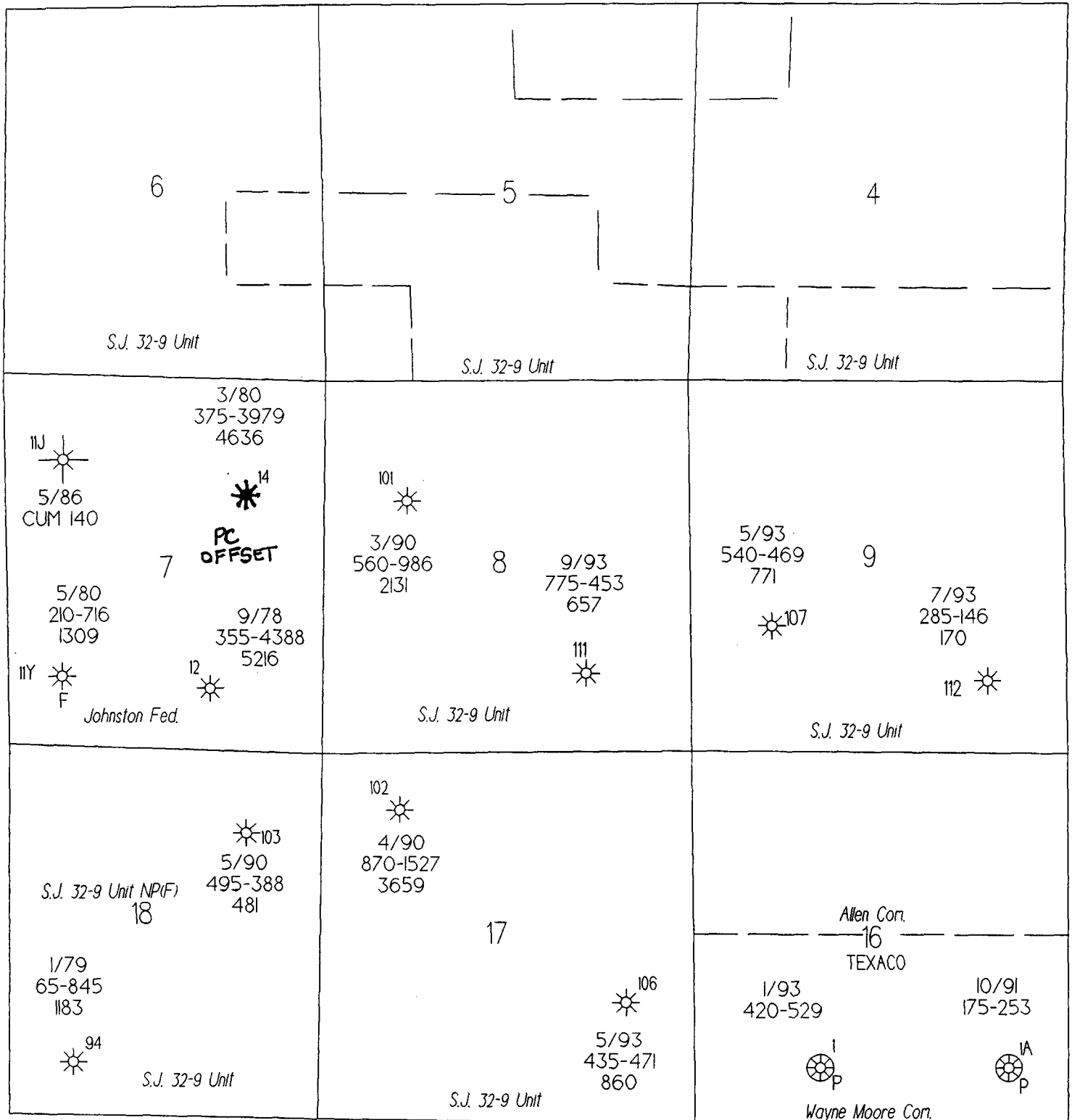
LEGEND

FIRST PRODUCED
MCFPD - CUM (MMCF)
EUR_NG

R-09-W

San Juan 32-9 Unit #17

SECTION 8, T31N, R09W
PICTURED CLIFFS



LEGEND

COMPLETED
MCFPD - CUM (MMCF)
EUR_NG

R-09-W