

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 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

BURLINGTON RESOURCES OIL & GAS COMPANY
OperatorPO Box 4289, Farmington, NM 87499
Address

Day

2A

D, Sec. 09, T29N, R08W

San Juan

Lease

Well No.

Unit/Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 6946 API NO. 30-045-2177900 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)	3516' - 3202'		4767' - 5699'
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	(Current) a. 272 psia @ 3179' (Original) b. 1043 psia @ 3179'	a. b.	a. 119 psia @ 5233' b. 793 psia @ 5233'
6. Oil Gravity (API) or Gas BTU Content	1124 BTU		1282 BTU
7. Producing or Shut-In?	FLOWING		FLOWING
Production Marginal? (yes or no)	YES		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	Date: Rates:	Date: Rates:	Date: Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 12/2/99 Rates: 27 MCF/D	Date: Rates:	Date: 12/2/99 Rates: 218 MCF/D
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: Gas: Will supply after commingling	Oil: Gas: Will supply after commingling	Oil: Gas: Will supply after commingling

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 ☐ No11. 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 ☐ No13. 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). _____

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.
- * 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 Mike Haddenham TITLE Operations Engineer DATE 12-10-99TYPE OR PRINT NAME MIKE HADDENHAM TELEPHONE NO. (505) 326-9577

LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-123
Effective 1-1-55

All distances must be from the outer boundaries of the Section.

Operator EL PASO NATURAL GAS COMPANY		Lease DAY		(SF-078415-A)		Well No. 2-A
Unit Letter D	Section 9	Township 29-N	Range 8-W	County SAN JUAN		
Actual Footage Location of Well: 1130 feet from the NORTH line and 950 feet from the WEST line						
Ground Level Elev. 6479	Producing Formation MESA VERDE		Blanco Pictured Cliffs BLANCO MESA VERDE		Dedicated Acreage: 160.06 320.00 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

Note: Plat reissued to show addition of PC Formation 4-11-85

SECTION 9

SF-078415-A

SF-078414-A

2

RECEIVED

APR 15 1985

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

CERTIFICATION

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

Name
Drilling Clerk
Position
El Paso Natural Gas Co
Company
April 12, 1985
Date

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 knowledge and belief.

Date Surveyed
FEBRUARY 27, 1978

Registered Professional Engineer
and/or Land Surveyor

Gas Meter Vol Dly - Actual Vs Estimated

Saturday, November 06, 1999 Through Monday, December 06, 1999

Select By : Gas Meters

Pressure Base : None

Page No : 1

Units : A.P.I.

Report Number : R_031

Sort By : None selected in Report Options.

Rounded (y/n) : No

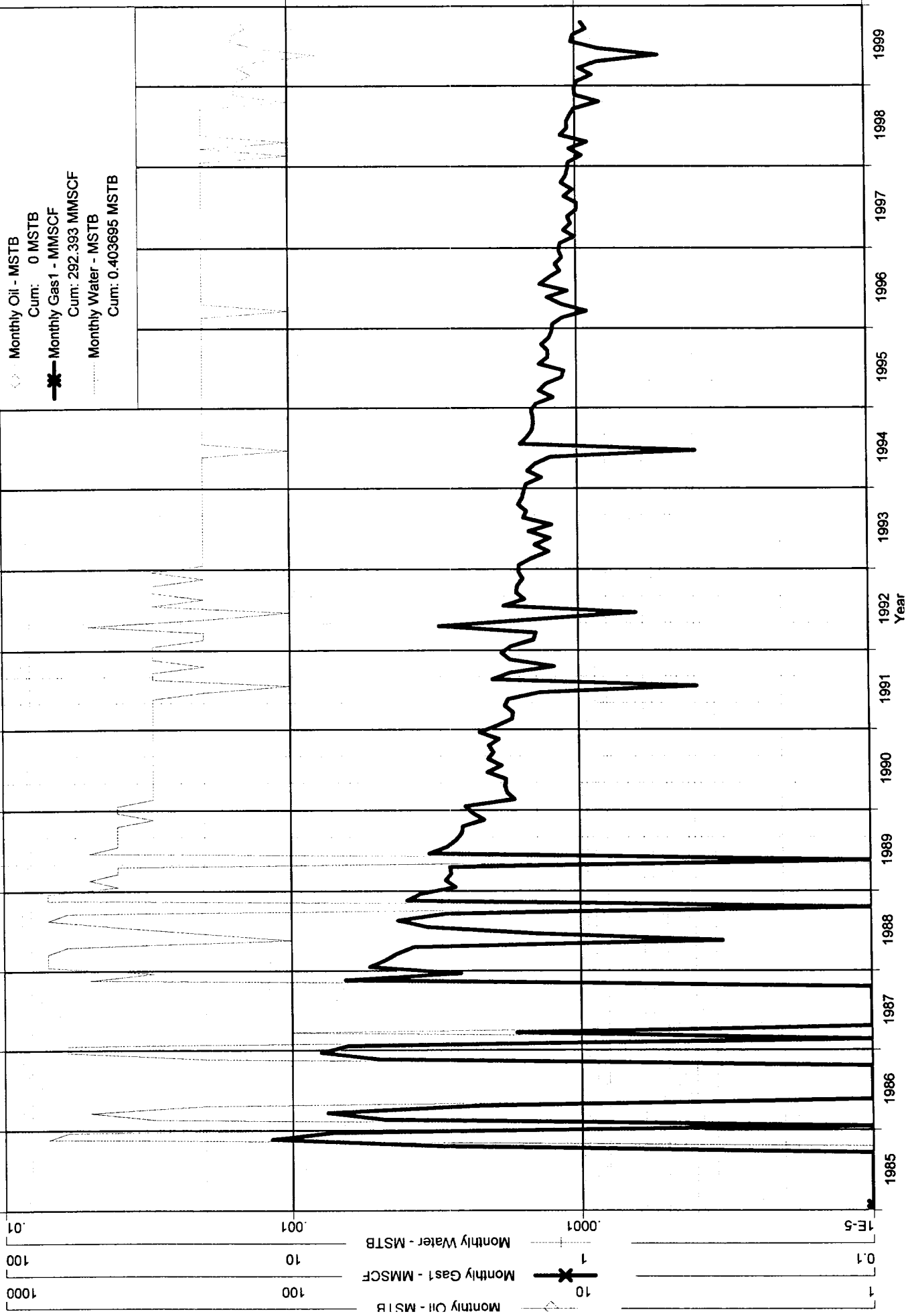
Print Date : 12/06/99, 7:48:22 AM

Meter Name	Date	Actual Volume	Estimated Volume	% Diff
DAY 2A 89512 MV	11/06/99	233.00	233.00	.00%
	11/08/99	225.00	225.00	.00%
	11/09/99	227.00	227.00	.00%
3 mo Avg 205 mcf/D	11/10/99	226.00	226.00	.00%
	11/11/99	226.00	226.00	.00%
	11/12/99	225.00	225.00	.00%
	11/13/99	224.00	224.00	.00%
	11/14/99	223.00	223.00	.00%
	11/15/99	222.00	222.00	.00%
	11/16/99	221.00	221.00	.00%
	11/17/99	211.00	211.00	.00%
	11/18/99	220.00	220.00	.00%
	11/19/99	221.00	221.00	.00%
	11/20/99	218.00	218.00	.00%
	11/21/99	217.00	217.00	.00%
	11/22/99	219.00	219.00	.00%
	11/23/99	209.00	209.00	.00%
	11/25/99	26.00	26.00	.00%
	11/26/99	220.00	220.00	.00%
	11/27/99	246.00	246.00	.00%
	11/29/99	234.00	234.00	.00%
	11/30/99	229.00	229.00	.00%
Totals-- 11/1999		4,722.00	4,722.00	.00%
	12/01/99	19.00	19.00	.00%
	12/02/99	218.00	218.00	.00%
	12/03/99	226.00	226.00	.00%
	12/04/99	40.00	40.00	.00%
Totals-- 12/1999		503.00	503.00	.00%
Totals-- DAY 2A 89512		5,225.00	5,225.00	.00%
DAY 2A 95365 PC	11/06/99	33.00	33.00	.00%
	11/08/99	26.00	26.00	.00%
	11/09/99	35.00	35.00	.00%
3 mo Avg 32 mcf/D	11/10/99	34.00	34.00	.00%
	11/11/99	34.00	34.00	.00%
	11/12/99	33.00	33.00	.00%
	11/13/99	33.00	33.00	.00%
	11/14/99	33.00	33.00	.00%
	11/15/99	32.00	32.00	.00%
	11/16/99	30.00	30.00	.00%
	11/17/99	33.00	33.00	.00%
	11/18/99	32.00	32.00	.00%
	11/19/99	32.00	32.00	.00%
	11/20/99	32.00	32.00	.00%
	11/21/99	32.00	32.00	.00%
	11/22/99	31.00	31.00	.00%
	11/23/99	31.00	31.00	.00%
	11/25/99	31.00	31.00	.00%
	11/26/99	31.00	31.00	.00%
	11/27/99	31.00	31.00	.00%
	11/29/99	29.00	29.00	.00%
	11/30/99	34.00	34.00	.00%
Totals-- 11/1999		702.00	702.00	.00%
	12/01/99	32.00	32.00	.00%
	12/02/99	27.00	27.00	.00%
	12/03/99	31.00	31.00	.00%
	12/04/99	31.00	31.00	.00%
Totals-- 12/1999		121.00	121.00	.00%
Totals-- DAY 2A 95365		823.00	823.00	.00%
Report Totals		6,048.00	6,048.00	.00%

DAY 2A 4820302 (281663717220.567) Data: Jan. 1985-Oct. 1999

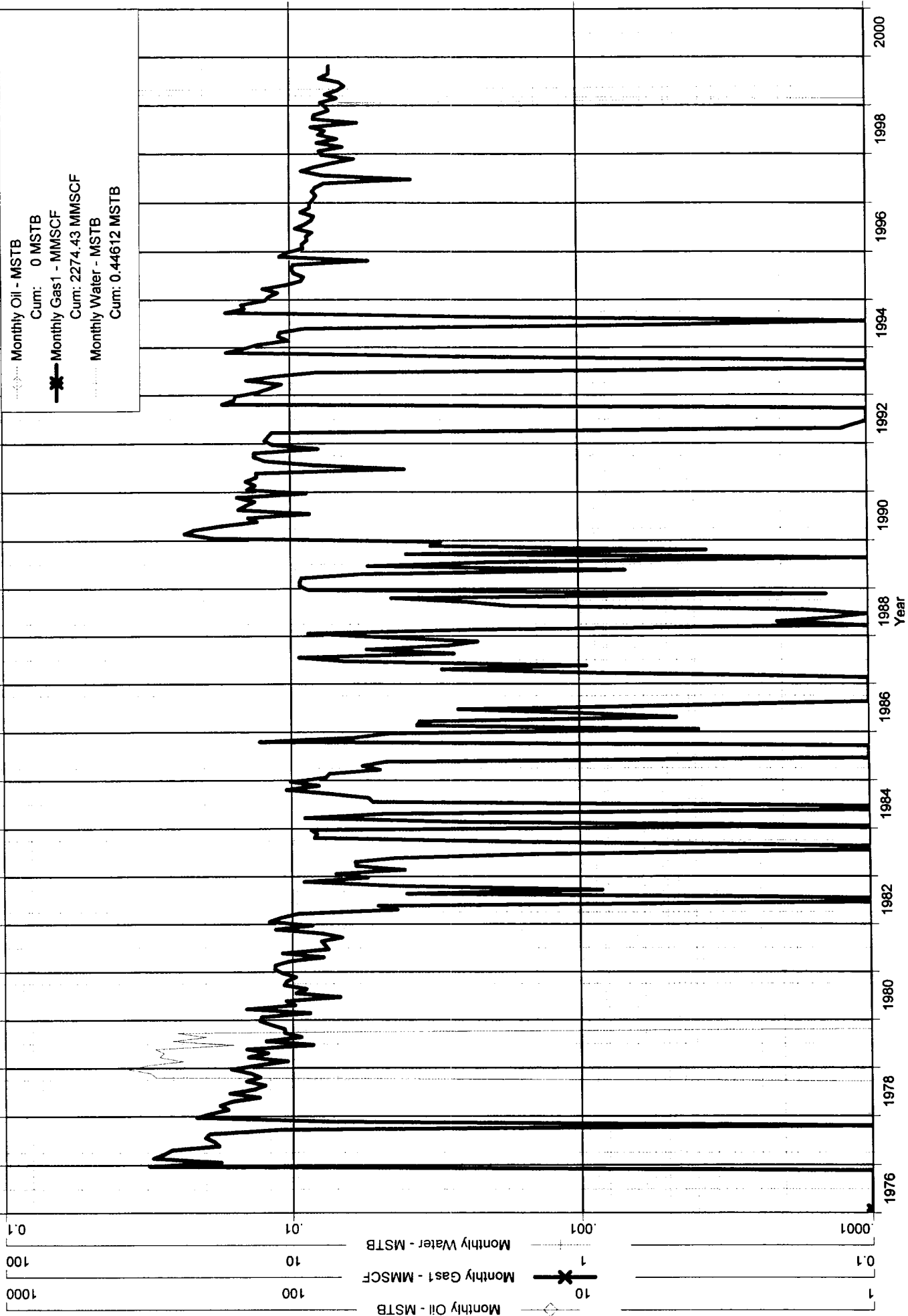
Operator: BURLINGTON RESOURCES OIL GAS CO
Field: BLANCO PICTURED CLIFFS (GAS)

Zone:
Type: Gas
Group: None



Operator: BURLINGTON RESOURCES OIL GAS CO
Field: BLANCO MESAVERDE (PRORATED GAS)

Zone:
Type: Gas
Group: None



NEW MEXICO OIL CONSERVATION COMMISSION
LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-123
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

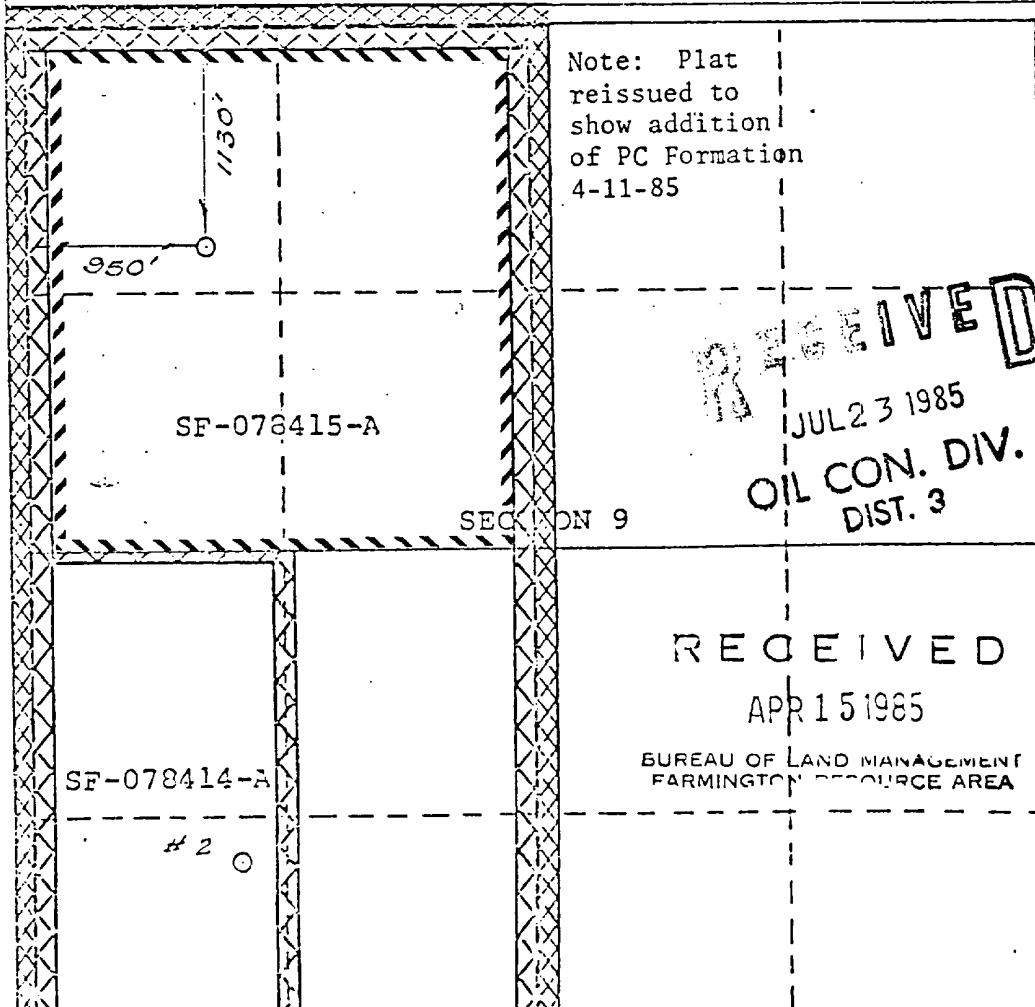
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Ground Level Elev. 6479	Producing Formation MESA VERDE		Pictured Cliffs BLANCO MESA VERDE		Dedicated Acreage: 160.00 320.00 Acres	

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☒ Yes ☐ No If answer is "yes," type of consolidation Communitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

Name
Reggie Dosh
Drilling Clerk

Position
El Paso Natural Gas Co.

Company
April 12, 1985

Date

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 knowledge and belief.

Date Surveyed
FEBRUARY 27, 1978

Registered Professional Engineer
and/or Land Surveyor

Day #2A
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Mesaverde		Pictured Cliffs	
<u>MV-Current</u>		<u>PC-Current</u>	
GAS GRAVITY	0.754	GAS GRAVITY	0.639
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.23	%N2	0.13
%CO2	1.05	%CO2	0.62
%H2S	0	%H2S	0
DIAMETER (IN)	4.052	DIAMETER (IN)	6.456
DEPTH (FT)	5233	DEPTH (FT)	3179
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	140	BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	104	SURFACE PRESSURE (PSIA)	253
BOTTOMHOLE PRESSURE (PSIA)	119.1	BOTTOMHOLE PRESSURE (PSIA)	272.1
<u>MV-Original</u>		<u>PC-Original</u>	
GAS GRAVITY	0.754	GAS GRAVITY	0.639
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.23	%N2	0.13
%CO2	1.05	%CO2	0.62
%H2S	0	%H2S	0
DIAMETER (IN)	4.052	DIAMETER (IN)	6.456
DEPTH (FT)	5233	DEPTH (FT)	3179
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	140	BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	680	SURFACE PRESSURE (PSIA)	961
BOTTOMHOLE PRESSURE (PSIA)	793.1	BOTTOMHOLE PRESSURE (PSIA)	1043.2

Sample Date: 19980708

Hydrocarbon Fractions

Mol % C1: 78.1
Mol % C2: 10.61
Mol % C3: 5.56
Mol % iC4: 0.98
Mol % nC4: 1.59
Mol % iC5: 0.54
Mol % nC5: 0.42
Mol % C6: 0
Mol % C6+: 0.92
Mol % C7: 0

Impurities

Mol % H2: 0
Mol % He: 0
Mol % N2: 0.23
Mol % O2: 0
Mol % H2S: 0
Mol % CO2: 1.05

Test Pressure: 14.73

Test Temperature: 60

Wet BTU Factor (BTU/CF at 14.73): 1271.502

Dry BTU Factor (BTU/CF at 14.73): 1294

Measured Specific Gravity: 0

Calculated Specific Gravity: 0.754

Sample Date: 19960221

Hydrocarbon Fractions

Mol % C1: 76.63
Mol % C2: 11
Mol % C3: 6.02
Mol % iC4: 0.91
Mol % nC4: 1.78
Mol % iC5: 0.57
Mol % nC5: 0.47
Mol % C6: 0
Mol % C6+: 0.48
Mol % C7: 0

Impurities

Mol % H2: 0
Mol % He: 0
Mol % N2: 1.11
Mol % O2: 0
Mol % H2S: 0
Mol % CO2: 1.03

Test Pressure: 14.73

Test Temperature: 60

Wet BTU Factor (BTU/CF at 14.73): 1259.711

Dry BTU Factor (BTU/CF at 14.73): 1282

Measured Specific Gravity: 0

Calculated Specific Gravity: 0.755

Sample Date: 19960823

Hydrocarbon Fractions

Mol % C1: 90.54

Mol % C2: 4.67

Mol % C3: 2.22

Mol % iC4: 0.44

Mol % nC4: 0.57

Mol % iC5: 0.21

Mol % nC5: 0.14

Mol % C6: 0

Mol % C6+: 0.46

Mol % C7: 0

Impurities

Mol % H2: 0

Mol % He: 0

Mol % N2: 0.13

Mol % O2: 0

Mol % H2S: 0

Mol % CO2: 0.62

Test Pressure: 14.73

Test Temperature: 60

Wet BTU Factor (BTU/CF at 14.73): 1107.406

Dry BTU Factor (BTU/CF at 14.73): 1127

Measured Specific Gravity: 0

Calculated Specific Gravity: 0.639

Sample Date: 19920730

Hydrocarbon Fractions

Mol % C1: 90.3

Mol % C2: 4.86

Mol % C3: 2.33

Mol % iC4: 0.46

Mol % nC4: 0.58

Mol % iC5: 0.21

Mol % nC5: 0.14

Mol % C6: 0

Mol % C6+: 0.28

Mol % C7: 0

Impurities

Mol % H2: 0

Mol % He: 0

Mol % N2: 0.15

Mol % O2: 0

Mol % H2S: 0

Mol % CO2: 0.69

Test Pressure: 14.73

Test Temperature: 60

Wet BTU Factor (BTU/CF at 14.73): 1104.458

Dry BTU Factor (BTU/CF at 14.73): 1124

Measured Specific Gravity: 0

Calculated Specific Gravity: 0.638

OIL CONSERVATION DIVISION

API # 30-045-21779

Page 1
Revised 10/01/78

This form is not to
be used for reporting
packer leakage tests
in Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator BURLINGTON RESOURCES OIL & GAS CO. Lease DAY Well No. 2A

Location

of Well: Unit D Sect 09 Twp. 029N Rge. 008W County SAN JUAN

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	PICTURED CLIFFS	Gas	Flow	Tubing
Lower Completion	MESAVERDE	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in 06/11/1999	Length of time shut-in 144 Hours	SI press. psig 253	Stabilized? (Yes or No)
Lower Completion	06/11/1999	96 Hours	104	

FLOW TEST NO. 1

Commenced at (hour,date)*		06/15/1999		Zone producing (Upper or Lower)	
TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE		PROD. ZONE TEMP	REMARKS
		Upper Completion	Lower Completion		
6/16/199	120 Hours	197	107		
6/17/199	144 Hours	163	108		

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD; Tested thru (Orifice or Meter): _____

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

(Continue on reverse side)

NEW MEXICO OIL CONSERVATION COMMISSION
MULTI-POINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 9-1-65

RECEIVED
OCT 07 1985
OIL CON. DIV.
DIST. 3

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 7-1-85			
Company El Paso Natural Gas				Connection			
Pool Blanco				Formation Pictured Cliffs			
Completion Date 7-1-85		Total Depth 5750		Plug Back TD 5728		Elevation 6479 GR	
Farm or Lease Name Day				Well No. #2A			
Csg. Size 7.000	Wt. 20	d 6.456	Set At 3404	Perforations: From *3156 To 3202		Unit D 9 29 8	
Tq. Size 1.610	wt. 2.4	d 1.380	Set At 3193	Perforations: From To		Unit Sec. Twp. Rge. D 9 29 8	
Type Well - Single - Brdenhead - G.G. or G.O. Multiple G.G. Dual				Packer Set At 3222		County San Juan	
Producing Thru Tbg.		Reservoir Temp. °F .		Mean Annual Temp. °F .		Baro. Press. - P _a 12	
L		H		G _g		State New Mexico	
				% CO ₂		% N ₂	
				% H ₂ S		Prover	
						Meter Run	
						Taps	

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		Temp. °F
SI							961		961		9 Days
1.			.750	131		55	131		603		3 Hrs.
2.											
3.											
4.											
5.											

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	12.365		143	1.0048	.9393	1.014	1692
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2.					Specific Gravity Separator Gas _____ X X X X X X X X X
3.					Specific Gravity Flowing Fluid _____ X X X X X
4.					Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
5.					Critical Temperature _____ R _____ R

P _r 973	P _w 946729					
NO.	P _r	P _w	P _r ²	P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = \frac{946729}{568504}$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.5427$
1		615	378225	568504		
2						
3						
4						
5						

Absolute Open Flow 2610 Mcfd @ 15.025		Angle of Slope @ _____		Slope, n .85	
Remarks: *4.500 "Liner 3247" - 5728'					
Blew dry gas throughout test.					
Gas vented during test = 233 MCF.					
Approved by Commission:		Conducted By: Bob Easterling		Calculated By: Ed Mabe	
				Checked By: kld	

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA2800
10/29/76DATE October 29, 1976 EP-EP

Operator El Paso Natural Gas Company		Lease Day #2-A	
Location NW Sec. 9, T29N, R8W		County San Juan	State New Mexico
Formation Mesa Verde		Pool Blanco	
Casing: Diameter 4.500	Set At: Feet 5746'	Tubing: Diameter 2.375	Set At: Feet 5694'
Pay Zone: From 4767	To 5699'	Total Depth: PBTD 5746 5728'	Shut In 10-15-76
Stimulation Method Sandwater Frac		Flow Through Casing	Flow Through Tubing

Choke Size, Inches		Choke Constant: C			
Shut-In Pressure, Casing, PSIG 676	+ 12 = PSIA 688	Days Shut-In 14	Shut-In Pressure, Tubing, PSIG 668	+ 12 = PSIA 680	
Flowing Pressure: P, PSIG	+ 12 = PSIA		Working Pressure: P _w , PSIG	+ 12 = PSIA	
Temperature: T = °F Ft =	n =		F _{pv} (From Tables)	Gravity F _g =	

$$\text{CHOKE VOLUME} = Q = C \times P_i \times F_i \times F_g \times F_{pv}$$

Q =

= _____ MCF/D

$$\text{OPEN FLOW} = Aof = Q \left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$$

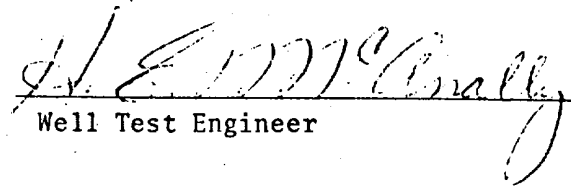
$$Aof = \left(\frac{\quad}{\quad} \right)^n$$

= After frac gauge = 2617 MCF/D. Used for sizing equipment only.

Aof = _____ MCF/D

TESTED BY Carl Rhames

WITNESSED BY _____


Well Test Engineer

DAY #2A
Sec. 09, T29N R08W
San Juan County, New Mexico

Production Allocation Based On Cumulative Production Through 12/2/99

	Cumulative Production		% Allocation	
	MCF	Bbl Oil	% Gas	% Oil
Pictured Cliffs	27	0	11.02%	0.00%
Mesaverde	218	0	88.98%	0.00%
Total	245	0	100.00%	0.00%

Gas Allocation:

Pictured Cliffs (Total Pictured Cliffs Production) 27 MCF

(Total Combined Production) 245 MCF = **11.02%**

Mesaverde (Total Mesaverde Production) 218 MCF

(Total Combined Production) 245 MCF = **88.98%**

Oil Allocation:

Pictured Cliffs (Total Pictured Cliffs Production) 0 Bbl Oil

(Total Combined Production) 0 Bbl Oil = **0.00%**

Mesaverde (Total Mesaverde Production) 0 Bbl Oil

(Total Combined Production) 0 Bbl Oil = **0.00%**