DATE IN 12/15/99	SUSPENSE 1/4/00	ENGINEER DC	LOGGED MW	TYPE DHC

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

2563

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
[DD-Directional Drilling] [SD-Simultaneous Dedication]
[DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
[PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
[WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
[SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
[EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

[A] Location - Spacing Unit - Directional Drilling
NSL NSP DD SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement
X DHC CTB PLC PC OLS OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
WFX PMX SWD IPI EOR PPR

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

[A] Working, Royalty or Overriding Royalty Interest Owners

[B] Offset Operators, Leaseholders or Surface Owner

[C] Application is One Which Requires Published Legal Notice

[D] X Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] Waivers are Attached

[3] **INFORMATION / DATA SUBMITTED IS COMPLETE** - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Cole	Peggy Cole	Regulatory/Compliance Administrator	
Print or Type Name	Signature	Title	Date

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

APPLICATION FOR DOWNHOLE COMMINGLING

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

APPROVAL PROCESS :
_X_ Administrative _Hearing

EXISTING WELLBORE
_X_ YES ___ NO

BURLINGTON RESOURCES OIL & GAS COMPANY — Operator
PO Box 4289, Farmington, NM 87499 — Address

Day — Lease
2A — Well No.
D, Sec. 09, T29N, R08W — UnitLtr. - Sec - Twp - Rge
San Juan — County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 6946 API NO. 30-045-2177900 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)	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'	a.	a. 119 psia @ 5233'
	(Original) b. 1043 psia @ 3179'	b.	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 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:	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? _X_ Yes ___ No
If not, have all working, overiding, and royalty interests been notified by certified mail? ___ Yes ___ No

11. Will cross-flow occur? _X_ 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. _X_ Yes ___ No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? _X_ Yes ___ No

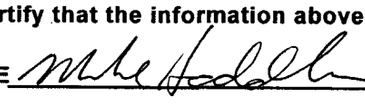
13. Will the value of production be decreased by commingling? ___ Yes _X_ No (If Yes, attach explanation)

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). _____

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  TITLE Operations Engineer DATE 12-10-99

TYPE OR PRINT NAME MIKE HADDENHAM TELEPHONE NO. (505) 326-9577

Form C-102
Supersedes C-128
Effective 1-1-65

LOCATION AND ACREAGE DEDICATION PLAT

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

Operator	Lease	Well No.
EL PASO NATURAL GAS COMPANY	DAY (SF-078415-A)	2-A

Unit Letter	Section	Township	Range	County
D	9	29-N	8-W	SAN JUAN

Actual Footage Location of Well: 1130 feet from the NORTH line and 950 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage: 160.0 &
6479	MESA VERDE Pictured Cliffs	BLANCO MESA VERDE Blanco Pictured Cliffs	320.00 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

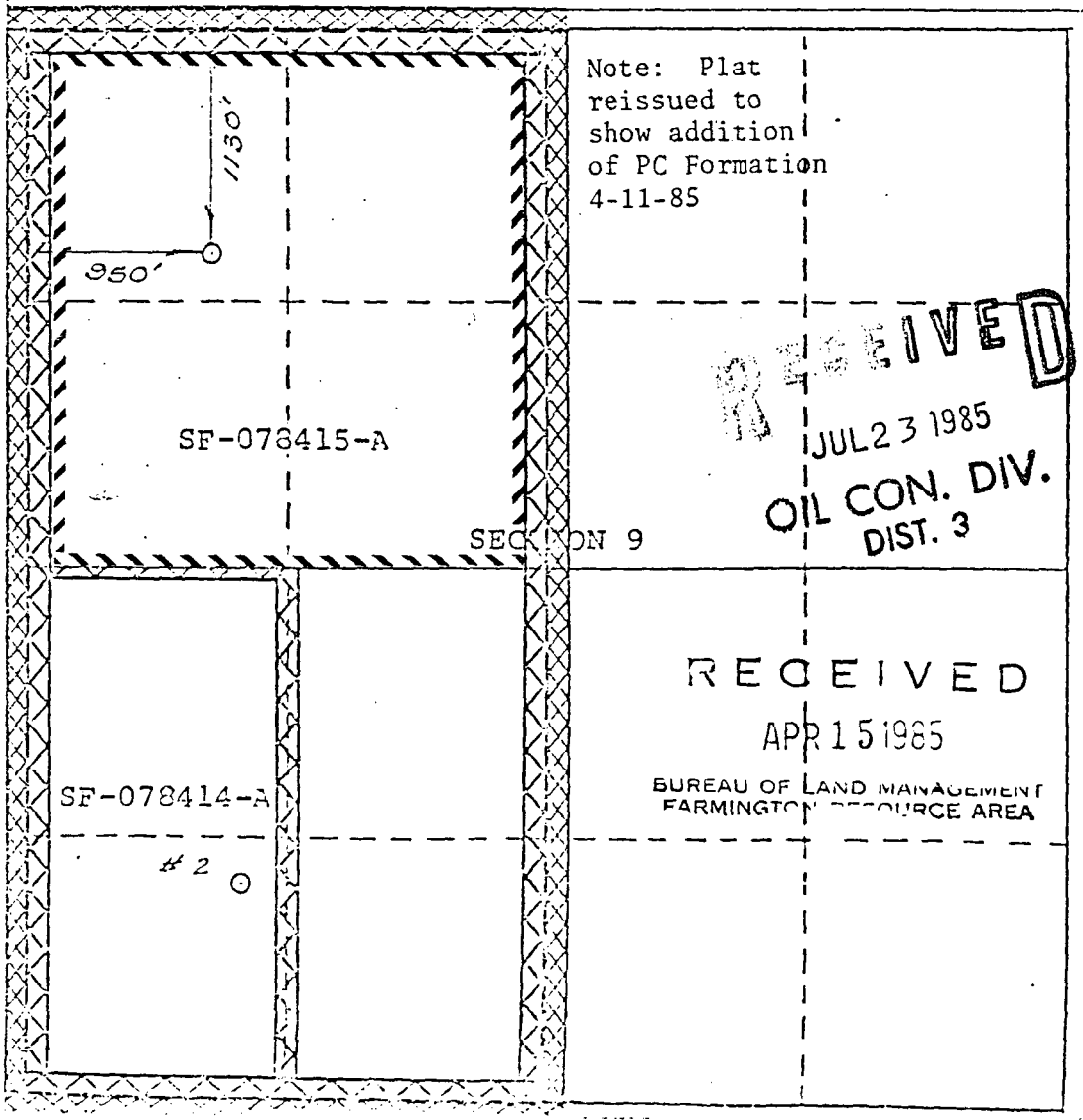
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 Consolidation

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

RECEIVED
JUL 23 1985
OIL CON. DIV.
DIST. 3

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.

Peggy Cole

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
Sort By : None selected in Report Options.

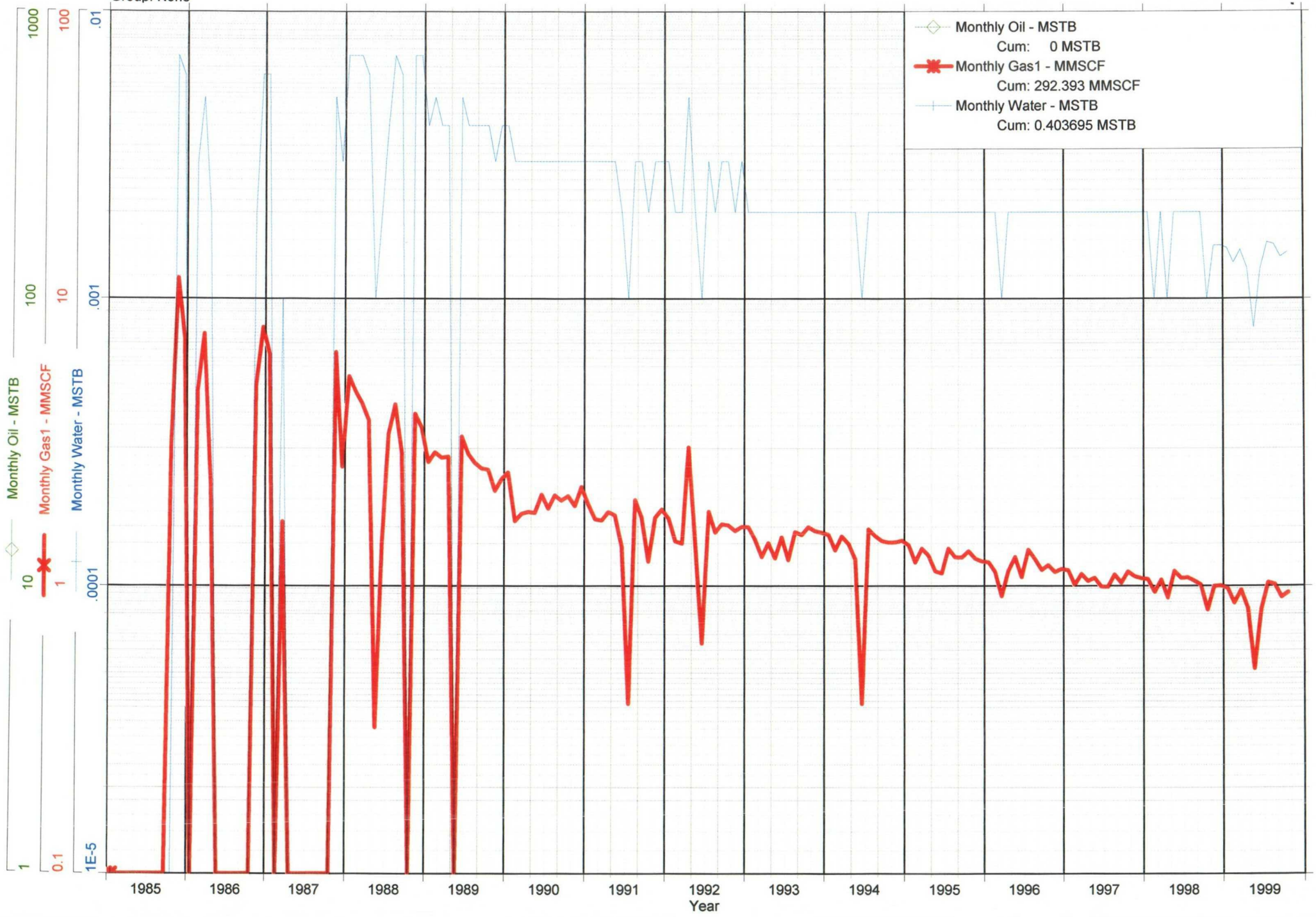
Pressure Base : None
Units : A.P.I.
Rounded (y/n) : No

Report Number : R_031
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%

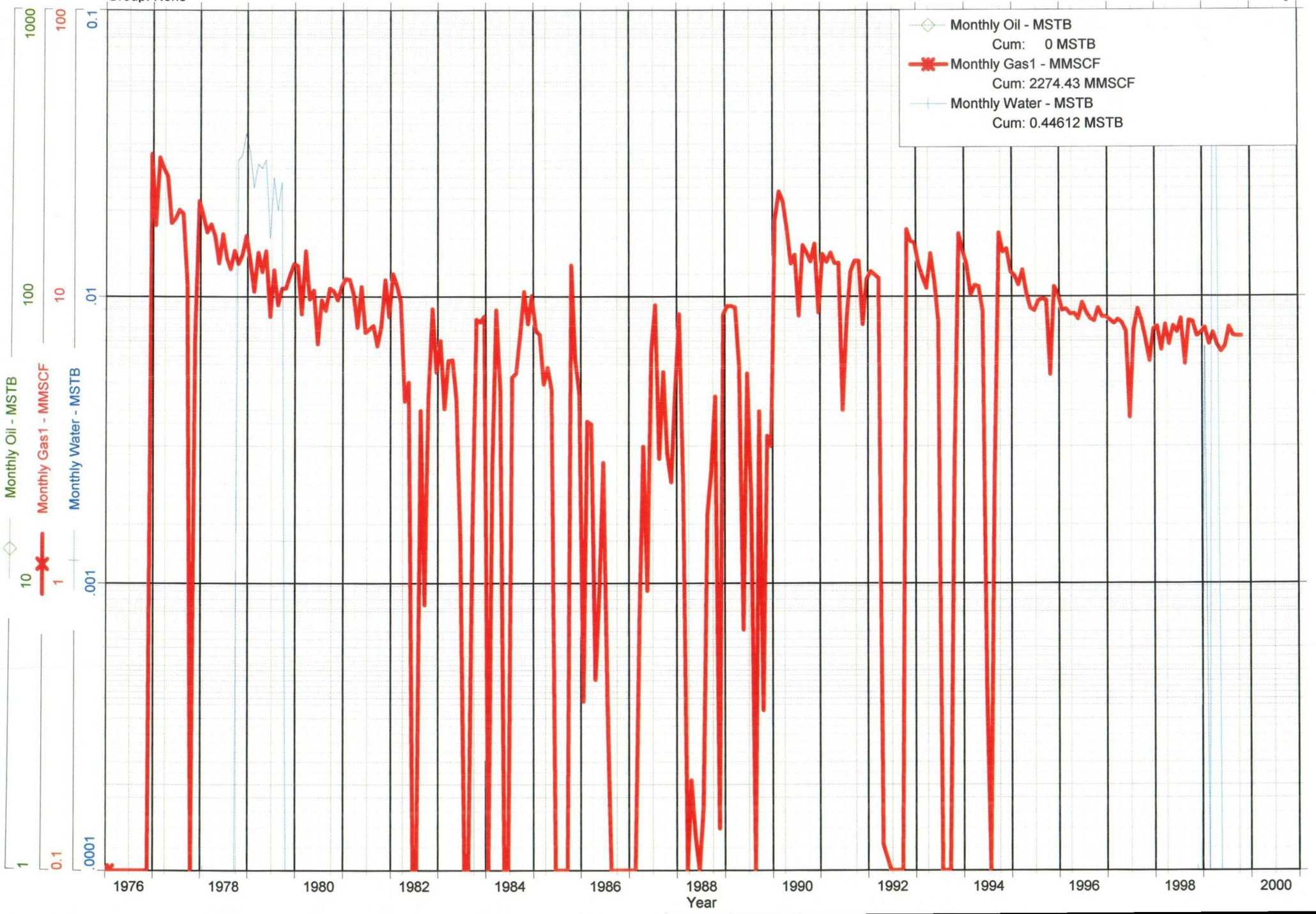
DAY 2A 4820302 (281663717220.567) Data: Jan.1985-Oct.1999

Operator: BURLINGTON RESOURCES OIL _GAS CO
Field: BLANCO PICTURED CLIFFS (GAS)
Zone:
Type: Gas
Group: None



DAY 2A 4820301 (263235707309.159) Data: Jan.1976-Oct.1999

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.

Operator	Lease	Well No.
EL PASO NATURAL GAS COMPANY	DAY (SF-078415-A)	2-A

Unit Letter	Section	Township	Range	County
D	9	29-N	8-W	SAN JUAN

Actual Footage Location of Well: 1130 feet from the NORTH line and 950 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage: 160.0&
6479	MESA VERDE	BLANCO MESA VERDE	320.00 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

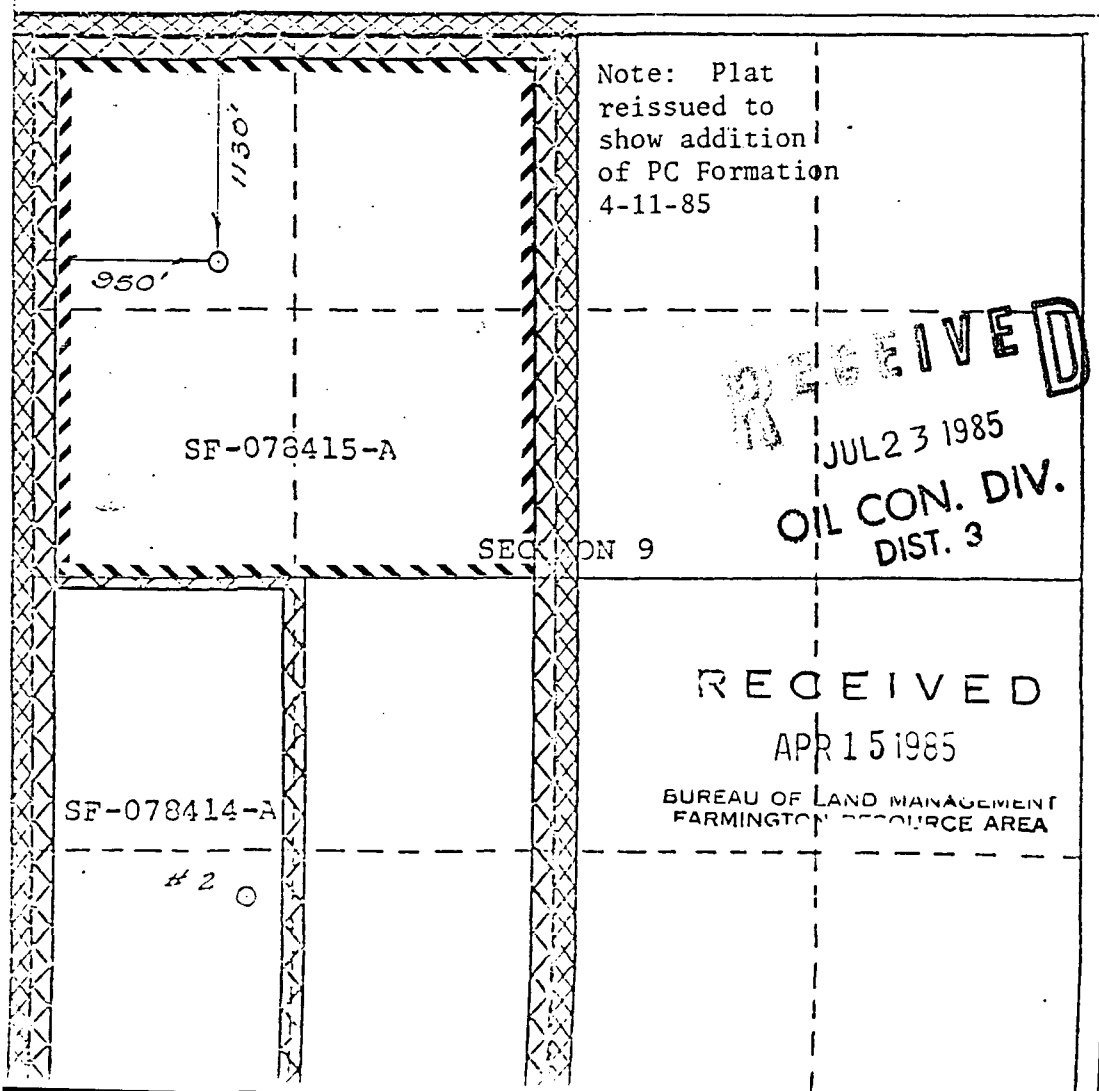
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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

RECEIVED
JUL 23 1985
OIL CON. DIV.
DIST. 3

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.

Peggy Cole

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

Day #2A
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method

Version 1.0 3/13/94

Mesaverde

MV-Current

GAS GRAVITY	0.754
COND. OR MISC. (C/M)	M
%N2	0.23
%CO2	1.05
%H2S	0
DIAMETER (IN)	4.052
DEPTH (FT)	5233
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	140
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	104
BOTTOMHOLE PRESSURE (PSIA)	119.1

MV-Original

GAS GRAVITY	0.754
COND. OR MISC. (C/M)	M
%N2	0.23
%CO2	1.05
%H2S	0
DIAMETER (IN)	4.052
DEPTH (FT)	5233
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	140
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	680
BOTTOMHOLE PRESSURE (PSIA)	793.1

Pictured Cliffs

PC-Current

GAS GRAVITY	0.639
COND. OR MISC. (C/M)	M
%N2	0.13
%CO2	0.62
%H2S	0
DIAMETER (IN)	6.456
DEPTH (FT)	3179
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	253
BOTTOMHOLE PRESSURE (PSIA)	272.1

PC-Original

GAS GRAVITY	0.639
COND. OR MISC. (C/M)	M
%N2	0.13
%CO2	0.62
%H2S	0
DIAMETER (IN)	6.456
DEPTH (FT)	3179
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	961
BOTTOMHOLE PRESSURE (PSIA)	1043.2

DAY 2A (MV)

AI Number: 4820301 **Meter Number:** 89512

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

DAY 2A (PC)

AI Number: 4820302 **Meter Number:** 95365

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

API # 30-045-21779

STATE OF NEW MEXICO
ENERGY and MINERALS
DEPARTMENT

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

OIL CONSERVATION DIVISION

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

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

FLOW TEST NO. 1

Commenced at (hour,date)* 06/15/1999 Zone producing (Upper or Lower) LOWER

TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE Upper Completion	PRESSURE Lower Completion	PROD. ZONE TEMP	REMARKS
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

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

(Continue on reverse side)

NEW MEXICO OIL CONSERVATION COMMISSION

MULTI[illegible]NT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

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

Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 7-1-85			
Company: El Paso Natural Gas				Connection:				Unit:	
Pool: Blanco				Formation: Pictured Cliffs				Unit:	
Completion Date: 7-1-85		Total Depth: 5750		Plug Back TD: 5728		Elevation: 6479 GR		Farm or Lease Name: Day	
Csg. Size: 7.000	Wt.: 20	d: 6.456	Set At: 3404	Perforations: From *3156 To 3202				Well No.: #2A	
Tbg. Size: 1.610	Wt.: 2.4	d: 1.380	Set At: 3193	Perforations: From To				Unit: D	Sec.: 9	Twp.: 29	Rge.: 8
Type Well – Single – Bradenhead – 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				State: New Mexico	
L	H	Gg: .680	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps	

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
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 Fg	Super Compress. Factor, Fpv	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
1				
2.				
3.				
4.				
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure _____ P.S.I.A. _____ P.S.I.A.
Critical Temperature _____ R _____ R

P_c 973 P_c^2 946729

NO	P_t	P_w	P_w^2	$P_c^2 - P_w^2$
1		615	378225	568504
2				
3				
4				
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{946729}{568504}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.5427$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n =$ 2610

Absolute Open Flow 2610 Mcfd @ 15.025 | Angle of Slope θ _____ | Slope, n .85

Remarks: *4.500 "Liner 3247' - 5728'
Blew dry gas throughtout test.
Gas vented during test = 233 MCF.

Approved by Commission:	Conducted By:	Calculated By:	Checked By:
	Bob Easterling	Ed Mabe	kld

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DAT

DATE 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: 5746 PBTD 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 =	Fpv (From Tables)	Gravity Fg =	

CHOKE VOLUME = Q = C x P_t x F_t x F_g x F_{pv}

Q = = _____ MCF/D

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

Aof = $\left(\quad \right)^n$ = 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) / (Total Combined Production) = 27 MCF / 245 MCF = **11.02%**

Mesaverde (Total Mesaverde Production) / (Total Combined Production) = 218 MCF / 245 MCF = **88.98%**

Oil Allocation:

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

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