

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

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil and Gas

PO Box 4289, Farmington, NM 87499

Operator

Roelofs A

Address

#2-A

F-14-29N-08W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7437

API NO. 30-045-23149

Federal ☒ X, State, Fee

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Pictured Cliffs - 72359		Mesa Verde - 72319
2. Top and Bottom of Pay Section (Perforations)	3036'-3164'		4688'-5653'
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. 510psi (see attachment) (Original) b. 796 psi (see attachment)		a. 265 psi (see attachment) b. 697 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1116		BTU 1123
7. Producing or Shut-In?	Producing		Producing
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: N/A Rates:		Date: N/A Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 3/98 Rates: 8 mcf/d 0.0 bopd		Date: 3/98 Rates: 10 mcf/d 0.4 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 ☐ 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. NMOC 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.
- * 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 Mary Ellen Lutey TITLE Production Engineer DATE 3/19/98TYPE OR PRINT NAME Mary Ellen Lutey TELEPHONE NO. (505) 326-9700

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-1
Effective 1-1-6.

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

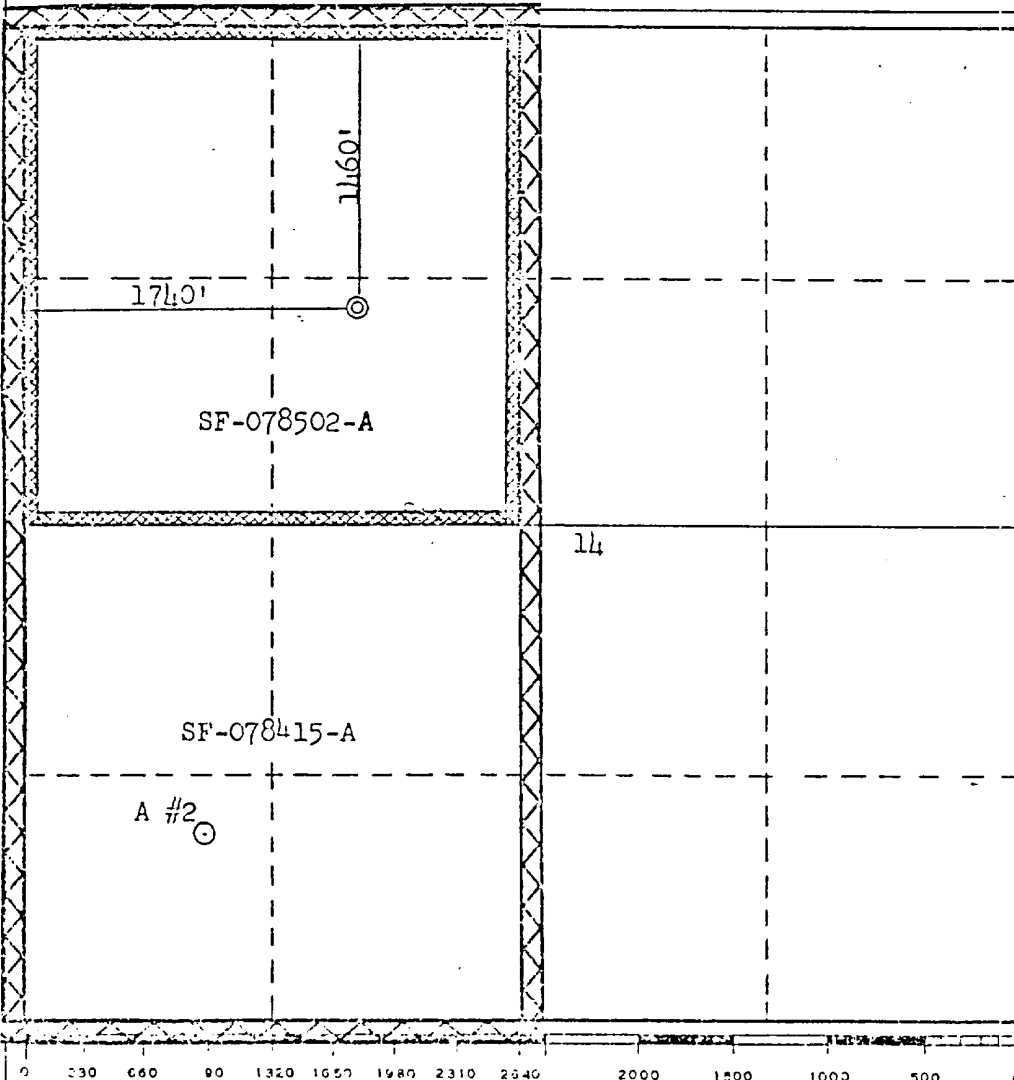
Operator EL PASO NATURAL GAS COMPANY			Lease ROELOFS "A" (SF-078502-A)		Well No. 2A
Well Letter F	Section 14	Township 29N	Range 8W	County San Juan	
Actual Footage Location of Well: 1160 feet from the North line and 1740 feet from the West line					
Ground Level Elev. 6345	Producing Formation Pictured Cliffs-Mesa Verde		Pool Blanco Pictured Cliffs Blanco Mesa Verde		Dedicated Acreage: 160.00 & 320.00 acre

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 _____

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.

N. G. Brisco

Name
Drilling Clerk

Position
El Paso Natural Gas Co.

Date
July 20, 1978

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 Survey

Registered Land Surveyor

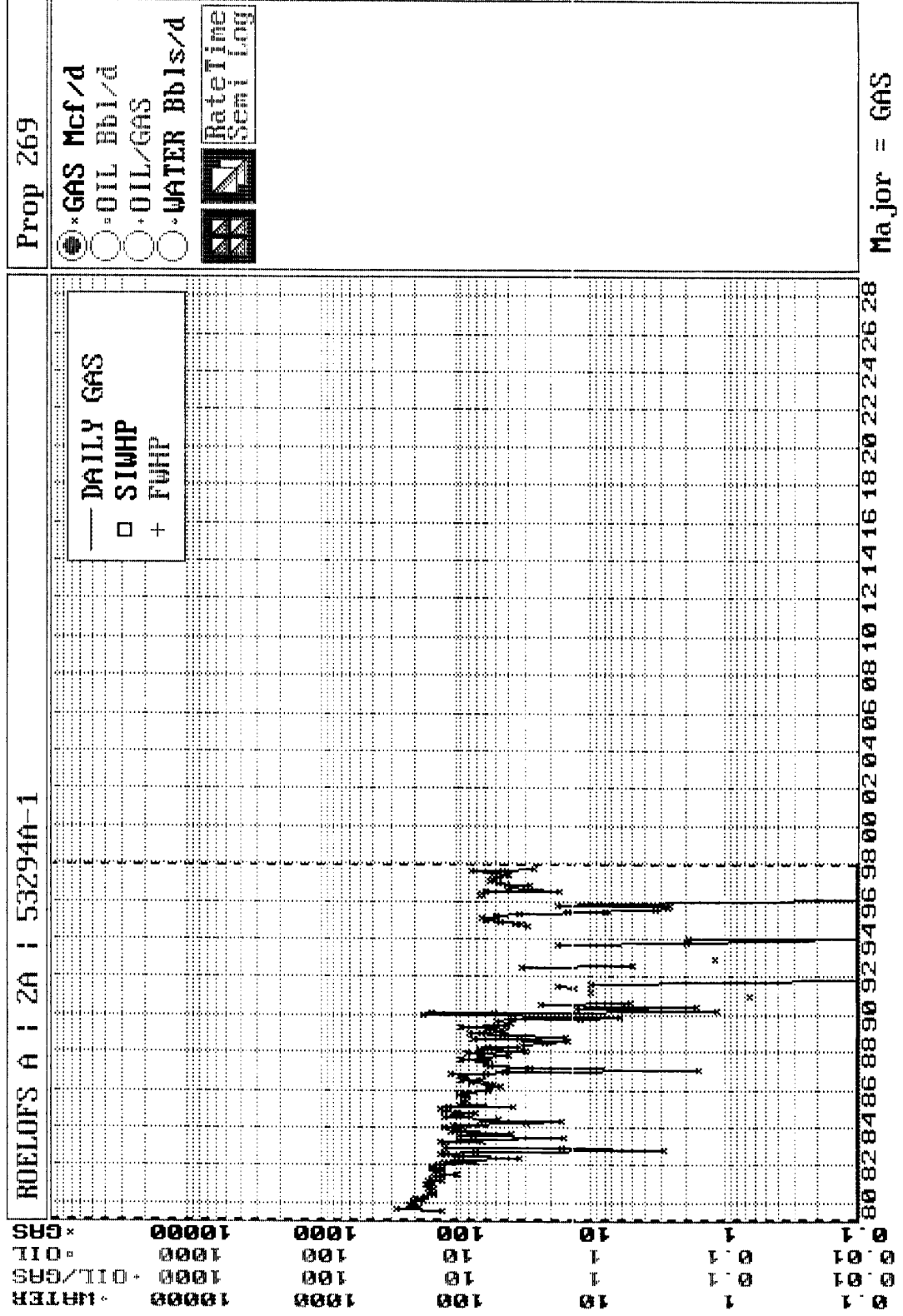
Registration No.

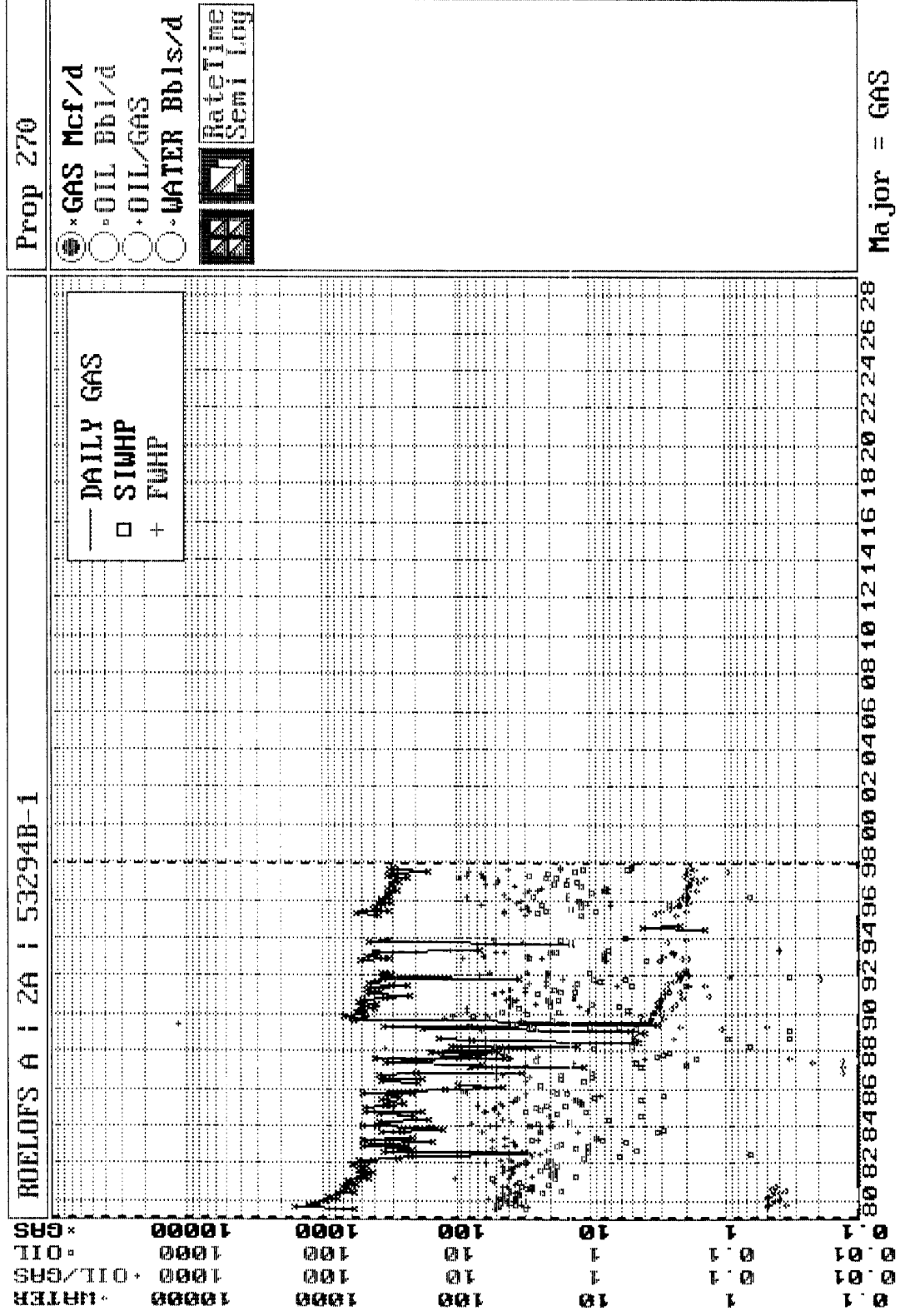
and/or License No.

3950

Exhibit

Certificate No.





FARMINGTON

1998 MONTHLY PRODUCTION FOR 53294A

PHS030M1

ROELOFS A 2A

BLANCO PICTURED CLIFFS (GAS) FIELD

PICTURED CLIFFS ZONE

DAYS =====			OIL =====			=====			GAS =====					
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F					01	.19	31	1150	15.025			
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

.31

.6

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTION
PRS 03/04/98

00/00/00 00:00:00:0

FARMINGTON

1998 MONTHLY PRODUCTION FOR 53294B

PHS030M1

ROELOFS A 2A

BLANCO MESAVERDE (PRORATED GAS FIELD

MESAVERDE ZONE

DAYS =====			OIL =====			=====			GAS =====					
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F		02	13		01	309			15.025		2	
2					<u>131</u>			<u>309</u>						
3					.4			10						
4														
5														
6														
7														
8														
9														
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTION
PRS 03/04/98

00/00/00 00:00:00:0

PC

Page No.: 34
 Print Time: Thu Jun 26 08:10:11 1997
 Property ID: 6682
 Property Name: ROELOFS A | 2A | 53294A-1
 Table Name: K:\ARIES\RR98PDP\TEST.DBF

--DATE--	--CUM OIL-- Bbl	---CUM GAS-- Mcf	M SIWHP Psi
01/01/78		0	692.0
09/04/79		18036	590.0
07/18/80		72989	524.0
06/11/81		122227	507.0
05/19/82		161163	507.0
09/19/84		226342	521.0
12/15/92		360787	446.0

**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	0.14
%CO2	0.74
%H2S	0
DIAMETER (IN)	1.6
DEPTH (FT)	5378
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	115
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	692
BOTTOMHOLE PRESSURE (PSIA)	796.1

ROELOFS A #2A PICTURED CLIFFS - (ORIGINAL)

**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	0.14
%CO2	0.74
%H2S	0
DIAMETER (IN)	1.6
DEPTH (FT)	5378
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	115
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	446
BOTTOMHOLE PRESSURE (PSIA)	509.9

ROELOFS A #2A PICTURED CLIFFS - (CURRENT)

mv

Page No.: 33
Print Time: Thu Jun 26 08:10:10 1997
Property ID: 3710
Property Name: ROELOFS A | 2A | 53294B-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

<u>--DATE--</u>	<u>--CUM_OIL--</u> Bbl	<u>---CUM_GAS---</u> Mcf	<u>M_SIWHP</u> Psi
10/31/78		0	600.0
09/04/79		101058	553.0
07/18/80		361786	444.0
06/11/81		554816	427.0
02/10/83		775105	454.0
09/19/84		910971	421.0
09/03/86		1122100	382.0
09/07/89		1240924	374.0
01/24/91		1478280	208.0
06/14/91		1537158	220.0
07/15/93		1722150	267.0
11/29/93		1738454	230.0

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	C
%N2	0.2
%CO2	1.07
%H2S	0
DIAMETER (IN)	1.9
DEPTH (FT)	5647
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	155
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	600
BOTTOMHOLE PRESSURE (PSIA)	697.2

ROELOFS A #2A MESA VERDE - (ORIGINAL)

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.72
COND. OR MISC. (C/M)	C
%N2	0.2
%CO2	1.07
%H2S	0
DIAMETER (IN)	1.9
DEPTH (FT)	5647
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	155
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	230
BOTTOMHOLE PRESSURE (PSIA)	264.6

ROELOFS A #2A MESA VERDE - (CURRENT)

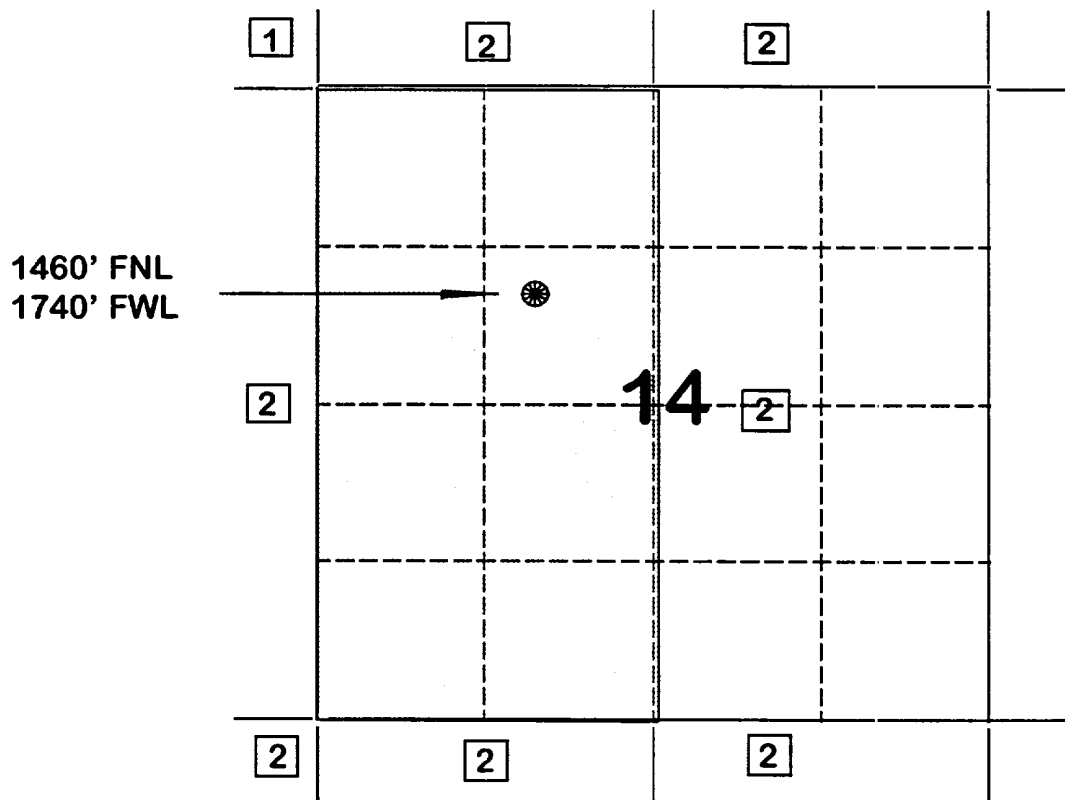
BURLINGTON RESOURCES OIL AND GAS COMPANY

Roelofs A #2A

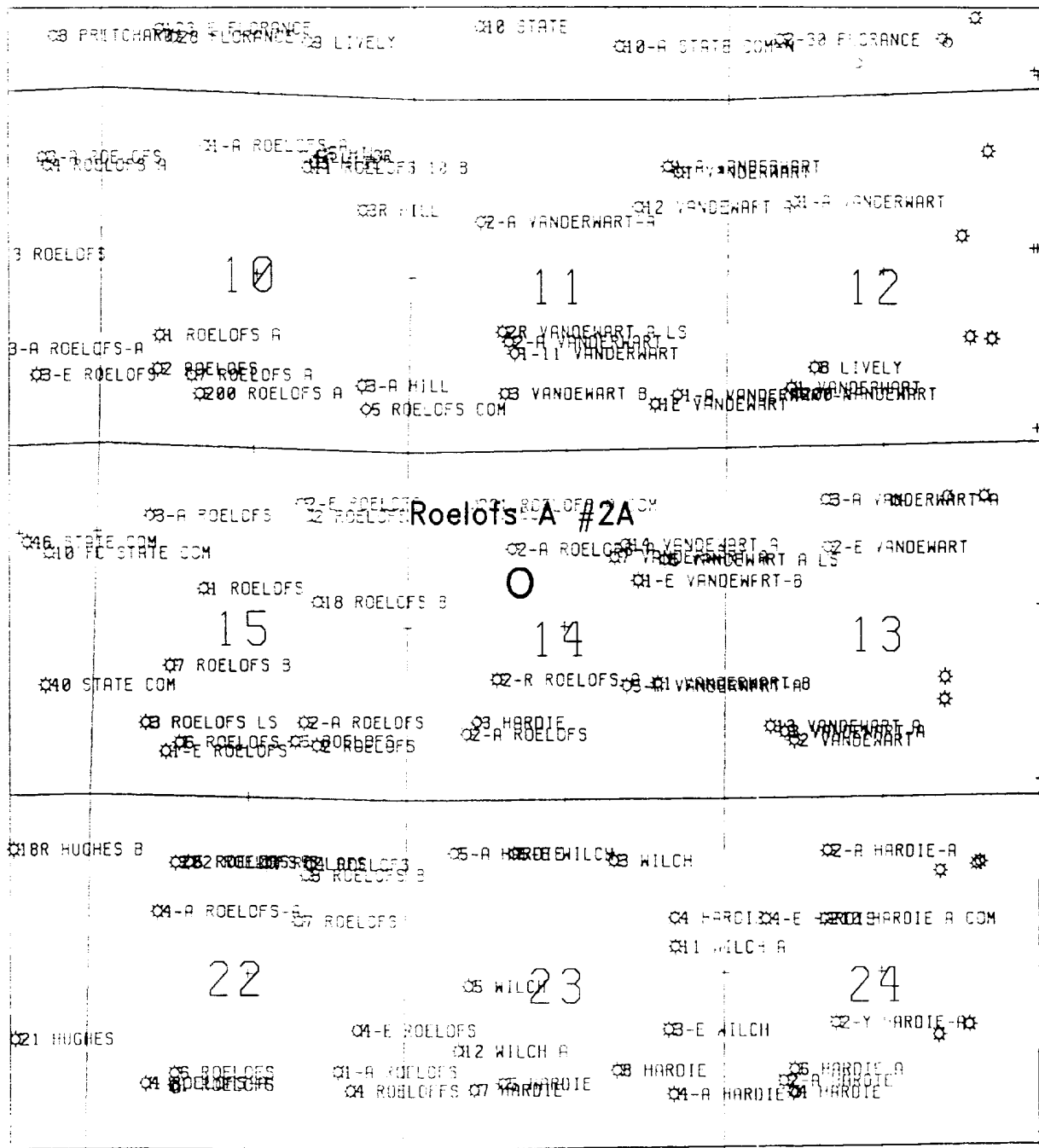
OFFSET OPERATOR \ OWNER PLAT

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

Township 29 North, Range 8 West



- 1) Burlington Resources
- 2) Amoco Production Company
c/o Bruce Zimney
P.O. Box 800
Denver, CO 80201



Roelofs A #2A
F Sec 14 T29N, R08W
PC / MV