

DATE IN 3/20/98	SUSPENSE 4/9/98	ENGINEER DC	LOGGED MN	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -

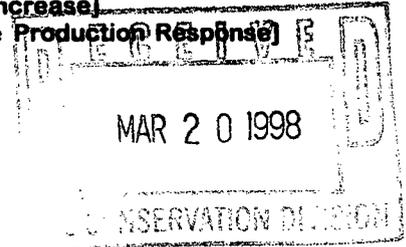
900

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  
 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]  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 Bradford  
  
 Print or (Type Name) Signature

Regulatory/Compliance Administrator

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

**OIL CONSERVATION DIVISION**

2040 S. Pacheco  
Santa Fe, New Mexico 87505-6429

**APPLICATION FOR DOWNHOLE COMMINGLING**

**APPROVAL PROCESS :**

Administrative  
 Hearing

**EXISTING WELLBORE**

YES  NO

**Burlington Resources Oil and Gas**

**PO Box 4289, Farmington, NM 87499**

Operator **Roelofs A** #2-A Address **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  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)		a. 265 psi (see attachment)
	(Original) b. 796 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		<input checked="" type="checkbox"/> 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  * If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: N/A Rates:		Date: N/A Rates:
	Date: 3/98 Rates: 6 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  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) \_\_\_\_\_

**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 3/19/98

TYPE 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-128  
Effective 1-1-65

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

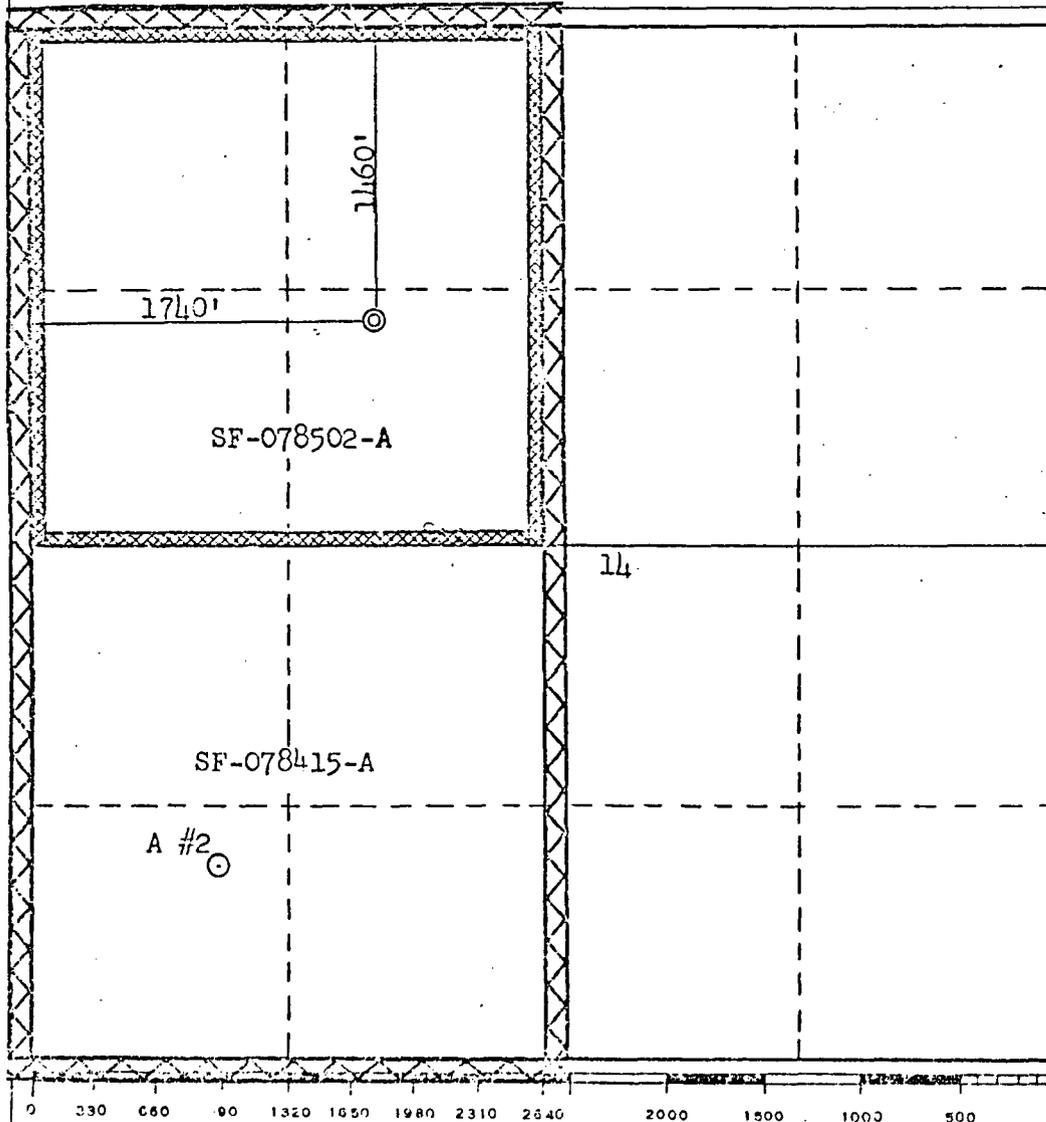
Operator <b>EL PASO NATURAL GAS COMPANY</b>		Lease <b>ROELOFS "A" (SF-078502-A)</b>		Well No. <b>2A</b>
Unit Letter <b>F</b>	Section <b>14</b>	Township <b>29N</b>	Range <b>8W</b>	County <b>San Juan</b>
Actual Footage Location of Well: <b>1460</b> feet from the <b>North</b> line and <b>1740</b> feet from the <b>West</b> line				
Ground Level Elev. <b>6345</b>	Producing Formation <b>Pictured Cliffs-Mesa Verde</b>	Pool <b>Blanco Pictured Cliffs Blanco Mesa Verde</b>	Dedicated Acreage: <b>160.00 &amp; 320.00</b> 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 \_\_\_\_\_

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.

*D. G. Brisco*

Name  
Drilling Clerk

Position  
El Paso Natural Gas Co.

Given by  
July 20, 1978

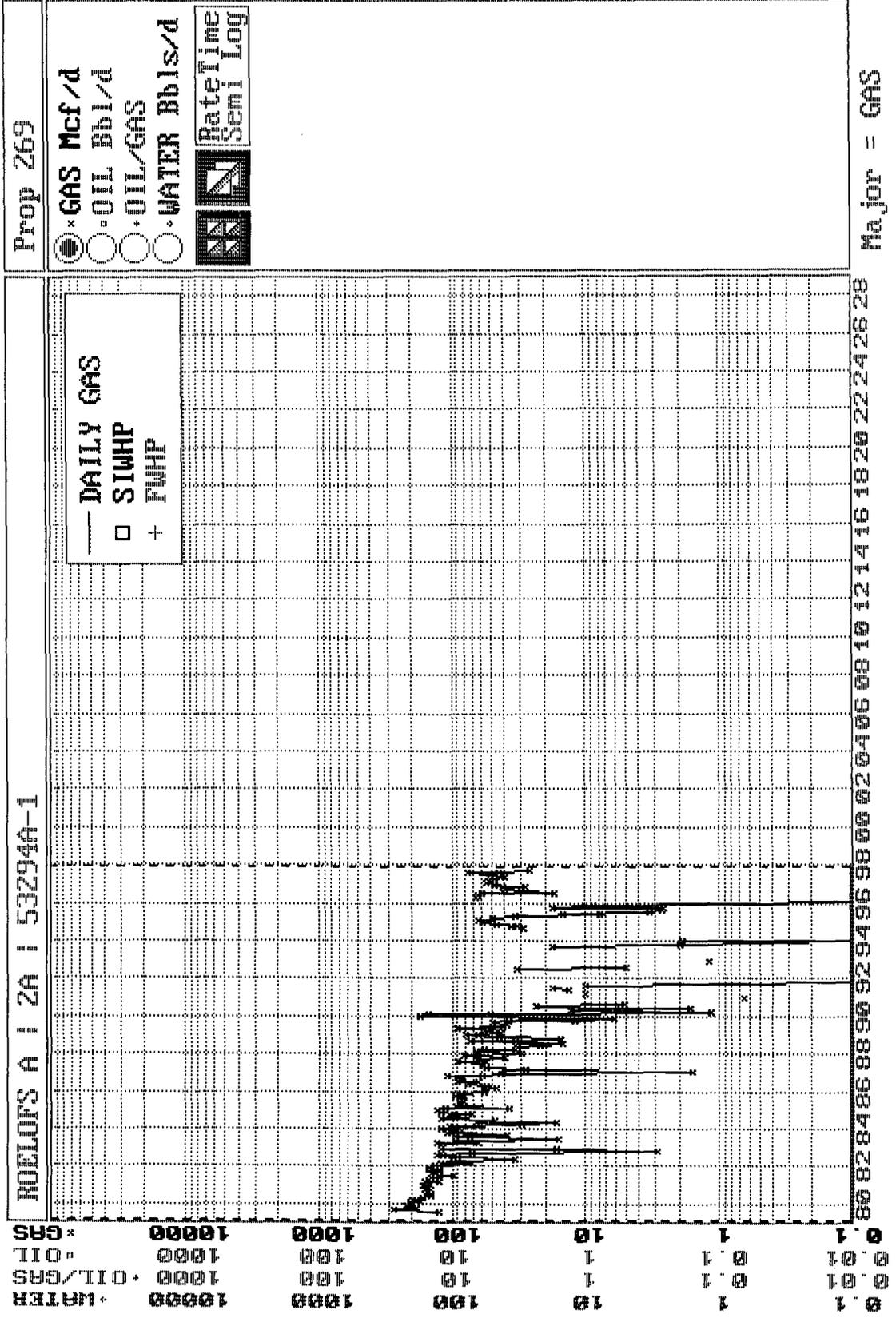
Date

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.

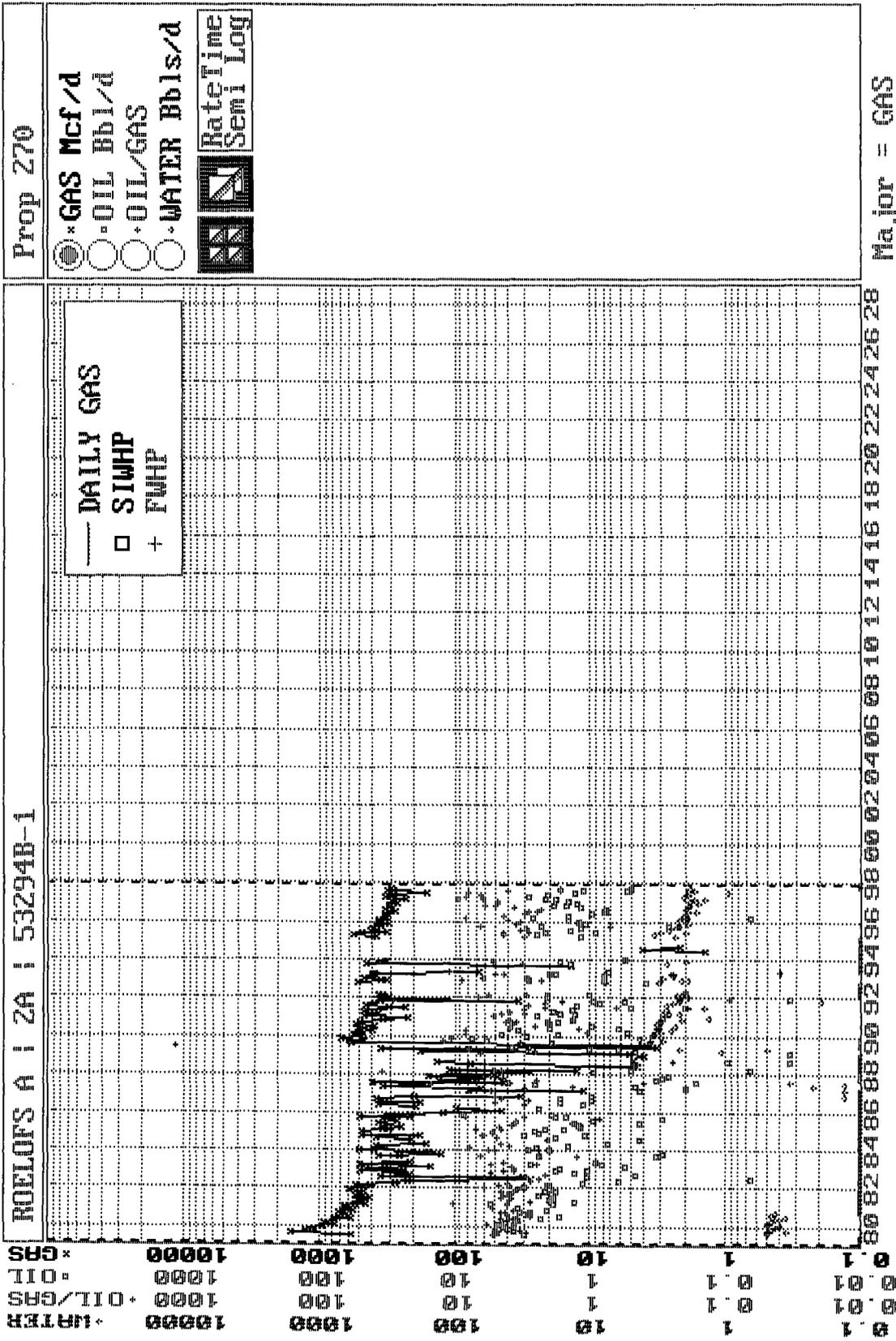
Date Surveyed  
July 20, 1978  
Registered Land Surveyor  
No. 2050

By *[Signature]*  
F. J. Kelly, Jr.

Certificate No. 3950



Major = GAS



Major = GAS

FARMINGTON

1998 MONTHLY PRODUCTION FOR 53294A

PHS030M1

ROELOFS A 2A

BLANCO PICTURED CLIFFS (GAS) FIELD

PICTURED CLIFFS ZONE

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

$$\begin{array}{r} .19 \\ \times 31 \\ \hline .6 \end{array}$$

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

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

PRS 03/04/98

FARMINGTON

1998 MONTHLY PRODUCTION FOR 53294B

PHS030M1

ROELOFS A 2A

BLANCO MESAVERDE (PRORATED GAS FIELD

MESAVERDE ZONE

MO	T	S	DAYS =====		OIL =====			GAS =====				WATER	PROD	C
			ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS			
1	2	F		02	13		01	309		15.025		2		
2					<u>7.31</u>			<u>7.31</u>						
3					<u>0.4</u>			<u>1.0</u>						
4														
5														
6														
7														
8														
9														
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

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

PRS 03/04/98

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

<u>--DATE--</u>	<u>--CUM OIL--</u>	<u>---CUM GAS---</u>	<u>M SIWHP</u>
	Bbl	Mcf	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	<u>0.72</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.2</u>
%CO2	<u>1.07</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>1.9</u>
DEPTH (FT)	<u>5647</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>155</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>600</u>
BOTTOMHOLE PRESSURE (PSIA)	<u>697.2</u>

ROELOFS A #2A MESA VERDE - (ORIGINAL)

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

VERSION 1.0 3/13/94

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

ROELOFS A #2A MESA VERDE - (CURRENT)

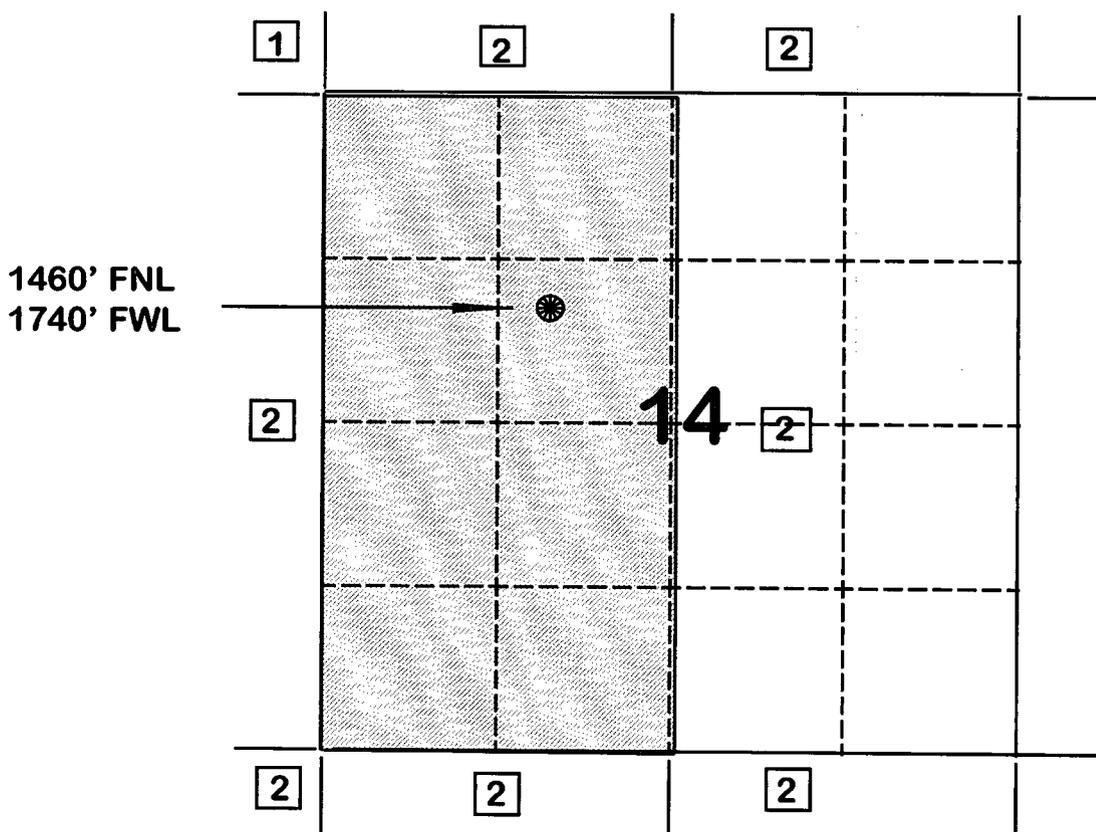
**BURLINGTON RESOURCES OIL AND GAS COMPANY**

**Roelofs A #2A**

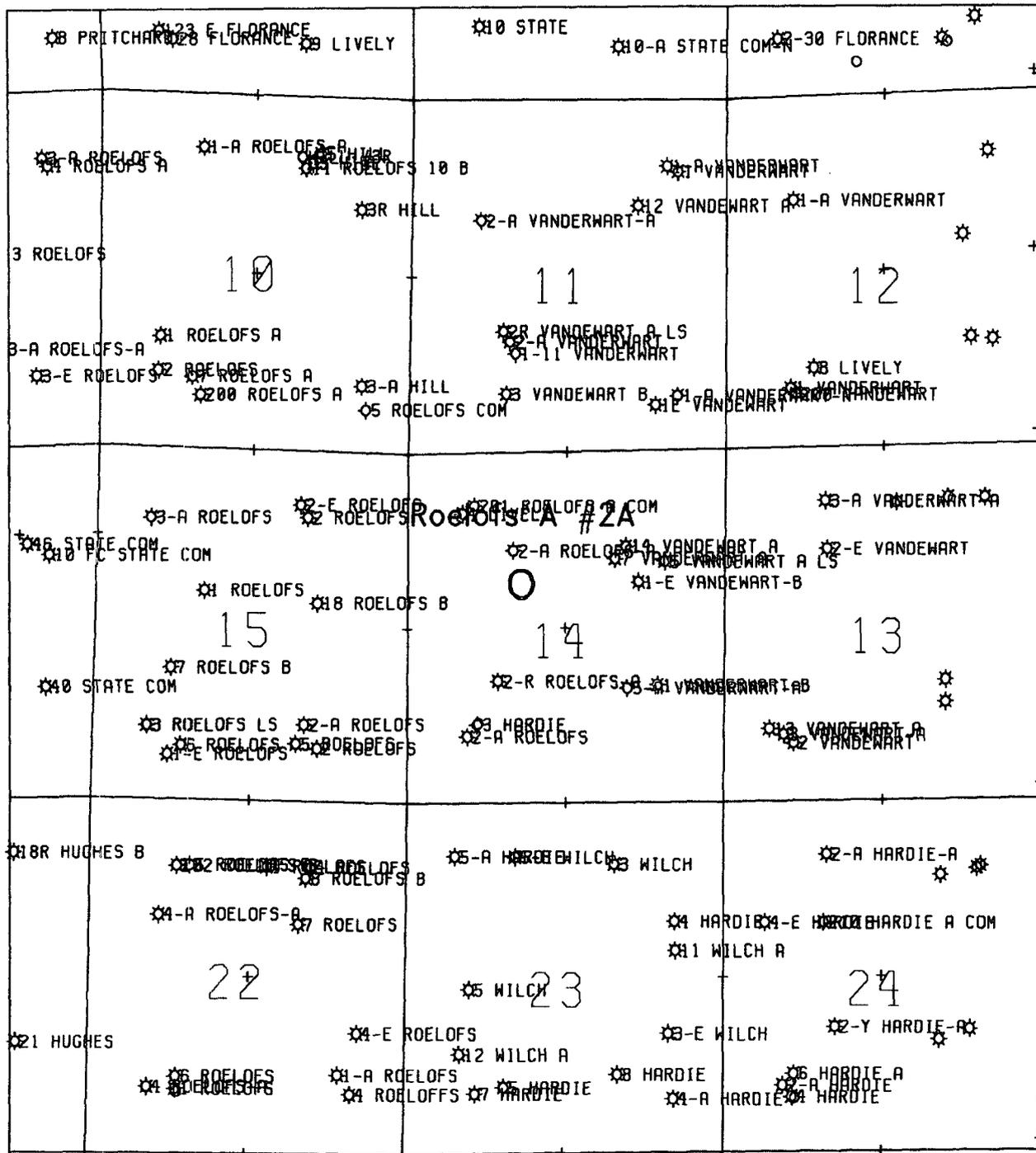
**OFFSET OPERATOR \ OWNER PLAT**

**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*