

DATE IN 3/15/99	SUSPENSE 4/5/99	ENGINEER DC	LOGGED BY KW	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

2040 South Pacheco, Santa Fe, NM 87505



2263

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

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

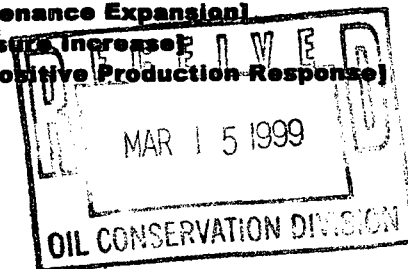
Check One Only for [B] or [C]

[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 - Certification

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 (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

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

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil and Gas PO Box 4289, Farmington, NM 87499

Operator	Address		
Roelofs	A #1A	C-10-29N-8W	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. 30-045-21780	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		Mesaverde - 72399
2. Top and Bottom of Pay Section (Perforations)	3033'-3097'		4660'-5584'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	(Current) a. 452 psi (see attachment) Offset well - Roelofs A#2A		a. 243 psi (see attachment)
Oil Zones - Artificial Lift: Estimated Current	(Original) b. 767 psi (see attachment)		b. 794 psi (see attachment)
Gas & Oil - Flowing: Measured Current			
All Gas Zones: Estimated or Measured Original			
6. Oil Gravity ($^{\circ}$ API) or Gas BTU Content	BTU 1223		BTU 1274
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		No
* If Shut-In and oil/gas/water rates of last production	Date: N/A Rates:		Date: N/A Rates:
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: 1/31/99 Rates: 17 mcf/d		Date: 1/31/99 Rates: 327
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. 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 3/9/99TYPE OR PRINT NAME Mary Ellen Lutey TELEPHONE NO. (505) 326-9700

LOCATION AND ACREAGE DEDICATION PLAT

Supersedes C-12
Effective 1-1-65

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

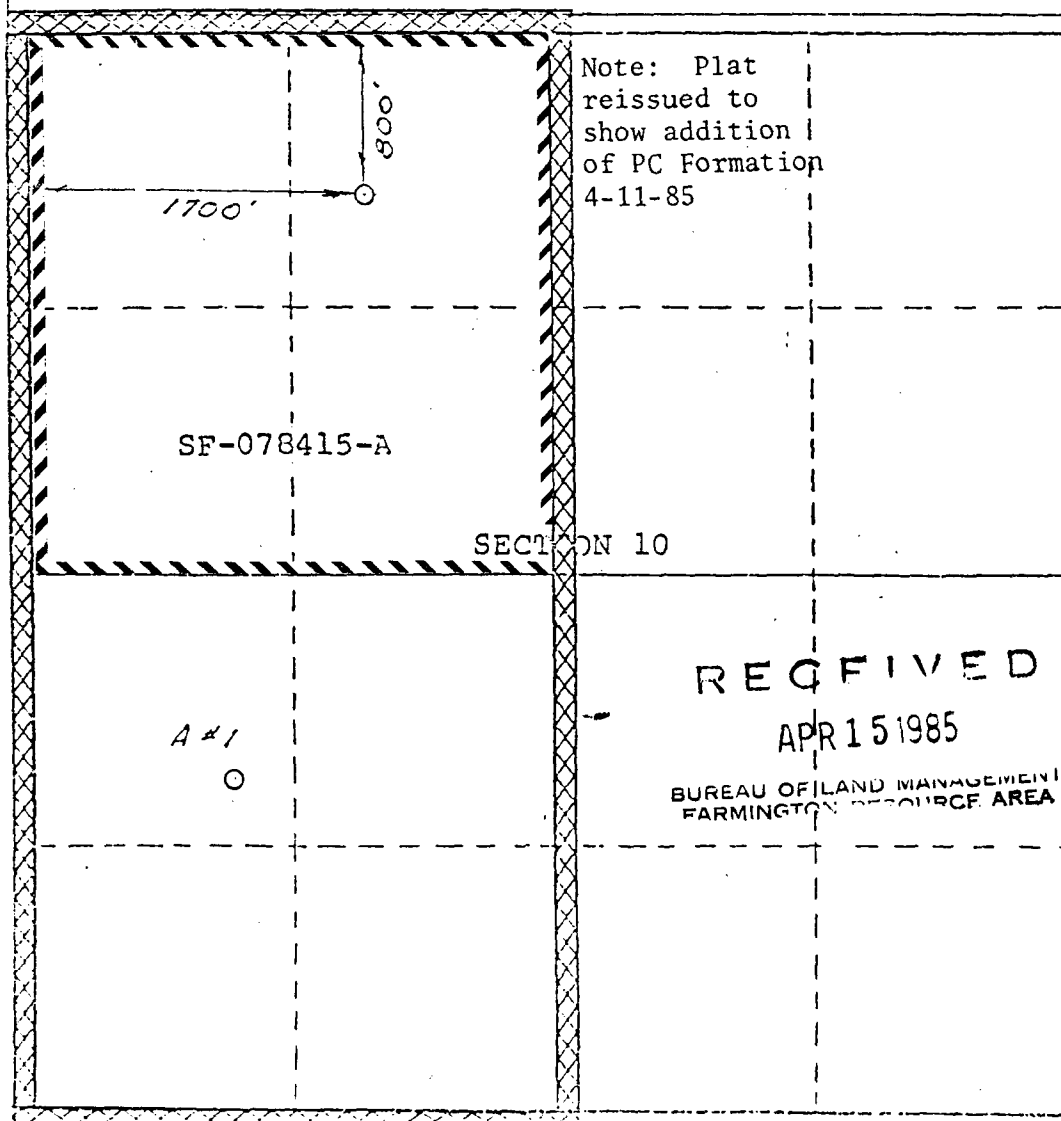
Operator EL PASO NATURAL GAS COMPANY		Lease ROELOFS A (SF-078415-A)		Well No. 1A
Unit Letter C	Section 10	Township 29-N	Range 8-W	County SAN JUAN
Actual Footage Location of Well:				
800 feet from the		NORTH line and		1700 feet from the
				WEST line
Ground Level Elev. 6319	Producing Formation MESA VERDE		Pool Blanco Pictured Cliffs	Dedicated Acreage: 160.0 320.00 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.



CERTIFICATION

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

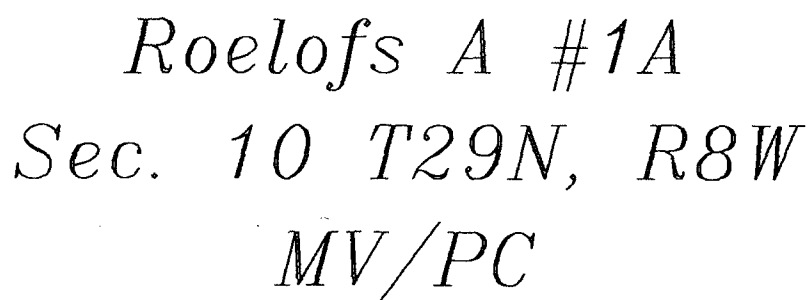
Name Reggie L. Doak
Drilling Clerk
Position
El Paso Natural Gas Co
Company
April 12, 1985
Date

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, 1975

Registered Professional Engineer
and/or Land Surveyor

Plat No. **1760**

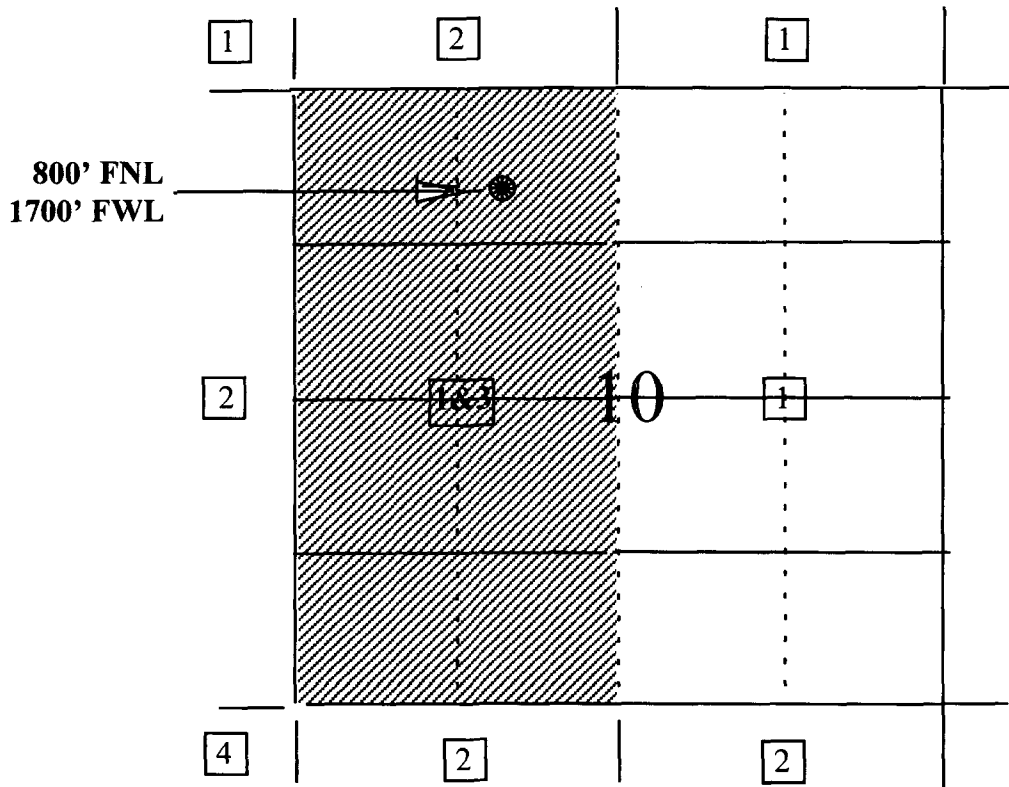
 MV/PC

BURLINGTON RESOURCES OIL AND GAS COMPANY

**Roelofs A #1A
OFFSET OPERATOR \ OWNER PLAT
Downhole Commingle**

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

Township 29 North, Range 8 West

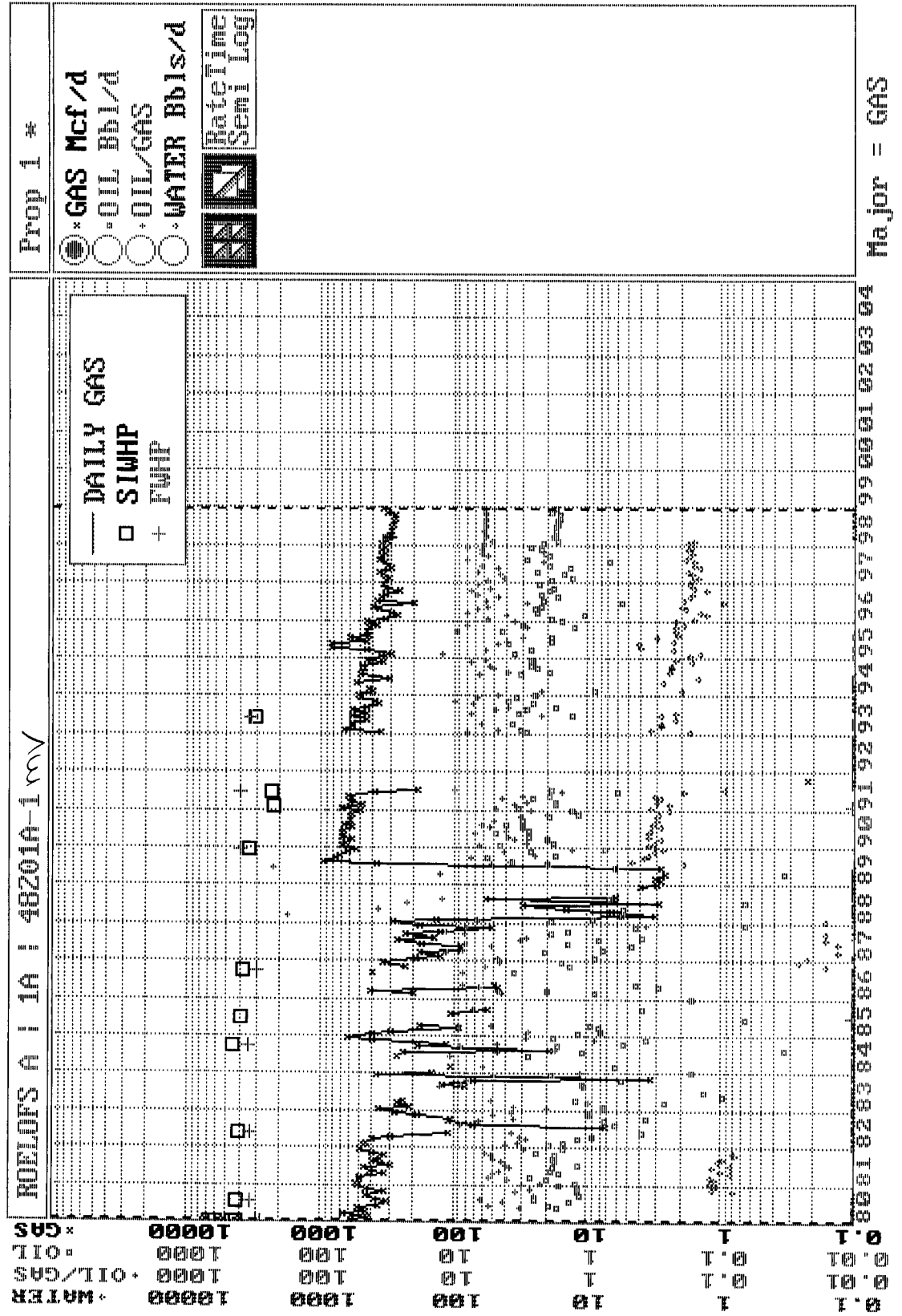


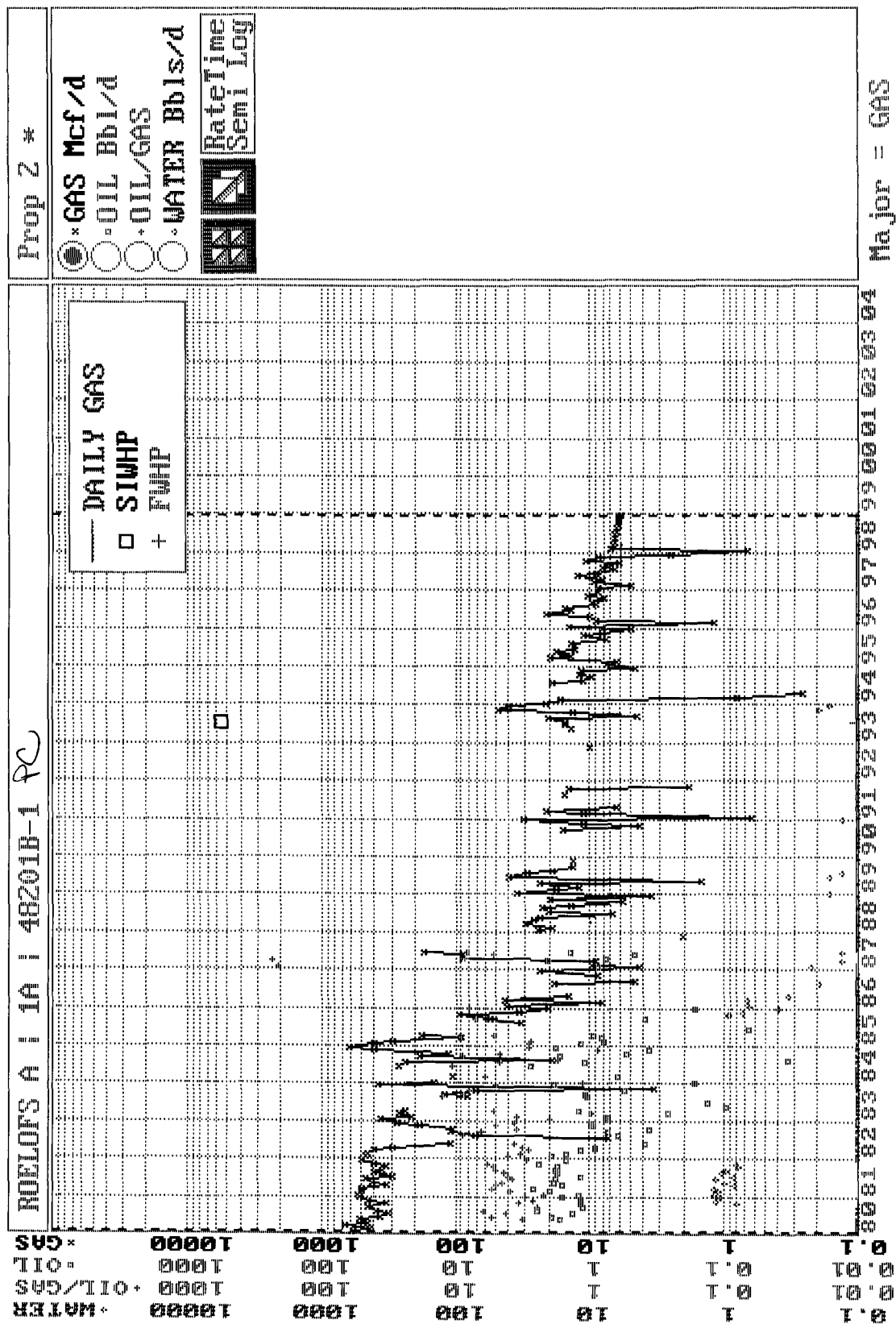
1) Burlington Resources

2) Amoco Production Company
San Juan Operation Center
200 Amoco Court
Farmington, NM 87401

3) Taurus Exploration U.S.A.
Attn: Rich Corcoran
2198 Bloomfield Hwy.
Farmington, NM 87401

4) Conoco Inc.
Attn: Lori Thorpe
10 Desta Drive, Suite 100W
Midland, TX 79705





Roelofs A #1A
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 1/14/98

Mesaverde		Pictured Cliffs	
<u>MV-Current</u>		<u>PC-Current</u>	
GAS GRAVITY	0.76	GAS GRAVITY	0.706
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.27	%N2	1.16
%CO2	0.96	%CO2	0.52
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	7
DEPTH (FT)	5122	DEPTH (FT)	3065
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	148	BOTTOMHOLE TEMPERATURE (DEG F)	112
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	212	SURFACE PRESSURE (PSIA)	417
BOTTOMHOLE PRESSURE (PSIA)	242.8	BOTTOMHOLE PRESSURE (PSIA)	452.1
<u>MV-Original</u>		<u>PC-Original</u>	
GAS GRAVITY	0.76	GAS GRAVITY	0.706
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.27	%N2	1.16
%CO2	0.96	%CO2	0.52
%H2S	0	%H2S	0
DIAMETER (IN)	2.375	DIAMETER (IN)	7
DEPTH (FT)	5122	DEPTH (FT)	3065
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	148	BOTTOMHOLE TEMPERATURE (DEG F)	112
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	683	SURFACE PRESSURE (PSIA)	704
BOTTOMHOLE PRESSURE (PSIA)	794.2	BOTTOMHOLE PRESSURE (PSIA)	767.0

Page No.: 1
 Print Time: Thu Feb 11 07:46:45 1999
 Property ID: 18
 Property Name: ROELOFS A | 2A | 53294A-1
 Table Name: S:\KGRAHAM\1999COMM\TEST.DBF

--DATE--	--CUM OIL--	---CUM GAS--	M SIWHP
	Bbl	Mcf	Psi

01/01/78		0	692.0 original
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
03/01/99		415901	405 current estimate from P12 data (offset PC well) Roelofs AZA

Page No.: 1
 Print Time: Mon Feb 08 11:52:56 1999
 Property ID: 1
 Property Name: ROELOFS A | 1A | 48201A-1
 Table Name: S:\KGRAHAM\1999COMM\TEST.DBF

<u>--DATE--</u>	<u>--CUM OIL--</u>	<u>---CUM GAS---</u>	<u>M SIWHP</u>
	Bbl	Mcf	Psi

04/20/76		0	671.0 original
07/24/76		42400	594.0
06/14/77		374348	461.0
05/24/78		641186	428.0
07/18/80		1091256	420.0
05/19/82		1364053	409.0
09/19/84		1469222	451.0
07/03/85		1533508	391.0
09/30/86		1572726	384.0
12/05/89		1783731	347.0
01/24/91		2033002	221.0
06/14/91		2114989	233.0
06/01/93		2217885	309.0
03/01/99		2981560	200 current estimate from P/Z data

Anna Celia Howell Hilton
3930 Port Royal
Dallas, TX 75244

Thornton Hardie III Trustee
Mary Elizabeth Hardie Roy Trust
1700 Pacific Ave. Ste. 3300
Dallas, TX 75201

Ben Howell Langford
C/O Everen Securities Inc.
201 E. Main Ste. 900
El Paso, TX 79901

Chase Bank of Texas NA Trustee
Howell Grandchildrens Trust
Acct. #5547400
PO Box 201595
Houston, TX 772161595

Jane Hardie Trustee
William B. Hardie Sr. Royalty Trust
1065 Los Jardines
El Paso, TX 79912

George Anne Scharhag Pers. Rep.
Kathlyn H. Gibson Estate
PO Box 546
Tesuque, NM 87574

Olen F. Featherstone II
1801 W. Second St.
Roswell, NM 88201

Chase Bank of Texas NA Trustee
Ben R Howell Trust
Acct. # 5547600
PO Box 201595
Houston, TX 772161595

Jane Manning Pitkin
503 W. Duarte Rd. 6
Arcadia, CA 91007

Joseph C. Jastrzembski
911 1st ST NE
Minot, ND 58703

Mabelle Bramhall Trustee
Mabelle H Sowers Royalty Trust
5026 Augusta Circle
College Station, TX 77845

Elizabeth H. Lund Trustee
Elizabeth H. Lund Royalty Trust
6128 Sierra Valle Ln.
El Paso, TX 799121707

Richard Parker Langford
816 Espolon Dr.
El Paso, TX 799121707

Harvey E. & Jane E. Roelofs Trustees
Harvey & Jane Roelofs Rev. Trust
2245 Lone Oak Ln.
Vista, CA 92084

Emilie M. Hardie Royalty Trust
1065 Los Jardines
El Paso, TX 79912

Hanson McBride Petroleum Co.
PO Box 1515
Roswell, NM 882021515

Linda Payne Trustee
Elizabeth White Family Trust
PO Box 780099
Dallas, TX 753780099

Kathlyn Nora Black Trustee
Mabel Glenn Ham Rev. Trust
921 Grecian NW
Albuquerque, NM 87107

Ethel Parnell
503 W Duarte Rd. Apt. 5
Arcadia, CA 91007

~~Minerals Management Service
Royalty Management Program
PO Box 5810
Denver, CO 802175810~~

Patricia G. Harvey
PO Box 257
Lake Clear, NY 129450257

R H Feuille
C/O Scott & Hulse
11th Floor
Texas Commerce Bank Bldg.
El Paso, TX 79901

Glenn D. Hughes Estate
2321 Candelaria NW
Albuquerque, NM 87107

John A Grambling
916 Cherry Hill Ln.
El Paso, TX 79912

Emily D. Gambling
916 Cherry Hill Ln.
El Paso, TX 79912