

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 Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 452 psi (see attachment) Offset well - Roelofs A#2A (Original) b. 767 psi (see attachment)		a. 243 psi (see attachment) b. 794 psi (see attachment)
6. Oil Gravity (° 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 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 water of recent test (within 60 days)	Date: N/A Rates:		Date: N/A Rates:
	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

UNIT LOCATION AND ACREAGE DEDICATION PLAT

Supersedes C-12
Effective 1-1-65

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

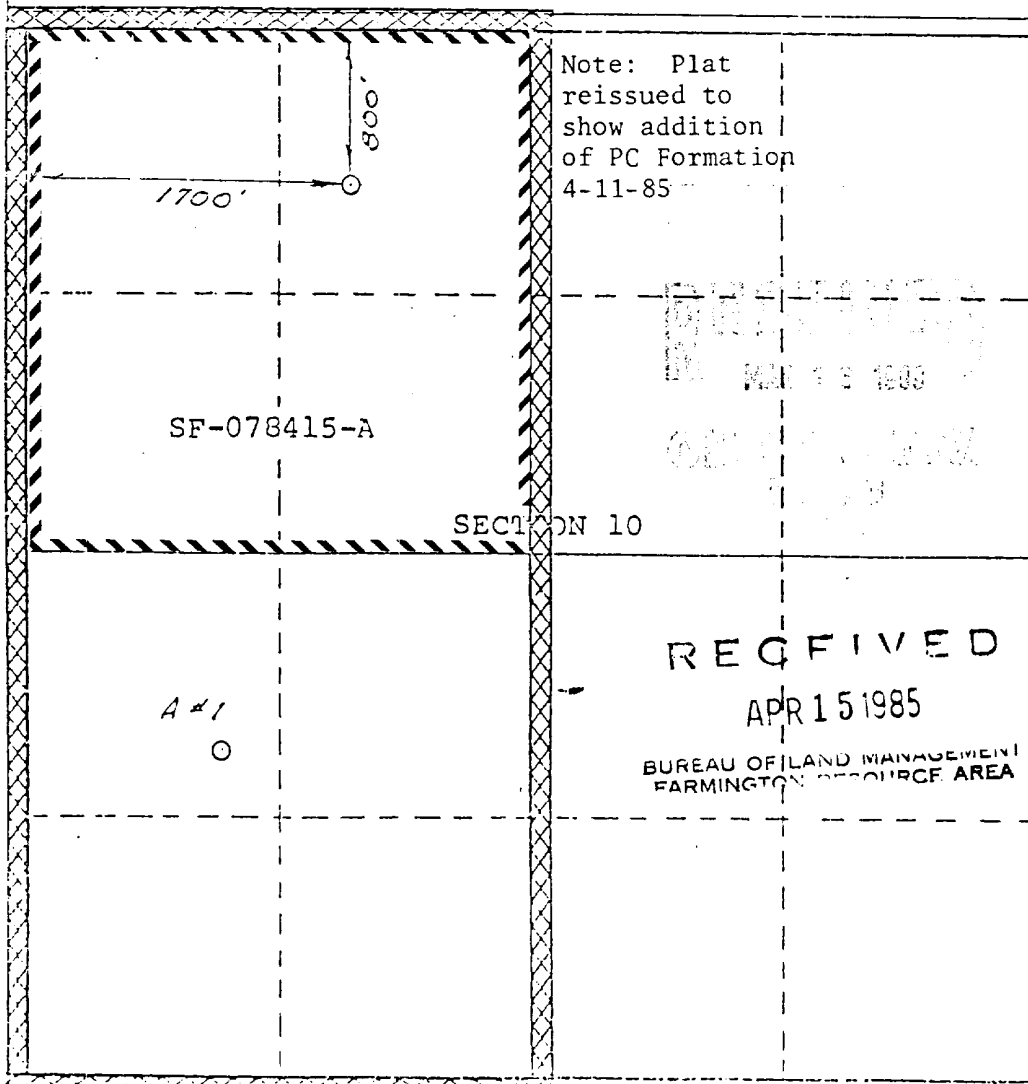
Operator EL PASO NATURAL GAS COMPANY		Lease ROELOFS A (SF-078415-A)		Well No. 1A
Unit Letter C	Section 10	Township 29-N	Range 8-W	County SAN JUAN
Actual Footage Location of Well: 800 feet from the NORTH line and 1700 feet from the WEST line				
Ground Level Elev. 6319	Producing Formation MESA VERDE	Pictured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

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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

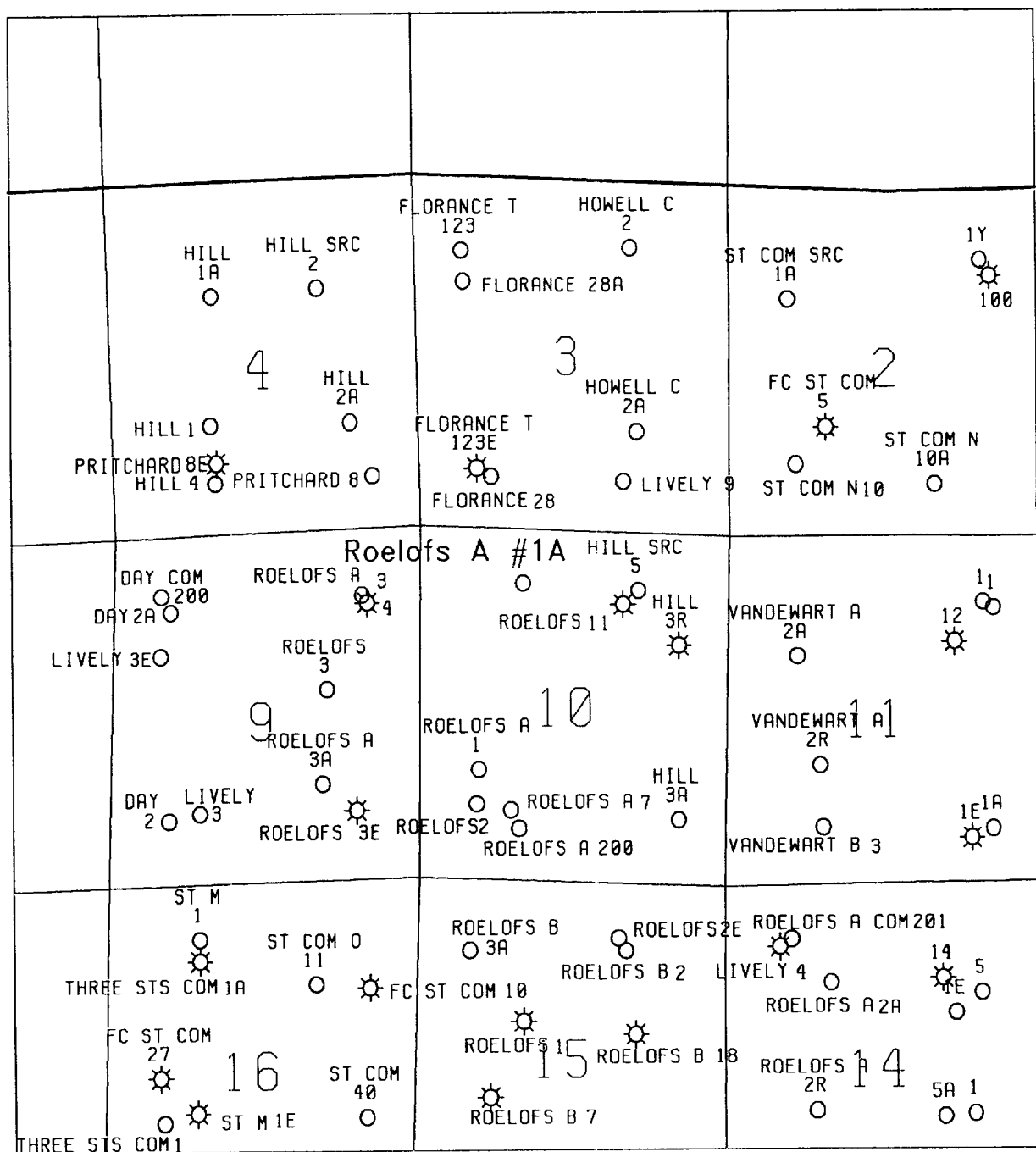
Date

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.

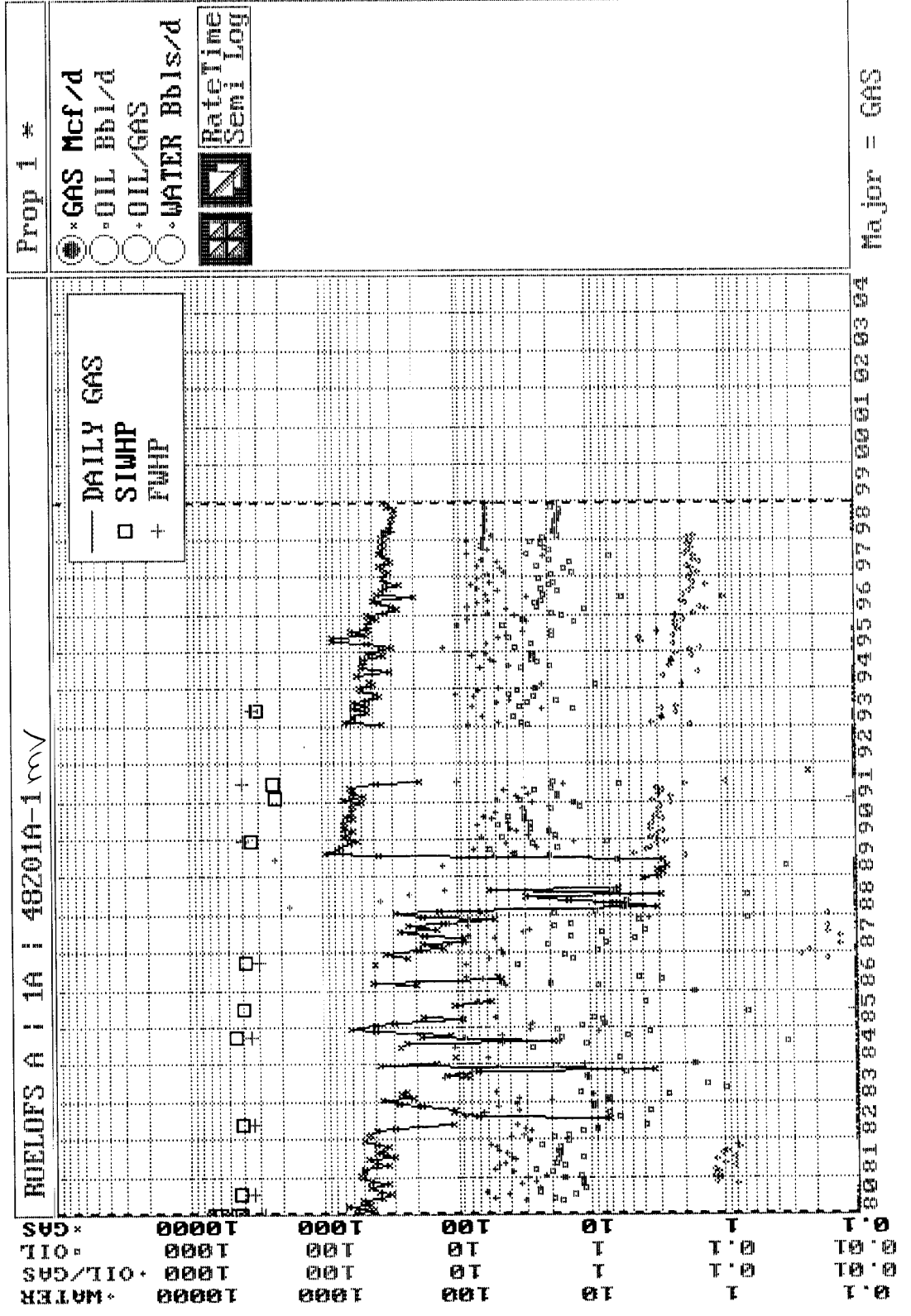
Date Entered
FEBRUARY 27, 1975

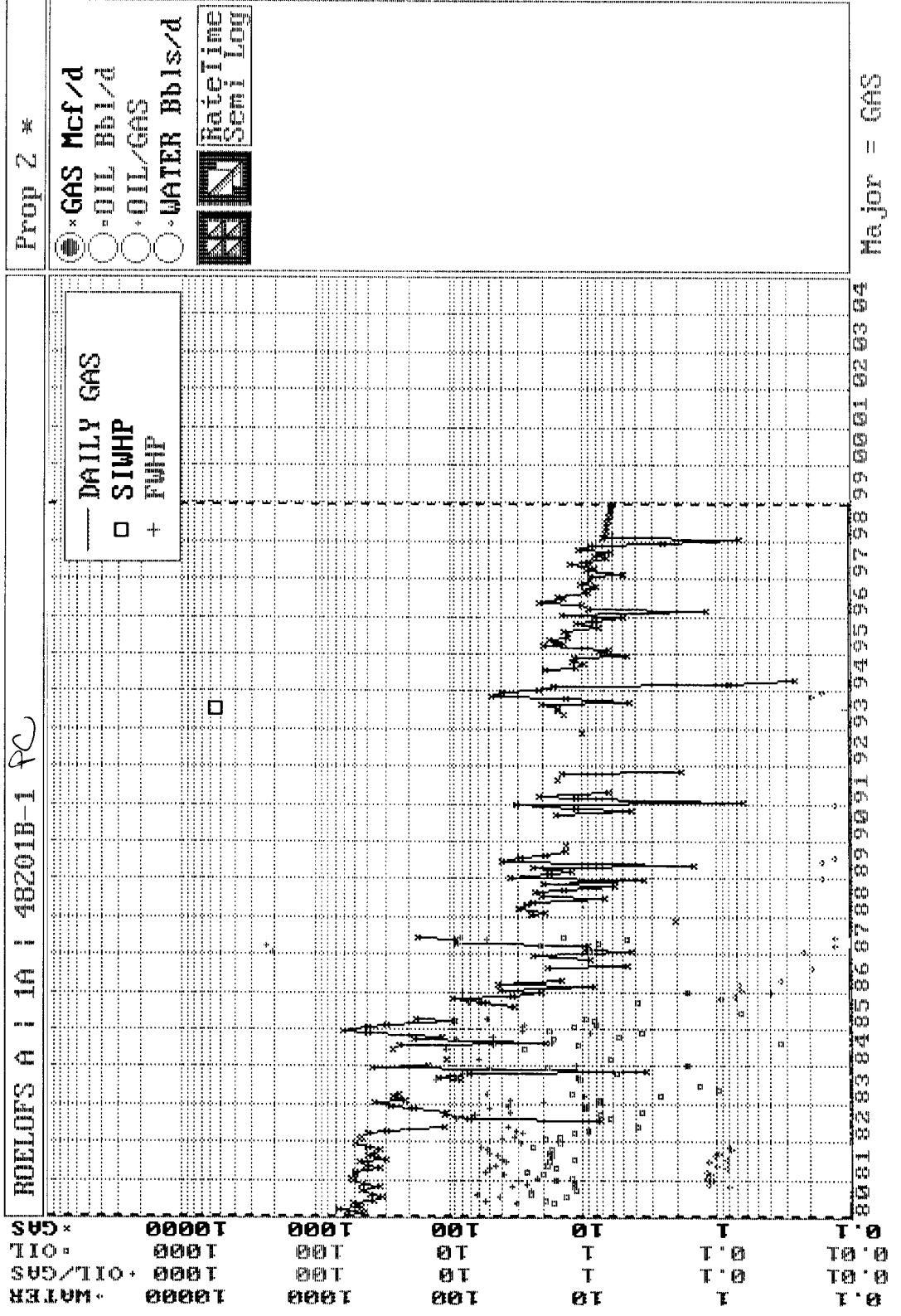
Registered Professional Engineer and/or Land Surveyor

Plat Number No. 1760



Roelofs A #1A
Sec. 10 T29N, R8W
MV/PC





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-- Bbl	---CUM_GAS--- Mcf	M_SIWHP 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		415401	405 current estimate from P/z data (offset PC well) Roelofs A2A

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

--DATE--	--CUM OIL--	---CUM GAS---	M SIWHP
	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
03/01/97		2101500	200 current estimate from P/Z data