

DATE IN 3/3/97	SUSPENSE 3/24/97	ENGINEER BS	LOGGED KV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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

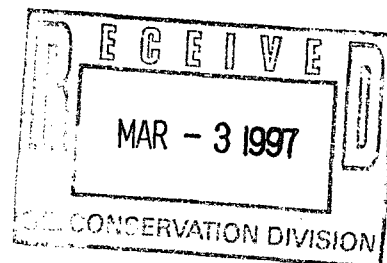
Check One Only for [B] and [C]

[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 Bradfield

Print or Type Name

Signature

Regulatory/Compliance Administrator

Title

Date

2-27-97

BURLINGTON RESOURCES

SAN JUAN DIVISION

February 20, 1997

SENT FEDERAL EXPRESS

Mr. William LeMay
New Mexico Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: Atlantic C #1A
850'FNL, 1500'FWL Section 35, T-31-N, R-10-W, San Juan County, NM
API #30-045-22732

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Pictured Cliffs and Blanco Mesa Verde in the subject well. This well was originally drilled as a Pictured Cliffs/Mesa Verde dual; it is intended to commingle.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas is submitting the following for your approval of this commingling:

1. Form C107A - Application for Downhole Commingling;
2. C-102 plat for each zone showing its spacing unit and acreage dedication;
3. Production curve for Pictured Cliffs and Mesa Verde for at least one year;
4. Notification list of offset operators;
5. Shut in wellhead pressure and calculated down hole pressure;
6. Nine-section plats for the Mesa Verde and Pictured Cliffs

We will consult with the Supervisor of the Aztec District Office of the New Mexico Oil Conservation Division to establish an allocation formula.

Please let me know if you require additional data.

Sincerely,



Peggy Bradfield
Regulatory/Compliance Administrator
encs.

xc: Bureau of Land Management

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 ☐ NOBurlington Resources Oil & Gas Company
87499

PO Box 4289, Farmington, NM

Operator

Atlantic C

Address

1A

C 35-31-10

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 6804 API NO. 30-045-22732 Federal ☒ , 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)	3104-3244'		4601-5684'
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: Gas & Oil - Flowing: All Gas Zones: Estimated or Measured Original	(Current) a. 344 psi (see attachment) (Original) b. 799 psi (see attachment)	a. b.	a. 295 psi (see attachment) b. 583 psi (see attachment)
6. Oil Gravity (^o API) or Gas BTU Content	BTU 1157		BTU 1208
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	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: 12-96 Rates: 14 mcf/d; 0 bopd	Date: Rates:	Date: 12-96 Rates: 396 mcf/d; 0.5 bopd
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion	Oil: % Gas: %	Oil: % Gas: % 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 2/17/97TYPE OR PRINT NAME Mary Ellen Lutey TELEPHONE NO. (505) 326-9700

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

Operator EL PASO NATURAL GAS COMPANY		Lease ATLANTIC C (NM-0607)		Well No. 1A
Unit Letter C	Section 35	Township 31-N	Range 10-W	County SAN JUAN
Actual Footage Location of Well: 850 feet from the NORTH line and 1500 feet from the WEST line				
Ground Level Elev. 6339	Producing Formation MESA VERDE PICTURED CLIFFS	Pool BLANCO PICTURED CLIFFS BLANCO MESA VERDE	Dedicated Acreage: 320.00 & 160.00s	

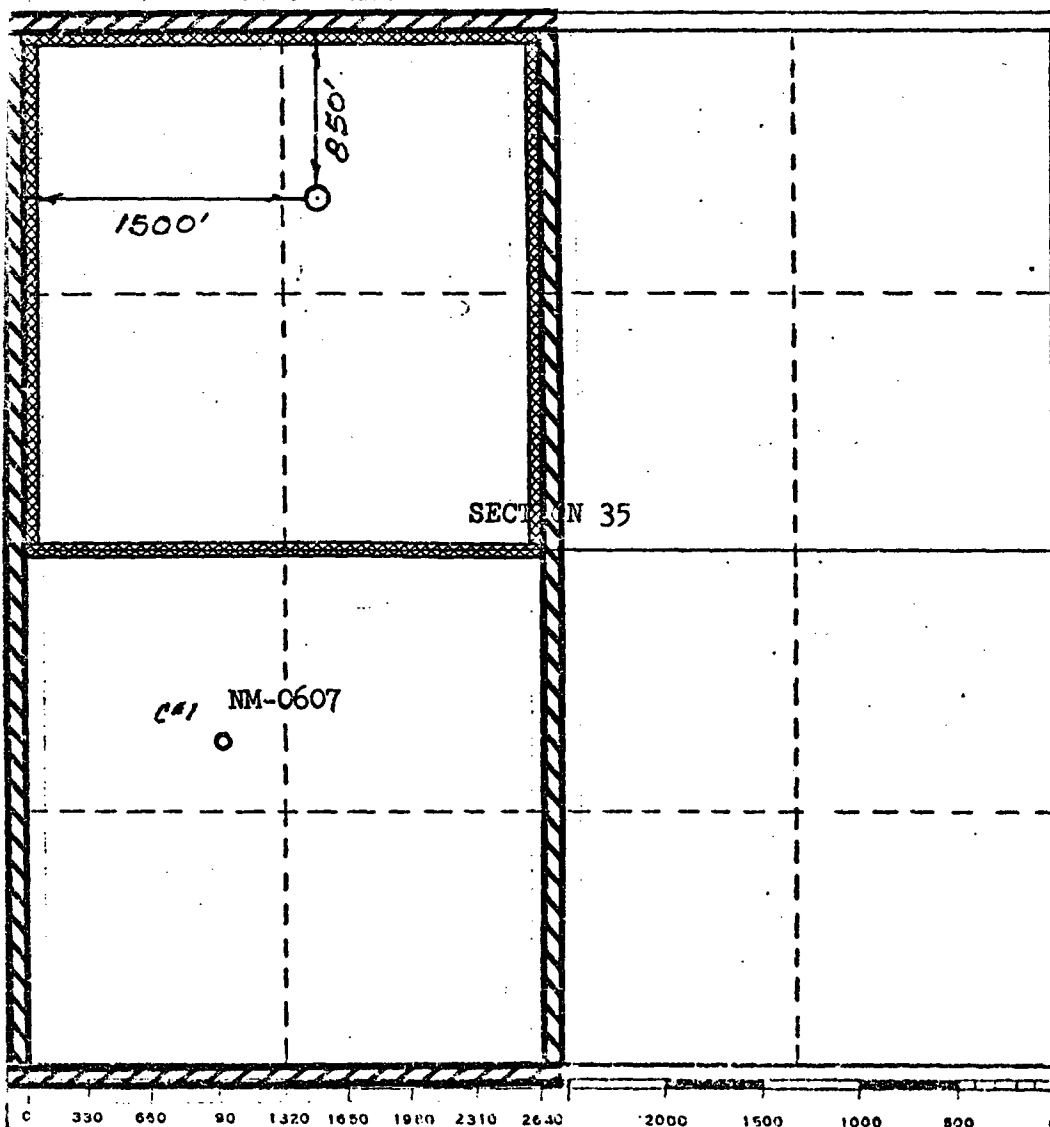
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is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

NOTE: THIS PLAT IS REISSUED TO SHOW DUAL COMPLETION. 8-26-77



CERTIFICATION

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

Original Signed by

Name **D. O. Brisco**

Drilling Clerk

Position

El Paso Natural Gas Co.

Company

August 30, 1977

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.

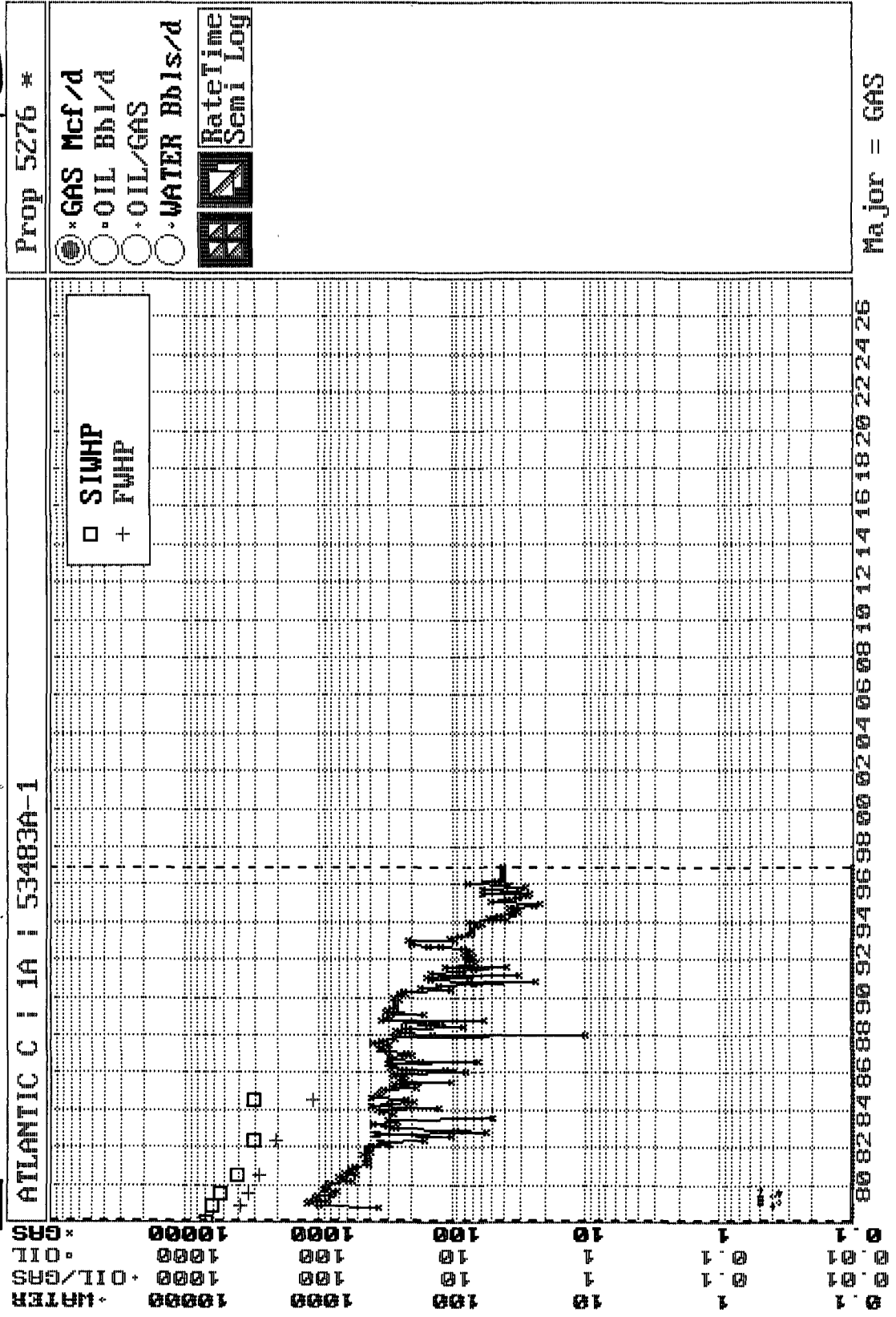
Date Surveyed

AUGUST 3, 1977

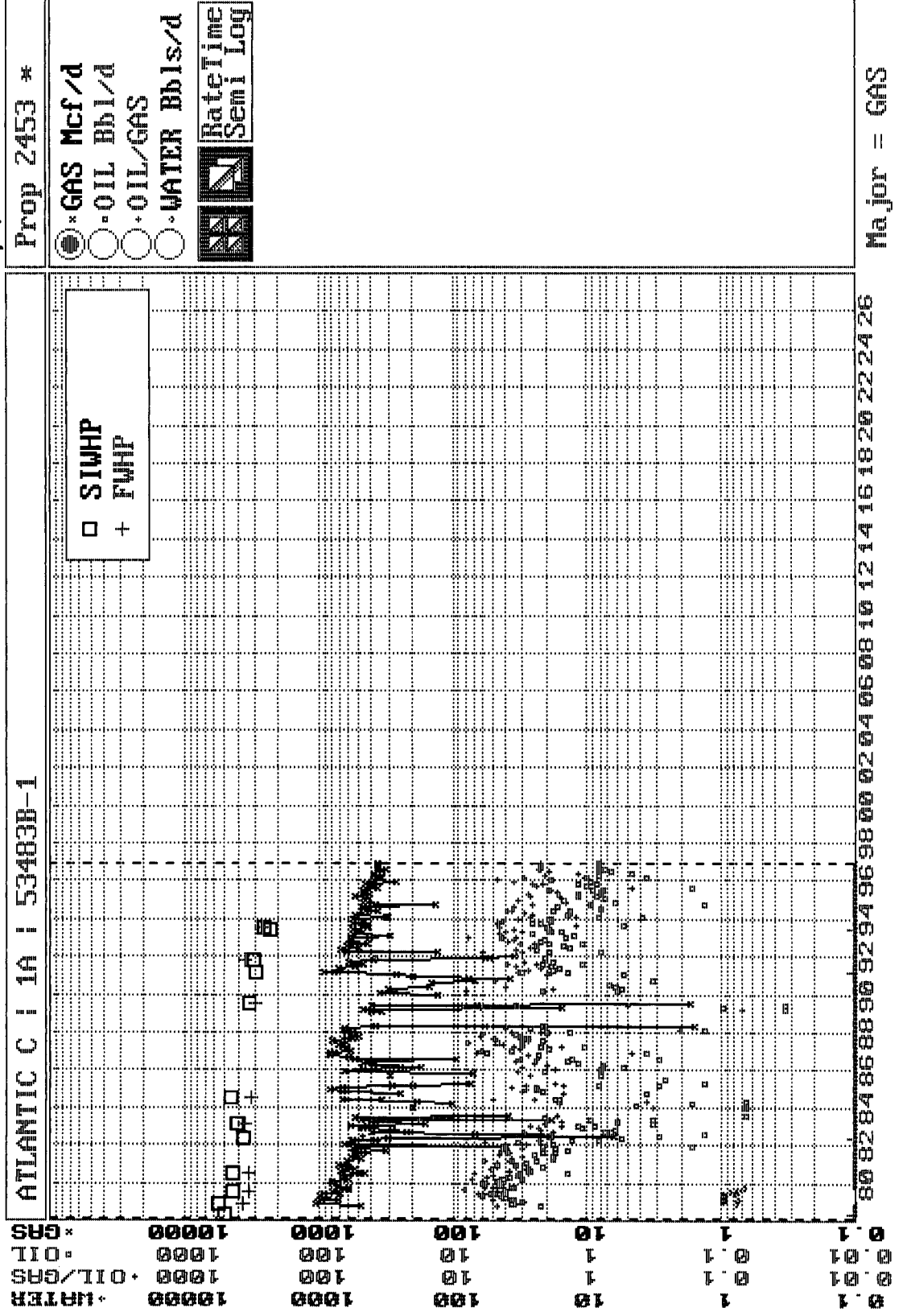
Registered Professional Engineer
and/or Land Surveyor

[Signature]
Certificate No. **1760**

PC

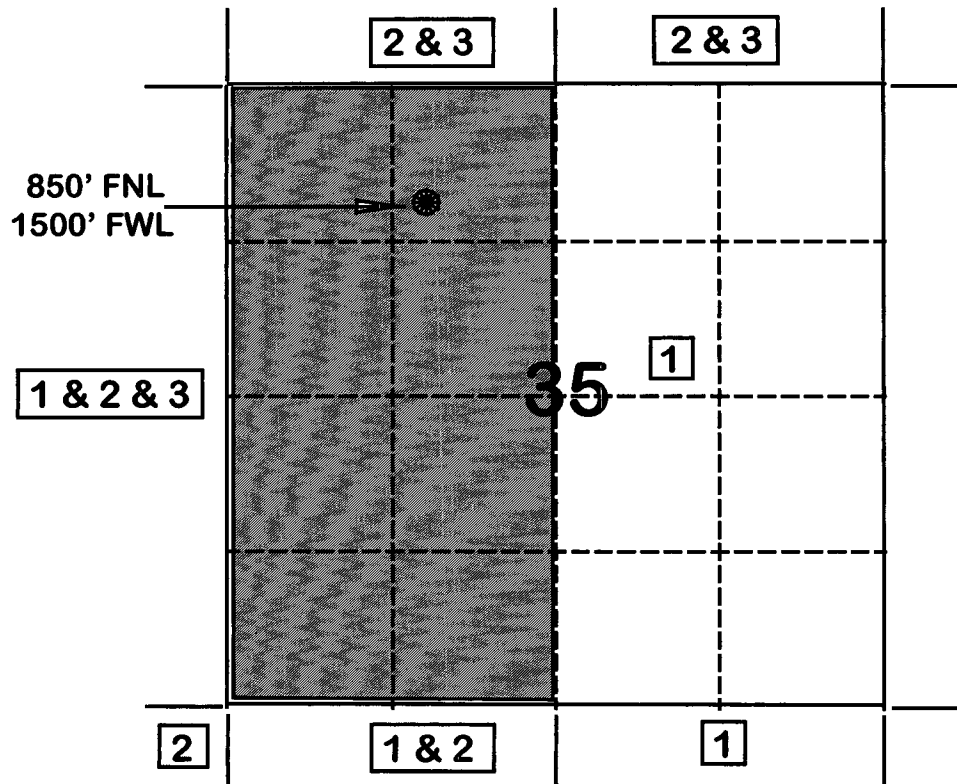


MV



Atlantic C #1A
OFFSET OPERATOR \ OWNER PLAT

Township 31 North, Range 10 West



- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.**
- 2) Amoco Production Company**
Attn: Bruce Zimney
P.O. Box 800
Denver, CO 80201
- 3) SG Interest**
811 Dallas, Suite 1605
Houston, TX 77002

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**
VERSION 1.0 3/13/94

GAS GRAVITY	0.7
COND. OR MISC. (C/M)	C
%N2	0.18
%CO2	1.31
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5778
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	256
BOTTOMHOLE PRESSURE (PSIA)	294.6

ATLANTIC #6A MESAVERDE - (CURRENT)

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.7
COND. OR MISC. (C/M)	C
%N2	0.18
%CO2	1.31
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5778
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	503
BOTTOMHOLE PRESSURE (PSIA)	582.5

ATLANTIC #6A MESAVERDE - (ORIGINAL)

MV

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Browsing: ATLANTIC C | 1A | 53483B-1 Property No.: 2453
 Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/12/103224
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
05/08/78	0	503.0
11/17/78	46619	567.0
06/21/79	235499	443.0
07/17/80	496225	440.0
05/20/82	847963	374.0
02/14/83	928223	407.0
06/20/84	1017839	455.0
07/13/89	1663828	328.0
02/18/91	1756524	301.0
10/08/91	1905286	313.0
05/19/93	2153409	234.0
07/30/93	2172177	256.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table
 F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

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

VERSION 1.0 3/13/94

GAS GRAVITY	<u>0.6</u>
COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.19</u>
%CO2	<u>1.09</u>
%H2S	<u>0</u>
DIAMETER (IN)	<u>1.25</u>
DEPTH (FT)	<u>5778</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>110</u>
FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>304</u>
BOTTOMHOLE PRESSURE (PSIA)	<div style="border: 1px solid black; padding: 2px;">344.5</div>

ATLANTIC #6A PICTURED CLIFFS - (CURRENT)

**FLOWING AND STATIC BHP
CULLENDER AND SMITH METHOD**
VERSION 1.0 3/13/94

GAS GRAVITY	0.6
COND. OR MISC. (C/M)	C
%N2	0.19
%CO2	1.09
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	5778
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	700
BOTTOMHOLE PRESSURE (PSIA)	799.4

ATLANTIC #6A PICTURED CLIFFS - (ORIGINAL)

PC

Organize Data ScreenGraph Economics Report Plot Utility Quit
Browsing: ATLANTIC C | 1A | 53483A-1 Property No.: 5276
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/6/103224
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
01/01/78	0	700.0
11/17/78	40888	620.0
06/21/79	259567	536.0
07/17/80	546139	415.0
05/20/82	839504	306.0
06/20/84	1000776	304.0

F1=Help F3=PrvPro F5=PrvTbl F7=Calcu F9=Utils Alt+TableLtr=Change Table
F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

FARMINGTON
ATLANTIC C

1A

1996 MONTHLY PRODUCTION FOR 53483A

PHS030M1

BLANCO PICTURED CLIFFS (GAS) FIELD

PICTURED CLIFFS ZONE

MO	T	S	DAYS	ON	PC	OIL	PROD	GRV	PC	GAS	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F							01		2334	31	1136	15.025			
2	2	F							01		1394	29	1136	15.025			
3	2	F							01		1269	31	1136	15.025			
4	2	F							01		819	30	1136	15.025			
5	2	F							01		146	31	1173	15.025			
6	2	F							01		146	30	1173	15.025			
7	2	F							01		1062	26	1127	15.025			
8	2	F							01		821	31	1127	15.025			
9	2	F							01		710	30	1127	15.025			
10	2	F							01		677	31	1127	15.025			
11	2	F							01		397	30	1127	15.025			
12	2	F							01	<i>Aug = 14 mcf</i>	422	31	1127	15.025			

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTION

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

PRS 02/05/97

B MY JOB

NUM LU #14

FARMINGTON
ATLANTIC C

1A

1996 MONTHLY PRODUCTION FOR 53483B

PHS030M1

BLANCO MESAVERDE (PRORATED GAS FIELD

MESAVERDE ZONE

MO	T	S	DAYS	ON	PC	OIL	PROD	GRV	PC	GAS	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F		31	02		56		01		11942	31	1186	15.025			
2	2	F		29	02		11	58.2	01		10444	29	1186	15.025			
3	2	F		31	02		31		01		10563	31	1186	15.025			
4	2	F		30	02		25	56.8	01		12069	30	1202	15.025			
5	2	F		31	02		14		01		11949	31	1202	15.025			
6	2	F		30	02		20		01		10404	30	1202	15.025			
7	2	F		29	02		22		01		9662	29	1199	15.025			
8	2	F		31	02		20		01		9468	31	1199	15.025			
9	2	F		24	02		26		01		9858	24	1199	15.025			
10	2	F		31	02		39		01		11426	31	1199	15.025			
11	2	F		30	02		20		01		11082	30	1199	15.025			
12	2	F		31	02		15	56.3	01	<i>396 mcf</i>	12287	31	1199	15.025			

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTION

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

PRS 02/05/97

B MY JOB

NUM LU #14

ATLANTIC C #1A SECTION 35. T3IN. RIOW MESAVERDE - PICTURED CLIFFS

