

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 #5A
870'FSL, 1840'FEL Section 6, T-30-N, R-10-W, San Juan County, NM
API #30-045-23155

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 87505-6429

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

APPROVAL PROCESS :

Administrative Hearing

EXISTING WELLBORE

YES NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator **Atlantic C** Address **5A O 6-30-10 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. 30-045-23155 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)	2802-2902'		4821-5470'
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. 396 psi (see attachment)	a.	a. 388 psi (see attachment)
	(Original) b. 863 psi (see attachment)	b.	b. 1033 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1156		BTU 1173
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: 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 water of recent test (within 60 days)	Date: 12-96 Rates: 33 mcf/d; 0 bopd	Date: Rates:	Date: 12-96 Rates: 183 mcf/d; 0.6 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 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 2/17/97

TYPE OR PRINT NAME Mary Ellen Lutey TELEPHONE NO. (505) 326-9700

MEXICO OIL CONSERVATION COMMIS. 1
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.

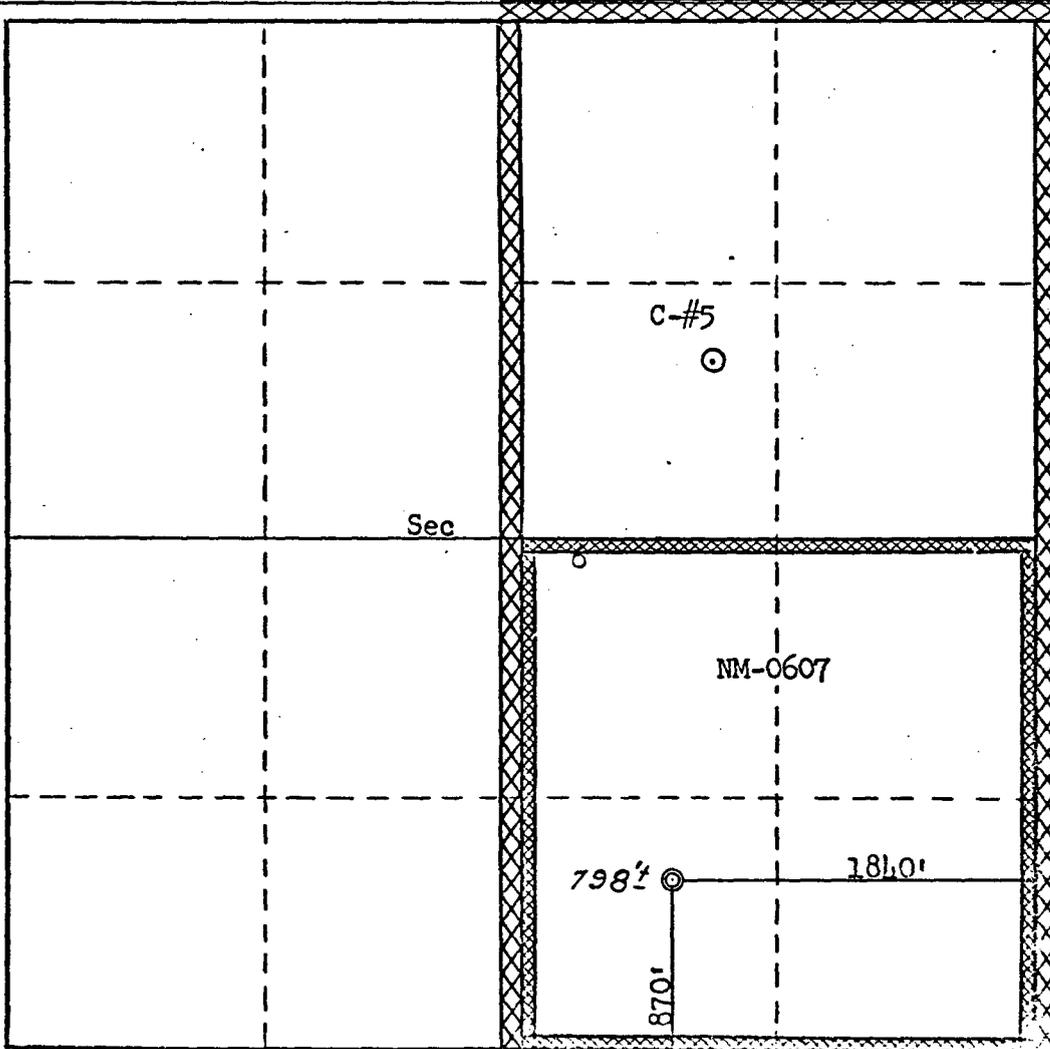
Operator EL PASO NATURAL GAS COMPANY			Lease ATLANTIC C (NM-0607)		Well No. 5A
Unit Letter 0	Section 6	Township 30N	Range 10W	County San Juan	
Actual Footage Location of Well: 870 feet from the South line and 1840 feet from the East line					
Ground Level Elev. 6176	Producing Formation Pictured Cliffs-Mesa Verde		Pool Blanco Pictured Cliffs Ext. Blanco Mesa Verde		Dedicated Acreage: 160.78 & 321.98 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

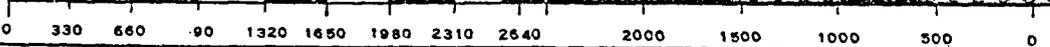
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

M. G. Lisco

Name
Drilling Clerk
Position
El Paso Natural Gas Co
Company
July 21, 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
June 22, 1978
Registered Professional Engineer and/or Land Surveyor
Fred J. Kerr, Jr.
Certificate No. 3950
MEXICO
O. KERR, JR.

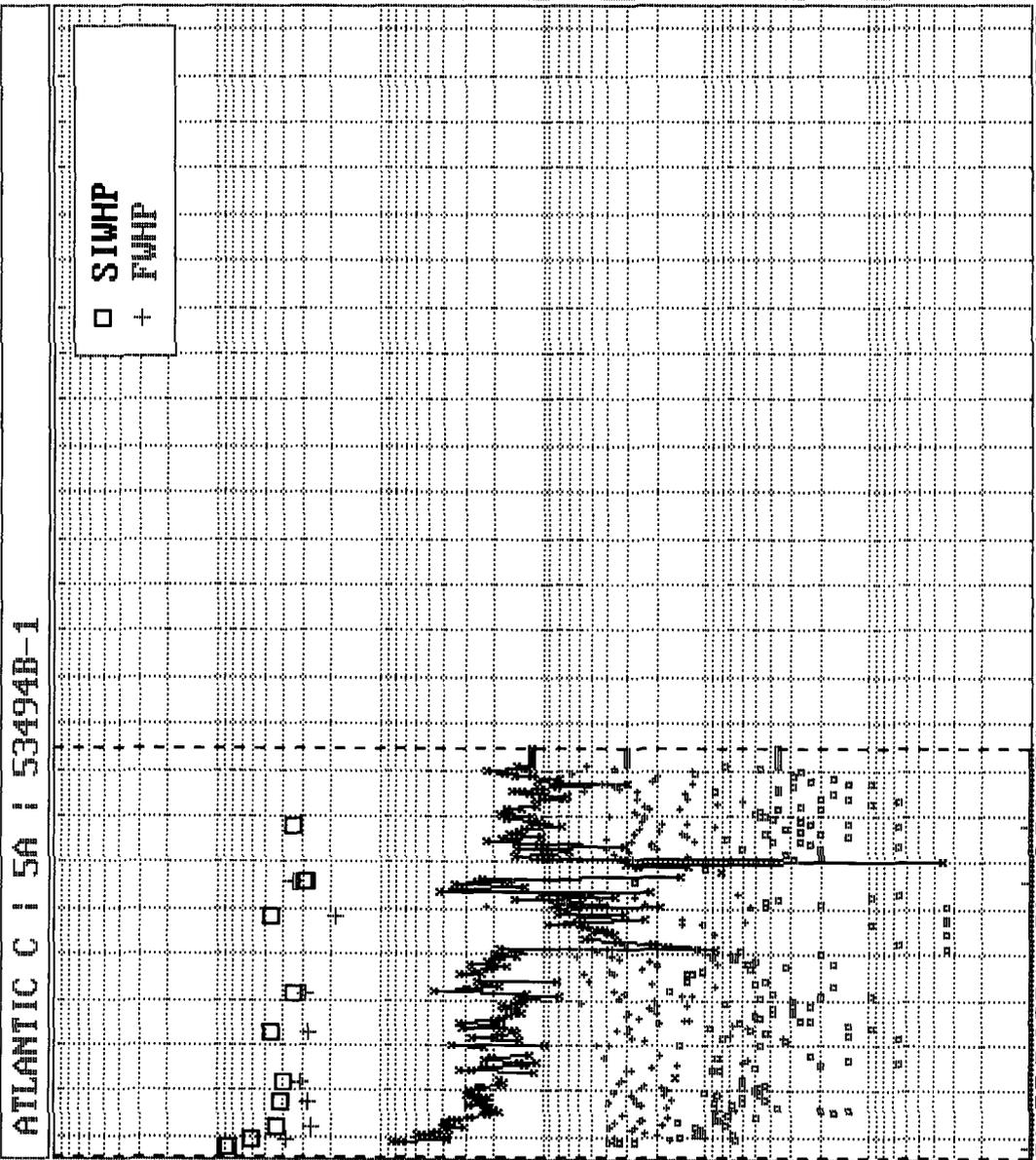


MV

Prop 2461 *

- * GAS Mcf/d
- OIL Bbl/d
- OIL/GAS
- WATER Bbls/d

 Rate Time
 Semi Log



10000 * WATER
 1000 * OIL/GAS
 1000 * OIL
 1000 * GAS

Major = GAS

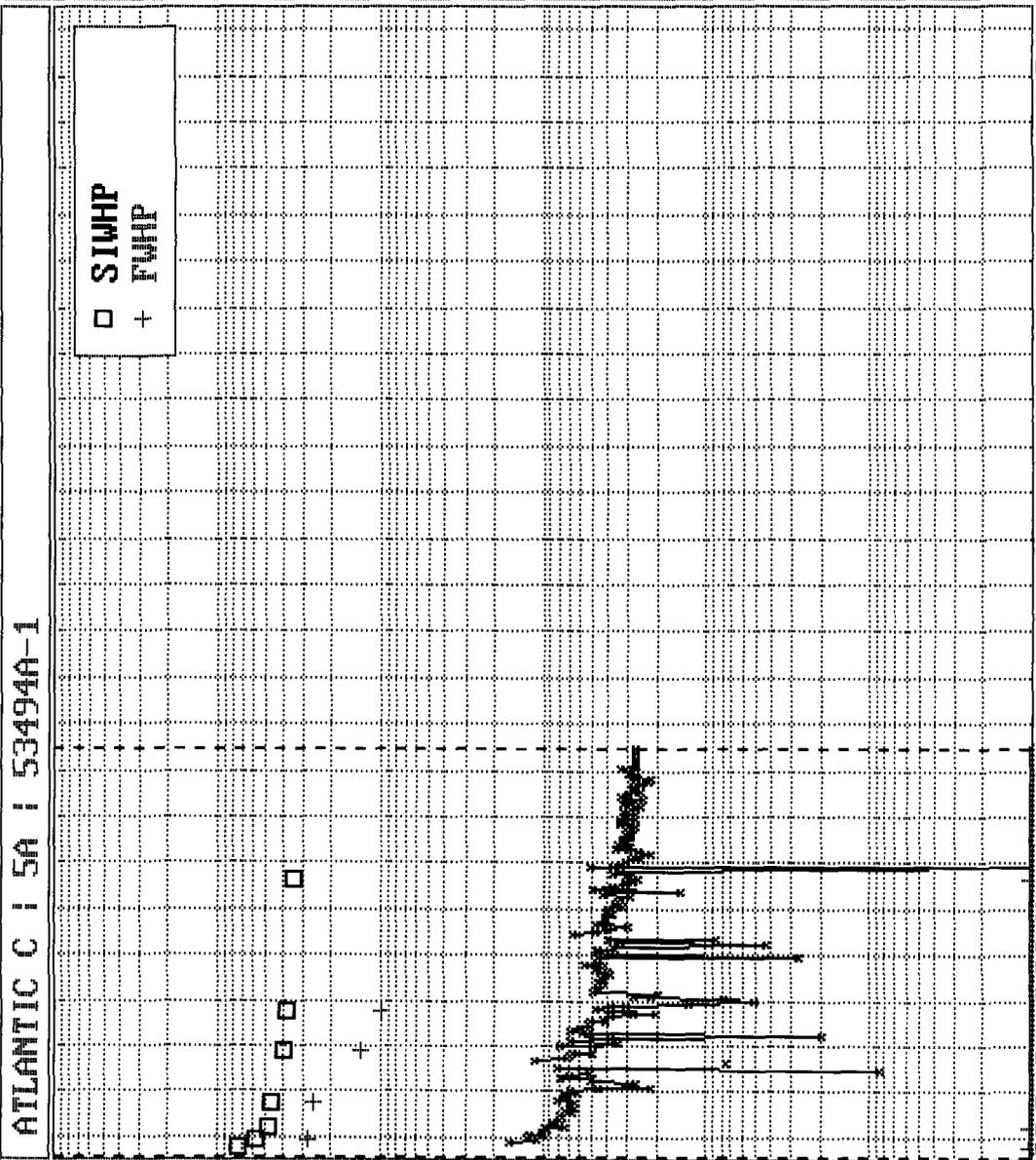
80 82 84 86 88 90 92 94 96 98 00 02 04 06 08 10 12 14 16 18 20 22 24 26 28

PC

Prop 5277 *

- GAS Mcf/d
- OIL Bbl/d
- OIL/GAS
- WATER Bbls/d

RateTime
Semi Log



10000 • WATER
10000 • OIL/GAS
1000 • OIL
10000 • GAS

1000
100
10
100
10
1
1
0.1
0.1
1
1
0.1
0.1
1
1

00 02 04 06 08 10 12 14 16 18 20 22 24 26 28

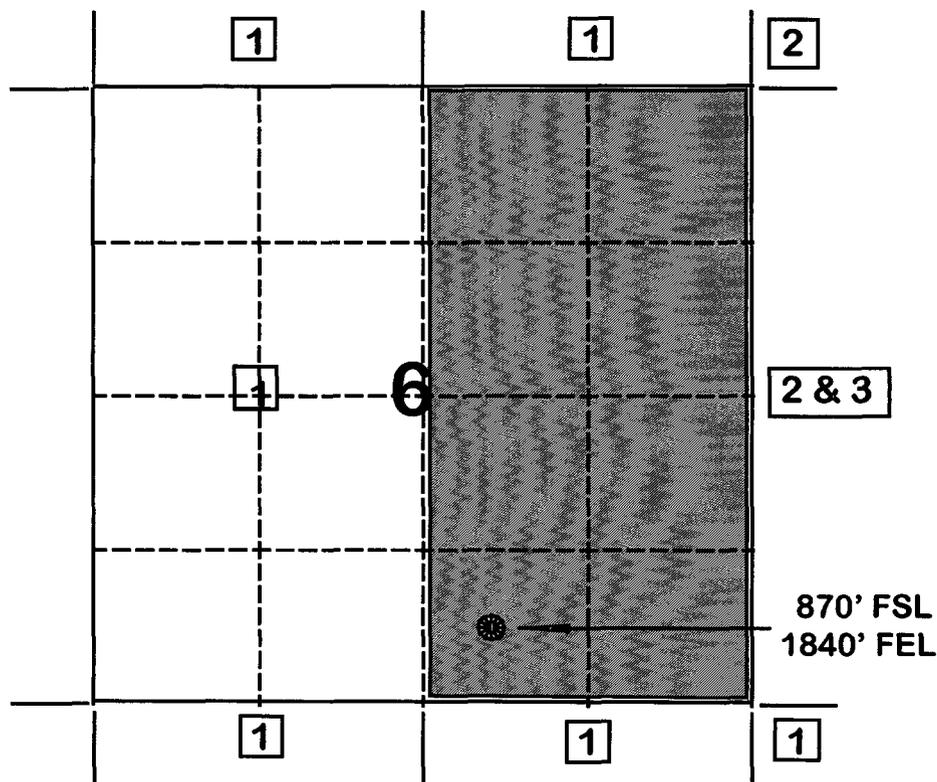
Major = GAS

BURLINGTON RESOURCES OIL AND GAS COMPANY

**Atlantic C #5A
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde (E/2)/Pictured Cliffs (SE/4) Formations Commingle Well

Township 30 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 Ste. 1605
Houston, TX 77002

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

VERSION 10/3/13/94

GAS GRAVITY	0.67
COND. OR MISC. (C/M)	C
%N2	0.15
%CO2	0.81
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5513
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	341
BOTTOMHOLE PRESSURE (PSIA)	388.2

ATLANTIC C #5A MESAVERDE - (CURRENT)

**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	0.15
%CO2	0.81
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5513
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	896
BOTTOMHOLE PRESSURE (PSIA)	1032.8

ATLANTIC C #5A MESAVERDE - (ORIGINAL)

MV

Organize Data ScreenGraph Economics Report Plot Utility Quit
Browsing: ATLANTIC C | 5A | 53494B-1 Property No.: 2461
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

<u>--DATE--</u>	<u>---CUM GAS--</u>	<u>M SIWHP</u>
	Mcf	Psi
07/25/79	0	896.0
08/02/79	0	857.0
11/01/79	60426	618.0
06/16/80	153836	447.0
07/02/81	263379	413.0
05/10/82	337807	401.0
07/10/84	450927	464.0
04/02/86	560190	342.0
09/12/89	727158	464.0
02/18/91	798441	283.0
03/19/91	803679	295.0
07/12/93	883228	341.0

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 10 3/13/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	C
%N2	0.33
%CO2	0.59
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	5513
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	347
BOTTOMHOLE PRESSURE (PSIA)	396.4

ATLANTIC C #5A PICTURED CLIFFS - (CURRENT)

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

VERSION 10.3/13/94

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	C
%N2	0.33
%CO2	0.59
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	5513
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	748
BOTTOMHOLE PRESSURE (PSIA)	863.4

ATLANTIC C #5A PICTURED CLIFFS - (ORIGINAL)

PC

Organize Data ScreenGraph Economics Report Plot Utility Quit
Browsing: ATLANTIC C | 5A | 53494A-1 Property No.: 5277
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/8/103224
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

<u>--DATE--</u>	<u>---CUM GAS--</u>	<u>M SIWHP</u>
	Mcf	Psi
08/01/79	0	748.0
08/02/79	0	749.0
11/01/79	13239	577.0
06/16/80	35064	497.0
07/02/81	64399	470.0
09/26/83	104720	400.0
07/02/85	133296	387.0
04/10/91	222000	347.0

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
AZTEC PICTURED CLIFFS (GAS) FIELD

1996 MONTHLY PRODUCTION FOR 53494A

PHS030M1

5A

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	1047	31	1135	15.025			
2	2	F					01	831	29	1135	15.025			
3	2	F					01	1071	31	1135	15.025			
4	2	F					01	885	27	1135	15.025			
5	2	F					01	1007	31	1135	15.025			
6	2	F					01	1175	26	1135	15.025			
7	2	F					01	888	31	1133	15.025			
8	2	F					01	1179	31	1133	15.025			
9	2	F					01	959	20	1133	15.025			
10	2	F					01	1137	31	1133	15.025			
11	2	F					01	1012	30	1133	15.025			
12	2	F					01	1012	31	1133	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 #27

FARMINGTON
ATLANTIC C
BLANCO MESAVERDE (PRORATED GAS FIELD)

1996 MONTHLY PRODUCTION FOR 53494B

PHS030M1

5A

MESAVERDE ZONE

MO	T	S	DAYS		OIL			GAS				WATER	PROD	C
			ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS			
1	2	F	31	02	14		01	3818	31	1152	15.025			
2	2	F	29	02	23	61.2	01	4350	29	1152	15.025			
3	2	F	31	02	5		01	4614	31	1152	15.025			
4	2	F	28	02	18		01	3366	28	1152	15.025			
5	2	F	31	02			01	128	31	1152	15.025			
6	2	F	30	02	6		01	3229	30	1152	15.025			
7	2	F	31	02	17		01	3874	31	1157	15.025			
8	2	F	31	02	10		01	3549	31	1158	15.025			
9	2	F	21	02	8		01	2459	21	1157	15.025			
10	2	F	31	02	14		01	4482	31	1157	15.025			
11	2	F	30	02	16		01	4098	30	1157	15.025			
12	2	F	31	02	20	56.2	01	5688	31	1141	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 #27

