

DATE IN 2/24/97	SUSPENSE 3/17/97	ENGINEER BS	LOGGED KV	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

1476

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]

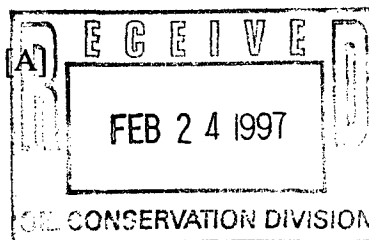
[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

[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

Regulatory/Compliance Administrator

Print or Type Name

Signature

Title

Date

2-20-97

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 #6A
1105'FNL, 810'FWL Section 6, T-30-N, R-10-W, San Juan County, NM
API #30-045-23861

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

Address

Atlantic C

6A

D 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. 30-045-23861 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)	2663-2784'		4227-5299'
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. 364 psi (see attachment)	a.	a. 371 psi (see attachment)
	(Original) b. 889 psi (see attachment)	b.	b. 879 psi (see attachment)
6. Oil Gravity (^o API) or Gas BTU Content	BTU 1138		BTU 1206
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 of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
	Date: 12-96 Rates: 57 mcf/d; 0 bopd	Date: Rates:	Date: 12-96 Rates: 107 mcf/d; 0.04 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

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

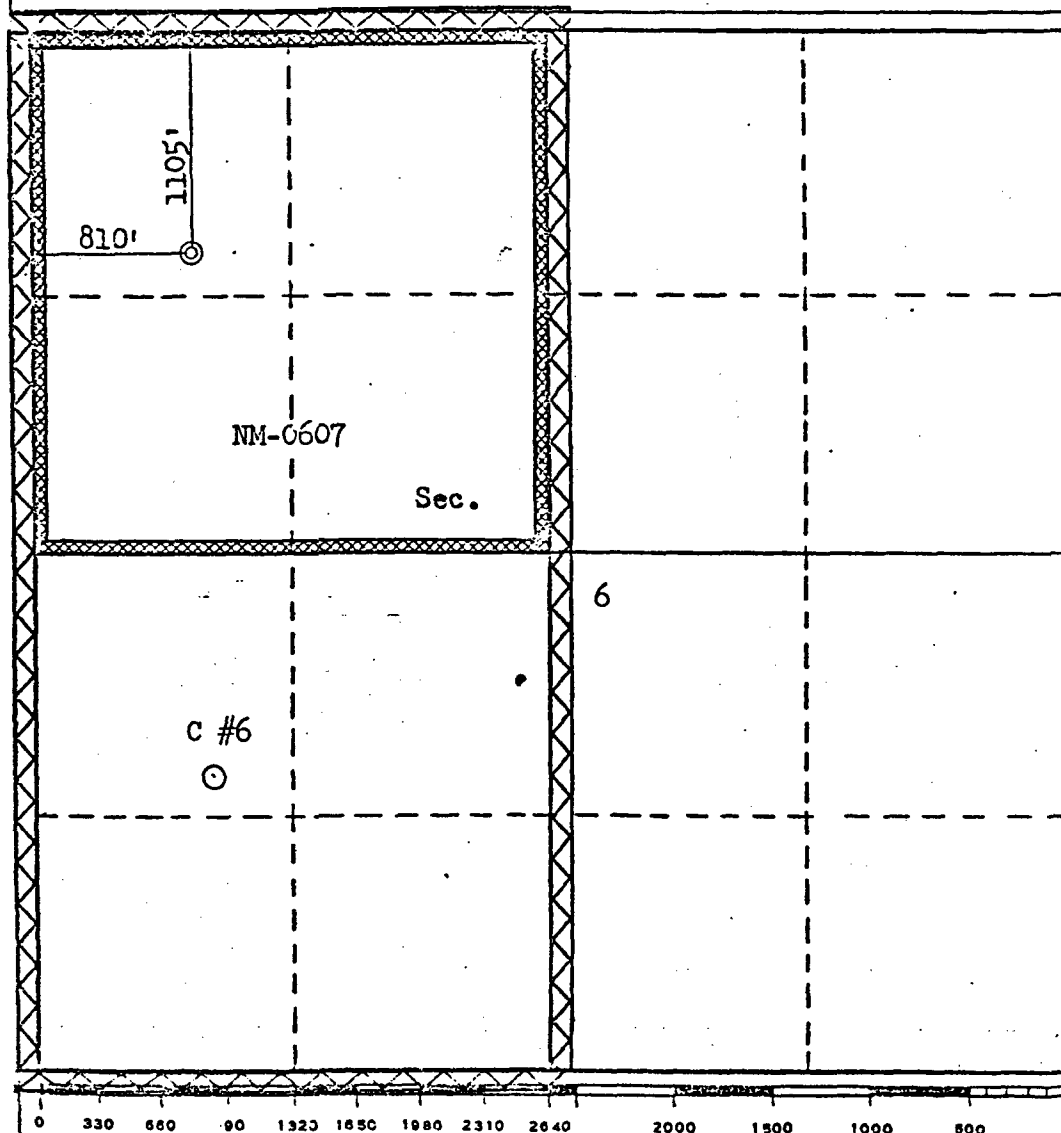
Operator EL PASO NATURAL GAS COMPANY		Lease ATLANTIC "C" (NM-0607)		Well No. 6A
Unit Letter D	Section 6	Township 30N	Range 10W	County San Juan
Actual Footage Location of Well: 1105 feet from the North line and 810 feet from the West line				
Ground Level Elev. 6034	Producing Formation Pictured Cliffs-Mesa Verde	Pool Blanco Pictured Cliffs Ext. Blanco Mesa Verde		Dedicated Acreage: 158.34 & 314.77 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. Busico

Name

Drilling Clerk

Position

El Paso Natural Gas Co.
Company

September 20, 1979

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.

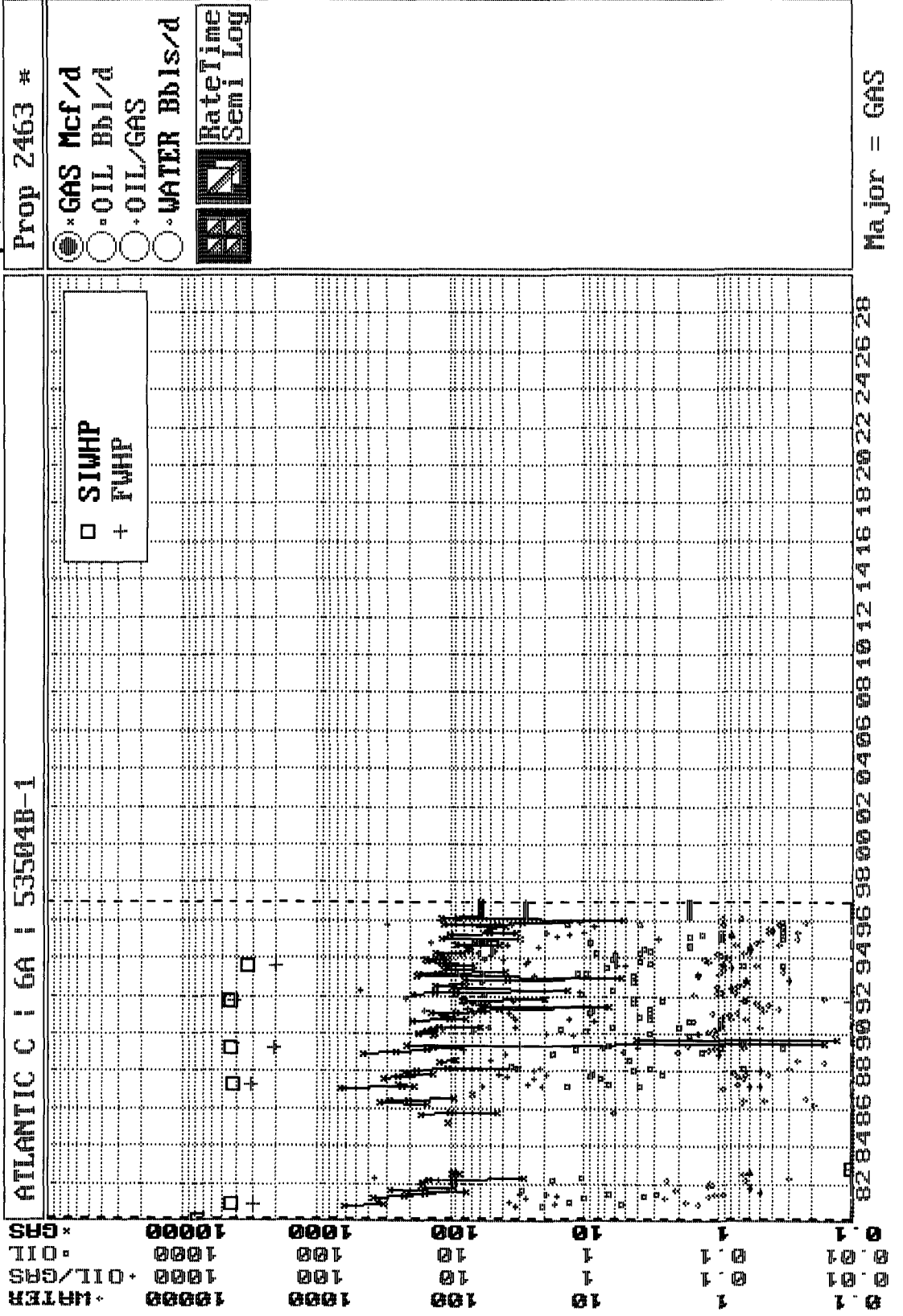
Date Surveyed

June 22, 1979

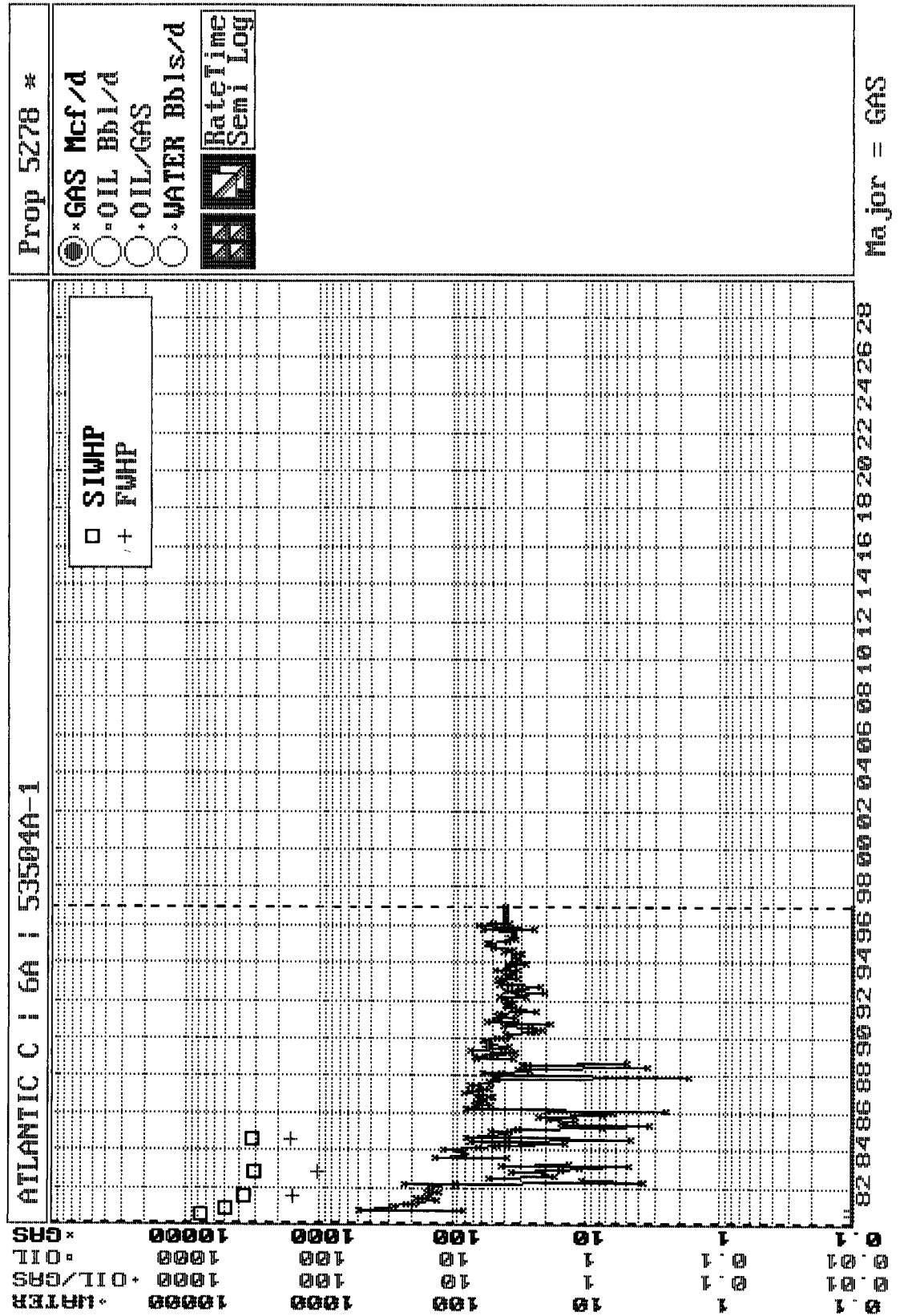
Registered Professional Engineer,
and/or Land Surveyor.

Fred B. Kerk
Fred B. Kerk
Certificate No. 3950

MV



PC

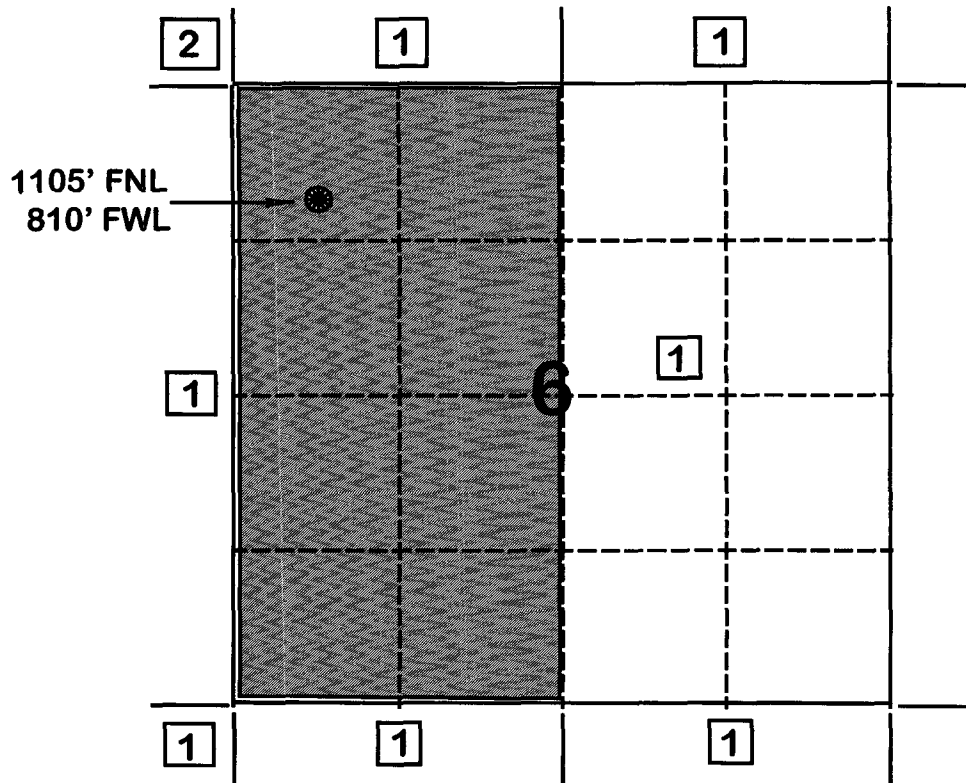


BURLINGTON RESOURCES OIL AND GAS COMPANY

**Atlantic C #6A
OFFSET OPERATOR \ OWNER PLAT**

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

Township 30 North, Range 10 West



- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
- 2) Great Western Drilling
P.O. Box 1659
509 North Lorraine
Midland, TX 79702

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

VERSION 10.3/13/94

GAS GRAVITY	0.69
COND. OR MISC. (C/M)	C
%N2	0.39
%CO2	0.74
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5353
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	326
BOTTOMHOLE PRESSURE (PSIA)	371.2

ATLANTIC C #6A MESAVERDE - (CURRENT)

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

VERSION 10/3/13/54

GAS GRAVITY	0.69
COND. OR MISC. (C/M)	C
%N2	0.39
%CO2	0.74
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5353
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	764
BOTTOMHOLE PRESSURE (PSIA)	878.8

ATLANTIC C #6A MESAVERDE - (ORIGINAL)

MV

Organize Data ScreenGraph Economics Report Plot Utility Quit
Browsing: ATLANTIC C | 6A | 53504B-1 Property No.: 2463
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

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
06/30/79	0	764.0
12/02/80	39292	434.0
11/10/82	114068	0.0
05/01/87	202116	422.0
04/17/89	284775	440.0
09/17/91	355103	439.0
10/14/91	353422	451.0
08/16/93	412850	326.0

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	0.64
COND. OR MISC. (C/M)	C
%N2	0.21
%CO2	0.3
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5353
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	321
BOTTOMHOLE PRESSURE (PSIA)	363.6

ATLANTIC C #6A PICTURED CLIFFS - (CURRENT)

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.64
COND. OR MISC. (C/M)	C
%N ₂	0.21
%CO ₂	0.3
%H ₂ S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5353
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	777
BOTTOMHOLE PRESSURE (PSIA)	889.2

ATLANTIC C #6A PICTURED CLIFFS - (ORIGINAL)

PC

Organize Data ScreenGraph Economics Report Plot Utility Quit
Browsing: ATLANTIC C | 6A | 53504A-1 Property No.: 5278
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/5/103224
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
07/01/80	0	777.0
11/10/80	17740	505.0
07/02/81	71949	365.0
11/02/82	113204	305.0
07/10/84	136954	321.0

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
BLANCO PICTURED CLIFFS (GAS) FIELD

1996 MONTHLY PRODUCTION FOR 53504A

PHS030M1

6A

PICTURED CLIFFS ZONE

MO	T	S	DAYS	ON	PC	OIL	PROD	GRV	PC	PROD	GAS	ON	BTU	PRESS	WATER	PROD	C
1	2	F							01	1536	31	1118	15.025				
2	2	F							01	1150	29	1118	15.025				
3	2	F							01	1216	31	1130	15.025				
4	2	F							01	1040	23	1130	15.025				
5	2	F							01	1302	31	1130	15.025				
6	2	F							01	1588	30	1130	15.025				
7	2	F							01	2841	31	1130	15.025				
8	2	F							01	2224	31	1130	15.025				
9	2	F							01	1485	23	1130	15.025				
10	2	F							01	1486	31	1130	15.025				
11	2	F							01	1819	30	1130	15.025				
12	2	F							01	157 mcf 1763	31	1130	15.025				

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTION
PRS 02/05/97

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

B MY JOB

NUM LU #27

FARMINGTON
ATLANTIC C
BLANCO MESAVERDE (PRORATED GAS FIELD

1996 MONTHLY PRODUCTION FOR 53504B

PHS030M1

6A

MESAVERDE ZONE

MO	T	S	DAYS	ON	PC	OIL	PROD	GRV	PC	PROD	GAS	ON	BTU	PRESS	WATER	PROD	C
1	2	F		31	02				01	2643	31	1185	15.025			21	
2	2	S		29	02				01	3554	29	1185	15.025			29	
3	2	F		17	02		9		01	1332	17	1186	15.025			11	
4	2	F		12	02		3		01	2251	12	1186	15.025			18	
5	2	F		31	02		2		01	1501	31	1186	15.025			12	
6	2	F		30	02		3	48.4	01	174	30	1186	15.025			1	
7	2	F		31	02				01	157	31		15.025			1	
8	2	F		31	02				01	2209	31	1186	15.025			18	
9	2	F		23	02				01	1797	23	1186	15.025			15	
10	2	F		31	02		6		01	2262	31	1186	15.025			18	
11	2	F		30	02		5		01	2764	30	1186	15.025			22	
12	2	F		25	02	0.04 BOPD	1		01	107 mcf 2681	25	1186	15.025			22	

PF6 - RETURNS TO ANNUAL DISPLAY
PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE
PF9 - DISPLAY MONTHLY INJECTION
PRS 02/05/97

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

B MY JOB

NUM LU #27

ATLANTIC C #6A
SECTION 6. T30N. R10W
MESAVERDE - PICTURED CLIFFS

