

DATE IN 6/25/97	SUSPENSE 7/15/97	ENGINEER DC	LOGGED MN	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]

1638

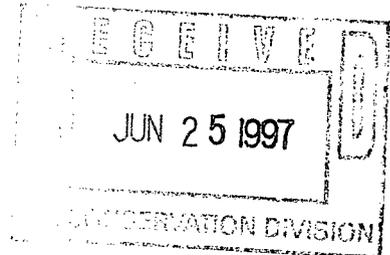
[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [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 6/24/97  
 Print or Type Name Signature Title Date

# **BURLINGTON RESOURCES**

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SAN JUAN DIVISION

June 24, 1997

SENT FEDERAL EXPRESS

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

Re: Atlantic #5A  
950'FSL, 1800'FEL, Section 22, T-31-N, R-10-W  
30-045-22428

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Pictured Cliffs and Mesa Verde in the subject well.

To comply with the New Mexico Oil Conservation Division rules, Burlington Resources Oil & Gas Company 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 curves for Pictured Cliffs and Mesa Verde;
4. Notification list of offset operators;
5. Shut in wellhead pressure and calculated down hole pressure of surrounding wells;
6. Nine-section plats for the Pictured Cliffs and Mesa Verde.

Working, overriding and royalty interests are identical in the commingled zones.

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.

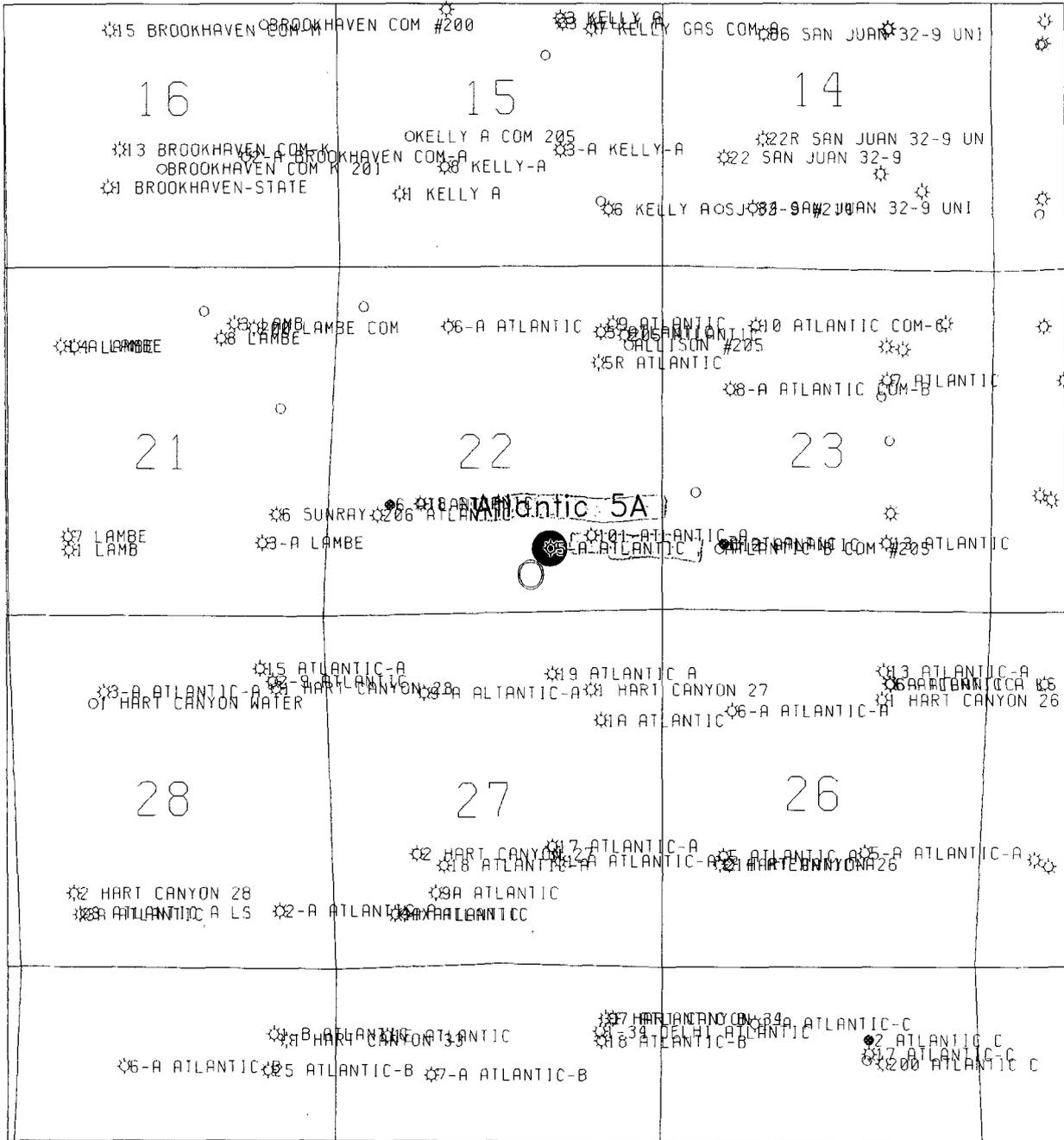
Sincerely,



Peggy Bradford

Regulatory/Compliance Administrator

xc: Bureau of Land Management - hand delivered



*Atlantic 5A*  
*Sec 220 T31N R10W*  
*PC/MV*

**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

**APPLICATION FOR DOWNHOLE COMMINGLING**

EXISTING WELLBORE

YES  NO

BURLINGTON RESOURCES OIL & GAS COMPANY

PO Box 4289, Farmington, NM 87499

Operator Atlantic Address O, Sec. 22, T31N, R10W County San Juan

Lease 5A Well No. 5A Unit Ltr. - Sec - Twp - Rge O, Sec. 22, T31N, R10W Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 6795 API NQ30-045-22428 Federal  State San Juan (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 - 7239		Blanco Mesa Verde - 72319
2. Top and Bottom of Pay Section (Perforations)	3070' - 3146'		4581' - 5712'
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. 323 psia	a.	a. 311 psia
	(Original) b. 781 psia	b.	b. 705 psia
6. Oil Gravity (°API) or Gas BTU Content	1108		1240
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 rates of recent test (within 60 days)	Date: Rates:	Date: Rates:	Date: Rates:
	Date: 4/14/97 Rates: 159 MCFD	Date: Rates:	Date: 4/14/97 Rates: 427 MCFD
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: _____ Gas: _____ supplied upon completion	Oil: _____ Gas: _____ %	Oil: _____ Gas: _____ 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 Kevin L. Midkiff TITLE Operations Engineer DATE 06-23-97

TYPE OR PRINT NAME Kevin L. Midkiff TELEPHONE NO. ( 505 ) 326-9700

LOCATION AND ACREAGE DEDICATION PLAT

Supersedes G-128  
Effective 1-1-65

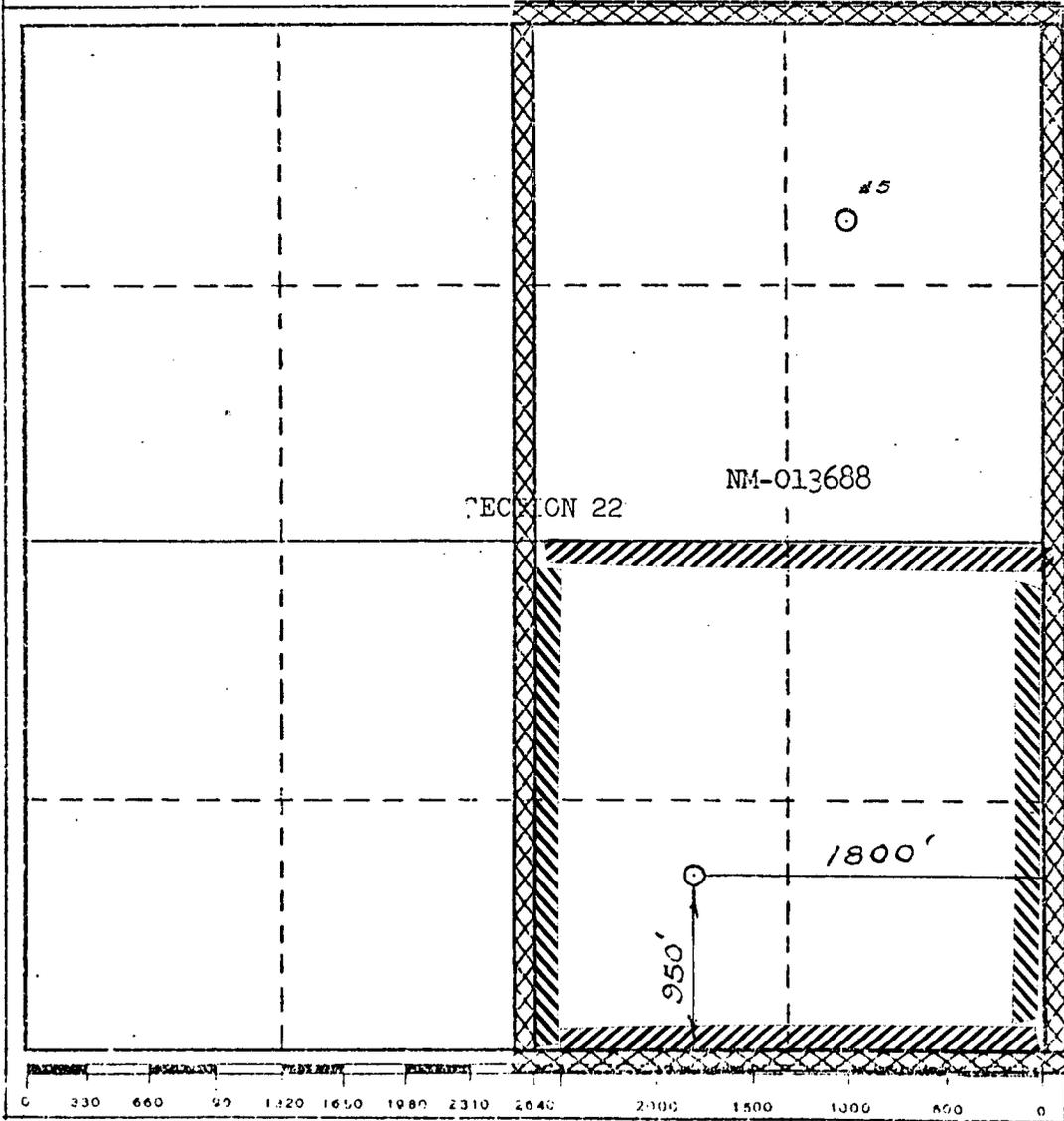
All distances must be from the outer boundaries of the Section.

Operator <b>EL PASO NATURAL GAS COMPANY</b>		Lease <b>ATLANTIC (NM-013688)</b>		Well No. <b>5A</b>
Unit Letter <b>0</b>	Section <b>22</b>	Township <b>31-N</b>	Range <b>10-W</b>	County <b>SAN JUAN</b>
Actual Footage Location of Well: <b>950</b> feet from the <b>SOUTH</b> line and <b>1800</b> feet from the <b>EAST</b> line				
Ground Level Elev. <b>6314</b>	Producing Formation <b>MESA VERDE / P.C.</b>		Pool <b>BLANCO MESA VERDE</b>	Dedicated Acreage: <b>309.95 / 160</b> 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.

Original Signed by  
**D. G. Brown**

---

Name \_\_\_\_\_

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Position  
**Drilling Clerk**

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Company  
**El Paso Natural Gas**

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Date  
**March 25, 1977**

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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.

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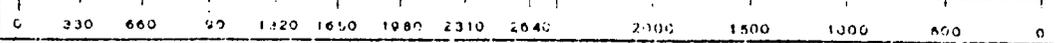
Date Surveyed  
**MARCH 10, 1977**

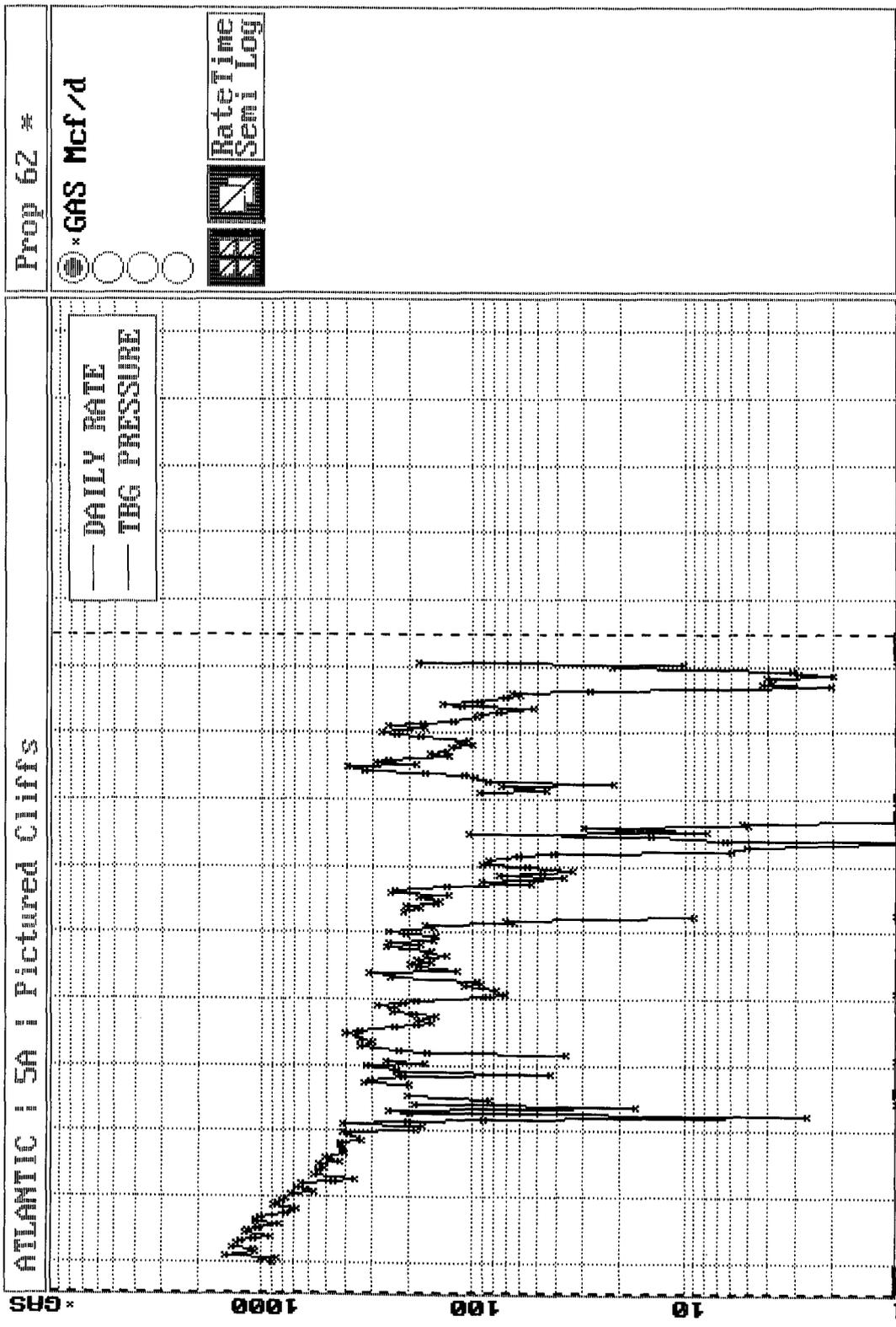
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Registered Professional Engineer and/or Land Surveyor  
*David O. Kuen*

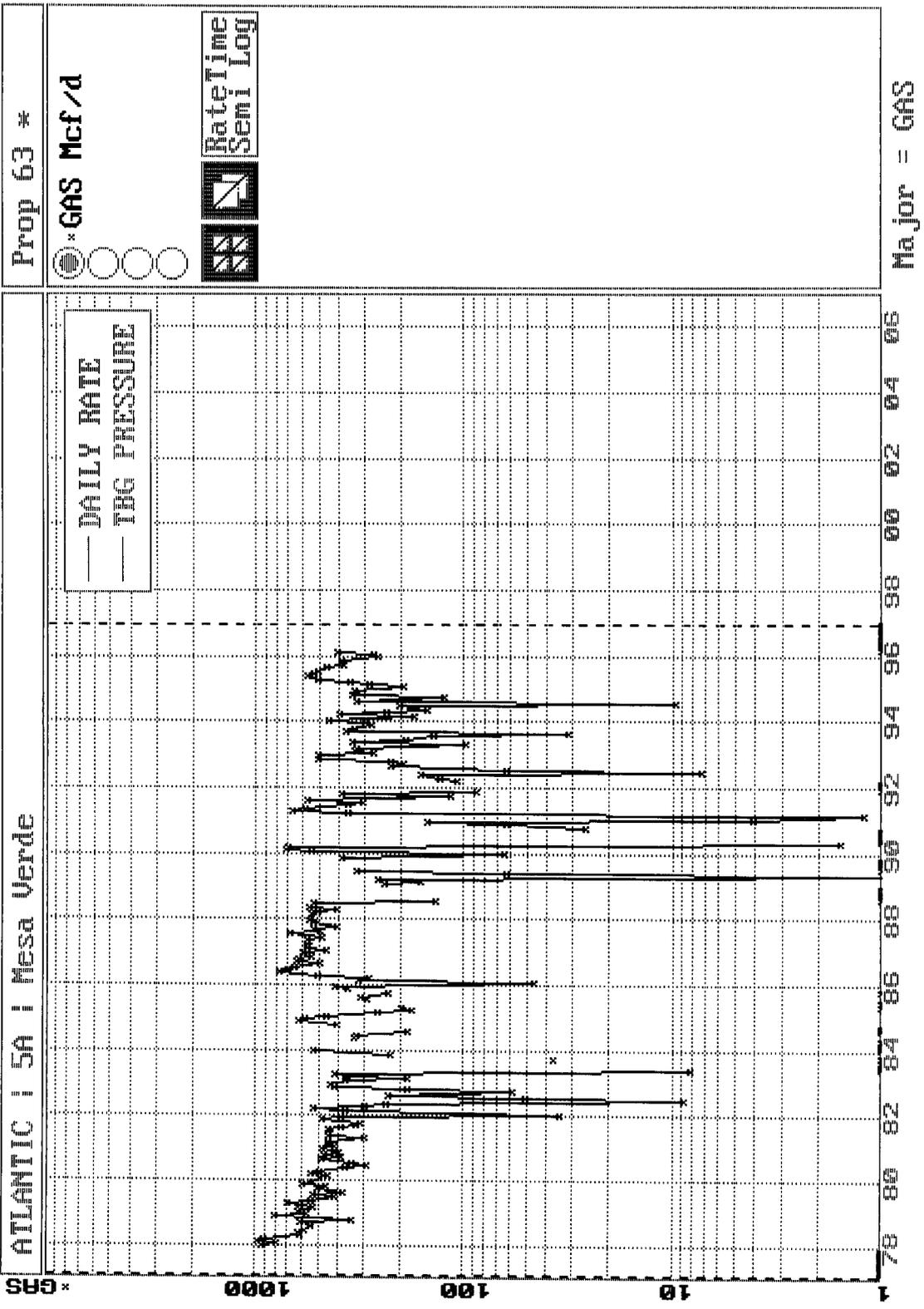
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Certificate No. **1760**





Major = GAS

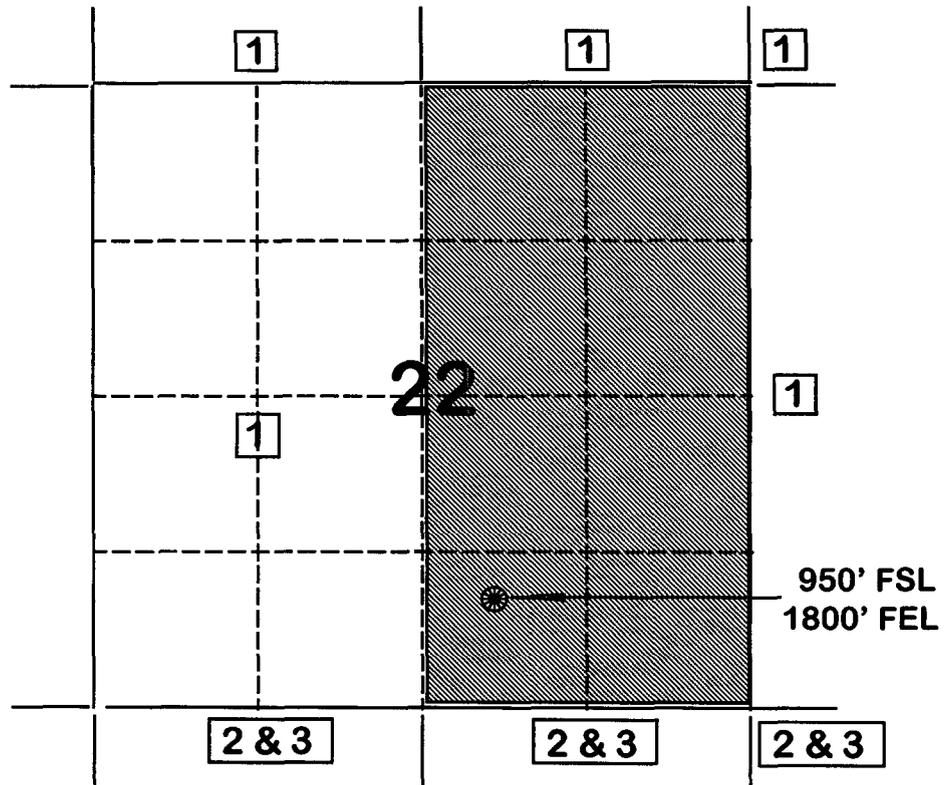


**BURLINGTON RESOURCES OIL AND GAS COMPANY**

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

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

**Township 31 North, Range 10 West**



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

Page No.: 1

Print Time: Wed Apr 16 11:19:00 1997

Property ID: 62

Property Name: ATLANTIC | 5A | Pictured Cliffs

Table Name: C:\ARIES\WORK\TEST.DBF

<u>--DATE--</u>	<u>---CUM_GAS--</u>	<u>M_SIWHP</u>
	Mcf	Psi
10/20/77	0	721.0 ✓
01/04/78	27199	702.0
05/09/78	196801	659.0
06/21/79	631178	537.0
07/17/80	901172	425.0
11/04/82	1189324	381.0
06/20/84	1281549	381.0
05/19/93	1730503	300.0

Page No.: 1

Print Time: Wed Apr 16 11:30:14 1997

Property ID: 63

Property Name: ATLANTIC | 5A | Mesa Verde

Table Name: C:\ARIES\WORK\TEST.DBF

<u>--DATE--</u>	<u>---CUM_GAS--</u>	<u>M</u>	<u>SIWHP</u>
	Mcf		Psi
10/20/77	0		611.0
01/04/78	28546		481.0
05/09/78	147961		387.0
06/21/79	374273		369.0
07/17/80	556732		387.0
05/20/82	817184		367.0
06/20/84	945118		406.0
08/27/86	1197940		284.0
11/28/89	1609063		393.0
06/10/91	1738191		359.0
07/30/91	1747629		347.0
05/19/93	1899623		230.0
08/17/93	1901308		272.0

**Atlantic No. 5A**  
**Bottom Hole Pressures**  
**Static BHP**  
**Cullender and Smith Method**  
Version 1.0 3/13/94

<b>Mesaverde</b>	<b>Pictured Cliffs</b>																																																
<b><u>MV-Current</u></b>	<b><u>PC-Current</u></b>																																																
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FARMINGTON

ANNUAL PRODUCTION FOR 53524B

PHS020M1

ATLANTIC 5A

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

===== OIL CUM =====	===== GAS CUM =====	===== WATER CUM =====
PC DATE	PC DATE	DATE
BBLs	MCF	BBLs

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=====
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YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1987	1306	12448	195639	1466708		
1988	630	13078	98094	1564802		
1989	107	13185	46222	1611024		
1990	244	13429	66977	1678001		
1991	309	13738	104908	1782909		
1992	233	13971	64871	1847780		
1993	389	14360	92756	1940536		
1994	436	14796	93910	2034446		
1995	869	15665	146587	2181033		
1996	521	16186	120130	2301163		

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION  
 ENTER - CONTINUES ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE  
 PF6 - RETURN TO WELL-INFO DISPLAY PF9 - ANNUAL INJECTION DISPLAY  
 PF10 - HELP INFORMATION

B MY JOB LU #33

FARMINGTON

ANNUAL PRODUCTION FOR 53524B

PHS020M1

ATLANTIC 5A

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

===== OIL CUM =====	===== GAS CUM =====	===== WATER CUM =====
PC DATE	PC DATE	DATE
BBLs	MCF	BBLs

```
=====
```

YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1997	63	16249	20341	2321504		

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION  
 ENTER - CONTINUES ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE  
 PF6 - RETURN TO WELL-INFO DISPLAY PF9 - ANNUAL INJECTION DISPLAY  
 PF10 - HELP INFORMATION

B MY JOB LU #33

FARMINGTON

1997 MONTHLY PRODUCTION FOR 53524B

PHS030M1

ATLANTIC 5A

BLANCO MESAVERDE (PRORATED GAS FIELD

MESAVERDE ZONE

MO	T	S	DAYS		OIL		GAS				WATER PROD	C
			ON	PC	PROD	GRV	PC	PROD	ON	BTU		
1	2	F	31	02	35		01	10116	31	1166	15.025	
2	2	F	28	02	28		01	10225	28	1168	15.025	
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

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

PRS 04/03/97

B MY JOB

NUM LU #33

FARMINGTON

ANNUAL PRODUCTION FOR 53524A

PHS020M1

ATLANTIC 5A

BLANCO PICTURED CLIFFS (GAS) FIELD

PICTURED CLIFFS ZONE

===== OIL CUM =====

===== GAS CUM =====

===== WATER CUM =====

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

=====

YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1987			67595	1541765		
1988			49532	1591297		
1989			40555	1631852		
1990			15412	1647264		
1991			1473	1648737		
1992			43496	1692233		
1993			61746	1753979		
1994			50719	1804698		
1995			8186	1812884		
1996			8942	1821826		

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION  
 ENTER - CONTINUES ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE  
 PF6 - RETURN TO WELL-INFO DISPLAY PF9 - ANNUAL INJECTION DISPLAY  
 PF10 - HELP INFORMATION

B MY JOB

LU #33

FARMINGTON

ANNUAL PRODUCTION FOR 53524A

PHS020M1

ATLANTIC 5A

BLANCO PICTURED CLIFFS (GAS) FIELD

PICTURED CLIFFS ZONE

===== OIL CUM =====

===== GAS CUM =====

===== WATER CUM =====

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

=====

YEAR	OIL	OIL CUM	GAS	GAS CUM	WATER	WATER CUM
1997			10353	1832179		

POSITION CURSOR BY YEAR AND PRESS ENTER TO DISPLAY MONTHLY PRODUCTION  
 ENTER - CONTINUES ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE  
 PF6 - RETURN TO WELL-INFO DISPLAY PF9 - ANNUAL INJECTION DISPLAY  
 PF10 - HELP INFORMATION

B MY JOB

LU #33

FARMINGTON  
ATLANTIC

1997 MONTHLY PRODUCTION FOR 53524A

PHS030M1

5A

BLANCO PICTURED CLIFFS (GAS) FIELD

ICTURED CLIFFS ZONE

MO	T	S	DAYS =====		OIL =====		=====		GAS =====					
			ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F					01	5443	31	1038	15.025			
2	2	F					01	4910	28	1030	15.025			
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

PF6 - RETURNS TO ANNUAL DISPLAY  
PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE  
PF9 - DISPLAY MONTHLY INJECTION  
PRS 04/03/97

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

B MY JOB

NUM LU #33

FDG055M4 S031  
START OF DATA  
DP NO: 53524a  
ATLANTIC

WELL PRODUCTION 8/8'S VOLUME

04/16/97 16:14:43

*Pictured Cliffs*

5A

DATE: 970414 (YYMMDD FORMAT)  
SCROLL FORWARD BY DATE: \_

E	DATE	HOURS	-OIL PRODN-		-GAS PRODN-		-WATER PRODN-	
L	PRODUCED	ON	(BOPD	BOPM)	(MCFD	MCFM)	(BWPD	BWPM)
-	04/14/97	24.0	0.00	0.00	159	2434	0.00	0.00
-	04/13/97	24.0	0.00	0.00	164	2275	0.00	0.00
-	04/12/97	24.0	0.00	0.00	161	2111	0.00	0.00
-	04/11/97	24.0	0.00	0.00	164	1950	0.00	0.00
-	04/10/97	24.0	0.00	0.00	171	1786	0.00	0.00
-	04/09/97	24.0	0.00	0.00	176	1615	0.00	0.00
-	04/08/97	24.0	0.00	0.00	176	1439	0.00	0.00
-	04/07/97	24.0	0.00	0.00	176	1263	0.00	0.00
-	04/06/97	24.0	0.00	0.00	176	1087	0.00	0.00
-	04/05/97	24.0	0.00	0.00	177	911	0.00	0.00
-	04/04/97	24.0	0.00	0.00	177	734	0.00	0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU  
B MY JOB

PF6=NRI  
ENTER=BACKWARDS  
LU #33

PF10=BROWSE MENU

PF11=INQ/UPDATE MENU  
PF24=HELP

FDG055M4 S031  
START OF DATA  
DP NO: 53524b  
ATLANTIC

WELL PRODUCTION 8/8'S VOLUME

04/16/97 16:15:01

*Mesa Verde*

5A

DATE: 970414 (YYMMDD FORMAT)  
SCROLL FORWARD BY DATE: \_

E	DATE	HOURS	-OIL PRODN-		-GAS PRODN-		-WATER PRODN-	
L	PRODUCED	ON	(BOPD	BOPM)	(MCFD	MCFM)	(BWPD	BWPM)
-	04/14/97	24.0	1.27	17.78	427	6006	0.00	0.00
-	04/13/97	24.0	1.27	16.51	435	5579	0.00	0.00
-	04/12/97	24.0	1.27	15.24	444	5144	0.00	0.00
-	04/11/97	24.0	1.27	13.97	452	4700	0.00	0.00
-	04/10/97	24.0	1.27	12.70	464	4248	0.00	0.00
-	04/09/97	24.0	1.27	11.43	482	3784	0.00	0.00
-	04/08/97	24.0	1.27	10.16	412	3302	0.00	0.00
-	04/07/97	24.0	1.27	8.89	412	2890	0.00	0.00
-	04/06/97	24.0	1.27	7.62	412	2478	0.00	0.00
-	04/05/97	24.0	1.27	6.35	414	2066	0.00	0.00
-	04/04/97	24.0	1.27	5.08	414	1652	0.00	0.00

ENTER I UNDER SEL FOR MAINTENANCE

PF12=MAIN MENU  
B MY JOB

PF6=NRI  
ENTER=BACKWARDS  
LU #33

PF10=BROWSE MENU

PF11=INQ/UPDATE MENU  
PF24=HELP