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

APPLICATION FOR DOWNHOLE COMMINGLING

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

APPROVAL PROCESS :
_X_ Administrative ___Hearing

EXISTING WELLBORE
_x_ YES ___ NO

Burlington Resources Oil & Gas Company **PO Box 4289, Farmington, NM 87499**

Operator — Address

Shaw | **1A** | **D 13-30-9** | **San Juan**

Lease — Well No. — Unit Ltr. - Sec - Twp - Rge — County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. _14538_____ Property Code __7503____ API NO. _30-045-21658__Federal ___x___ , 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)	2647-2693'		4296-5159'
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. 388 psi (see attachment)	a.	a. 322 psi (see attachment)
	(Original) b. 664 psi (see attachment)	b.	b. 695 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1150		BTU 1140
7. Producing or Shut-In?	producing		producing
Production Marginal? (yes or no)	yes		yes
* 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 water of recent test (within 60 days)	Date: 12-96 Rates: 21 mcfd; 0 bopd	Date: Rates:	Date: 12-96 Rates: 10 mcfd; 0 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

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DIST. 3

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? _X_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? _X_Yes ____No

11. Will cross-flow occur? _x__ 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. __x___ Yes _____No (If No, attach explanation)

12. Are all produced fluids from all commingled zones compatible with each other? __x_ Yes ___ No

13. Will the value of production be decreased by commingling? ___ Yes _X_ 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._X__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

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 14-65

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
EL PASO NATURAL GAS COMPANY	SHAW (SF-077231)	1 A

Unit Letter	Section	Township	Range	County
D	13	30 NORTH	9 WEST	SAN JUAN

Actual Footage Location of Well:
955 feet from the NORTH line and 1190 feet from the WEST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5871	MESA VERDE Pic Cliffs	BLANCO MESA VERDE Blanco Pictured Cliffs Ext	160.0 320.00 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

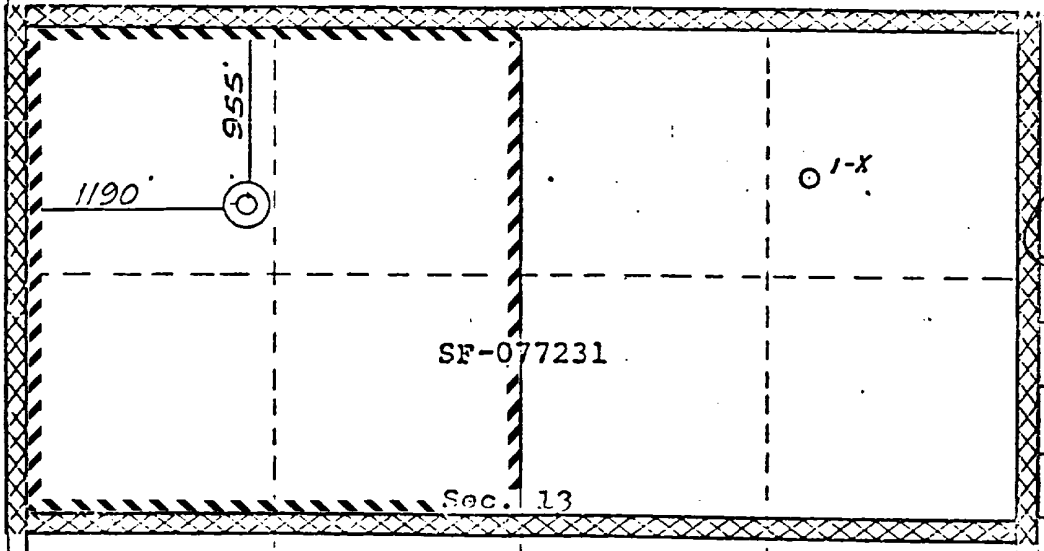
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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.



Note: Plat re-issued to show addition of PC Formation
4-11-85

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APR 15 1985
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

CERTIFICATION

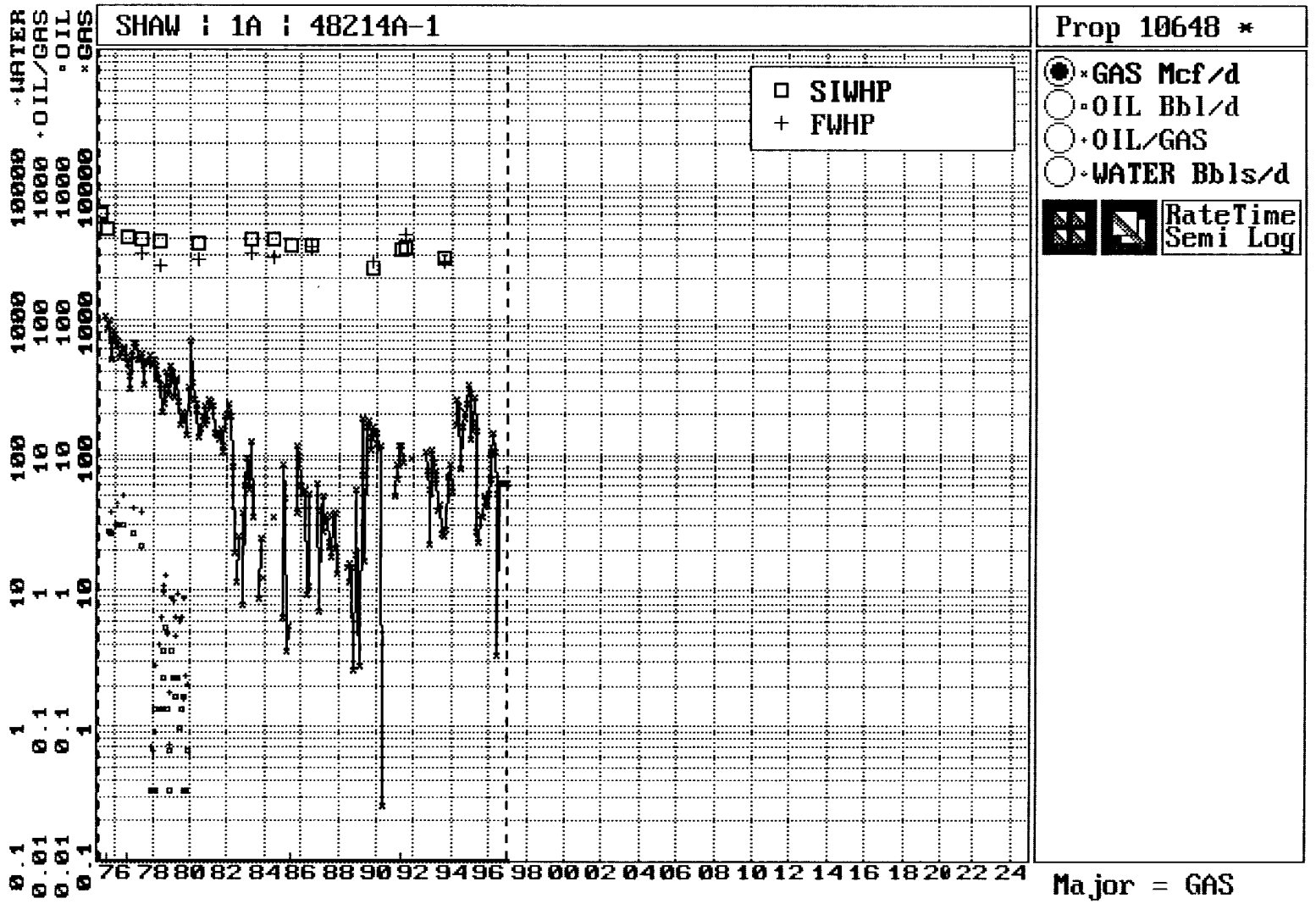
I hereby certify that the information co tained herein is true and complete to t best of my knowledge and belief.

Peggy Cook
Name
Drilling Clerk
Position
El Paso Natural Gas C
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.

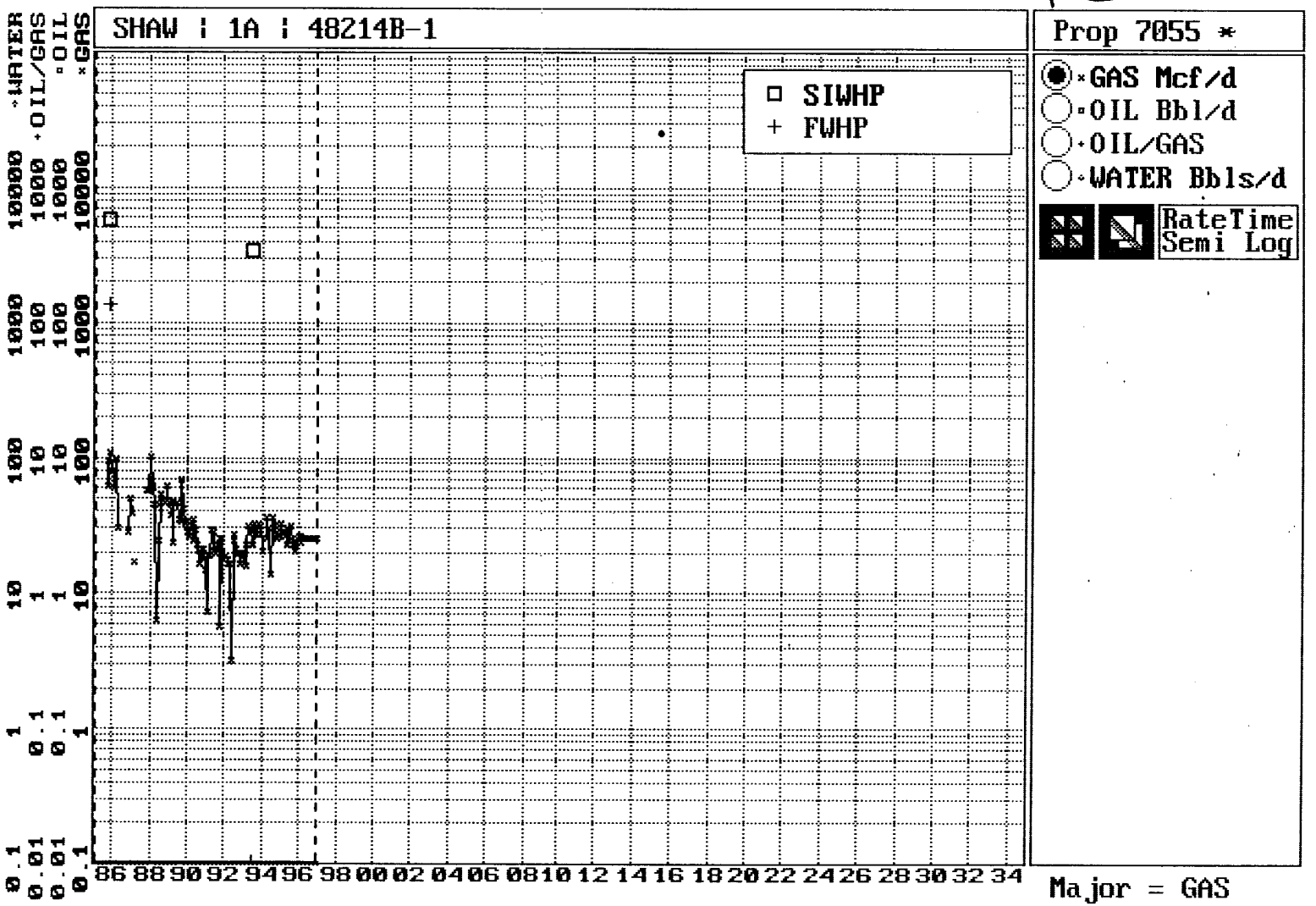
17 December, 1974
Date Surveyed
JAMES P. LEESE
Registered and/or Land Surveyor
Certificate No.

MV


SHAW : 1A : 48214A-1
SIWHP
FWHP
*WATER
*OIL/GAS
*OIL
*GAS
76 78 80 82 84 86 88 90 92 94 96 98 00 02 04 06 08 10 12 14 16 18 20 22 24
Prop 10648 *
*GAS Mcf/d
*OIL Bbl/d
*OIL/GAS
*WATER Bbls/d
RateTime
Semi Log
Major = GAS

*rB

PC


SHAW ¦ 1A ¦ 48214B-1
SIWHP
FWHP
·WATER
·OIL/GAS
▫OIL
×GAS
10000 1000 10000
1000 100 1000
100 10 100
10 1 10
1 0.1 1
0.1 0.01 0.1
86 88 90 92 94 96 98 00 02 04 06 08 10 12 14 16 18 20 22 24 26 28 30 32 34
Prop 7055 *
×GAS Mcf/d
▫OIL Bbl/d
·OIL/GAS
·WATER Bbls/d
RateTime
Semi Log
Major = GAS

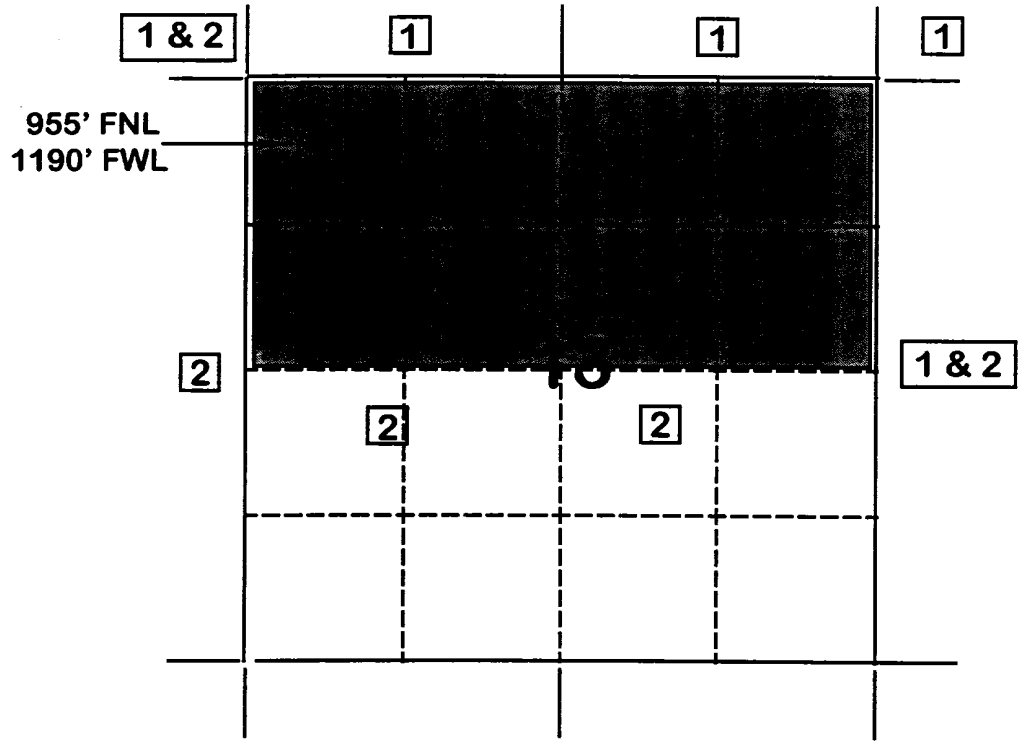
A@

BURLINGTON RESOURCES OIL AND GAS COMPANY

Shaw #1A
OFFSET OPERATOR \ OWNER PLAT

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

Township 30 North, Range 9 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

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

GAS GRAVITY	0.65
COND. OR MISC. (C/M)	C
%N2	0.15
%CO2	1.08
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5209
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	286
BOTTOMHOLE PRESSURE (PSIA)	321.7

SHAW #1A MESAVERDE - (CURRENT)

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

GAS GRAVITY	0.65
COND. OR MISC. (C/M)	C
%N2	0.15
%CO2	1.08
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5209
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	614
BOTTOMHOLE PRESSURE (PSIA)	694.8

SHAW #1A MESAVERDE - (ORIGINAL)

MV

Organize Data ScreenGraph Economics Report Plot Utility Quit
Browsing: SHAW | 1A | 48214A-1 Property No.: 10648
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/15/103224
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM_GAS--	M	SIWHP
	Mcf		Psi
03/27/75	0		614.0
04/09/75	0		627.0
07/28/75	58190		470.0
08/23/76	313875		416.0
06/07/77	463869		392.0
05/23/78	614850		376.0
06/24/80	835493		367.0
03/21/83	966009		394.0
06/27/84	973360		396.0
06/20/85	977898		358.0
07/03/86	994493		352.0
09/28/89	1037840		244.0
04/15/91	1075657		330.0
07/12/91	1078427		342.0
07/29/93	1103548		286.0

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	0.66
COND. OR MISC. (C/M)	C
%N2	0.6
%CO2	0.55
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5209
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	342
BOTTOMHOLE PRESSURE (PSIA)	387.8

SHAW #1A PICTURED CLIFFS - (CURRENT)

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

GAS GRAVITY	0.66
COND. OR MISC. (C/M)	C
%N2	0.6
%CO2	0.55
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	5209
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	582
BOTTOMHOLE PRESSURE (PSIA)	663.7

SHAW #1A PICTURED CLIFFS - (ORIGINAL)

PC

Organize Data ScreenGraph Economics Report Plot Utility Quit
Browsing: SHAW | 1A | 48214B-1 Property No.: 7055
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/2/103224
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM_GAS--	M_SIWHP
	Mcf	Psi
10/28/85	4653	582.0
07/02/93	86567	342.0

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 1996 MONTHLY PRODUCTION FOR 48214A PHS030M
SHAW 1A
BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

			DAYS	OIL			GAS					
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER PROD
1	2	F					01	2044	31	1145	15.025	
2	2	F					01	3071	29	1145	15.025	
3	2	F					01	4403	31	1145	15.025	
4	2	F					01	3162	30	1145	15.025	
5	2	S					01	1557	31	1145	15.025	
6	2	F					01	103	17	1145	15.025	
7	2	F					01	264	31	1144	15.025	
8	2	F					01	375	31	1144	15.025	
9	2	F					01	317	30	1144	15.025	
10	2	F					01	449	31	1144	15.025	
11	2	F					01	277	30	1144	15.025	
12	2	F					01 10 MCFD	296	31	1144	15.025	

PF6 - RETURNS TO ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE
PF10 - HELP INFORMATION PF9 - DISPLAY MONTHLY INJECTIC
00/00/00 00:00:00:0 PRS 02/05/97

B MY JOB NUM LU #21

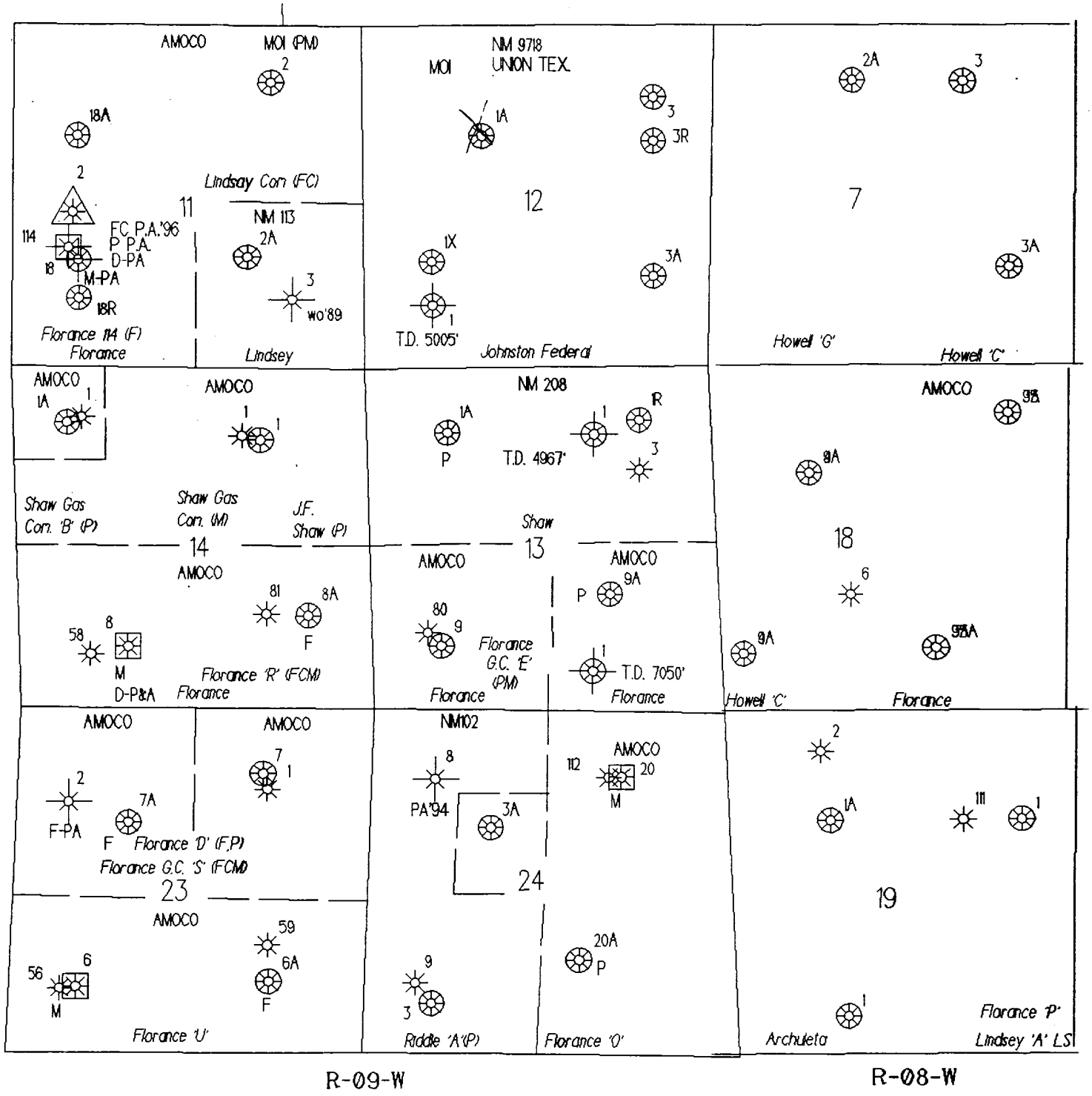
FARMINGTON 1996 MONTHLY PRODUCTION FOR 48214B PHS030M
SHAW 1A
BLANCO PICTURED CLIFFS (GAS) FIELD PICTURED CLIFFS ZONE

			DAYS	OIL			GAS					
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER PROD
1	2	F	31				01	801	31	1118	15.025	
2	2	F	29				01	712	29	1118	15.025	
3	2	F	24				01	641	24	1118	15.025	
4	2	F	30				01	730	30	1118	15.025	
5	2	S	31				01	1018	31	1118	15.025	1
6	2	F	17				01	563	17	1118	15.025	
7	2	F	31				01	563	31	1118	15.025	
8	2	F	31				01	464	31	1118	15.025	
9	2	F	30				01	581	30	1118	15.025	
10	2	F	31				01	776	31	1117	15.025	
11	2	F	30				01	950	30	1117	15.025	
12	2	F	31				01 21 MCFD	654	31	1117	15.025	

PF6 - RETURNS TO ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE
PF10 - HELP INFORMATION PF9 - DISPLAY MONTHLY INJECTIC
00/00/00 00:00:00:0 PRS 02/05/97

B MY JOB NUM LU #21

SHAW #1A
SECTION 13, T30N, R09W
MESAVERDE - PICTURED CLIFFS



R-09-W

R-08-W