

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

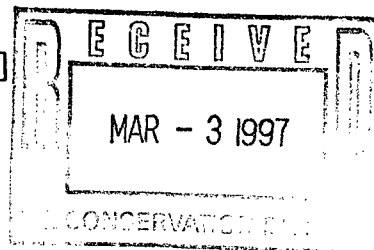
Check One Only for [B] and [C]

[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

Regulatory/Compliance Administrator

Print or Type Name

Signature

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: Taliaferro #4E
830'FNL, 1850'FWL Section 29, T-31-N, R-12-W, San Juan County, NM
API #30-045-24452

Dear Mr. LeMay:

This is a request for administrative approval for downhole commingling the Blanco Mesa Verde and the Basin Dakota in the subject well. This well was originally drilled as a Mesa Verde/Dakota 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 Mesa Verde and Dakota 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 Dakota

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 87505-8429

Form C-107-A
New 3-12-98

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil & Gas Company
87499

PO Box 4289, Farmington, NM

Operator

Taliaferro

Address

4E

C 29-31-12

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7579 API NO. 30-045-24452 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 Mesaverde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	4717-4930'		6870-6972'
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. 546 psi (see attachment) (Original) b. 1243 psi (see attachment)	a. b.	a. 660 psi (see attachment) b. 1245 psi (see attachment)
6. Oil Gravity (^o API) or Gas BTU Content	BTU 1227		BTU 1283
	producing		producing
Production Marginal? (yes or no)	no		yes
* If Shut-In and oil/gas/water rates of last production <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>	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: 54 mcf/d; 0 bopd	Date: Rates:	Date: 10-96 Rates: 7 mcf/d; 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

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. 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 2/17/97

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

NEW MEXICO OIL CONSERVATION COMMISSION
WEI LOCATION AND ACREAGE DEDICATION AT

Form C-102
Supersedes C-12
Effective 1-1-65

EXHIBIT "A" - Location & Elevation Plat

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

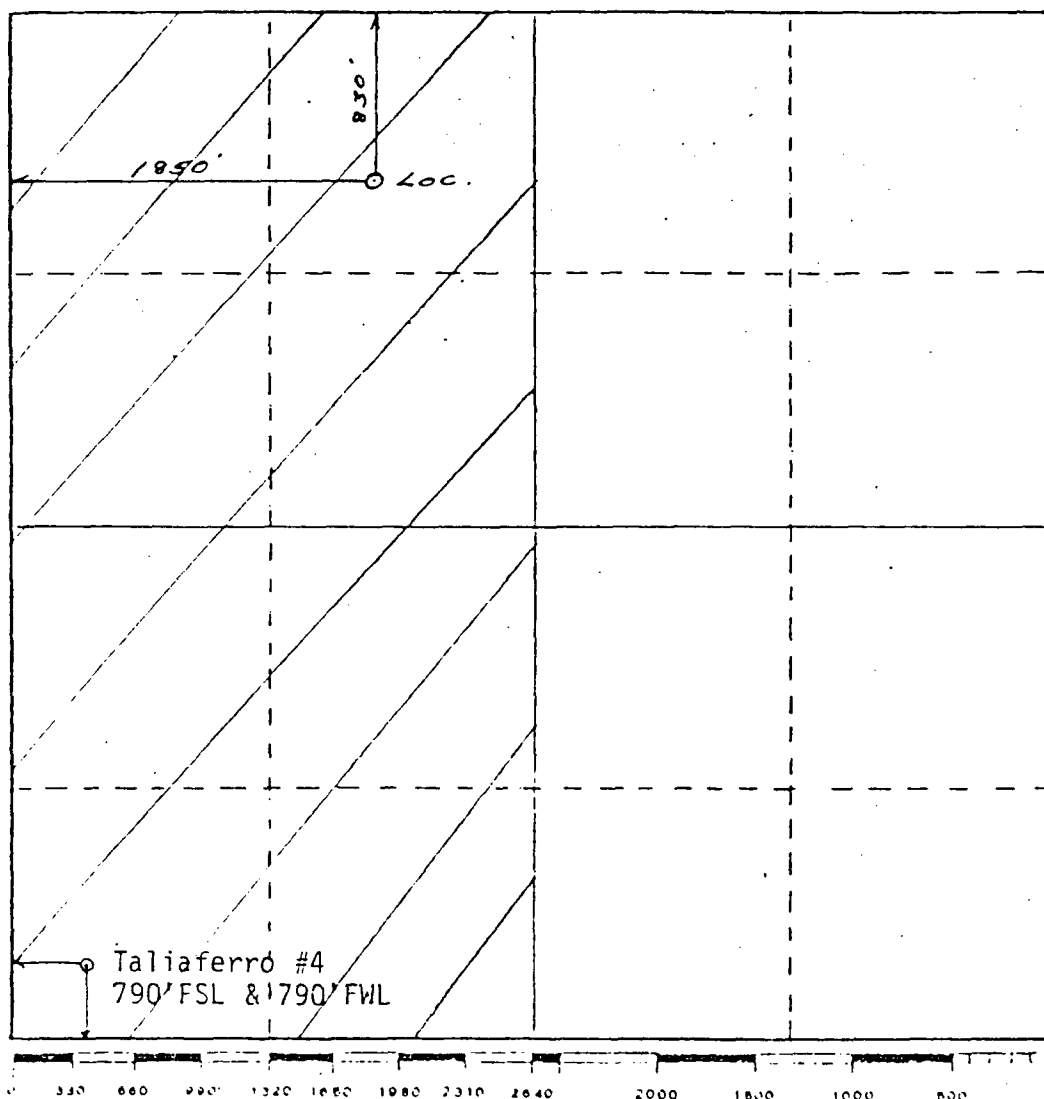
Owner Supron Energy Corporation			Lease SF-078244		Well No. Taliaferro #4E
Grid Letter C	Section 29	Township 31 North	Range 12 West	County San Juan	
Actual Footage Location of Well: 830 feet from the North line and 1850 feet from the West line					
Ground Level Elev. 6030'	Producing Formation DAKOTA		Pool BASIN DAKOTA		Dedicated Acreage: 320 Acres

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

George Lapaseotes
Name **George Lapaseotes**
V. President Power Elevation

Position
Agent Consultant for

Company
Supron Energy Corporation

Date
May 22, 1980

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.

28
Date Surveyed
David G. Huddleston
Registered Professional Engineer
and/or Licensed Surveyor
6844

Certificate No.

NEW MEXICO OIL CONSERVATION COMMISSION
WEI LOCATION AND ACREAGE DEDICATION AT

Form C-102
Supersedes C-12
Effective 1-1-65

EXHIBIT "A" - Location & Elevation Plat

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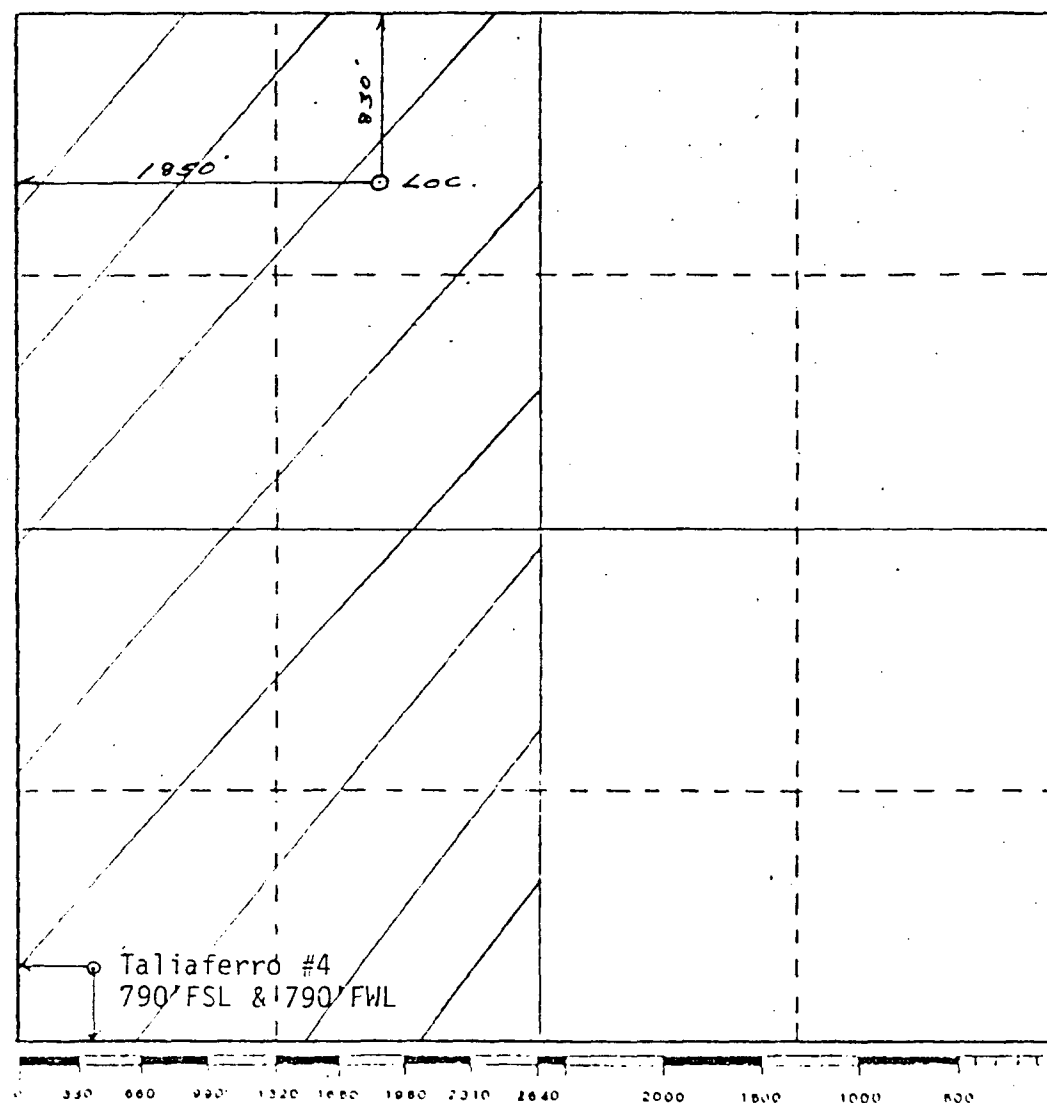
Operator Supron Energy Corporation			Lease SF-078244		Well No. Taliaferro #4E
Plot Letter C	Section 29	Township 31 North	Range 12 West	County San Juan	
Actual Footage Location of Well: 830 feet from the North line and 1850 feet from the West line.					
Ground Level Elev. 6030'	Producing Formation DAKOTA		Pool BASIN DAKOTA	Dedicated Acreage: 320 Acres	

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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.

George Lapaseotes
Name **George Lapaseotes**
Position **V. President Power Elevation**
Agent Consultant for
Company **Supron Energy Corporation**
Date **May 22, 1980**

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.

WILD G. HUDDLESTON
Date Surveyed **28 May 1980**
Wild G. Huddleston
Registered Professional Engineer and/or Land Surveyor
6844

Certificate No. _____

MV

TALIAFERRO : 4E : 32309B-1

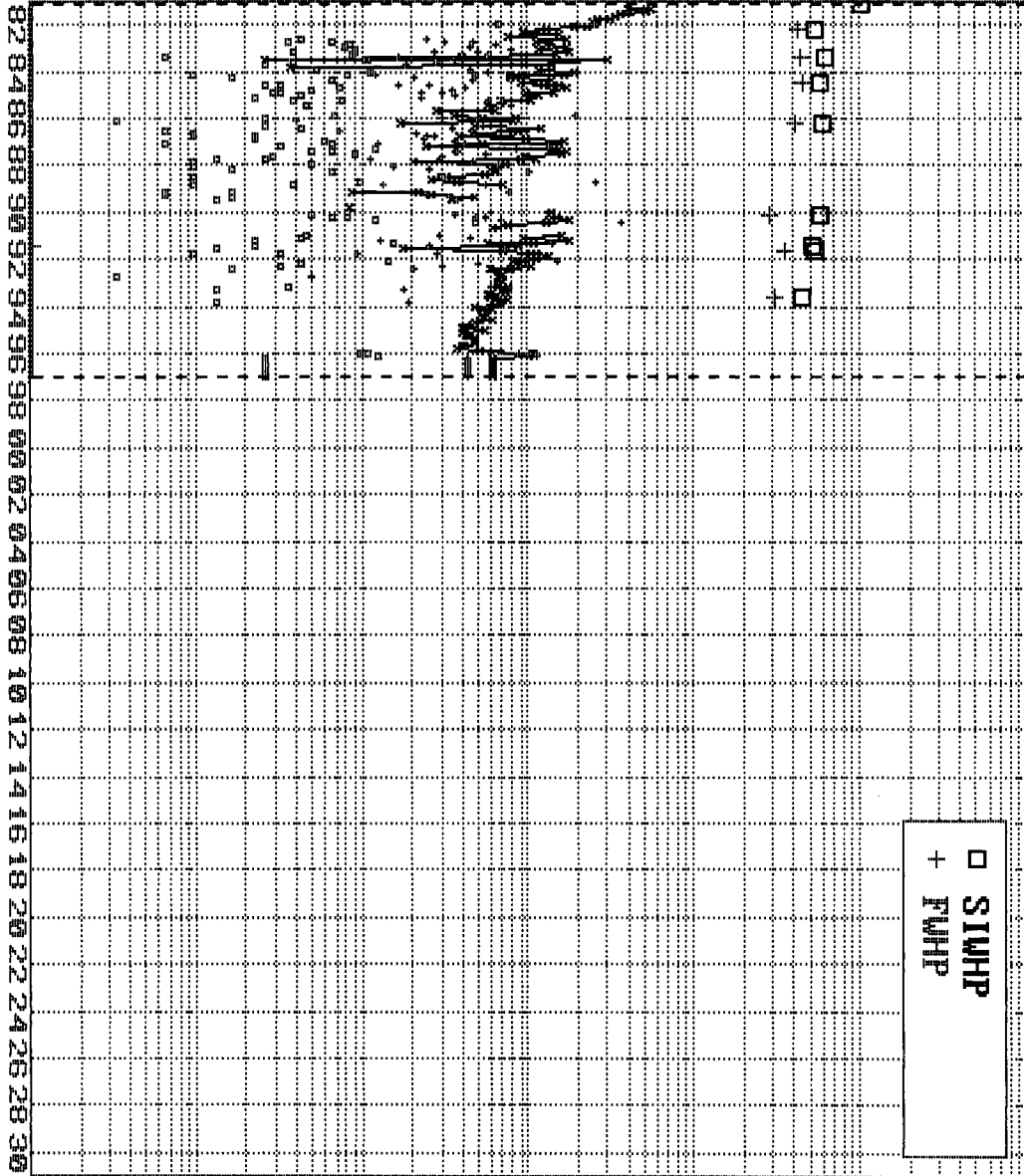
Prop 71 *

□ SIWHP
+ FWHP

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

RateTime
Semi Log

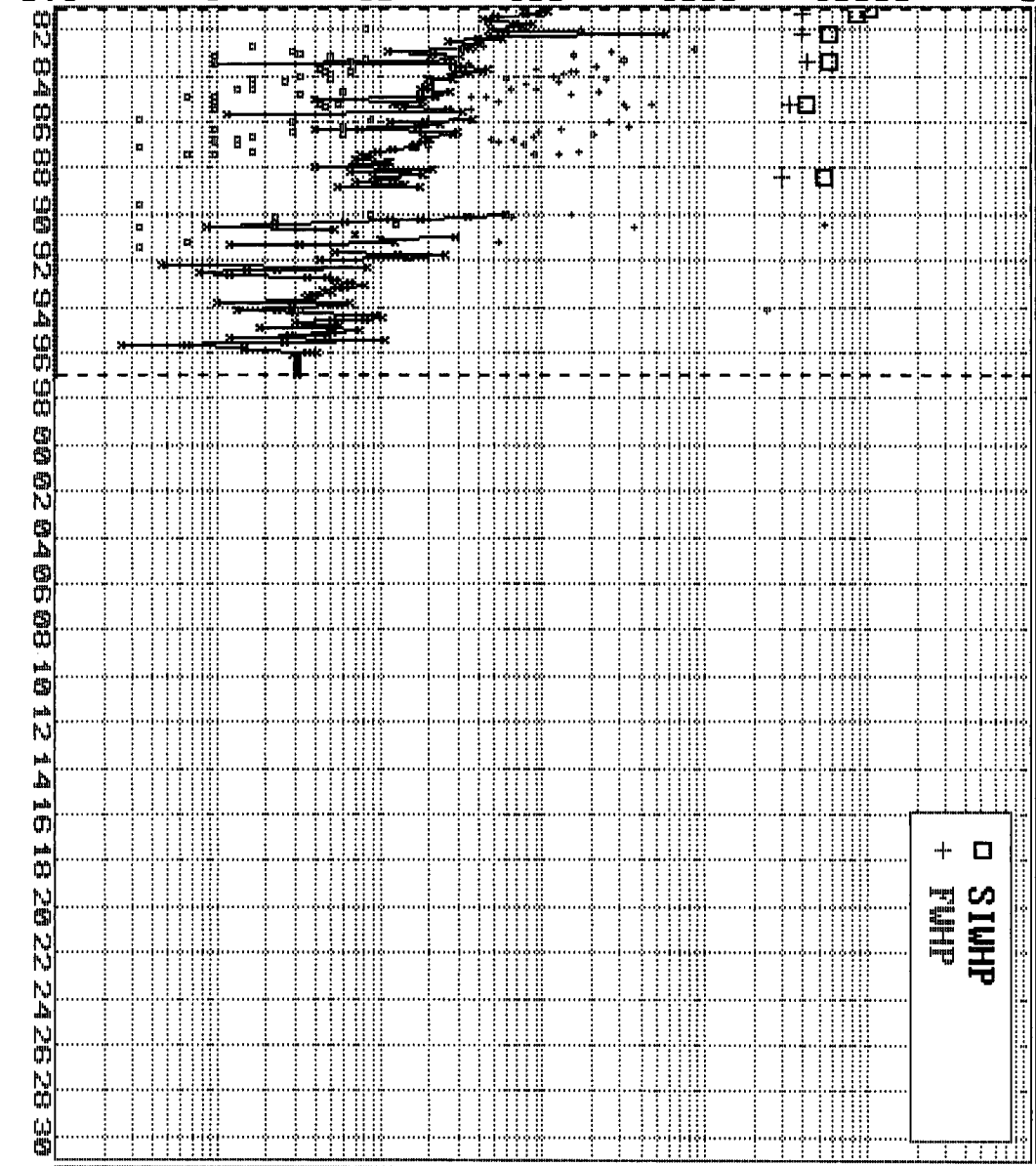
0.1	1	10	100	1000	10000	*WATER
0.01	0.1	1	10	100	1000	*OIL/GAS
0.01	0.1	1	10	100	1000	*OIL
0.1	1	10	100	1000	10000	*GAS



Major = GAS

0.1	1	10	100	1000	10000	• WATER
0.01	0.1	1	10	100	1000	• OIL/GAS
0.01	0.1	1	10	100	1000	• OIL
0.1	1	10	100	1000	10000	• GAS

TALIAFERRO : 4E : 32309A-1



□ SIWHP
+ FWHP

DK

Prop 95 *

☒ • GAS Mcf/d
☐ • OIL Bbl/d
☐ • OIL/GAS
☐ • WATER Bbls/d

☒ Rate Time
☒ Semi Log

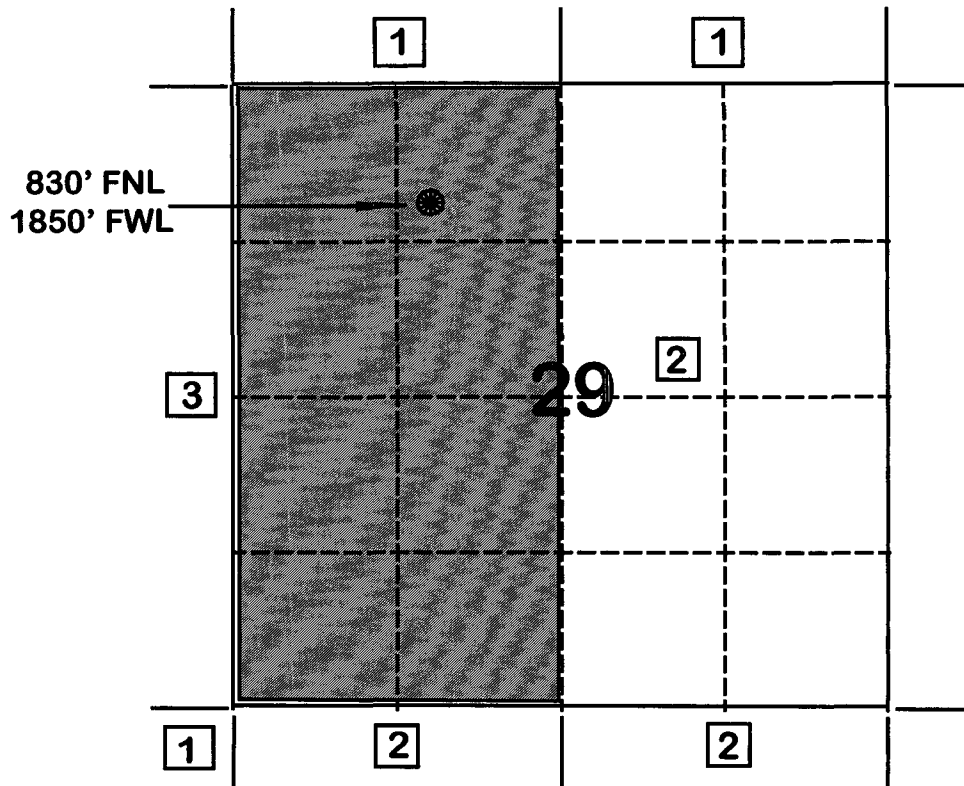
Major = GAS

BURLINGTON RESOURCES OIL AND GAS COMPANY

**Taliaferro #4E
OFFSET OPERATOR \ OWNER PLAT**

Mesaverde/Dakota Formations Commingle Well

Township 31 North, Range 12 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) Robert R. Click
Suite 230 Pecan Creek
8340 Meadow Road
Dallas, TX 75231

**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	0.24
%CO2	0.57
%H2S	0
DIAMETER (IN)	1.25
DEPTH (FT)	7071
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	457
BOTTOMHOLE PRESSURE (PSIA)	546.4

TALIAFERRO #4E MESAVERDE - (CURRENT)

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

VERSION 10.3/13/94

GAS GRAVITY	0.7
COND. OR MISC. (C/M)	C
%N ₂	0.24
%CO ₂	0.57
%H ₂ S	0
DIAMETER (IN)	1.25
DEPTH (FT)	7071
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1020
BOTTOMHOLE PRESSURE (PSIA)	1243.3

TALIAFERRO #4E MESAVERDE - (ORIGINAL)

MV

Organize Data ScreenGraph Economics Report Plot Utility Quit
 Browsing: TALIAFERRO | 4E | 32309B-1 Property No.: 71
 Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/9/1231
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
02/07/81	0	1020.0
04/01/82	119247	550.0
06/09/83	171145	632.0
06/27/84	215547	582.0
03/11/86	268234	604.0
02/14/90	357460	591.0
05/20/91	398106	527.0
08/15/91	403540	539.0
07/30/93	460041	457.0

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	0.76
COND. OR MISC. (C/M)	C
%N2	0.44
%CO2	1.54
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7071
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	546
BOTTOMHOLE PRESSURE (PSIA)	659.5

TALIAFERRO #4E DAKOTA - (CURRENT)

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

VERSION 1.0 3/13/94

GAS GRAVITY	0.76
COND. OR MISC. (C/M)	C
%N2	0.44
%CO2	1.54
%H2S	0
DIAMETER (IN)	1.5
DEPTH (FT)	7071
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	200
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1014
BOTTOMHOLE PRESSURE (PSIA)	1245.1

TALIAFERRO #4E DAKOTA - (ORIGINAL)

DK

Organize Data ScreenGraph Economics Report Plot Utility Quit

Browsing: TALIAFERRO | 4E | 32309A-1 Property No.: 95

Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/6/1231

Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
02/07/81	0	1014.0
04/25/81	5765	863.0
04/01/82	43849	576.0
06/09/83	56522	581.0
04/03/85	72609	429.0
05/17/88	89072	546.0

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F2=Jump F4=NxtPro F6=NxtTbl F8=Print F10=Exit Shift+<- ->=Fast Tbl R & L

FARMINGTON 1996 MONTHLY PRODUCTION FOR 32309A
 TALIAFERRO 4E
 BASIN DAKOTA (PRORATED GAS) FIELD DAKOTA ZONE

PHS030M1

DAYS					OIL		GAS		GAS		WATER		PROD	C
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	PROD		
1	2	F	31	02			01	108	31	1236	15.025			
2	2	F	29	02			01	89	29	1236	15.025			
3	2	F	31	02			01	89	31	1236	15.025			
4	2	F	30	02			01	151	30	1236	15.025			
5	2	S	31	02			01	200	31	1236	15.025			
6	2	F	28	02			01	185	28	1260	15.025			
7	2	F	31	02			01	155	31	1260	15.025			
8	2	F	31	02			01	174	31	1260	15.025			
9	2	F	30	02			01	192	30	1260	15.025			
10	2	F	31	02			01	223	31	1260	15.025			
11	2	F	30	02			01	230	30	1260	15.025			
12	2	F	31	02			01	205	31	1260	15.025			

PF6 - RETURNS TO ANNUAL DISPLAY PF3 - TRANSFER TO UPDATE
 PF10 - HELP INFORMATION PF9 - DISPLAY MONTHLY INJECTION
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B MY JOB NUM LU #14

FARMINGTON 1996 MONTHLY PRODUCTION FOR 32309B
 TALIAFERRO 4E
 BLANCO MESAVERDE (PRORATED GAS) FIELD MESAVERDE ZONE

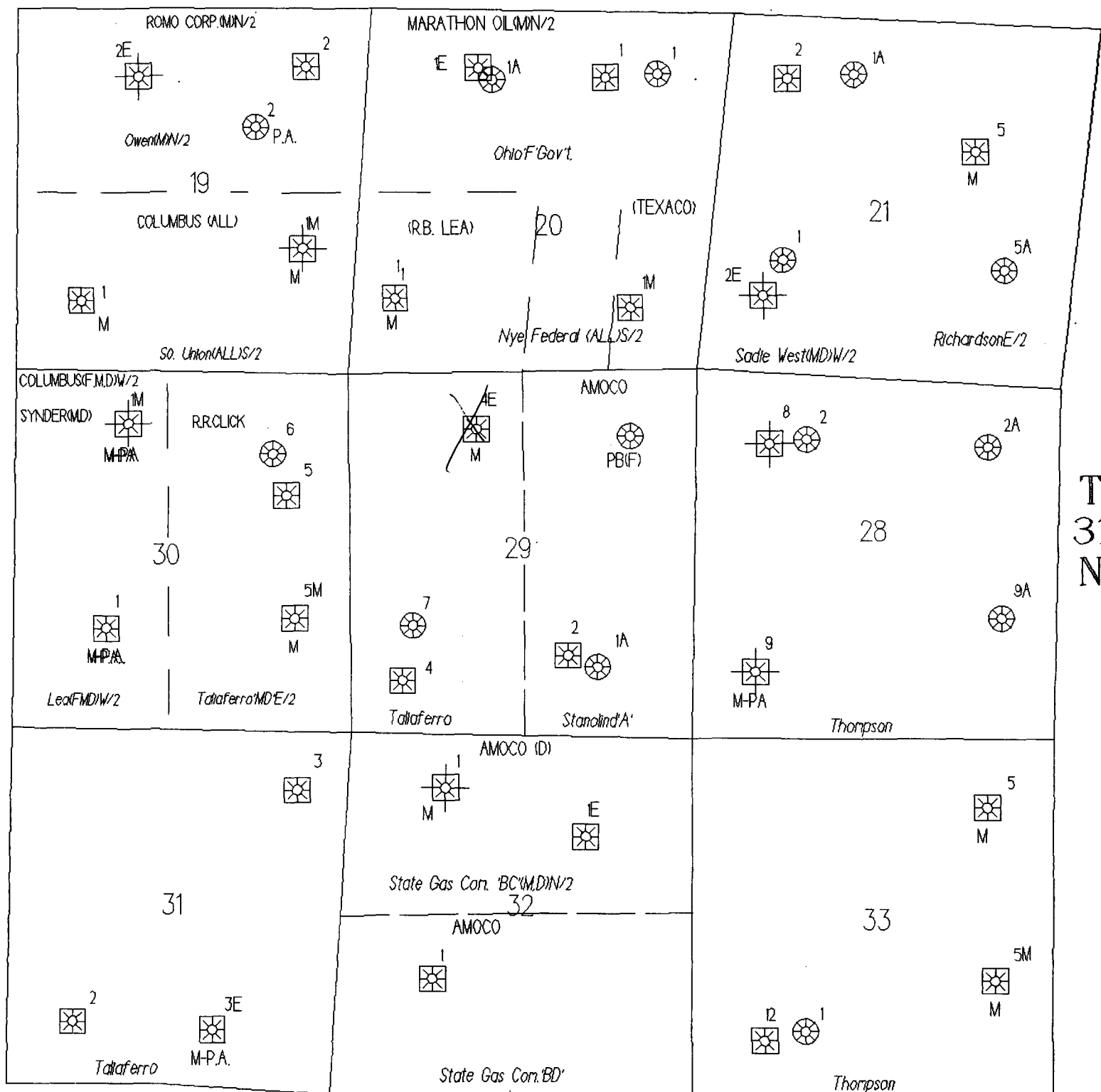
PHS030M1

DAYS					OIL		GAS		GAS		WATER		PROD	C
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	PROD		
1	2	F	31	02	30		01	3377	31	1185	15.025			
2	2	F	29	02	38	58.9	01	3333	29	1185	15.025			
3	2	F	31	02	2		01	2411	31	1185	15.025			
4	2	F	30	02	2		01	2302	30	1185	15.025			
5	2	S	31	02	3		01	2293	31	1205	15.025			
6	2	F	26	02	2		01	2016	26	1205	15.025			
7	2	F	31	02			01	2271	31	1205	15.025			
8	2	F	31	02			01	2202	31	1205	15.025			
9	2	F	30	02			01	1980	30	1205	15.025			
10	2	F	31	02			01	1891	31	1205	15.025			
11	2	F	30	02			01	1865	30	1205	15.025			
12	2	F	31	02			01	1679	31	1205	15.025			

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

B MY JOB NUM LU #14

TALIAFERRO #4E SECTION 29, T31N, R12W MESAVERDE - DAKOTA



T
31
N

R-12-W