

DATE IN 4/29/97	SUSPENSE 5/19/97	ENGINEER B5	LOGGED MW	TYPE DH C
-----------------	------------------	-------------	-----------	-----------

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

Print or Type Name

Signature

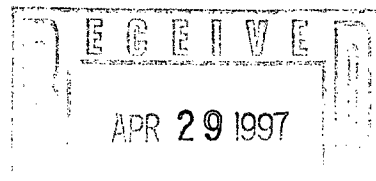
Regulatory/Compliance Administrator

Title

Date

4-28-97

1637



BURLINGTON RESOURCES

SAN JUAN DIVISION

April 24, 1997

SENT FEDERAL EXPRESS

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

Re: Allen Com #1A
1560'FNL, 1140'FWL Section 16, T-31-N, R-09-W, San Juan County, NM
API #30-045-23572

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 Mesa Verde; it is intended to add the Pictured Cliffs and commingle.

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 curve for Mesa Verde and expected production curve for the Pictured Cliffs;
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 Mesa Verde and Pictured Cliffs.

Notification of Mesa Verde and Pictured Cliffs interest owners is unnecessary, as all interests are identical.

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

xc: Bureau of Land Management - hand delivered

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 87505-6429Form C-107-A
New 3-12-96

APPROVAL PROCESS :

☒ Administrative ☐ Hearing

APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

☒ YES ☐ NO

Burlington Resources Oil and Gas

Operator **Allen Com** Address **#1-A E-16-31N-9W San Juan**
Lease Well No. Unit Ltr. - Sec - Twp - Rge County
Spacing Unit Lease Types: (check 1 or more)
OGRID NO. 14538 Property Code 6783 API NO. 30-045-23572 Federal ☐ , State ☒ Fee ☐

The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone
1. Pool Name and Pool Code	Pictured Cliffs - 72359		Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	Will be supplied upon completion.		5196'-5996'
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. 462 psi (est.) (offset Johnston Federal #12) (see attachment) (Original) b. 889 psi (est.) (offset Johnston Federal #12) (see attachment)		a. 406 psi (see attachment) b. 796 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1054 (offset Johnston Federal #12)		BTU 1130
7. Producing or Shut-In?	Not completed yet.		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	Date: N/A Rates:		Date: N/A Rates:
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: Rates:		Date: 3/1/97 Rates: 419 mcf/d 1.0 bopd
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Will be supplied upon completion.		Will be supplied upon completion.

9. If allocation formula is based upon something other than current or past production, as 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 4/24/97

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

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C
Revised February 21,
Instructions on
Submit to Appropriate District C
State Lease - 4 C
Fee Lease - 3 C

☐ AMENDED REP

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-045-23572	72359/72319	Blanco Pictured Cliffs/Blanco Mesaverd
Property Code	Property Name	Well Number
6783	Allen Com	1A
OGRID No.	Operator Name	Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	6501'

¹⁰ Surface Location

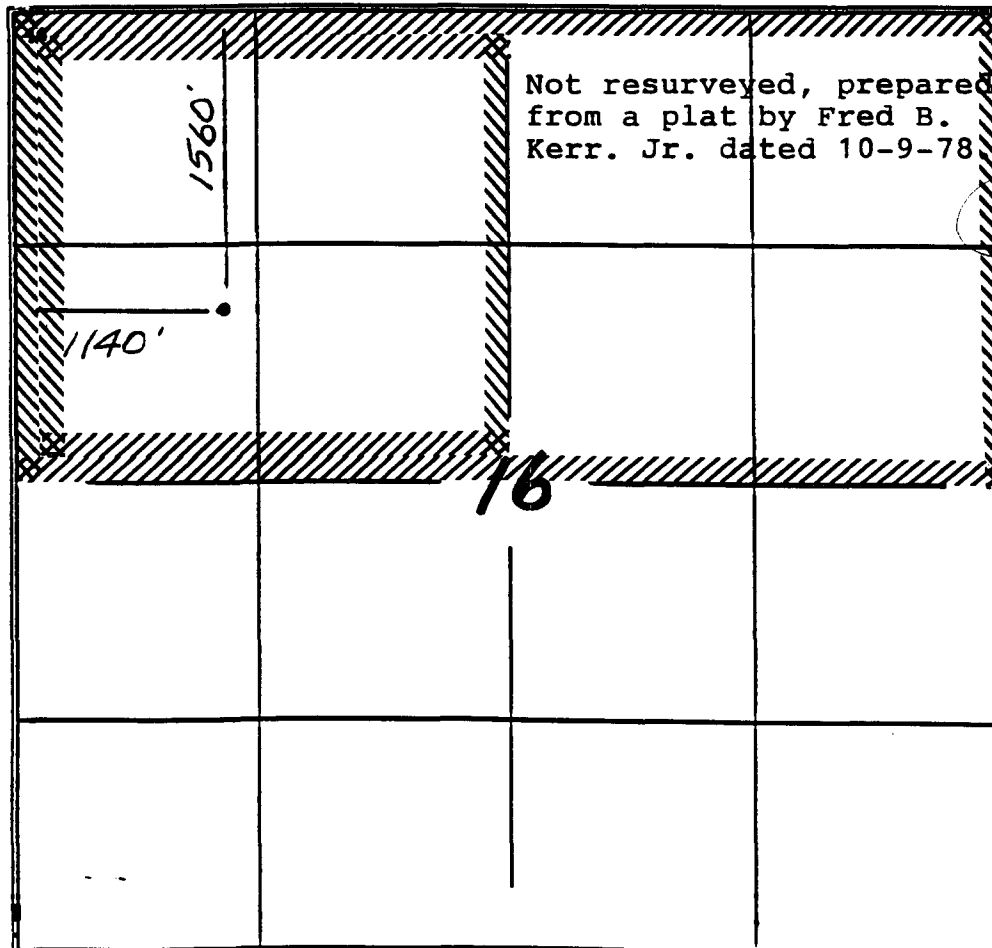
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
E	16	31-N	9-W		1560	North	1140	West	S.J.

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
PC-160			
MV-N/320			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



¹⁷ OPERATOR CERTIFICATE

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

Peggy Bradfield
Signature
Peggy Bradfield
Printed Name
Regulatory Administrator
Title
4-28-97
Date

¹⁸ SURVEYOR CERTIFICATE

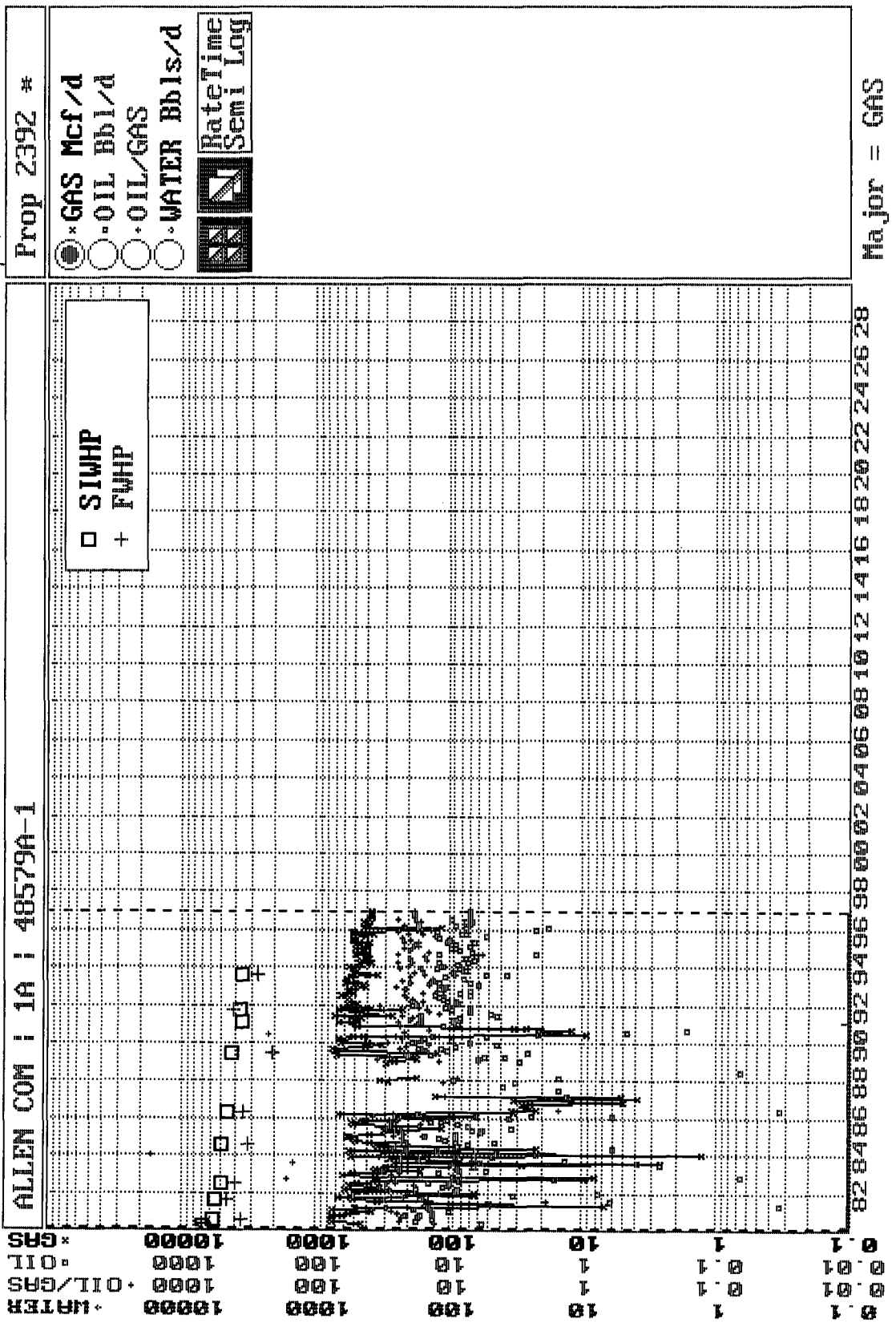
I hereby certify that the well location shown on this was plotted from field notes of actual surveys made or under my supervision, and that the same is true correct to the best of my belief.

4/24/97

Date of Survey
Signature and Seal of Professional Surveyor

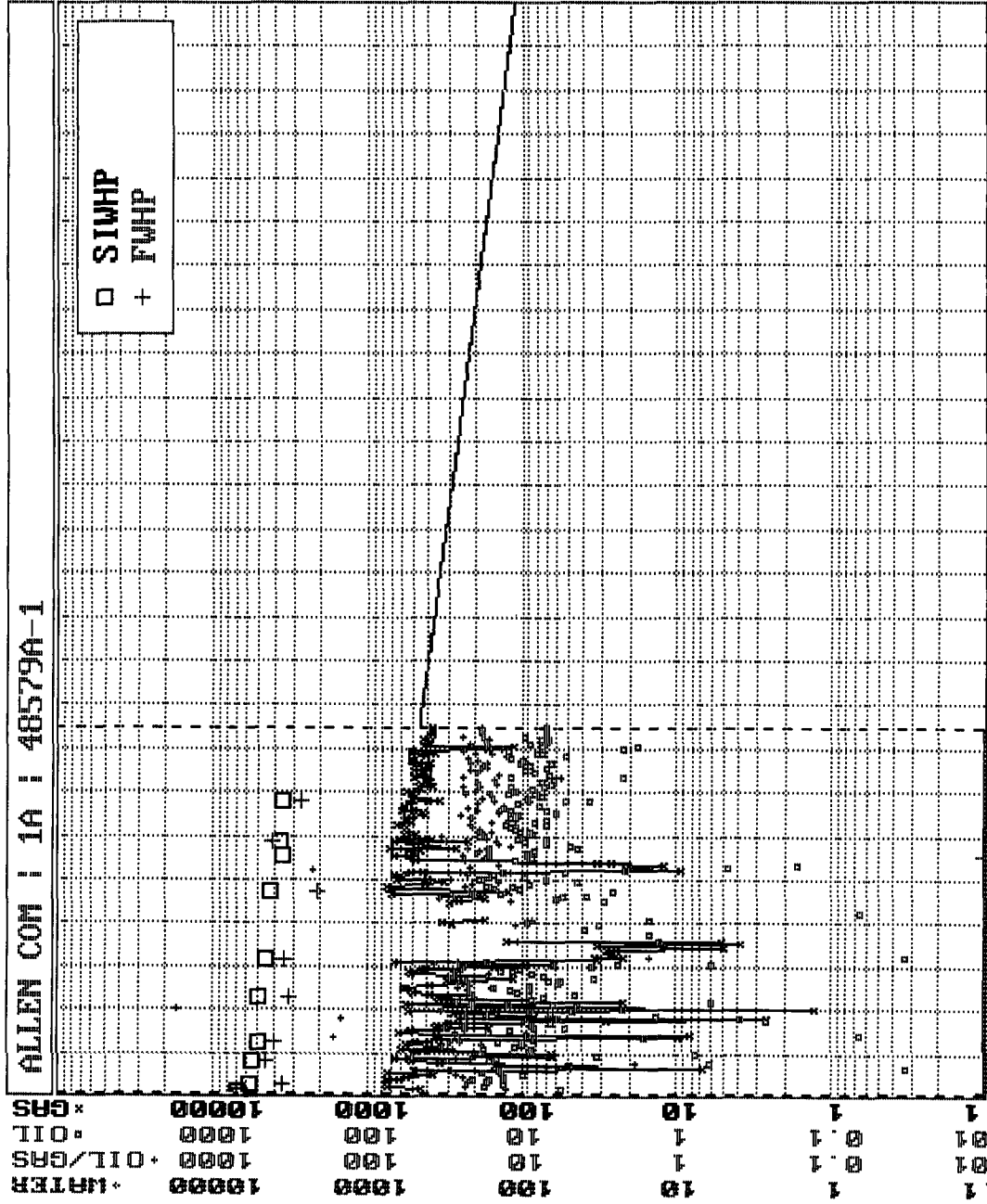
NEALE C. EDWARDS
NEW MEXICO
6857
Certification Number

MU



Allen COM : 1A : 48579A-1		Prop 2392 *	
☒ *GAS Mcf/d	☒ *GAS Mcf/d	☒ *GAS Mcf/d	
☐ *OIL Bbl/d	☐ *OIL Bbl/d	☐ *OIL Bbl/d	
☐ *OIL/GAS	☐ *OIL/GAS	☐ *OIL/GAS	
☐ *WATER Bbls/d	☐ *WATER Bbls/d	☐ *WATER Bbls/d	
☒ RateTime	☒ RateTime	☒ RateTime	
☒ Semi	☒ Semi	☒ Semi	
☒ Log	☒ Log	☒ Log	
EUR	5,921,661		
Cum	2,120,201		
Rem	3,801,460		
Rem%	64.2%		
Yrs	79.92		
Date	1/1/1997		
Act	0		
Qmo	14,289		
Q	461.8		
n	0		
De	4.199		
Qah	15		
GetQual	97PDP		

Major = GAS



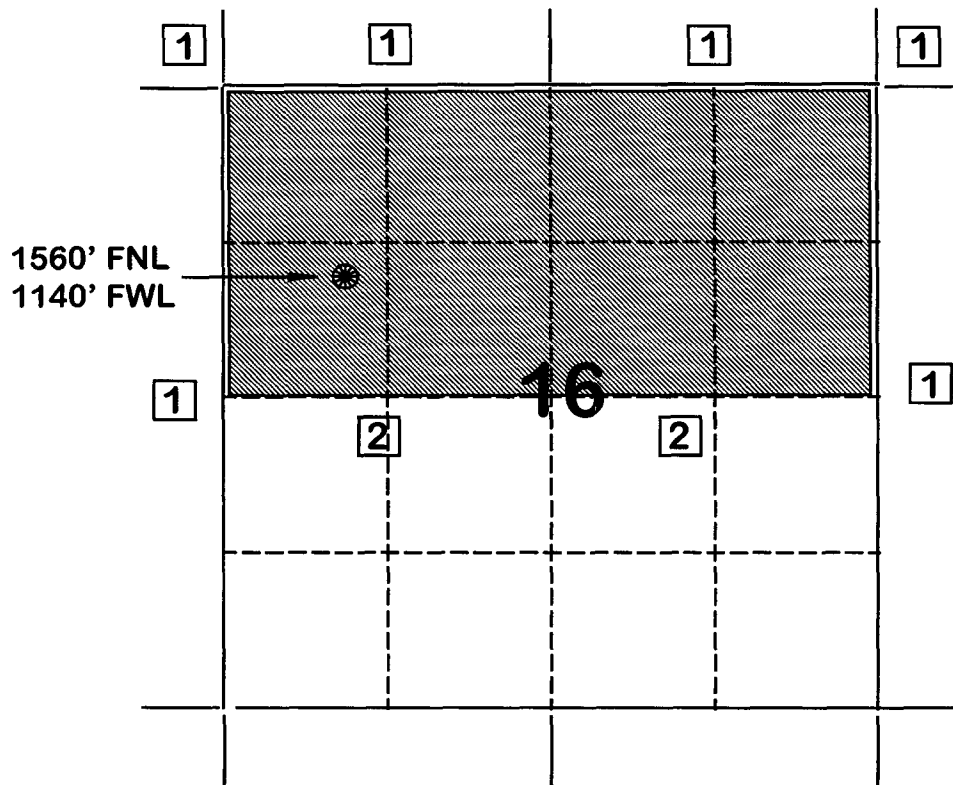
BURLINGTON RESOURCES OIL AND GAS COMPANY

Allen Com #1A

OFFSET OPERATOR \ OWNER PLAT

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

Township 31 North, Range 9 West



- 1) Burlington Resources Oil and Gas Company Successor to Meridian Oil Inc.
- 2) Four Star Oil & Gas Company
P.O. Box 46555
Denver, CO 80201

**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	0.17
%CO2	1.69
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6070
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	684
BOTTOMHOLE PRESSURE (PSIA)	795.5

ALLEN COM #1A MESAVERDE - (ORIGINAL)

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

VERSION 10.3/13/94

GAS GRAVITY	0.67
COND. OR MISC. (C/M)	C
%N2	0.17
%CO2	1.69
%H2S	0
DIAMETER (IN)	2.4
DEPTH (FT)	6070
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	150
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	352
BOTTOMHOLE PRESSURE (PSIA)	406.1

ALLEN COM #1A MESAVERDE - (CURRENT)

MU
 Organize Data ScreenGraph Economics Report Plot Utility Quit
 Browsing: ALLEN COM | 1A | 48579A-1 Property No.: 2392
 Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/11/103224
 Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi
01/14/80	0	684.0
03/18/80	0	685.0
07/07/80	60032	582.0
08/03/81	237946	560.0
06/28/82	362779	505.0
07/12/84	560500	507.0
04/04/86	780049	457.0
06/26/89	871855	423.0
02/18/91	1129903	355.0
10/08/91	1242235	367.0
08/16/93	1598840	352.0

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	0.65
COND. OR MISC. (C/M)	C
%N2	0.48
%CO2	4.26
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	3700
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	423
BOTTOMHOLE PRESSURE (PSIA)	462.1

ALLEN COM #1A PICTURED CLIFFS - (ANTICIPATED)
JOHNSTON FEDERAL #12 PICTURED CLIFFS - (CURRENT)

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

VERSION 10/3/13/94

GAS GRAVITY	0.65
COND. OR MISC. (C/M)	C
%N2	0.48
%CO2	4.26
%H2S	0
DIAMETER (IN)	2
DEPTH (FT)	3700
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	809
BOTTOMHOLE PRESSURE (PSIA)	888.9

ALLEN COM #1A PICTURED CLIFFS - (ANTICIPATED)
JOHNSTON FEDERAL #12 PICTURED CLIFFS - (ORIGINAL)

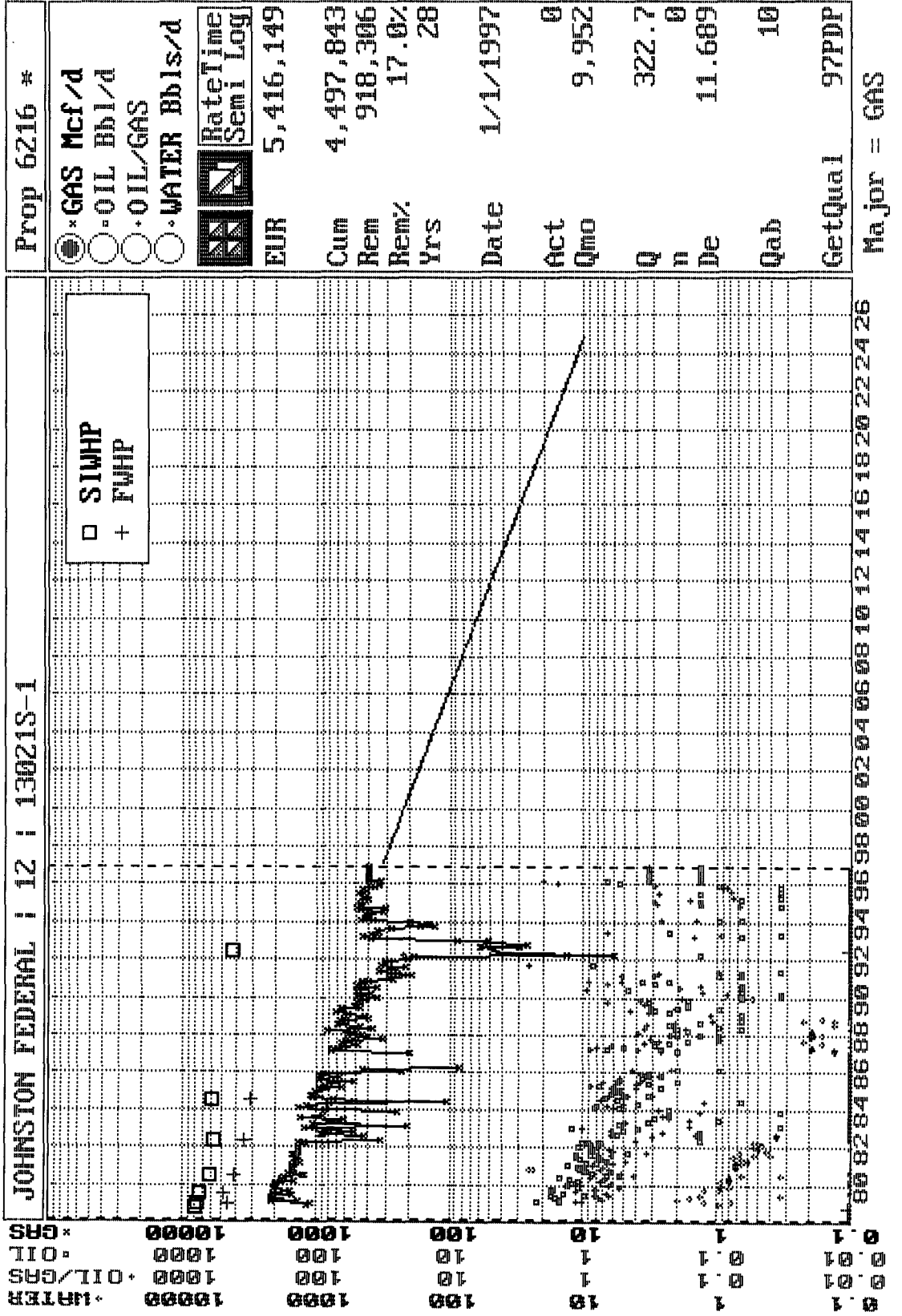
PC OFFSET

Organize Data ScreenGraph Economics Report Plot Utility Quit
Browsing: JOHNSTON FEDERAL | 12 | 13021S-1 Property No.: 6216
Table(T): TEST/M,P,H,E,T,Z,C,A,O,D,N,1,2,3,B,U,S Rec: 1/7/103224
Item: 2/3/33 Name: DATE Type: Date Len: 8/27/203

--DATE--	---CUM_GAS--	M	SIWHP
	Mcf		Psi
09/16/78	0		809.0
12/19/78	68704		784.0
06/21/79	416238		738.0
07/17/80	1120841		637.0
05/11/82	2035647		592.0
07/12/84	2566667		607.0
06/04/92	3962343		423.0

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

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



FARMINGTON

1997 MONTHLY PRODUCTION FOR 48579A

PHS030M1

ALLEN COM 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	C	
1	2 F	31	02	220	38.2	01	11559	31	1130	15.025				
2	2 F	28	02	29	40.6	01	11722	28	1130	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 #29

ALLEN COM #1A

SECTION 16, T31N, R09W

SAN JUAN CO., NEW MEXICO

