

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
811 South First St., Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410
DISTRICT IV
2040 S. Pacheco, Santa Fe, NM 87505

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

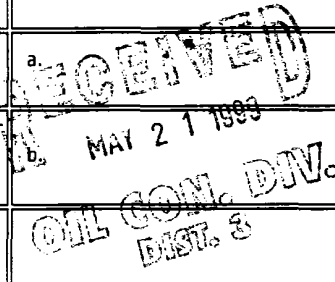
Form C-107-A
Revised March 17, 1999
APPROVAL PROCESS:
☒ Administrative ☐ Hearing
EXISTING WELLBORE
☒ YES ☐ NO

BURLINGTON RESOURCES OIL & GAS COMPANY PO Box 4289, Farmington, NM 87499
Operator Address

Summit 6E F, Sec 33, T29N, R11W San Juan
Lease Well No. Unit Ltr. - Sec - Twp - Rge County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7557 API NO. 30-045-2510400 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	Aztec Fruitland - 71200		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	1414' - 1428'		6120' - 6251'
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 Current Measured Current Estimated Or Measured Original	(Current) a. 295 psia @ 1421' (Original) b. 496 psi @ 1421'		a. 428 psia @ 6186' b. 1165 psia @ 6186'
6. Oil Gravity (EAP?) or Gas BTU Content	1292 BTU		1194 BTU
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In, give date 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: Rates:	Date: Rates:	Date: Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 03/31/99 Rates: 37 MCFD 0 BOD, 0 BWD	Date: Rates:	Date: 03/31/99 Rates: 102 MCFD, 1.2 BOD, 0 BWD
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: Gas: Will supply for commingling	Oil: % Gas: %	Oil: Gas: Will supply for commingling

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 Timothy J. Friesenhahn TITLE Operations Engineer DATE 05-12-99
TYPE OR PRINT NAME Timothy J. Friesenhahn TELEPHONE NO. (505) 326-9700

All distances must be from the outer boundaries of the Section

SUPRON ENERGY CORPORATION			SUMMIT		Well No. 6-E
Letter F	Section 33	Township 29 NORTH	Range 11 WEST	County SAN JUAN	

of Well Location of Well:

1840	feet from the	North	line and	1520	feet from the	West	line
rd Level Elev. 5545	Producing Formation Dakota Fruitland Extension		Pool Basin Aztec		Dedicated Acreage N/2 320.00 NW/4 160.00		

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

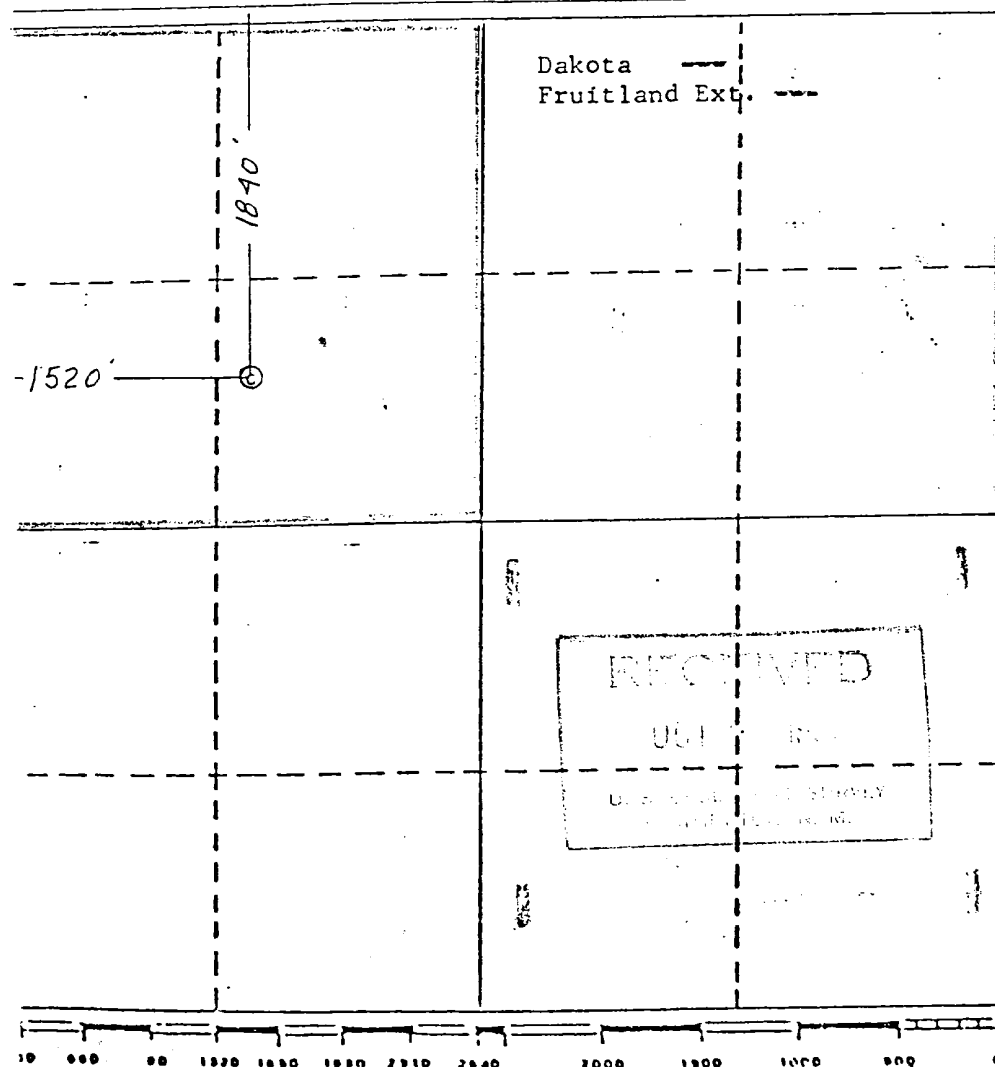
If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 Division.



CERTIFICATION

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

Name
Rudy D. Motto
Position
Area Superintendent
Company
Supron Energy Corporation
Date
October 19, 1981

I hereby certify that the well location shown on this plat was plotted from field notes of a local survey made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

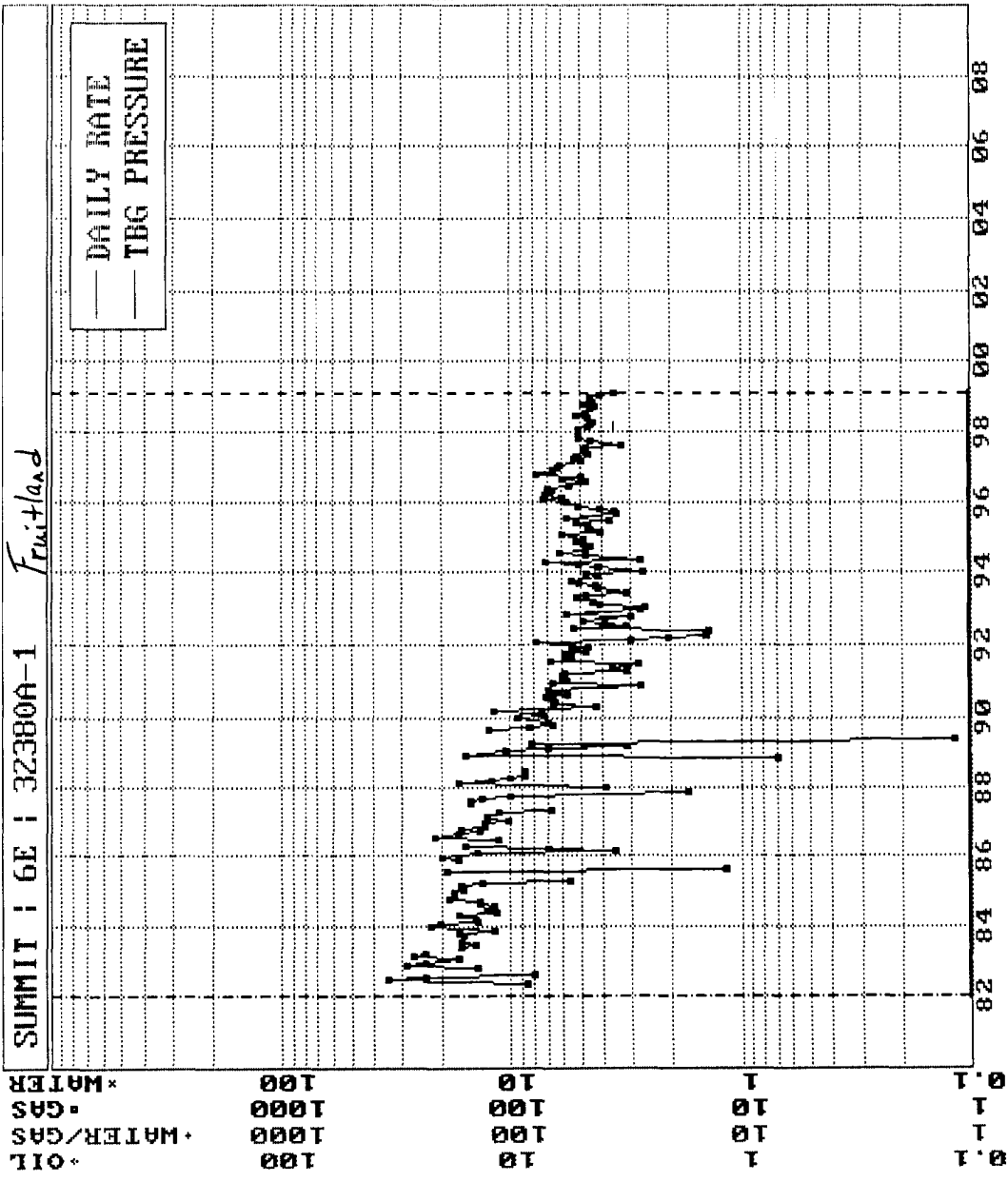
Date Surveyed
January 23, 1981
Registered Professional Engineer
and/or Land Surveyor

Certificate No.
5992

Prop 210 *

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

☒ RateTime
☒ Semi Log



Major = GAS

SUMMIT : 6E : 32380B-1

Dakota

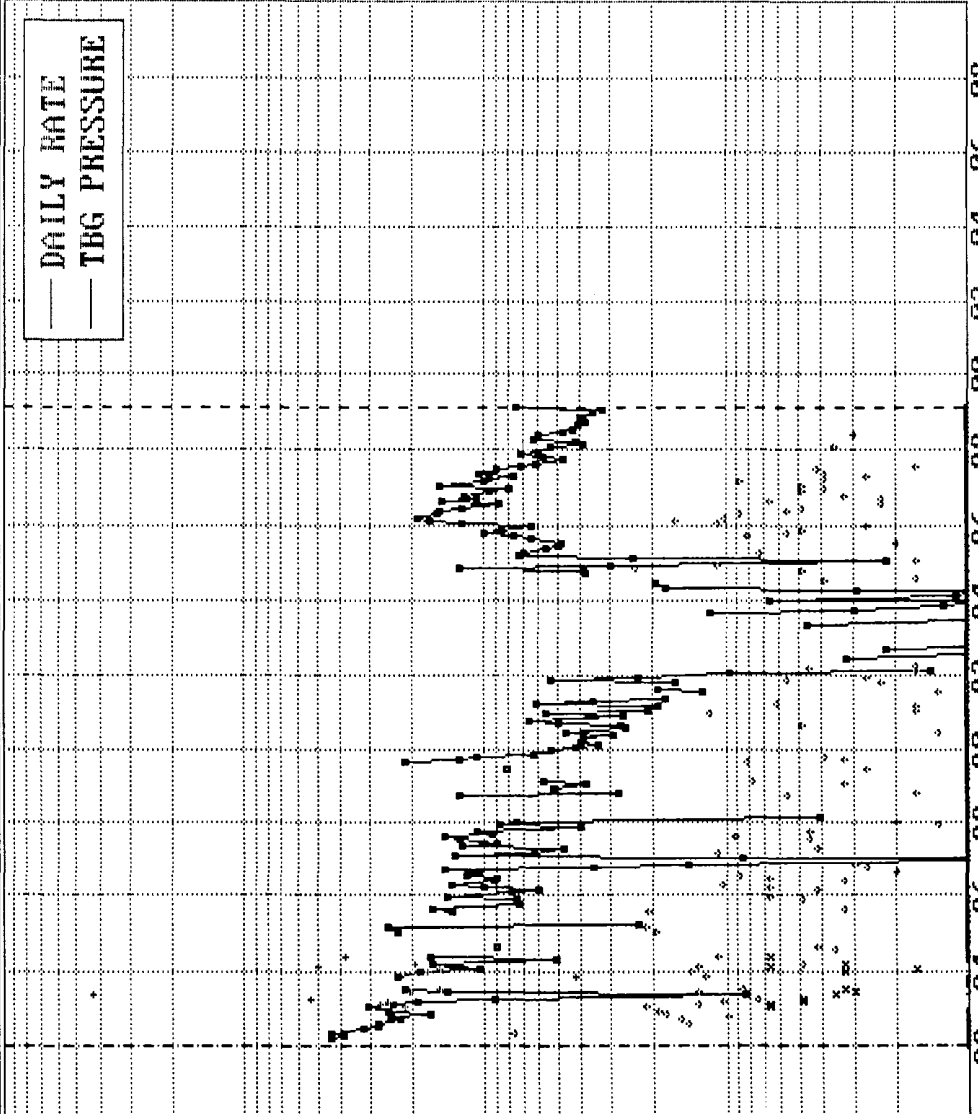
Prop 211 *

• OIL
• WATER/GAS
• GAS
• WATER

— DAILY RATE
— TBG PRESSURE

100
10
1
0.1
1000
10
1
0.1
0.1
1
0.1

- WATER Bbls/d
 - GAS Mcf/d
 - WATER/GAS
 - OIL Bbl/d
- RateTime
Semi Log



Major = GAS

Page No.: 2

Print Time: Thu Apr 29 10:43:16 1999

Property ID: 210

Property Name: SUMMIT | 6E | 32380A-1

Table Name: S:\JSMITH\ARIES\99WORK\TEST.DBF

--DATE--	---CUM GAS--	M SIWHP	<i>Fractured</i>
	Mcf	Psi	

11/26/81	0	476.0	<i>ORIGINAL</i>
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04/01/83	63649	305.0	
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05/30/84	122439	333.0	
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08/11/93	381626	322.0	
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3/31/99	480099	284	<i>Current Based on Gas Cum vs Pressure Curve</i>
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Property ID: 211

Property Name: SUMMIT | 6E | 32380B-1 *Dakota*

Table Name: S:\JSMITH\ARIES\99WORK\TEST.DBF

--DATE--	---CUM GAS--	M SIWHP
	Mcf	Psi

12/03/81	0	980.0
04/01/83	117958	621.0
05/30/84	161053	634.0
08/14/85	188452	657.0
09/28/88	266004	596.0
06/02/92	314734	549.0
3/31/99	448078	367

*Original**Current**Based on Gas Cum vs Pressure Curve*

Fruitland**FR-Current**

GAS GRAVITY	0.73
COND. OR MISC. (C/M)	M
%N2	1.06
%CO2	0.38
%H2S	0
DIAMETER (IN)	4.052
DEPTH (FT)	1421
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	78
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	284
BOTTOMHOLE PRESSURE (PSIA)	295.4

Dakota**DK-Current**

GAS GRAVITY	0.695
COND. OR MISC. (C/M)	M
%N2	0.31
%CO2	1.34
%H2S	0
DIAMETER (IN)	4.052
DEPTH (FT)	6186
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	139
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	367
BOTTOMHOLE PRESSURE (PSIA)	428.3

FR-Original

GAS GRAVITY	0.73
COND. OR MISC. (C/M)	M
%N2	1.06
%CO2	0.38
%H2S	0
DIAMETER (IN)	8.625
DEPTH (FT)	1421
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	78
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	476
BOTTOMHOLE PRESSURE (PSIA)	496.0

DK-Original

GAS GRAVITY	0.695
COND. OR MISC. (C/M)	M
%N2	0.31
%CO2	1.34
%H2S	0
DIAMETER (IN)	4.052
DEPTH (FT)	6186
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	139
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	980
BOTTOMHOLE PRESSURE (PSIA)	1165.0

SUMMIT 6E

AZTEC FRUITLAND (GAS) FIELD

FRUITLAND 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
1992			13568	368085		
1993			15957	384042		
1994			17298	401340		
1995			17007	418347		
1996			23128	441475		
1997			17993	459468		
1998			14277	473745		

3/31/99

6354
480099

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

SUMMIT 6E

AZTEC FRUITLAND (GAS) FIELD

FRUITLAND ZONE

DAYS =====			OIL =====		=====		GAS =====							
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F					01	1565	31	1119	15.025			
2	2	F					01	1411	28	1106	15.025			
3	2	F					01	1388	31	1106	15.025			
4	2	F					01	1349	24	1106	15.025			
5	2	F					01	1411	31	1106	15.025			
6	2	F					01	1573	30	1106	15.025			
7	2	F					01	1427	31	1269	15.025			
8	2	F					01	1388	31	1269	15.025			
9	2	F					01	1297	30	1269	15.025			
10	2	F					01	1468	31	1269	15.025			
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 12/05/98

SUMMIT 6E

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

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

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

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

PC DATE

BBLs

PC DATE

MCF

DATE

BBLs

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=====
YEAR      OIL      OIL CUM      GAS      GAS CUM      WATER      WATER CUM
1992      24      1659      567      314863      168
1993      24      1659      680      315543      168
1994      139     1798      8614     324157      168
1995      106     1904     21708     345865      168
1996      244     2148     47746     393611      168
1997      102     2250     30170     423781      168
1998      20      2270     15491     439272      168

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3/31

~~8806~~
448078-

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

SUMMIT 6E

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA ZONE

DAYS =====					OIL =====		=====		GAS =====					
MO	T	S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER	PROD	C
1	2	F	30	02	11	54.8	01	1615	30	1176	15.025			
2	2	F	28	02			01	1191	28	1173	15.025			
3	2	F	31	02			01	1294	31	1173	15.025			
4	2	F	26	02			01	1914	26	1173	15.025			
5	2	F	31	02	9		01	1836	31	1173	15.025			
6	2	F	30	02			01	1454	30	1173	15.025			
7	2	F	31	02			01	1322	31	1173	15.025			
8	2	F	31	02			01	1258	31	1173	15.025			
9	2	F	30	02			01	1179	30	1173	15.025			
10	2	F	31	02			01	1205	31	1173	15.025			
11	2	F					01	1223		1173	15.025			
12														

PF6 - RETURNS TO ANNUAL DISPLAY

PF3 - TRANSFER TO UPDATE

PF10 - HELP INFORMATION

PF9 - DISPLAY MONTHLY INJECTION

C0/00/00 00:00:00:0

PRS 01/06/99

Cumulative Monthly Well Report

November 1998 -- April 1999

Select By : Completions
Sort By :

Page No : 1
Report Number : R_290
Last Update :
Print Date : 04/29/1999, 10:08:10

Completion		Date	Cur Oil	Cum Oil	Cur Gas	Cum Gas	Cur Wat	Cum Wat
SUMMIT	6E	11/30/1998	0.00	0.00	1,223.98	1,223.98	0.00	0.00
		12/31/1998	0.00	0.00	1,117.23	2,341.21	0.00	0.00
		01/31/1999	0.00	0.00	1,022.14	3,363.35	0.00	0.00
		02/28/1999	20.05	20.05	2,268.13	5,631.48	0.00	0.00
		03/31/1999	36.76	56.81	3,175.02	8,806.50	0.00	0.00
		04/30/1999	0.00	56.81	0.00	8,806.50	0.00	0.00
		11/30/1998	0.00	132.23	1,382.98	1,382.98	0.00	0.00
		12/31/1998	0.00	132.23	1,409.38	2,792.36	0.00	0.00
		01/31/1999	0.00	132.23	1,278.99	4,071.35	0.00	0.00
		02/28/1999	0.00	132.23	1,120.12	5,191.47	0.00	0.00
		03/31/1999	0.00	132.23	1,162.33	6,353.80	0.00	0.00
		04/30/1999	0.00	132.23	0.00	6,353.80	0.00	0.00

OK

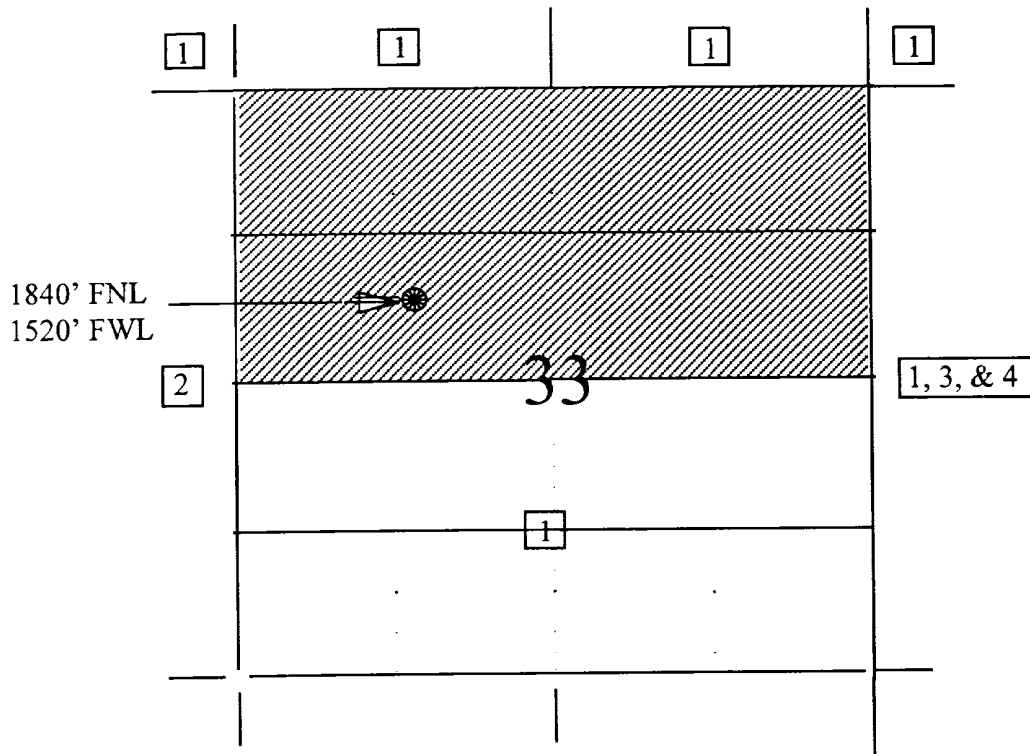
ERT

BURLINGTON RESOURCES OIL AND GAS COMPANY

Summit #6E OFFSET OPERATOR \ OWNER PLAT Downhole Commingle

Fruitland / Dakota Formations Well

Township 29 North, Range 11 West



1) Burlington Resources

2) David H. Arrington
PO Box 2071
Midland, TX 79702

3) Beartooth Oil & Gas Company
PO Box 2564
Billings, MT 59103

4) Energen Resources MAQ, Inc.
Attn: Rich Corcoran
2198 Bloomfield Highway
Farmington, NM 87401

Summit #6E
Sec. 33, T29N R11W
San Juan County, New Mexico

Production Allocation Based On Cumulative Production Through 02/99

	Cumulative Production		% Allocation	
	MCF	Bbl Oil	% Gas	% Oil
Fruitland	478,798	0	51.84%	0.00%
Dakota	444,774	2,270	48.16%	100.00%
Total	923,572	2,270	100.00%	100.00%

Gas Allocation:

Fruitland (Total Fruitland Production) 478,798 MCF

(Total Combined Production) 923,572 MCF = **51.84%**

Dakota (Total Dakota Production) 444774 MCF

(Total Combined Production) 923572 MCF = **48.16%**

Oil Allocation:

Fruitland (Total Fruitland Production) 0 Bbl Oil

(Total Combined Production) 2,270 Bbl Oil = **0.00%**

Dakota (Total Dakota Production) 2,270 Bbl Oil

(Total Combined Production) 2,270 Bbl Oil = **100.00%**