

DATE IN 5/24/99	SUSPENSE 6/14/99	ENGINEER DC	LOGGED BY W	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
2040 South Pacheco, Santa Fe, NM 87505



2359

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATION FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

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

MAY 24 1999

Check One Only for [B] or [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 - Certification

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, I ORRI) is common. I understand that any omission of data (including API numbers, pool codes, etc.), pertinent information and any required notification is cause to have the application package returned with no action taken

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Print or Type Name

Signature

Title

Date

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

Operator

PO Box 4289, Farmington, NM 87499

Address

Summit

Lease

6E

Well No.

F, Sec 33, T29N, R11W

Unit Ltr. - Sec - Twp - Rge

San Juan

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 SAND GAS		Basin Dakota - 71599 PROPOSED GAS
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: Estimated Current All Gas Zones: Measured Current Estimated Or Measured Original	(Current) a. 295 psia @ 1421'	a.	a. 428 psia @ 6186'
	(Original) b. 496 psi @ 1421'	b.	b. 1165 psia @ 6186'
6. Oil Gravity (EAPI) 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 22% 0	Date: Rates:	Date: 03/31/99 Rates: 102 MCFD, 1.2 BOD, 0 BWD 73% 100%
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 ☐ No11. 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 ☐ No13. 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 05-12-99TYPE OR PRINT NAME Timothy J. Friesenhahn TELEPHONE NO. (505) 326-9700

All distances must be from the outer boundaries of the Section

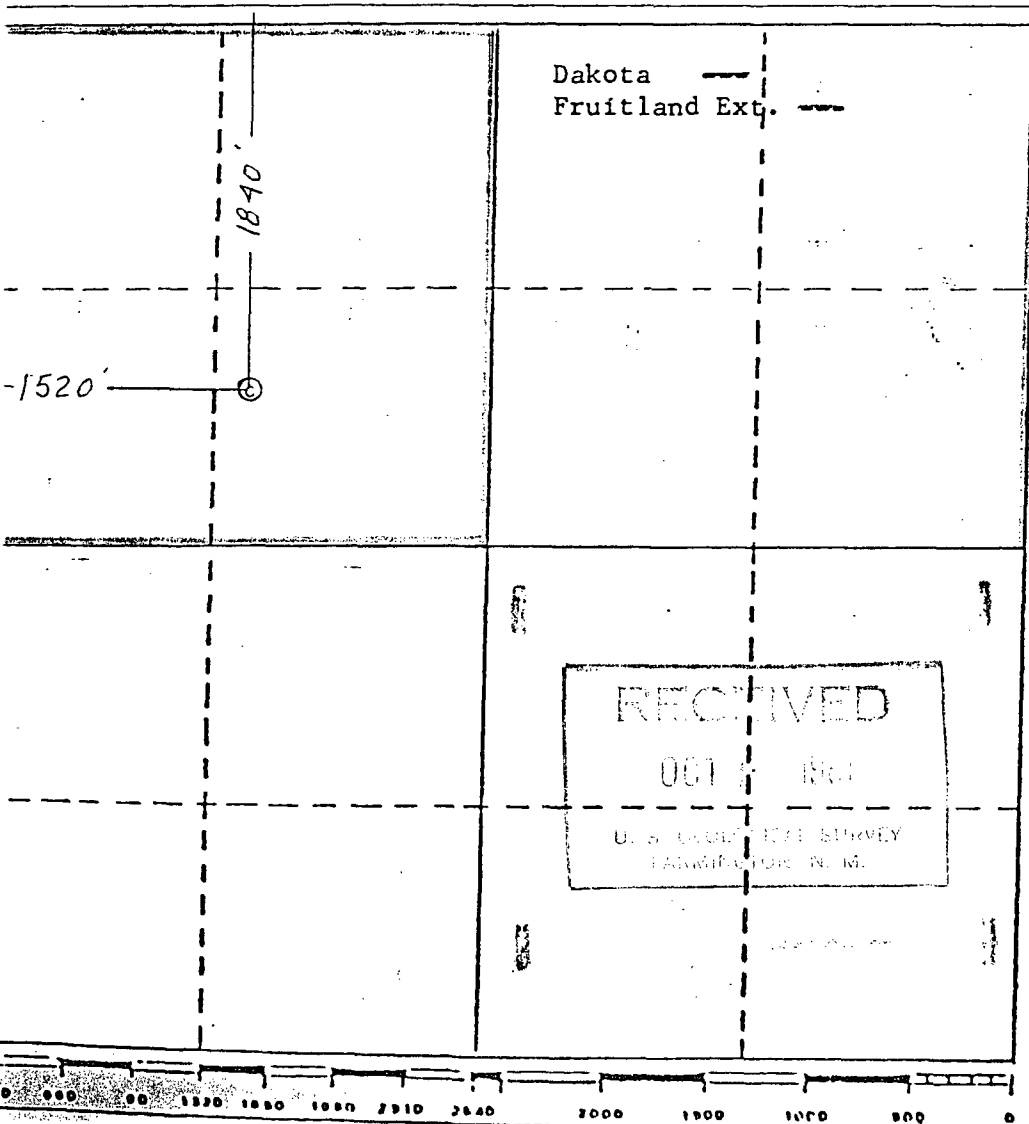
SUPRON ENERGY CORPORATION			SUMMIT		Well No. 6-E
Letter F	Section 33	Township 29 NORTH	Range 11 WEST	County SAN JUAN	

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

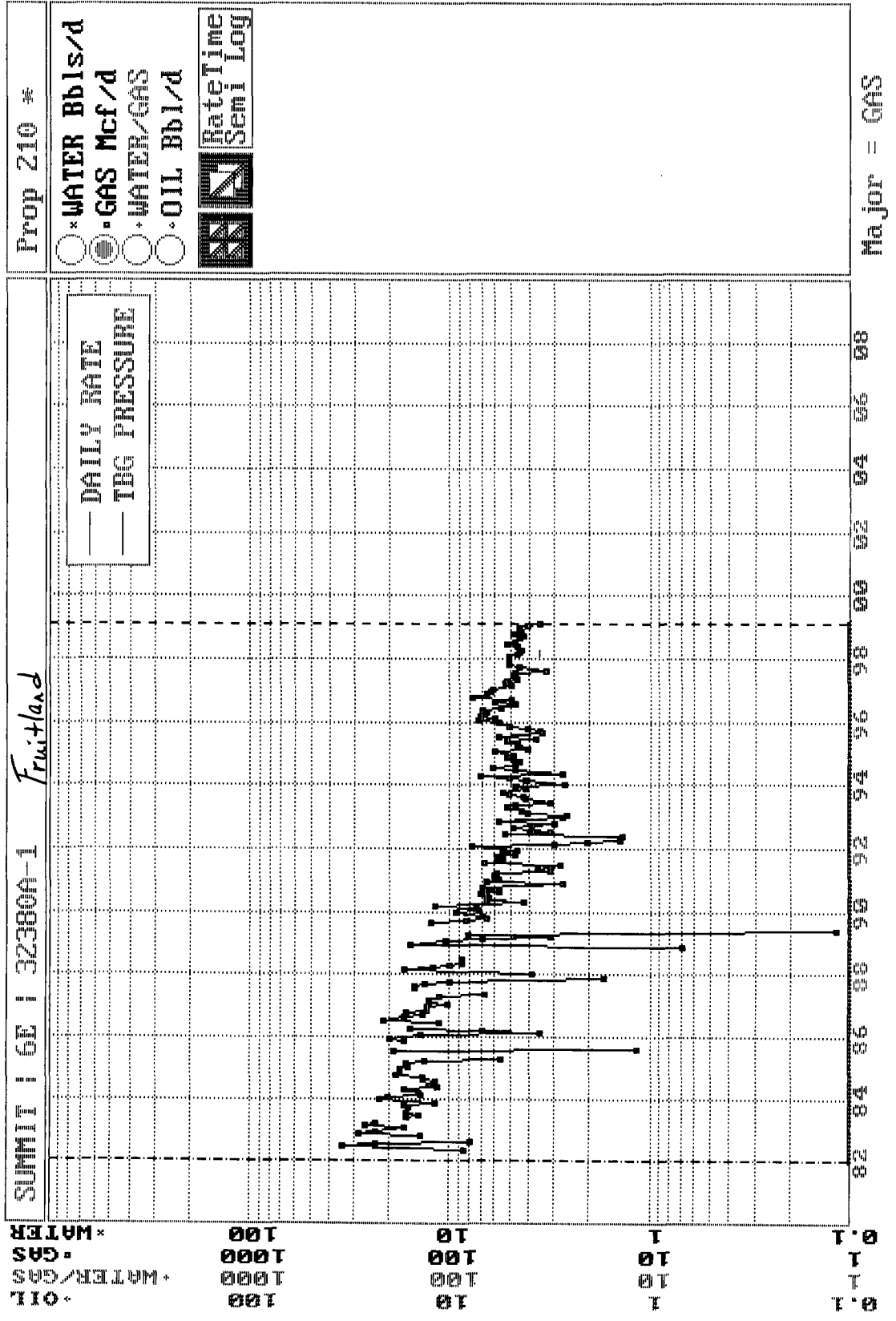
- Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated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

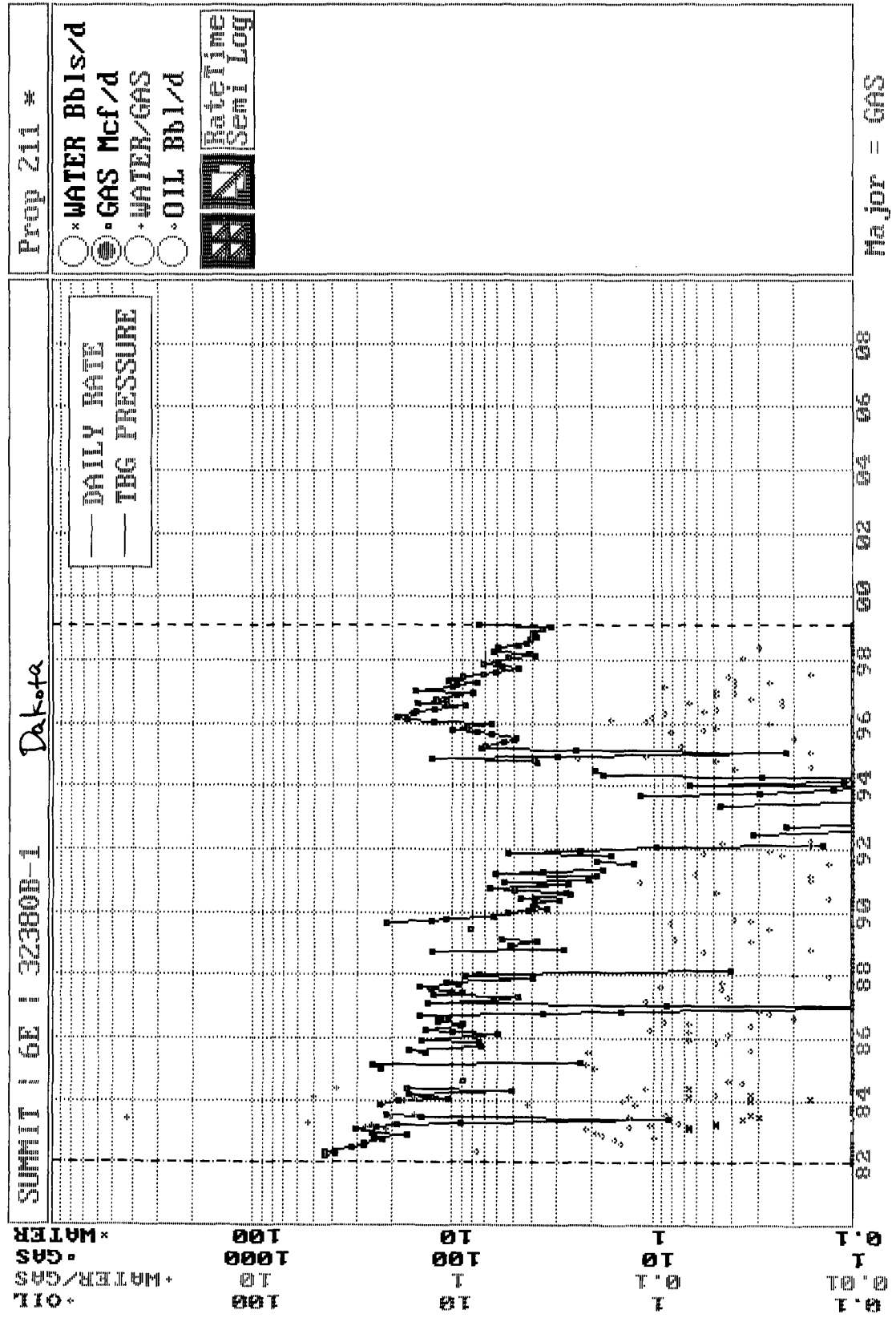
If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) _____

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 pool survey made by me or under my direct supervision and that the same is true, correct and the best of my knowledge and belief.	
Date Surveyed	January 23, 1981
Registered Professional Engineer and/or Land Surveyor	
Certificate No.	5992





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

<u>--DATE--</u>	<u>---CUM GAS--</u> Mcf	<u>M SIWHP</u> Psi	<u>FRUITLAND</u>
11/26/81	0	476.0	ORIGINAL
04/01/83	63649	305.0	
05/30/84	122439	333.0	
08/11/93	381626	322.0	
3/31/99	480099	284	CURRENT BASED ON GAS CUM VS PRESSURE CURVE

Page No.: 3

Print Time: Thu Apr 29 10:43:17 1999

Property ID: 211

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

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

<u>--DATE--</u>	<u>---CUM GAS--</u>	<u>M SIWHP</u>
	<u>Mcf</u>	<u>Psi</u>

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	347

Original

Current

Based on Gas Cum vs Pressure Curve

Summit #6E
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Fruitland		Dakota	
<u>FR-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.73	GAS GRAVITY	0.695
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	1.06	%N2	0.31
%CO2	0.38	%CO2	1.34
%H2S	0	%H2S	0
DIAMETER (IN)	4.052	DIAMETER (IN)	4.052
DEPTH (FT)	1421	DEPTH (FT)	6186
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	78	BOTTOMHOLE TEMPERATURE (DEG F)	139
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	284	SURFACE PRESSURE (PSIA)	367
BOTTOMHOLE PRESSURE (PSIA)	295.4	BOTTOMHOLE PRESSURE (PSIA)	428.3
<u>FR-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.73	GAS GRAVITY	0.695
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	1.06	%N2	0.31
%CO2	0.38	%CO2	1.34
%H2S	0	%H2S	0
DIAMETER (IN)	8.625	DIAMETER (IN)	4.052
DEPTH (FT)	1421	DEPTH (FT)	6186
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	78	BOTTOMHOLE TEMPERATURE (DEG F)	139
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	476	SURFACE PRESSURE (PSIA)	980
BOTTOMHOLE PRESSURE (PSIA)	496.0	BOTTOMHOLE PRESSURE (PSIA)	1165.0

FARMINGTON

ANNUAL PRODUCTION FOR 32380A

PHS020M1

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

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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

FARMINGTON

1998 MONTHLY PRODUCTION FOR 32380A

PHS030M1

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

FARMINGTON

ANNUAL PRODUCTION FOR 32380B

PHS020M1

SUMMIT 6E

BASIN DAKOTA (PRORATED GAS) FIELD

DAKOTA 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      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
                               3/31     8806
                               448078

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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

FARMINGTON

1998 MONTHLY PRODUCTION FOR 32380B

PHS030M1

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

00/00/00 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

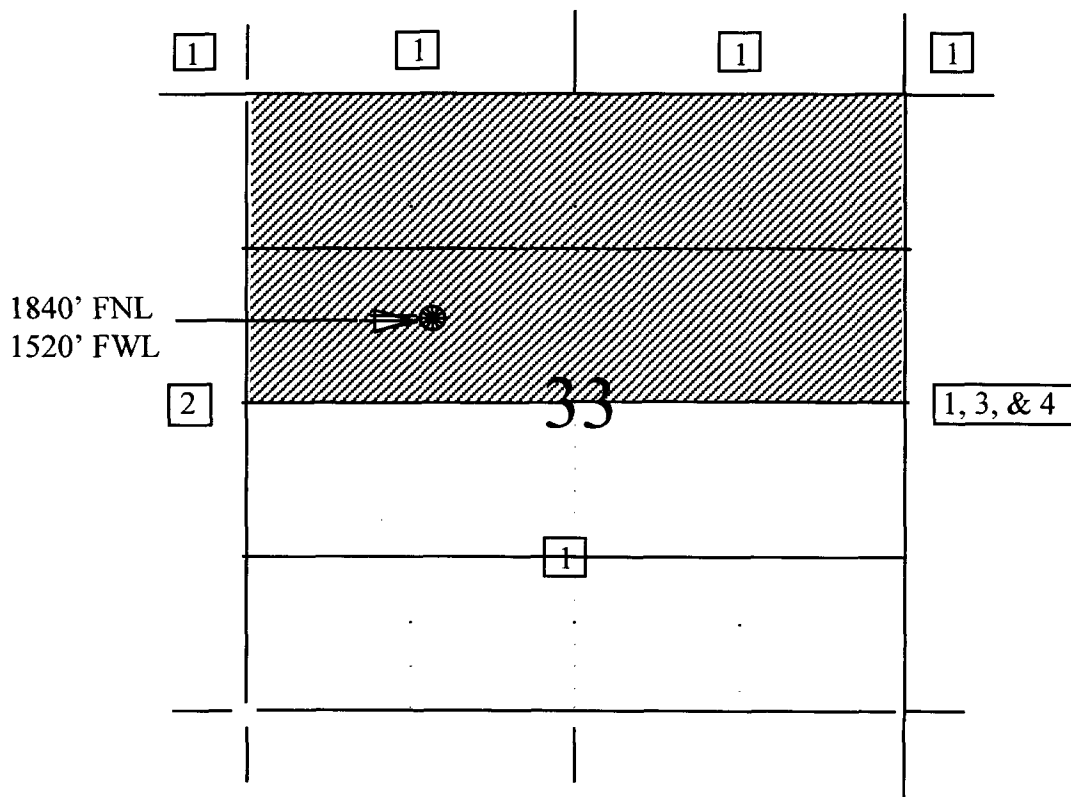
ERT

BURLINGTON RESOURCES OIL AND GAS COMPANY

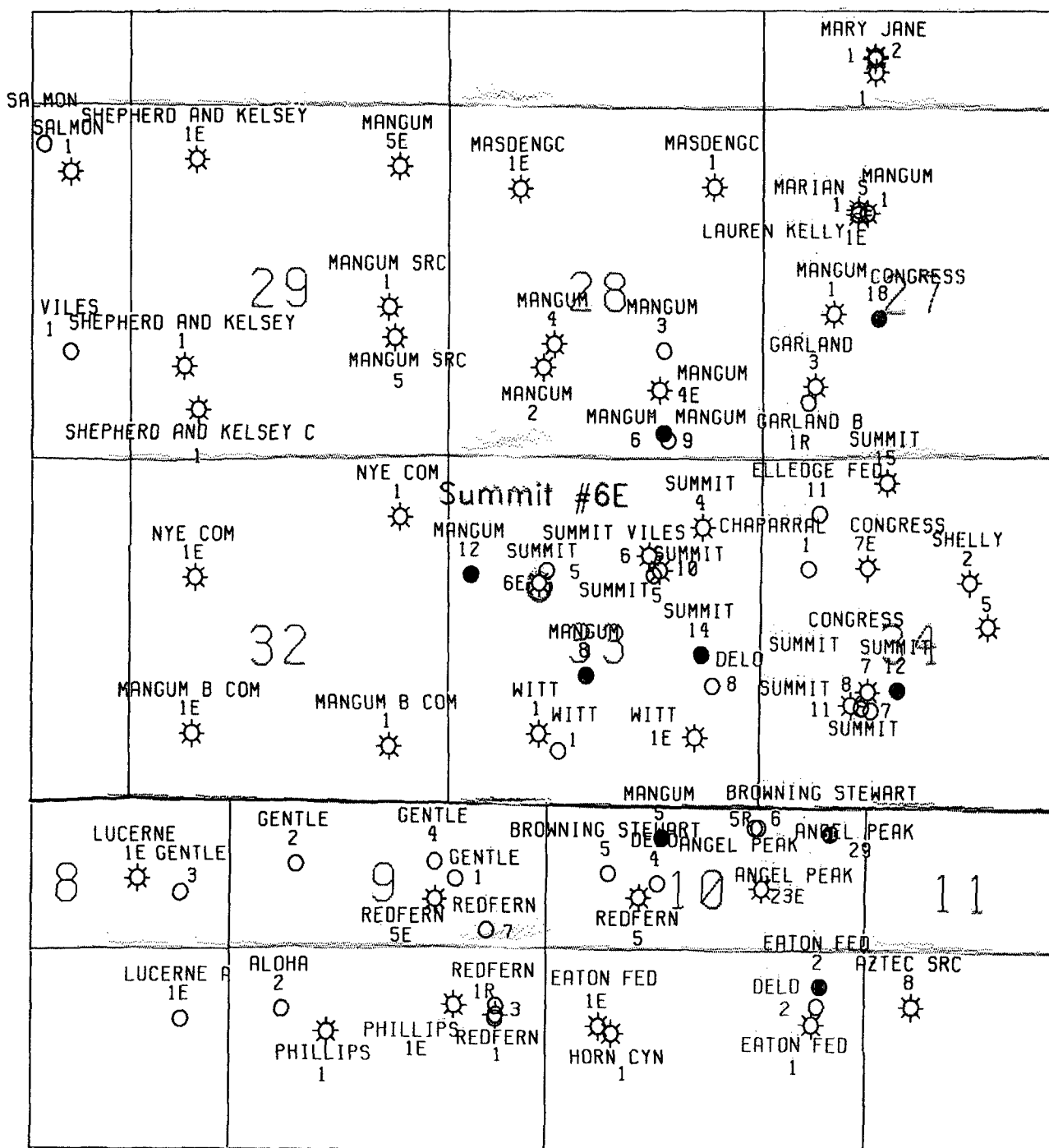
Summit #6E OFFSET OPERATOR \ OWNER PLAT Downhole Commingle

Fruitland / Dakota Formations Well

Township 29 North, Range 11 West



- | | |
|---|--|
| 1) Burlington Resources | 3) Beartooth Oil & Gas Company
PO Box 2564
Billings, MT 59103 |
| 2) David H. Arrington
PO Box 2071
Midland, TX 79702 | 4) Energen Resources MAQ, Inc.
Attn: Rich Corcoran
2198 Bloomfield Highway
Farmington, NM 87401 |



Summit #6E
 Sec 33 R29N T11W
 Fruitland/Dakota