

DATE IN 7/14/99	SUSPENSE 8/3/99	ENGINEER DC	LOGGED BY W	TYPE DHC
-----------------	-----------------	-------------	-------------	----------

ABOVE THIS LINE FOR DIVISION USE ONLY

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



2415

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

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, RI, 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 PO Box 4289, Farmington, NM 87499
Operator Address

Jicarilla 150 6M D, Sec 2, T26N, R5W Rio Arriba
Lease Well No. Unit Ltr. - Sec - Twp - Rge County

Spacing Unit Lease Types: (check 1 or more)
OGRID NO. 14538 Property Code 16344 API NO. 30-039-2205700 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 Mesa Verde - 72319		Basin Dakota - 71599
2. Top and Bottom of Pay Section (Perforations)	4968' - 5689'		7560' - 7743'
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. 511 psia @ 5328'	a.	a. 445 psia @ 7652'
	(Original) b. 1037 psia @ 5328'	b.	b. 2110 psia @ 7652'
6. Oil Gravity (EAPI) or Gas BTU Content	1163 BTU		1148 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:	Date:	Date:
	Rates:	Rates:	Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 05/31/99 Rates: 33 MCFD 0.2 BOD, 0 BWD	Date: Rates:	Date: 05/31/99 Rates: 130 MCFD, 0.8 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 07-06-99

TYPE OR PRINT NAME Timothy J. Friesenhahn TELEPHONE NO. (505) 326-9700

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-
Effective 1-1-6

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

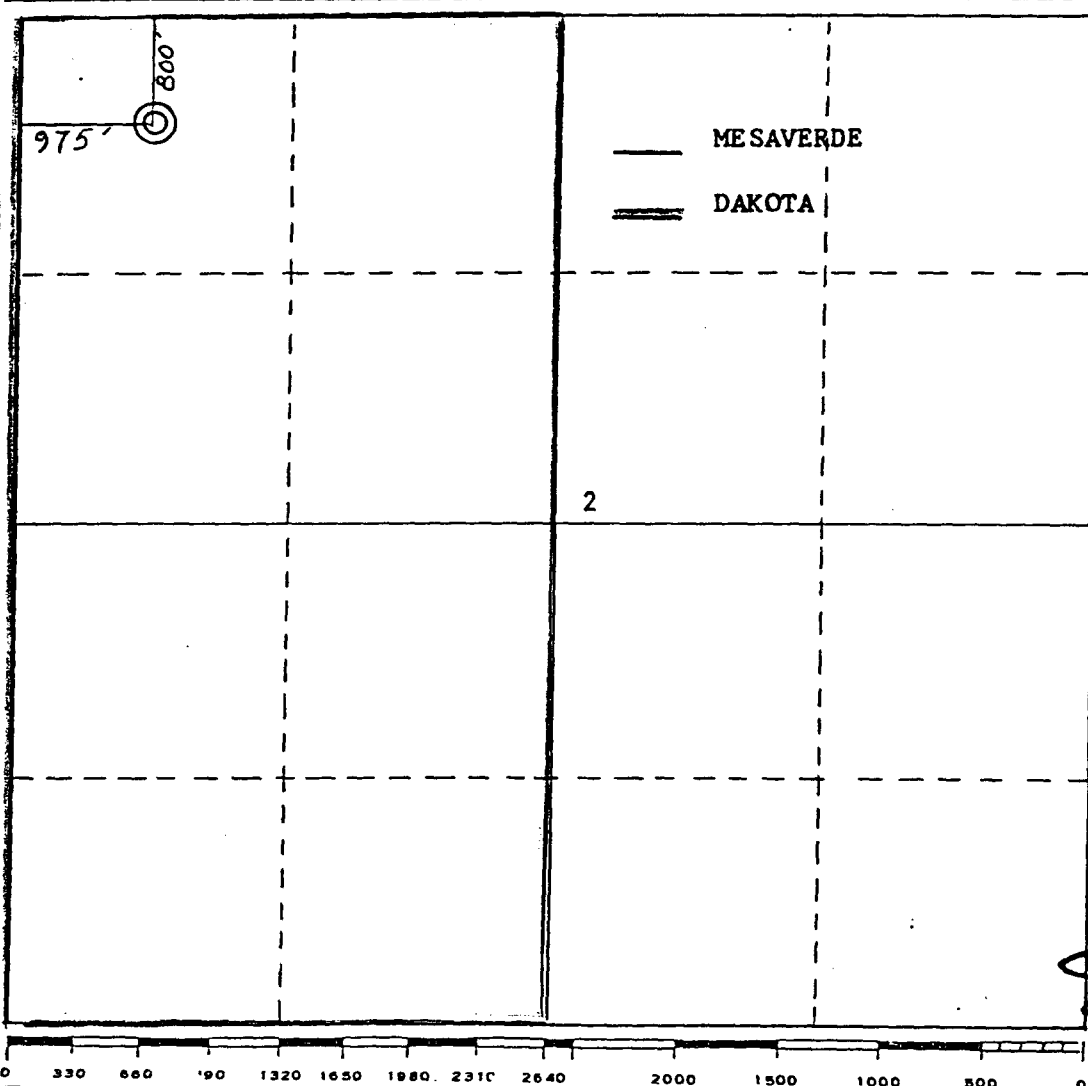
Operator SUPRON ENERGY CORPORATION			Lease JICARILLA #150		Well No. 6-AM
Unit Letter D	Section 2	Township 26 North	Range 5 West	County RIO ARRIBA	
Actual Footage Location of Well:					
800 feet from the		NORTH line and		975 feet from the WEST line	
Ground Level Elev. 6621	Producing Formation ME SAVERDE DAKOTA		Pool BLANCO BASIN	Dedicated Acreage: W 1/2 319.81 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 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.

Kenneth E. Roddy
Name

Kenneth E. Roddy
Position

Production Superintendent
Company

SUPRON ENERGY CORPORATION
Date

May 21, 1979

I hereby certify that the well location shown on this plat was plotted from first order of actual surveys made by me under my supervision, and that the same is true and correct to the best of my knowledge and belief.
JAMES P. LEESE
REGISTERED PROFESSIONAL ENGINEER & LAND SURVEYOR
STATE OF NEW MEXICO

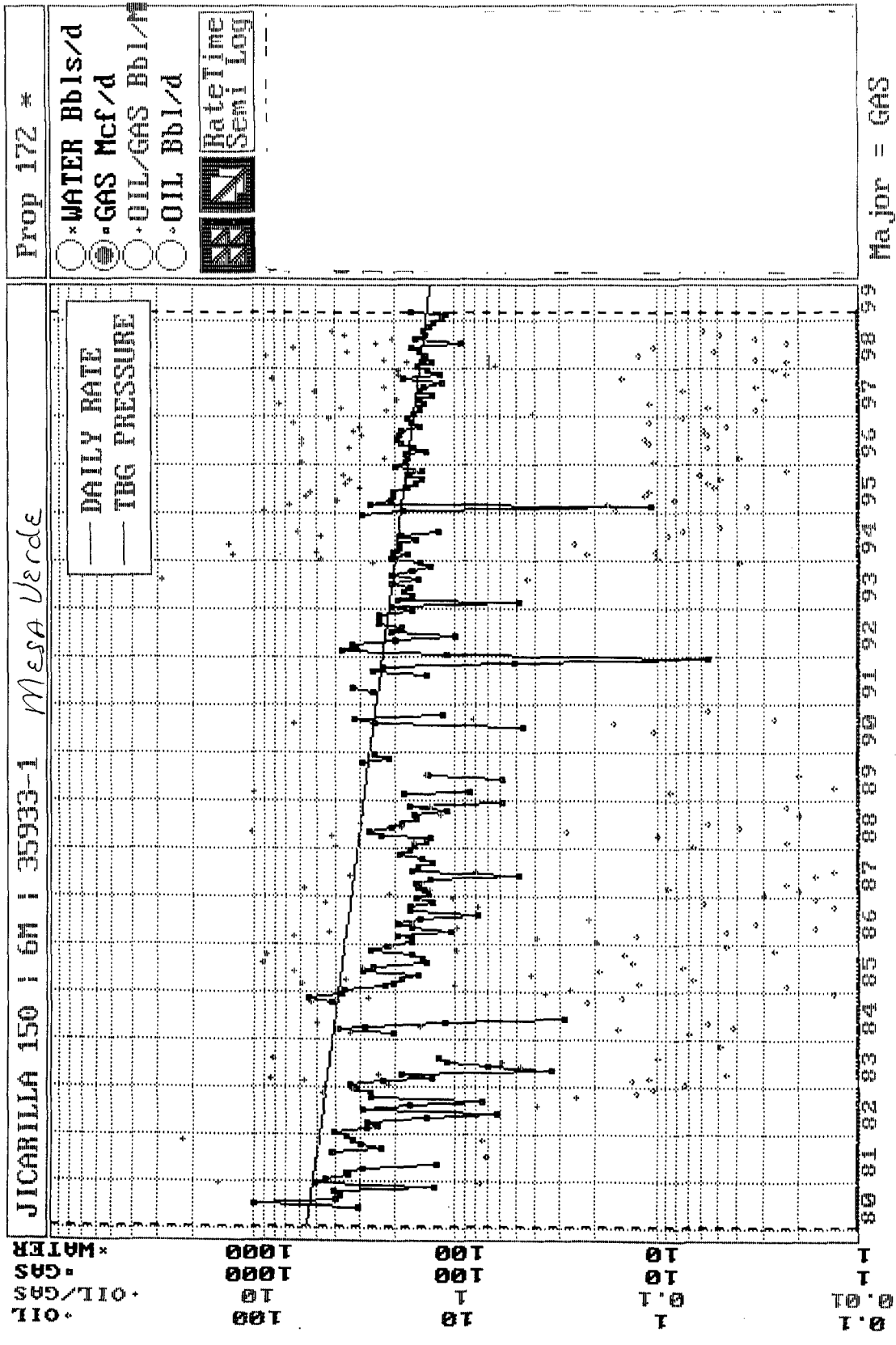
Date Surveyed

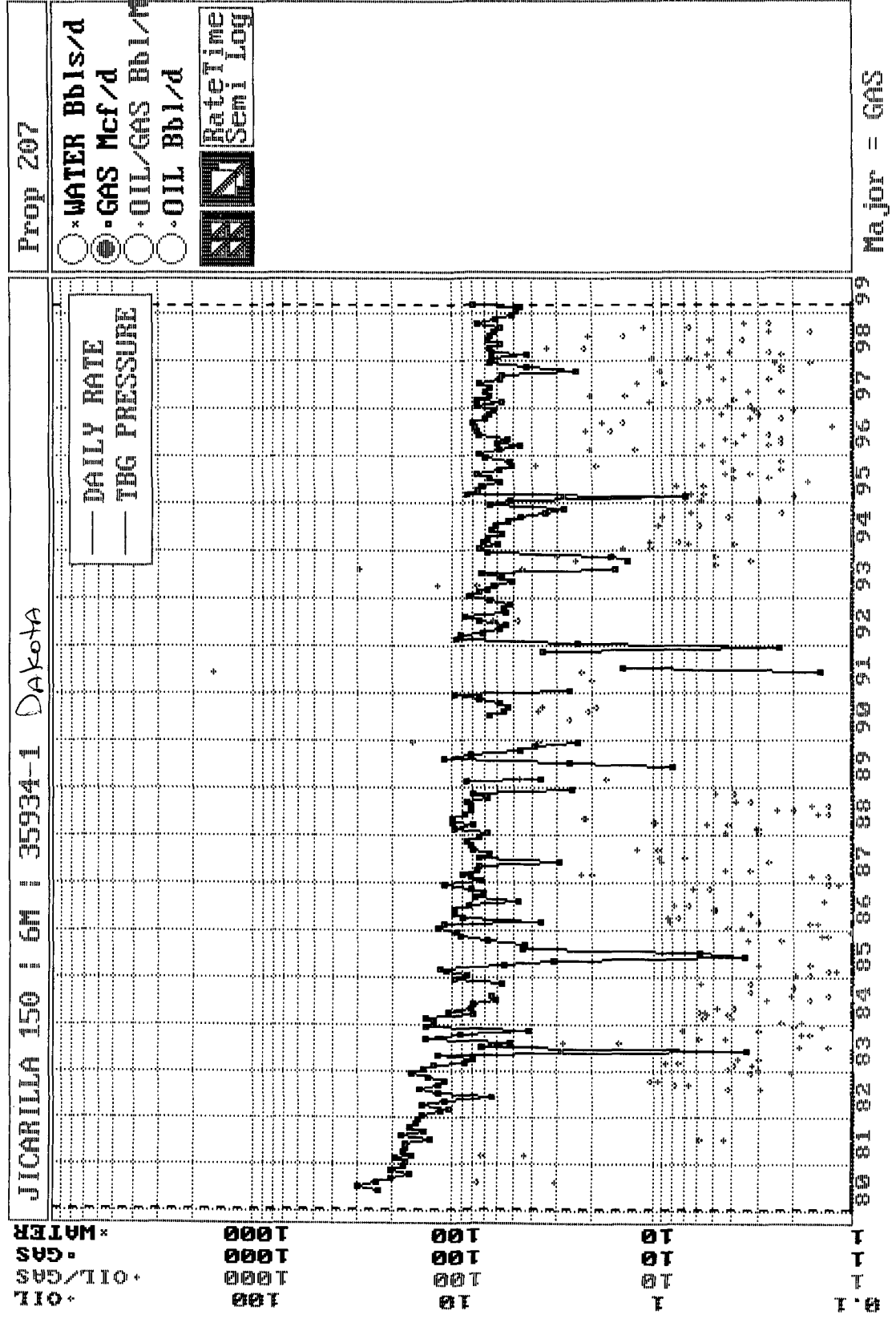
6 April 1979

Registered Professional Engineer and/or Land Surveyor
James P. Leese

Certificate No.

1463





Page No.: 1

Print Time: Tue May 25 14:24:47 1999

Property ID: 172

Property Name: JICARILLA 150 | 6M | 35933-1 71/esa Verde

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>

04/14/80	0	891.0	<i>Initial</i>
----------	---	-------	----------------

08/01/80	52305	751.0	
----------	-------	-------	--

09/17/81	163503	616.0	
----------	--------	-------	--

05/02/82	234730	532.0	
----------	--------	-------	--

05/02/84	346348	551.0	
----------	--------	-------	--

04/02/86	487296	512.0	
----------	--------	-------	--

11/01/89	668362	614.0	
----------	--------	-------	--

05/03/93	815749	624.0	<i>Current</i>
----------	--------	-------	----------------

3/31/99	1,177,690	445	<i>Based on Cum Gas vs Pressure Curve</i>
---------	-----------	-----	---

Page No.: 1

Print Time: Thu Jun 10 14:31:28 1999

Property ID: 1034

Property Name: JICARILLA 150 | 5M | 35916-1 DAKOTA

Table Name: K:\ARIES\RR99PDP\TEST.DBF

Offset well for the Jicarella 150 6m

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

09/24/82	0	853.0
04/03/83	41216	1713.0
05/02/84	168066	1047.0
05/29/85	234694	1000.0
01/13/88	405075	889.0
11/02/90	508076	830.0
04/29/92	563174	850.0

← Original

3/99 854812 313 Current BASED on CumGas vs Pressure Curve

Jicarilla 150 #6M
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.708	GAS GRAVITY	0.658
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.38	%N2	0.26
%CO2	1.04	%CO2	1.07
%H2S	0	%H2S	0
DIAMETER (IN)	6.969	DIAMETER (IN)	4.95
DEPTH (FT)	5328	DEPTH (FT)	7652
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	131	BOTTOMHOLE TEMPERATURE (DEG F)	162
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	445	SURFACE PRESSURE (PSIA)	373
BOTTOMHOLE PRESSURE (PSIA)	511.4	BOTTOMHOLE PRESSURE (PSIA)	444.7
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.708	GAS GRAVITY	0.658
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.38	%N2	0.26
%CO2	1.04	%CO2	1.07
%H2S	0	%H2S	0
DIAMETER (IN)	6.969	DIAMETER (IN)	4.95
DEPTH (FT)	5328	DEPTH (FT)	7652
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	131	BOTTOMHOLE TEMPERATURE (DEG F)	162
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	891	SURFACE PRESSURE (PSIA)	1713
BOTTOMHOLE PRESSURE (PSIA)	1037.4	BOTTOMHOLE PRESSURE (PSIA)	2110.2

Cumulative Monthly Well Report

December 1998 -- June 1999

Select By : Completions
Sort By :

Page No : 1
Report Number : R_290
Last Update :
Print Date : 06/23/1999, 1:48:39

Completion		Date	Cur Oil	Cum Oil	Cur Gas	Cum Gas	Cur Wat	Cum Wat
JICARILLA 150	6M	12/31/1998	10.02	13.36	1,528.39	5,583.20	1.68	3.35
		01/31/1999	8.35	21.71	1,451.92	7,035.12	1.68	5.03
		02/28/1999	2.51	24.22	1,394.08	8,429.20	0.00	5.03
		03/31/1999	10.80	35.02	2,378.37	10,807.57	20.12	25.15
		04/30/1999	16.70	51.72	2,141.12	12,948.69	5.02	30.17
		05/31/1999	5.01	56.73	1,023.50	13,972.19	1.67	31.84
	MV	06/30/1999	0.00	56.73	0.00	13,972.19	0.00	31.84
		12/31/1998	8.36	48.56	3,853.82	5,709.66	0.00	5.03
		01/31/1999	4.18	52.74	3,499.91	9,209.57	0.84	5.87
		02/28/1999	0.00	52.74	3,322.46	12,532.03	0.00	5.87
		03/31/1999	53.50	106.23	4,958.69	17,490.72	0.00	5.87
		04/30/1999	13.38	119.61	3,974.40	21,465.12	1.68	7.55
		05/31/1999	25.93	145.54	4,032.25	25,497.37	0.00	7.55
		06/30/1999	0.00	145.54	0.00	25,497.37	0.00	7.55

Cumulative Monthly Well Report

May 1998 -- May 1999

Select By : Completions
Sort By :

Page No : 1
Report Number : R_290
Last Update :
Print Date : 05/13/1999, 10:45:56

Completion	Date	Cur Oil	Cum Oil	Cur Gas	Cum Gas	Cur Wat	Cum Wat
JICARILLA 150	10/31/1998	31.86	31.86	0.00	0.00	0.00	0.00
	11/30/1998	8.34	40.20	1,855.84	1,855.84	5.03	5.03
	12/31/1998	10.02	50.22	1,528.39	3,384.23	1.68	6.71
	01/31/1999	8.35	58.57	1,451.92	4,836.15	1.68	8.38
	02/28/1999	2.51	61.08	1,394.08	6,230.23	0.00	8.38
	03/31/1999	10.80	71.88	2,378.37	8,608.60	20.12	28.50
	04/30/1999	16.70	88.59	0.00	8,608.60	5.02	33.52
	05/31/1999	0.00	88.59	0.00	8,608.60	0.00	33.52
	11/30/1998	3.34	3.34	4,034.81	4,034.81	1.68	1.68
	12/31/1998	8.36	11.70	3,853.82	7,908.63	0.00	1.68
	01/31/1999	4.18	15.87	3,499.91	11,408.54	0.84	2.52
	02/28/1999	0.00	15.87	3,322.46	14,731.00	0.00	2.52
	03/31/1999	53.50	69.37	4,958.69	19,689.69	0.00	2.52
	04/30/1999	13.38	82.75	0.00	19,689.69	1.68	4.19
	05/31/1999	0.00	82.75	0.00	19,689.69	0.00	4.19

6M DK

GAS Cums 522,520

Oil Cums 3,156

MV Cums
GAS Cums
1,177,690

Oil Cums
3,195

FARMINGTON

ANNUAL PRODUCTION FOR 35933

PHS020M1

JICARILLA 150 6M

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE 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
1990      107      1860      22440     698466
1991       1      1861      39065     737531
1992       1      1861      82963     820494
1993      145      2006      60784     881278
1994      272      2278      53113     934391
1995      281      2559      63315     997706
1996      234      2793      63744    1061450
1997      164      2957      53100    1114550
1998      155      3112      47505    1162055
=====

```

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 35934

PHS030M1

JICARILLA 150 6M

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	31	02	20		01	1952	31	1112	15.025			
2	2	F	28	02	7		01	1318	28	1112	15.025			
3	2	F	31	02	8		01	1955	31	1133	15.025			
4	2	F	30	02	68		01	2009	30	1125	15.025			
5	2	F	31	02			01	1770	31	1125	15.025			
6	2	F	30	02	11		01	2080	30	1125	15.025			
7	2	F	25	02	43		01	2029	25	1125	15.025			
8	2	F	31	02	5		01	1914	31	1125	15.025			
9	2	F	30	02	20	56.1	01	1801	30	1125	15.025			
10	2	F	31	02	8		01	2299	31	1125	15.025			
11	2	F					01	1856		1125	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 02/03/99

FARMINGTON

1998 MONTHLY PRODUCTION FOR 35933

PHS030M1

JICARILLA 150 6M

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	3		01	4734	31	1173	15.025			
2	2	F	28	02	7		01	3984	28	1173	15.025			
3	2	F	31	02	10		01	4417	31	1173	15.025			
4	2	F	30	02	37		01	4274	30	1190	15.025			
5	2	F	31	02	16		01	4619	31	1190	15.025			
6	2	F	30	02	32		01	5008	30	1190	15.025			
7	2	F	25	02	7		01	2842	25	1190	15.025			
8	2	F	31	02	10		01	4871	31	1190	15.025			
9	2	F	30	02	15	60.5	01	4268	30	1190	15.025			
10	2	F	31	02	18		01	4433	31	1189	15.025			
11	2	F					01	4055		1189	15.025			
12														

PF6 - RETURNS TO ANNUAL DISPLAY

PF10 - HELP INFORMATION

PF3 - TRANSFER TO UPDATE

PF9 - DISPLAY MONTHLY INJECTION

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

PRS 02/03/99

FARMINGTON

ANNUAL PRODUCTION FOR 35934

PHS020M1

JICARILLA 150 6M

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
1990      202      1617      12403     349590
1991      130      1747      2444      352034
1992      143      1890      23987     376021
1993      409      2299      17697     393718
1994      105      2404      20850     414568
1995      145      2549      22007     436575
1996      185      2734      24333     460908
1997      143      2877      22398     483306
1998      190      3067      20983     504289
=====

```

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

BURLINGTON RESOURCES OIL AND GAS COMPANY

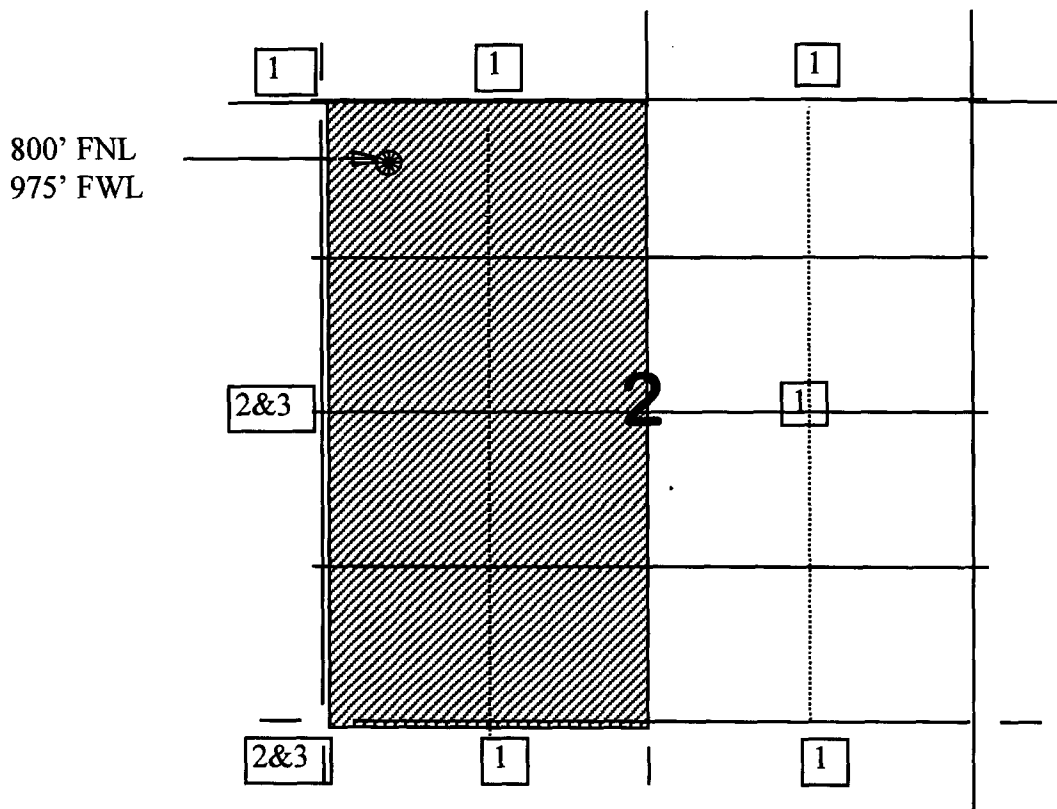
Jicarilla 150 #6M

OFFSET OPERATOR/OWNER PLAT

Mesaverde & Dakota Formations

Commingle well

Township 26 North, Range 5 West



1) Burlington Resources

**2) Amoco Production Company
C/O Don Duhrkopf
501 West Lake Park Blvd.
Houston, TX 77079-2696**

3) Conoco Inc.

**Attn: Isabel H. Barron
P. O. Box 2197
Houston, TX 77252**

