

DATE IN 1/19/99	SUSPENSE 2/8/99	ENGINEER DC	LOGGED BY KW	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



2/86

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]

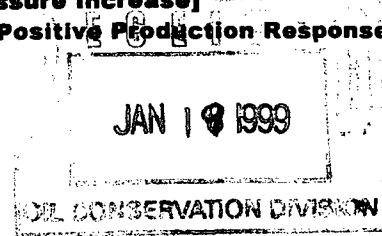
[1] **TYPE OF APPLICATION - Check Those Which Apply for [A]**

- [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

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 & Gas Company

PO Box 4289, Farmington, NM 87499

Operator	Address		
SAN JUAN 27-4 UNIT	46	H-31-27N-04W	Rio Arriba
Lease	Well No.	Unit Ltr. - Sec - Twp - Rge	County
		Spacing Unit Lease Types: (check 1 or more)	
OGRID NO. _14538	Property Code _7452	API NO. _30-39-20128	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)	5392-5908' (anticipated upon completion)		7814-8032'
3. Type of production (Oil or Gas)	Gas		Gas
4. Method of Production (Flowing or Artificial Lift)	Flowing		Flowing
5. Bottomhole Pressure	(Current) a. 633 psi	a.	a. 1149 psi
Oil Zones - Artificial Lift: Estimated Current	(Original) b. 1380 psi	b.	b. 3150 psi
Gas & Oil - Flowing: Measured			
Current All Gas Zones: Estimated or Measured			
6. Oil Gravity (°API) or Gas BTU Content	BTU 1229		BTU 1230
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In and oil/gas/water rates of last production	Date: n/a Rates:	Date: Rates:	Date: n/a Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data			
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: n/a Rates:	Date: Rates:	Date: 10/98 Rates: 59 MCFD
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 ☐ 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 Jennifer L. Dobson TITLE Production Engineer DATE 01-18-99TYPE OR PRINT NAME Jennifer L. Dobson TELEPHONE NO. (505) 599-4026

MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

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

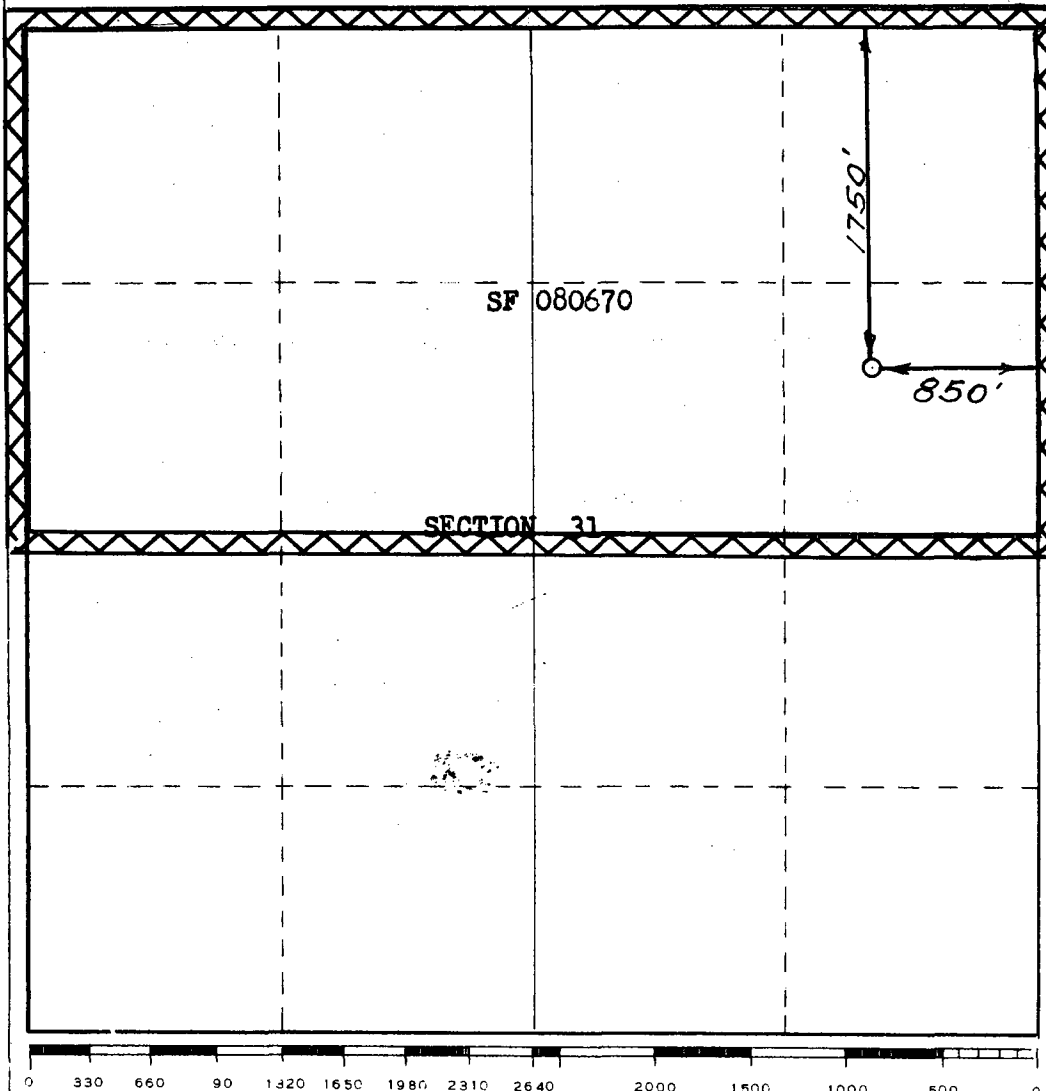
Operator EL PASO NATURAL GAS CO.		Lease SAN JUAN 27-4 UNIT		SF 080670	Well No. 46
Unit Letter H	Section 31	Township 27 NORTH	Range 4 WEST	County RIO ARriba	
Actual Footage Location of Well: 1750 feet from the NORTH line and 850 feet from the EAST line					
Ground Level Elev. 6816	Producing Formation DAKOTA	Pool BASIN DAKOTA		Dedicated Acreage: 321.16	Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 **Unitization**

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.

**Original signed by
Carl E. Matthews**

Name

Patroleum Engineer

Position

El Paso Natural Gas Company

Company

August 1, 1966

Date

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.

Date Surveyed

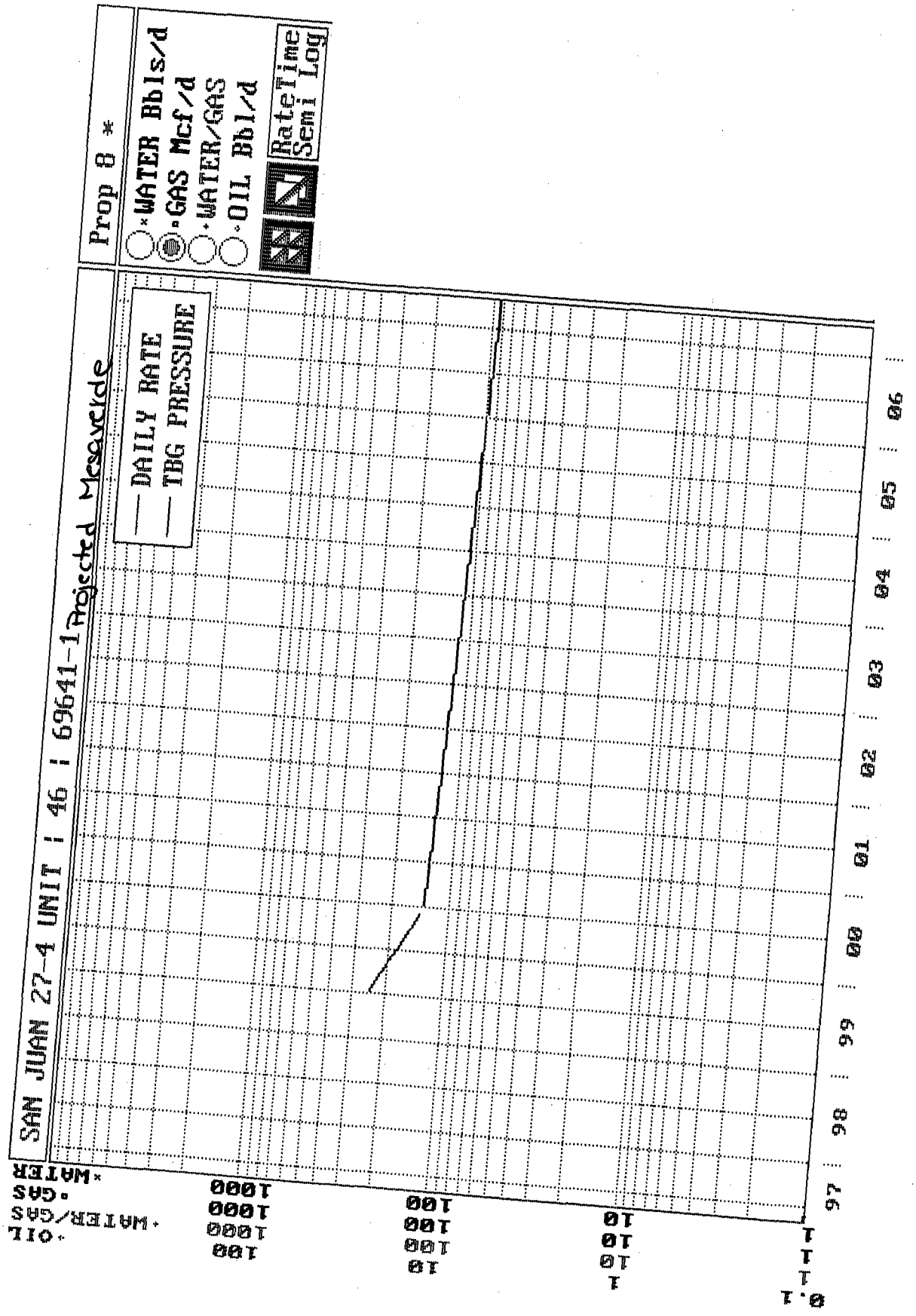
JULY 1, 1968

Registered Professional Engineer
and/or Land Surveyor

David O. Wilson

Certificate No.

1760



* OIL
+ WATER/GAS
- GAS
* WATER

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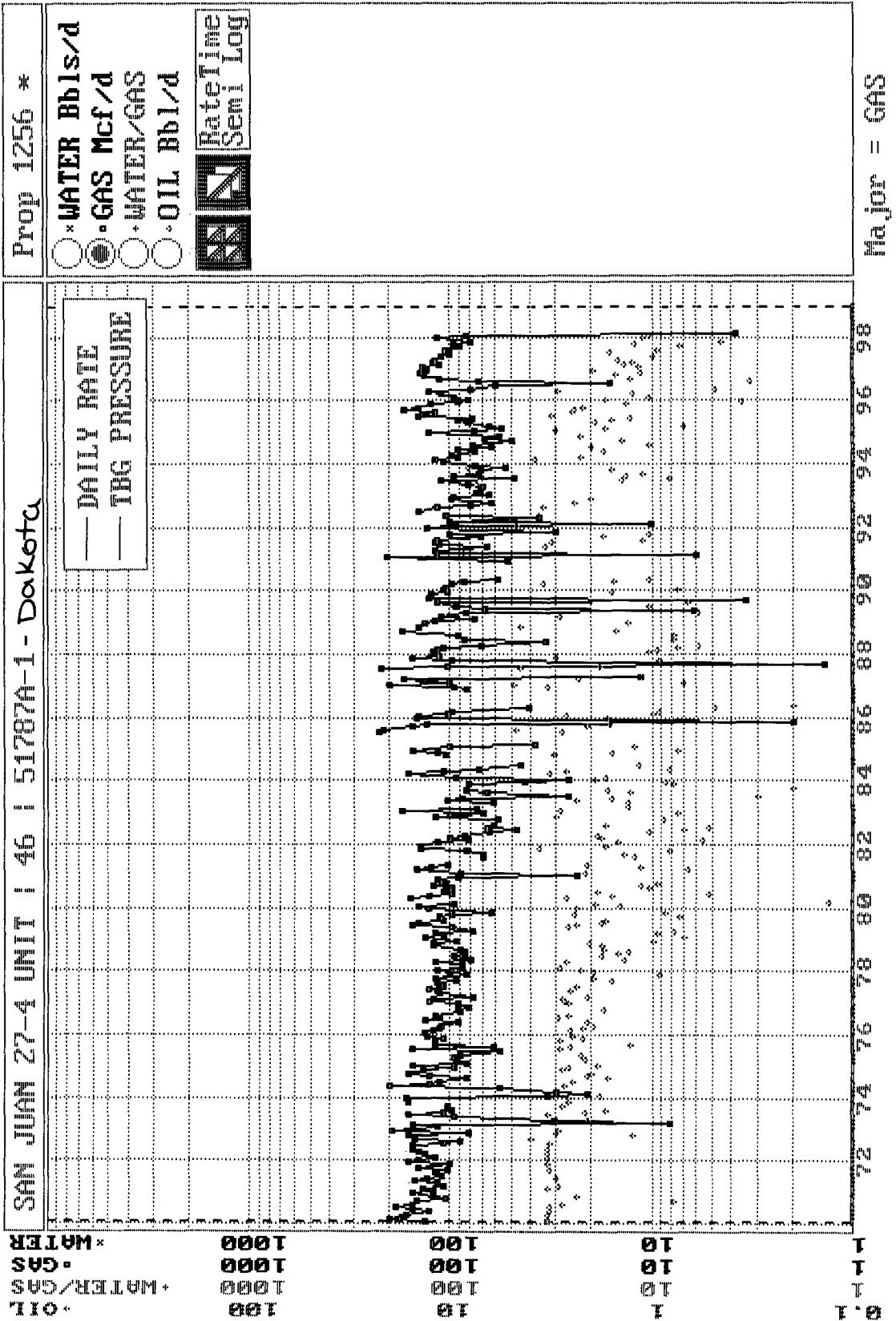
1
1
1
1-0

SAH JUAN 27-4 UNIT : 46 : 51707A-1-Dakota

※ 2014年12月31日現在

[illegible]

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



FARMINGTON

1998 MONTHLY PRODUCTION FOR 51787A

PHS030M1

SAN JUAN 27-4 UNIT

46

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	G	31	02	32		01	2533	31	1183	15.025			
2	2	G	28	02	1		01	116	28	1183	15.025			
3	2	G	31	02	52		01	3986	31	1183	15.025			
4	2	G	30	02	15		01	2105	30	1183	15.025			
5	2	F	28	02	33	56.5	01	3377	28	1183	15.025			
6	2	F	30	02	8		01	2278	30	1183	15.025			
7	2	F	31	02	3		01	2140	31	1230	15.025			
8	2	F	31	02	14		01	2160	31	1230	15.025			
9	2	F	30	02	13		01	2059	30	1230	15.025			
10	2	F	31	02	12		01	1815	31	1230	15.025			
11	2	F					01	3927		1230	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

Page No.: 1

Print Time: Mon Jan 11 07:34:50 1999

Property ID: 1260

Property Name: SAN JUAN 27-4 UNIT | 4A | 49507A-1 - Mesaverde (offset to SJ27-4U#46)

Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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

01/02/80	0	1165.0 - Initial Pressure
07/07/80	49647	790.0
02/23/82	164561	630.0
11/05/82	208349	637.0
11/01/84	276100	617.0
10/17/86	332988	589.0
10/04/89	426183	542.0
08/20/91	446082	596.0
09/19/91	449675	608.0
07/30/93	498129	544.0 - Current Pressure

Page No.: 1

Print Time: Mon Jan 11 07:23:35 1999

Property ID: 1256

Property Name: SAN JUAN 27-4 UNIT | 46 | 51787A-1-Dakota

Table Name: Q:\PUBLIC\GENTITY\GDPNOS\TEST.DBF

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

09/17/68	0	2485.0	-Initial Pressure
05/05/69	28516	1259.0	
10/23/70	134701	1031.0	
04/08/71	158001	1028.0	
08/09/72	220948	1045.0	
06/24/75	329623	1074.0	
07/06/77	414464	989.0	
10/08/79	501471	876.0	
04/20/81	557613	886.0	
09/19/83	623227	1057.0	
11/05/85	680512	922.0	
10/11/88	762384	1002.0	
06/08/90	816214	1002.0	
05/28/92	865115	924.0	-Current Pressure

San Juan 27-4 Unit #46
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	0.722	GAS GRAVITY	0.724
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.21	%N2	0.19
%CO2	0.8	%CO2	0.92
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	1.995
DEPTH (FT)	5650	DEPTH (FT)	7923
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	145	BOTTOMHOLE TEMPERATURE (DEG F)	185
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	544	SURFACE PRESSURE (PSIA)	924
BOTTOMHOLE PRESSURE (PSIA)	632.6	BOTTOMHOLE PRESSURE (PSIA)	1148.7
<u>MV - Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.722	GAS GRAVITY	0.724
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.21	%N2	0.19
%CO2	0.8	%CO2	0.92
%H2S	0	%H2S	0
DIAMETER (IN)	1.995	DIAMETER (IN)	1.995
DEPTH (FT)	5650	DEPTH (FT)	7923
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	145	BOTTOMHOLE TEMPERATURE (DEG F)	185
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1165	SURFACE PRESSURE (PSIA)	2485
BOTTOMHOLE PRESSURE (PSIA)	1380.0	BOTTOMHOLE PRESSURE (PSIA)	3150.4

Mesaverde pressures determined using the offset San Juan 27-4 Unit #4A.

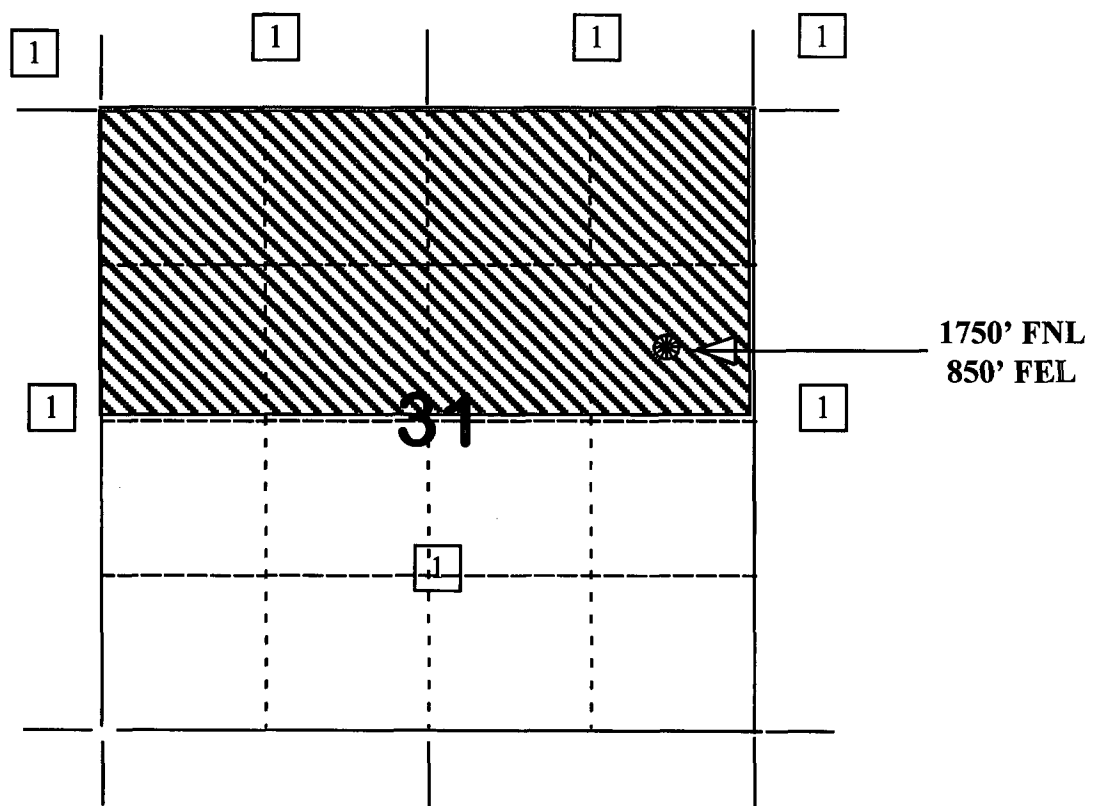
BURLINGTON RESOURCES OIL AND GAS COMPANY

San Juan 27-4 Unit #46

OFFSET OPERATOR/OWNER PLAT

Mesaverde / Dakota Formations Commingle Well

Township 27 North, Range 4 West



1) Burlington Resources

MALIA S SANCHEZ
RST NATL BK SANTA FE AGENT
O BANK OF OKLAHOMA AGENT
O BOX 1588
LSA OK 74101

BEDROCK LIMITED PARTNERSHIP
PO BOX 36480
ALBUQUERQUE NM 87176

U/W FOSTER MORRELL DECD
EDNA E MORRELL LIVG TRUST
C/O NORWEST BANK NEW MEXICO
PO BOX 659566
SAN ANTONIO TX 782659566

NCO GENERAL PARTNERSHIP
O BOX 451
BUQUERQUE NM 871030451

DEREK PETER VENEZIA
BANK OF AMERICA
PO BOX 85058
SAN DIEGO CA 921865058

UNION OIL CO OF CALIF
ATTN REVENUE ACCOUNTING
PO BOX 841055
DALLAS TX 752841055

JEANOR G HAND
ANSLEY DR NE
LANTA GA 30309

GERALD F HARRINGTON
BOATMENS NATL BK OF DES MOINES
ATTN TRUST OFFICER PETERSON
PO BOX 817
DES MOINES IA 503040817

HARCO LTD PTSHP
PO BOX 216
ROSWELL NM 88202

MES V HARRINGTON
O BOX 13535
BUQUERQUE NM 87192

JOHN C MEADOWS
6053 EXPRESSWAY
JACKSONVILLE FL 32211

JOSEPH R ABRAHAM
5517 WILLOW LN
DALLAS TX 75230

JAN R MONTANO
O BOX 241
ERRA AMARILLA NM 87575

LESLIE C TATUM
PO BOX 7392
N KANSAS CITY MO 64116

LMA ROYALTIES LTD
PO BOX 1778
COLORADO SPRINGS CO 809011778

IANUEL A SANCHEZ TRUST
HE FIRST NATL BANK OF SANTA FE
O BANK OF OKLAHOMA AGENT
O BOX 1588
ULSA OK 74101

MARY F ROBERTS
PO BOX 15940
SANTA FE NM 87506

MARY JO WELLS
5250 WOODLAWN AVE
CHEVY CHASE MD 20815

MARY JONE CHAPPELL
O BOX 11970
LBUQUERQUE NM 87192

MIKE C ABRAHAM TRUSTEE
711 AMHERST DR SE
ALBUQUERQUE NM 87106

MINERALS MANAGEMENT SERVICE
ROYALTY MANAGEMENT PROGRAM
PO BOX 5810
DENVER CO 802175810

MISS M F ABRAHAM
06 FOUR HILLS RD SE
LBUQUERQUE NM 87128

PATRICIA ANN ASHBURN
46 CARIBE WAY
VERO BEACH FL 32963

PATRICIA P SCHIEFFER
C/O J THOMAS SCHIEFFER
1000 BALLPARK WAY #300
ARLINGTON TX 76011

BOBBY F BAKER
575 BELVIDERE APT #125
EL PASO TX 79912

ROBERT P & ANNA D EARNEST TR
KATHLEEN EARNEST RIOS TRUSTEE
2404 LORING #131
SAN DIEGO CA 921092347

ROBERT S TATUM
TATUM FAMILY AGENCY #4269
C/O NATIONS BK OF TX NA
PO BOX 840738
DALLAS TX 752840738

ROMERO FAMILY LTD PARTNERSHIP
ALICIA V ROMERO GEN PARTNER
PO BOX 5155
SANTA FE NM 87502

SCOTT ANTHONY VENEZIA
BANK OF AMERICA
PO BOX 85058
SAN DIEGO CA 921865058

TEMPE LTD PARTNERSHIP
C/O F E & M K HARRINGTON
652 FEARRINGTON POST
PITTSBORO NC 27312

WILLIAM B GREENE
812 GRANDVIEW DRIVE SE
ALBUQUERQUE NM 87108

DATE: January 13, 1999
 NAME: SAN JUAN 27-4 UNIT 46
 FORM: MESAVERDE
 LOCATION
 UNIT: H
 SEC: 21
 TWN: 27N
 RNG: 4W

LEGEND
 COMPLETION DATE
 WELL NAME
 MCF/D-CUM(MMF)
 BOP/D-CUM(MBO)

[25] 8/58 S.J. 27-4 Unit #28 32/820 (88)	5/59 S.J. 27-4 Unit #21 13/243 (88) [30] 10/80 S.J. 27-4 Unit #26 52/822 (88)	1/59 S.J. 27-4 Unit #20 88/2897 (88) [29] 7/58 S.J. 27-4 Unit #17 24/393 (88) 12/79 S.J. 27-4 Unit #20A 7/271 (88)
7/58 S.J. 27-5 Unit #38 28/624 (88) [36] INA 10/56 S.J. 27-5 Unit #18 0/271 (81) 6/96 S.J. 27-5 Unit #146 87/102 (88) 1/87	11/53 S.J. 27-4 Unit #4 4/72 (88) ④ SJ 27-4-446 [31] 9/80 S.J. 27-4 Unit #26 56/511 (98) 1/80 S.J. 27-4 Unit #4A 93/645 (88)	[32] 9/80 S.J. 27-4 Unit #108 47/620 (88) 1/80 S.J. 27-4 Unit #136 68/589 (88)
Jicarilla 150 #1A 36/308 (88) 9/54 Jicarilla 150 #1 2/1139 (88) [1] 3/80 Jicarilla 150 #9A 192/794 (88)	9/76 Jicarilla 119 N #5A 68/723 (88) [6] 8/82 Jicarilla 119 N #4A 73/439 (88) 6/57 Jicarilla 119 N #5 47/1348 (88)	3/84 Hoyt #3 26/506 (88) 2/84 Hoyt #2 38/771 (88) 7/78 Hoyt #3A 23/433 (88) [5] 12/77 Hoyt #2A 44/561 (88)

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R-4-W

R-5-W

DATE: January 13, 1999
 NAME: SAN JUAN 27-4 UNIT 46
 FORM: DAKOTA
 LOCATION
 UNIT: H
 SEC: 21
 TWN: 27N
 RNG: 4W

LEGEND
 COMPLETION DATE
 WELL NAME
 MCF/D-CUM(MMF)
 BOP/D-CUM(MBO)

12/86 S.J. 27-5 Unit #127 161/863 (ee) 6/71 S.J. 27-5 Unit #127 112/1173 (ee) [25]	9/74 S.J. 27-5 Unit #180 165/1893 (ee) 7/74 S.J. 27-4 Unit #49 210/2813 (ee) [30]	10/88 S.J. 27-4 Unit #53 107/1303 (ee) 10/88 S.J. 27-4 Unit #52 101/1188 (ee) [29] 10/88 S.J. 27-4 Unit #51 84/1179 (ee)	10/88 S.J. 27-4 Unit #54 74/958 (ee) [32] 10/81 S.J. 27-4 Unit #30 102/1812 (ee)	T 27 N
6/72 S.J. 27-5 Unit #148 24/630 (ee) [36]	9/71 S.J. 27-4 Unit #58 64/1100 (ee) 9/68 S.J. 27-4 Unit #48 77/1073 (ee) [31]	9/68 S.J. 27-4 Unit #48 77/1073 (ee)	10/81 S.J. 27-4 Unit #30 102/1812 (ee)	T 27 N
11/70 Jicarilla 150 #9 13/461 (ee) 9/84 Jicarilla 150 #1E 91/404 (ee) [1] 10/70 Jicarilla 150 #1 122/1081 (ee)	2/81 52/428 (ee) 7/85 Jicarilla 119 N #4E 88/286 (ee) 2/57 Jicarilla 119 N #4 31/2529 (ee)	12/79 Hoyt #1E 130/1447 (ee) 2/84 Hoyt #2 73/1720 (ee) 2/84 Hoyt #1 138/2845 (ee) [5]	12/84 Hoyt #2E 131/792 (ee)	T 28 N

R-4-W

R-5-W

Catanach, David

From: Peggy Bradfield[SMTP:pbradfield@br-inc.com]
Reply To: pbradfield@br-inc.com
Sent: Monday, February 08, 1999 12:22 PM
To: Catanach, David
Subject: re: San Juan 27-4 Unit No. 46

David: yes, I did send the notification....obviously I get crosseyed after sooo many of those. Am very sorry - thanks for catching that.

(and sorry that I'm sending you another group today. maybe we'll soon have at least our new drill DHC's all in to you for this year, and then only have the recompletes, and duals-to-DHC's left). thanks - Peggy

Original Text

From: "Catanach, David" <DCATANACH@state.nm.us>, on 2/8/99 11:23 AM:
Hi Peggy,

In reviewing this application for DHC, your C-107-A says you did not notify all interest owners, yet, a list of such owners is contained within the application. Did you send notice to these interest owners? Please advise.

Thanks,

David