

DATE IN 7/30/99	SUSPENSE 8/19/99	ENGINEER DC	LOGGED BY NW	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



2437

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

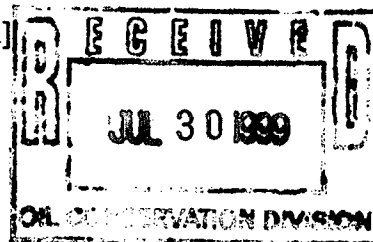
Check One Only for [B] or [C]

☐ [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

HUBBELL

5

N T-29-N R-10-W

SAN JUAN

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7133 API NO. 30-45-823300 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	MESA VERDE - 72319		DAKOTA - 71599
2. Top and Bottom of Pay Section (Perforations)	4010'- 4600'		6510'-6531', 6567'-6646'
3. Type of production (Oil or Gas)	gas		Gas
4. Method of Production (Flowing or Artificial Lift)	flowing		Flowing
5. Bottomhole Pressure	(Current) Est. a. 305	a.	a. 559
Oil Zones - Artificial Lift: Estimated Current	(Original) Est. b. 1059	b.	b. 856
Gas & Oil - Flowing: Measured Current			
All Gas Zones: Estimated or Measured Original			
6. Oil Gravity (°API) or Gas BTU Content	BTU 1178		BTU 1313
7. Producing or Shut-In?	Not yet completed		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: n/a	Date: Rates:	Date: n/a Rates: 102 MCF/D
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:

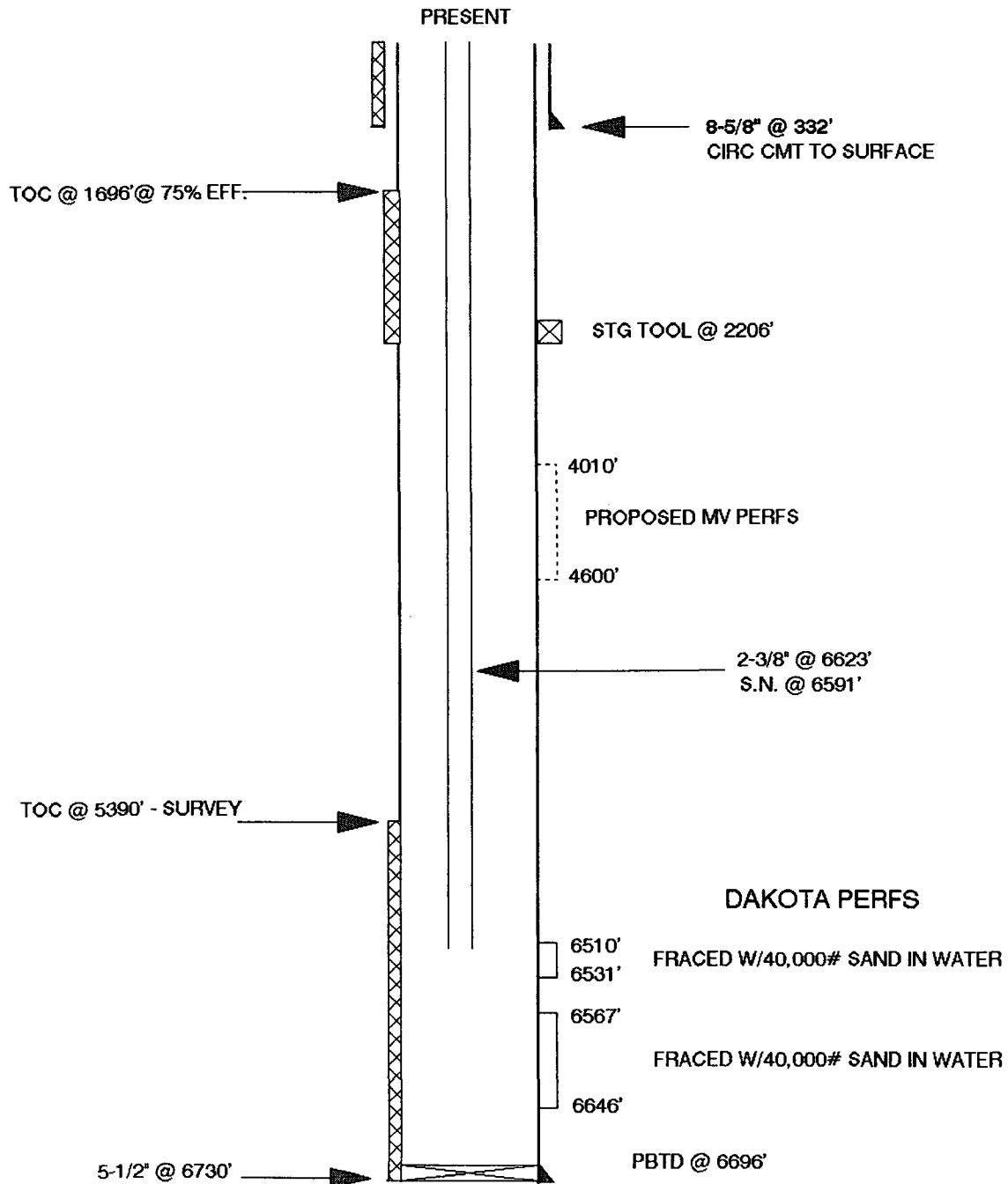
- * C-102 for each zone to be commingled showing its spacing unit and acreage dedication.
- * Production curve for each zone for at least one year. (If not available, attach explanation.)
- * For zones with no production history, estimated production rates and supporting data.
- * Data to support allocation 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 Mike Pippin TITLE Production Engineer DATE 07-28-99TYPE OR PRINT NAME Mike Pippin TELEPHONE NO. (505) 326-9700

HUBBELL #5 MV-DK

UNIT N SECTION 17 T29N R10W
SAN JUAN COUNTY, NEW MEXICO



NUMBER OF COPIES RECEIVED	
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STATE	
FILE	
U.S.G.S.	
LAND OFFICE	
TRANSPORTER	OIL GAS
PRODUCTION OFFICE	
OPERATOR	

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT
 SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

FORM C-128
 Revised 5/1/57

SECTION A

Operator J. GLENN TURNER		Lease TURNER-HUBBELL		Well No. 17-1
Unit Letter N	Section 17	Township 29 NORTH	Range 10 WEST	County SAN JUAN
Actual Footage Location of Well: 1190 feet from the S. 1/4 line and 1470 feet from the WEST line				
Ground Level Elev. 5754.0	Producing Formation Dakota	Pool Undesignated	Dedicated Acreage: 316.19 320 Acres	

Ref. GLO Plat dated 19 April 1881

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO X. ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES X NO _____. If answer is "yes," Type of Consolidation Unitized
3. If the answer to question two is "no," list all the owners and their respective interests below:

Owner	Land Description

SECTION B

S.F. 078716	S.F. 078197		
S. F. 078716	S.F. 078266		
S.F. 078716	S.F. 078716		
S.F. 078716	S.F. 078716		

17

1470'

1190'

CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name C. Beeson Neal
 Position Agent in Farmington for
 Company J. Glenn Turner
 Date November 2, 1960

I hereby certify that the well location shown on the plat in SECTION B 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.

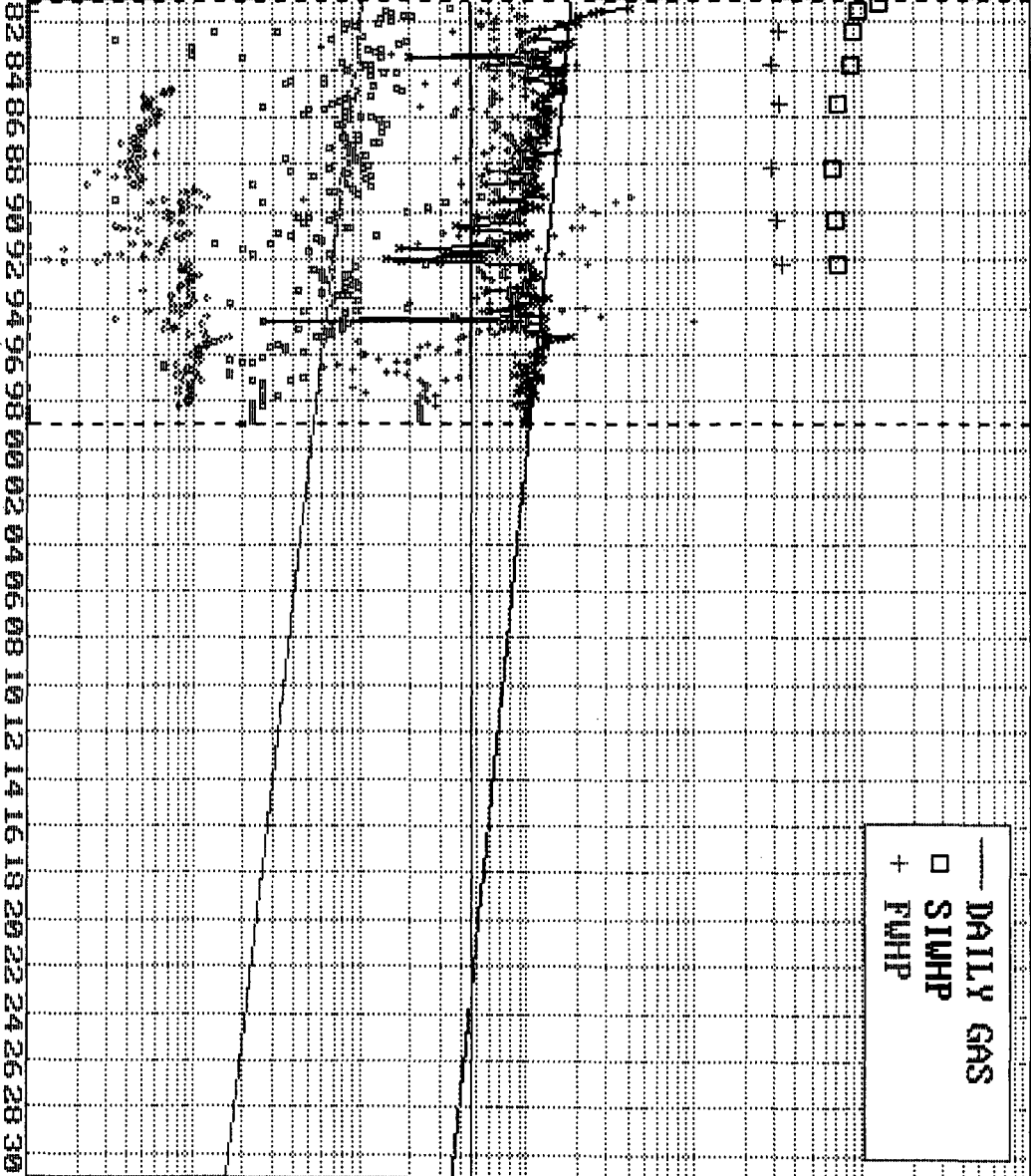
Date Surveyed 27 October 1960
 Registered Professional Engineer and/or Land Surveyor
James P. Leese
 Certificate No. 1463

0 330 660 990 1320 1650 1980 2310 2640 2000 1500 1000 500 0

0.1	1	10	100	1000	10000	* WATER
0.01	0.1	1	10	100	1000	* OIL/GAS
0.01	0.1	1	10	100	1000	* OIL
0.1	1	10	100	1000	10000	* GAS

HUBBELL : 3E : 50553A-1

OFFSET N.V.



Prop 10103 *

- * GAS Mcf/d
- * OIL Bbl/d
- * OIL/GAS
- * WATER Bbls/d

RateTime
Semi Log

EUR 1,737,661

Cum 701,474

Rem 1,036,187

Rem% 59.6%

Yrs 70.92

Date 1/1/1999

Act 0

Qmo 3,230

Q 104.3

n 0

De 3.273

Qab 10

GetQual 99PDP

Major = GAS

Hubbell 5 (DK)

72866

OPR008M2 4732

0008 CHROMATOGRAPH GAS SAMPLE DETAIL

16:02:54.1 02/08/99

GPM

** DATA AT 14.730 PSIG UNLESS NOTED **

MOL % (AT 14.73)

HYDROGEN	_____	
HELIUM	_____	
NITROGEN	___1.18	
OXYGEN	_____	
HYDROGEN SULFIDE	_____	
CARBON DIOXIDE	___0.44	
METHANE	___85.77	
ETHANE	___6.88	1.8404
PROPANE	___2.87	0.7910
ISO-BUTANE	___0.52	0.1701
N-BUTANE	___0.75	0.2365
ISO-PENTANE	___0.30	0.1098
N-PENTANE	___0.22	0.0797
HEXANE	_____	
HEXANE PLUS	___1.07	0.4668
HEPTANE PLUS	_____	
TOTALS	100.00	3.6943

MP NUMBER 72866

EFFECTIVE DATE 19960701

-- GASOLINE CONTENT (GPM) --

26/70 GASOLINE _____

100% PROPANE _____

EXCESS BUTANES _____

TOTAL

----- SPECIFIC GRAVITY -----

CALCULATED _0.6830

MEASURED _____

SULPHUR GRAINS / 100 CU FT _____

03=MAIN SCREEN

24=HELP

PA1=TERMINATE

BTu 1184.000

DK

FDG056M1 1153
 START OF DATA
 DP NO: 50401A
 HUBBELL

WELL PRODUCTION NRI VOLUME

02/09/99 09:30:58

DATE: 990113 (YYMMDD FORMAT)

5 SCROLL FORWARD BY DATE:

NRI OIL % 79.2199890

NRI GAS % 79.2199890

S
 E DATE HOURS
 L PRODUCED ON (BOPD BOPM)

-OIL PRODN-
 -GAS PRODN-
 (MCFD MCFM)

01/13/99	24.0	1.10	14.32	201	2616
01/12/99	24.0	1.10	13.21	201	2415
01/11/99	24.0	1.10	12.11	201	2213
01/10/99	24.0	1.10	11.01	201	2012
01/09/99	24.0	1.10	9.91	201	1811
01/08/99	24.0	1.10	8.81	201	1610
01/07/99	24.0	1.10	7.71	201	1409
01/06/99	24.0	1.10	6.61	201	1207
01/05/99	24.0	1.10	5.51	201	1006
01/04/99	24.0	1.10	4.40	201	805
01/03/99	24.0	1.10	3.30	201	604

ENTER I UNDER SEL FOR MAINTENANCE

ENTR=BCKWRD PF6=8/8'S PF10=BRS MNU PF11=INQ/UPD MENU PF12=MAIN MENU PF24=HELP

DK

Page No.: 1

Print Time: Tue Feb 09 08:33:04 1999

Property ID: 10104

Property Name: HUBBELL | 5 | 50401A-1

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

--DATE--	PHA	M FWHP-	M FBHP-	M SIWHP	M SIBHP
■■■■■■■■■■	■■■■	■■■Psi■■■	■■■Psi■■■	■■■Psi■■■	■■■Psi■■■
12/11/60		0.0		2068.0	2478.0
12/19/60				2067.0	
04/22/61				1600.0	
11/14/62				1601.0	
01/06/63				1615.0	
01/02/64				1457.0	
08/16/65				1400.0	
05/23/66				1079.0	
06/19/67				922.0	
05/28/68				892.0	
02/04/69				822.0	
08/14/70		419.0		745.0	874.0
07/08/71		391.0		839.0	986.0
05/15/72		449.0		878.0	1033.0
04/16/73		386.0		826.0	971.0
05/16/75		422.0		727.0	853.0
08/01/77		292.0		694.0	813.0
04/09/79		229.0		605.0	707.0
05/18/81		306.0		564.0	659.0
10/17/83		311.0		766.0	899.0
07/01/85		312.0		619.0	724.0
10/01/88		0.0		724.0	849.0
04/29/92		355.0		697.0	817.0

HUBBELL #5
 Bottom Hole Pressures
 Flowing and Static BHP
 Cullender and Smith Method
 Version 1.0 3/13/94

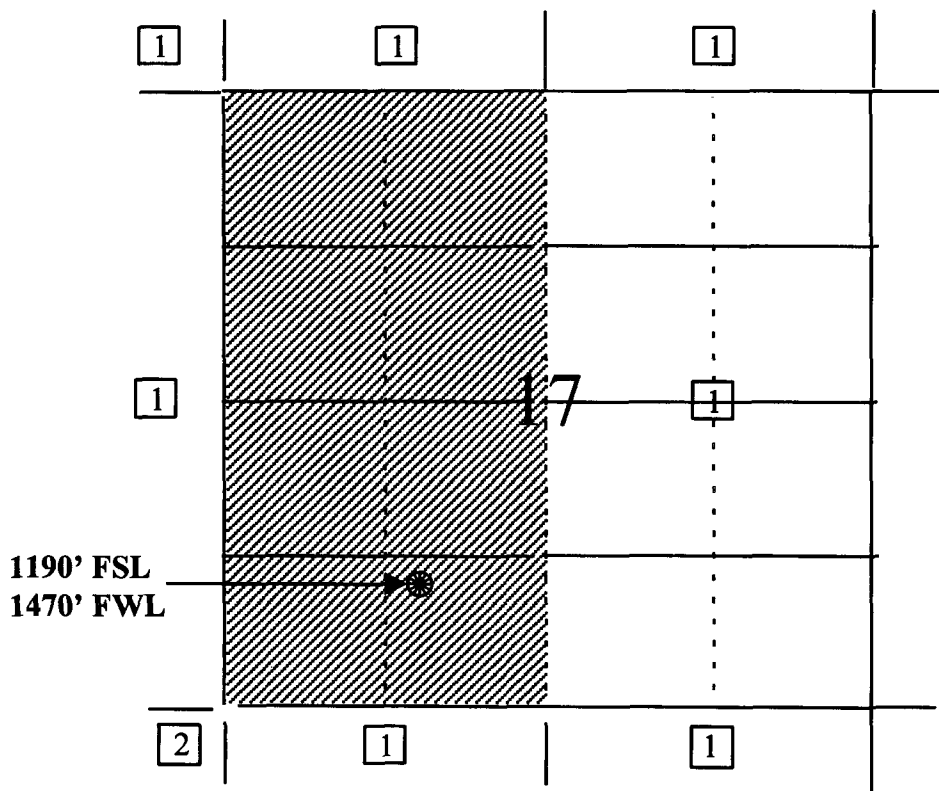
Mesaverde		Dakota	
<u>MV-Current</u>		<u>DK-Current</u>	
GAS GRAVITY	0.704	GAS GRAVITY	0.683
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.43	%N2	1.18
%CO2	1.66	%CO2	0.44
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2
DEPTH (FT)	6624	DEPTH (FT)	6730
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	143	BOTTOMHOLE TEMPERATURE (DEG F)	144
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	717	SURFACE PRESSURE (PSIA)	697
BOTTOMHOLE PRESSURE (PSIA)	856.4	BOTTOMHOLE PRESSURE (PSIA)	828.2
<u>MV-Original</u>		<u>DK-Original</u>	
GAS GRAVITY	0.704	GAS GRAVITY	0.683
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.43	%N2	1.18
%CO2	1.66	%CO2	0.44
%H2S	0	%H2S	0
DIAMETER (IN)	2	DIAMETER (IN)	2
DEPTH (FT)	6624	DEPTH (FT)	6730
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	143	BOTTOMHOLE TEMPERATURE (DEG F)	144
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1259	SURFACE PRESSURE (PSIA)	2068
BOTTOMHOLE PRESSURE (PSIA)	1528.8	BOTTOMHOLE PRESSURE (PSIA)	2524.0

BURLINGTON RESOURCES OIL AND GAS COMPANY

**Hubbell #5
OFFSET OPERATOR / OWNER PLAT
Downhole Commingle**

Mesaverde / Dakota Formations Well

Township 29 North, Range 10 West



1) Burlington Resources

2) Four Star Oil & Gas Company
c/o Texaco Exploration & Prod.
Attn: Rocky D. Holly
PO Box 2100
Denver, CO 80201

DATE: February 09, 1999

NAME: HUBBELL #5

FORM: DAKOTA

LOCATION

UNIT: N
SEC: 17
TWN: 29N
RNG: 10W

<p>4/63 * Hubbell Fed 1 99/946 (99) 0/4</p> <p>[7]</p> <p>1/70 * Potter Canyon 18/338 (99) 0/1</p>	<p>1/61 * Nye Fed #1 71/1824 (99) 0/16</p> <p>[8]</p> <p>1/61 * Nye Fed #2 6/1579 (99) 0/12</p>	<p>3/62 * Nye #3 1/834 (99) 0/14</p> <p>[9]</p> <p>2/65 * Rock Island Fed #1 72/1894 (99) 0/13</p>
<p>12/60 * WM Hanley #1 55/473 (99) 0/4 [18]</p> <p>2/81 * WM Hanley #1E 55/473 (99) 0/4</p> <p>4/81 * Hubbell 3E 95/684 (99) 0/5</p>	<p>12/60 * Wood #3 136/3428 (99) 0/28</p> <p>[17]</p> <p>12/60 * Hubbell #5 185/4000 (99) 1/45</p>	<p>9/82 * State B Gas Com #1E 112/694 (99) 0/5 [16]</p> <p>7/61 * State B Gas Com #1 116/3498 (99) 0/35</p> <p>6/68 * State E Gas Com #1 99/2504 (99) 0/14</p> <p>2/82 * State E Gas Com #1E 47/394 (99) 0/2</p>
<p>12/60 * Bunce Fed Com #1 56/3214 (99) 0/29</p> <p>7/60 * Payne A #1 54/2210 (99) 0/23</p> <p>[19]</p> <p>1/81 * Payne A #1E 0/137 0/1</p> <p>12/60 * Bunce Fed Com 1E 56/3214 (99) 0/8</p>	<p>10/64 * San Jacinto #6 8/1076 (99) 0/7</p> <p>4/81 * San Jacinto #6E 132/795 (99) 0/9</p> <p>10/64 * Haney Gas Com B 1 25/2464 (99) 0/19</p> <p>[20]</p> <p>1/82 * Haney Gas Com B 1E 92/3477 (99) 28-Jan</p>	<p>6/68 * Wood WN Fed #1 70/12749 (99) 0/9</p> <p>1/82 * Garcia Gas Com B 1E 59/602 (99) 0/4</p> <p>[21]</p>

T
29
N

LEGEND
COMPLETION DATE

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