

DATE IN 5/4/00	SUSPENSE 5/24/00	ENGINEER DC	LOGGED KW	TYPE DHC
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ABOVE THIS LINE FOR DIVISION USE ONLY

**NEW MEXICO OIL CONSERVATION DIVISION**  
- Engineering Bureau -

2745

**ADMINISTRATIVE APPLICATION COVERSHEET**

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

**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]

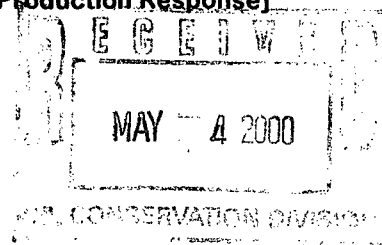
**[1] TYPE OF APPLICATION - Check Those Which Apply for [A]**

[A] Location - Spacing Unit - Directional Drilling  
NSL NSP DD SD

Check One Only for [B] and [C]

[B] Commingling - Storage - Measurement  
X 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] X Working, Royalty or Overriding Royalty Interest Owners

[B] Offset Operators, Leaseholders or Surface Owner

[C] Application is One Which Requires Published Legal Notice

[D] X 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 - Statement of Understanding**

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, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

Peggy Cole

Print or Type Name

Signature

Regulatory/Compliance Administrator

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 and Gas

Operator

Huerfanito Unit

#98

Address

G-35-27N-9W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 7138 API NO. 30-045-11904 Federal ☒ , State , 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)	4515'-4588'		6576'-6714'
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: Estimated Current Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated or Measured Original	(Current) a. 100 psi (see attachment)		a. 456 psi (see attachment)
	(Original) b. 1170 psi (see attachment)		b. 2409 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1351		BTU 1194
7. Producing or Shut-In?	Shut-in		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In 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: 7/93 Rates: 11.9 mcf/d 0.0 bopd		Date: N/A Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)	Date: N/A Rates:		Date: 3/00 Rates: 41.3 mcf/d 0.59 bopd
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Gas - 49% Oil - 67%		Gas - 51% Oil - 33%

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 ☐ 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 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

TITLE Engineer I

DATE

05/02/00

TYPE OR PRINT NAME

Joe Michetti

TELEPHONE NO. ( 505 )

326-9700

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACERAGE DEDICATION PLAT**

All distances must be from the outer boundaries of the Section

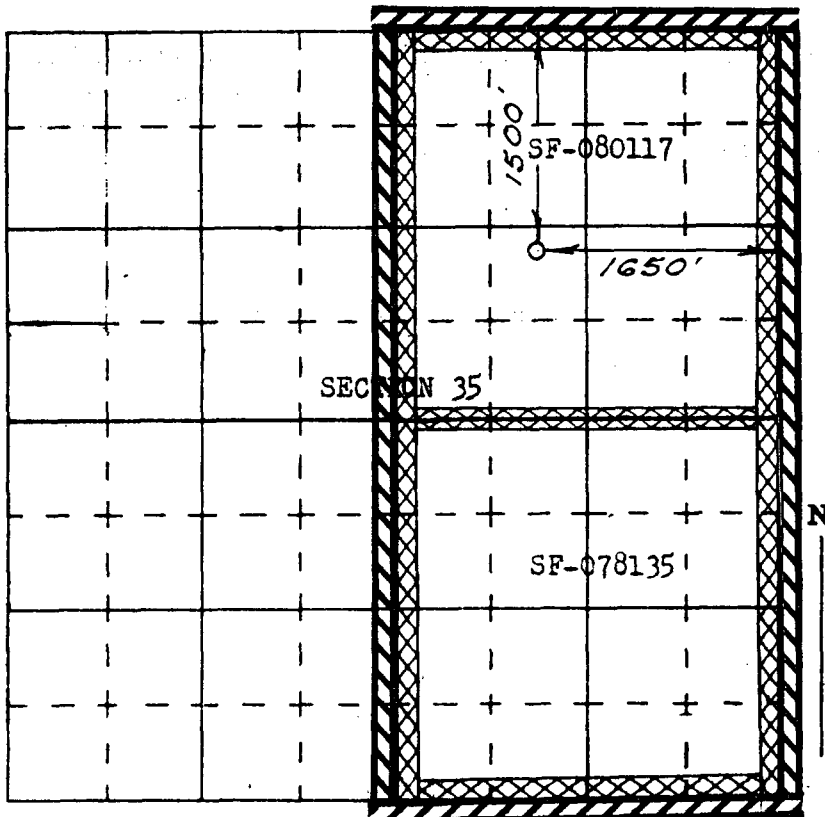
Operator <b>EL PASO NATURAL GAS COMPANY</b>			Lease <b>HUERFANITO UNIT SF-080117</b>		Well No. <b>98 (MD)</b>
Unit Letter <b>G</b>	Section <b>35</b>	Township <b>27-N</b>	Range <b>9-W</b>	County <b>SAN JUAN</b>	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> <span><b>1500</b> feet from the <b>NORTH</b> line and</span> <span><b>1650</b> feet from the <b>EAST</b> line</span> </div>					
Ground Level Elev. <b>6368</b>	Producing Formation <b>MESA VERDE-DAKOTA</b>	Pool <b>BLANCO MESA VERDE-BASIN DAKOTA</b>		Dedicated Acreage: <b>320.0</b> 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 **Unitization**

If answer is "no," list the owners and tract descriptions which have actually 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 **F. H. WOOD**

Name \_\_\_\_\_  
**Petroleum Engineer**  
Position \_\_\_\_\_  
**El Paso Natural Gas Company**  
Company \_\_\_\_\_  
**August 30, 1966**  
Date \_\_\_\_\_

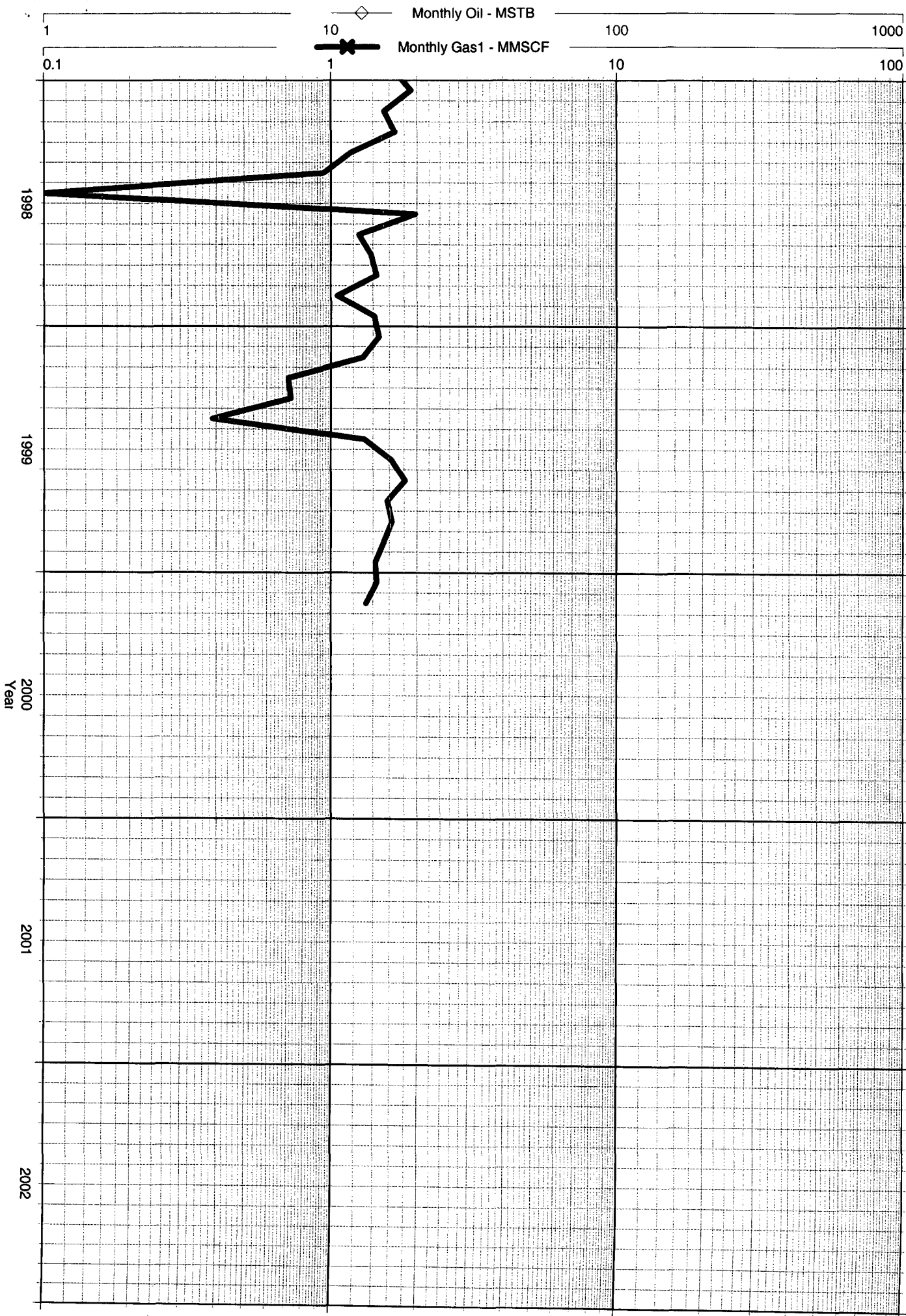
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed \_\_\_\_\_  
**MAY 9, 1966**

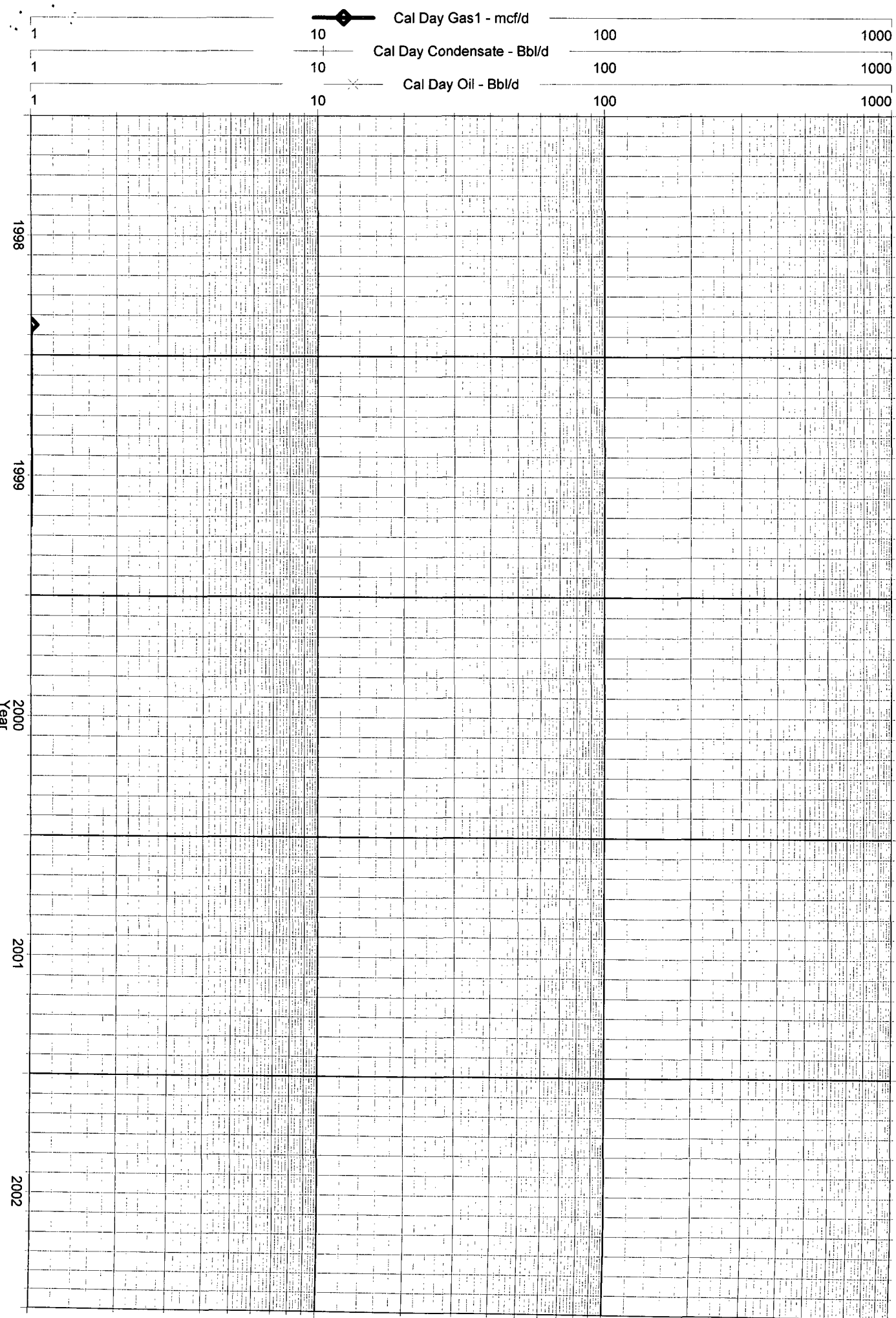
Registered Professional Engineer  
and/or Land Surveyor

*David Kilmer*  
Certificate No. **1760**

Operator:  
Field: DAKOTA  
Zone:  
Type: Gas  
Group: None



Operator:  
 Zone: **MESAVERDE**  
 Type: Gas  
 Group: None



**Huerfanito Unit #98**  
**Bottom Hole Pressures**  
**Flowing and Static BHP**  
**Cullender and Smith Method**

Version 1.0 1/14/98

<b>Mesaverde</b>		<b>Dakota</b>	
<b><u>MV-Current</u></b>		<b><u>DK-Current</u></b>	
GAS GRAVITY	0.787	GAS GRAVITY	0.696
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.74	%N2	0.63
%CO2	0.5	%CO2	1.19
%H2S	0	%H2S	0
DIAMETER (IN)	5.5	DIAMETER (IN)	2.375
DEPTH (FT)	4552	DEPTH (FT)	6645
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	123	BOTTOMHOLE TEMPERATURE (DEG F)	152
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	88	SURFACE PRESSURE (PSIA)	387
BOTTOMHOLE PRESSURE (PSIA)	99.6	BOTTOMHOLE PRESSURE (PSIA)	456.0
<b><u>MV-Original</u></b>		<b><u>DK-Original</u></b>	
GAS GRAVITY	0.787	GAS GRAVITY	0.696
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.74	%N2	0.63
%CO2	0.5	%CO2	1.19
%H2S	0	%H2S	0
DIAMETER (IN)	5.5	DIAMETER (IN)	2.375
DEPTH (FT)	4552	DEPTH (FT)	6645
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	123	BOTTOMHOLE TEMPERATURE (DEG F)	152
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	1002	SURFACE PRESSURE (PSIA)	1972
BOTTOMHOLE PRESSURE (PSIA)	1170.0	BOTTOMHOLE PRESSURE (PSIA)	2408.9

## MESAVERDE

**Huerfanito Unit # 98  
Production Allocation**

**Gas**

*Mesaverde Cumulative Production	439.685 Mmcf	49%
*Dakota Cumulative Production	464.698 Mmcf	51%
Total:	904.38	100.0%

**Oil**

*Mesaverde Cumulative Production:	23.2 Bbls	67%
*Dakota Cumulative Production:	11.2 Bbls	33%
Total:	34.4	100.0%

\* Allocation Formula Basis: The fixed percentages are based on production from 01/67-01/80



**Huerfano #98 -- Commingle List**

**1/20/00**

MARIANNE WEILL LESTER  
W BENTON HARRISON III  
SAM KIRSCHENBAUM AND  
SIDNEY E LICHT  
RICHARD LORE ADMINISTRATOR CTA  
MARGARET JENSIS DECD  
ANNE ZACHAREK ESTATE  
MURRAY LANGFELDER  
LAWRENCE L LAVALLE  
MARY E GLENN  
MARIE HELENE WEILL  
NELLY WIHL  
SIDNEY E LICHT & MARTIN C  
NANCI L FOX  
WILLIAM V LICHT  
JOEL SCHONFELD EX  
JAMES E ANDERSON  
OFFICE OF THE COMPTROLLER  
IRIS GITTELMAN  
HELEN G PIENKOWSKI  
ROBERT M WILLIAMS  
JULIA EVETTS SIMPSON TRSTEE  
DANIEL D DUDEN  
ROBERT W DUDEN  
GUY A WEILL CUSTODIAN  
MAXINE S GRAHAM  
SIDNEY H DUNKEN  
JULIA B LILLY INDVDLY AND  
MARGARET DORIS MCCONNELL  
JACK LONDON JR  
RACHEL LYMAN  
MARY ANN HONEY  
ROSALINE WEISS IND EXEC  
CLINTON C BALLARD JR  
GARY W HARVEY INDEP EXEC  
RACHEL LYMAN AND  
KATHRYN D ASHBY  
LEE ETTA HEDBERG  
JAMES ROBERT MARTIN  
VIOLA I STEWART TRUST  
FREDERICK EUGENE TURNER  
J GLENN TURNER JR AND JGT ESTATE  
ELIZABETH JEANNE T CALLOWAY  
ELIZABETH T CALLOWAY  
J BURTON VETETO  
PAUL SLAYTON  
PATTI JO WOOD  
DEBBIE LEE SHOSS  
KATHRYN LEVINE ROMAN  
JIM L SHARP  
JOHN LEE TURNER  
MICHAEL FITZGERALD AND  
FOUR STAR OIL & GAS COMPANY  
WILLIAM G WEBB  
BETTY H JOHNSON  
ALBERT R GREER

GLENN R GENTLE DECD PERS REP  
BARBARA ANN BRUSS  
MINERALS MANAGEMENT SERVICE  
TERESA HOME  
LOIS J WILLARD  
WM M WESTERMAN PERSONAL REP  
THOMAS S SENTER  
CONOCO INC  
AMOCO PRODUCTION COMPANY  
MARALO LLC  
MELCONE CORPORATION  
JAMES M RAYMOND  
UNITED PIPE SUPPLY CO  
LA PLATA GATHERING SYSTEM INC  
CHASE BANK OF TEXAS NA  
B LIPSHY & D SHOSS CO-TRUSTEES  
CHASE BANK OF TEXAS NA TRUSTEE  
MONTEZ JOHNSON TRUSTEE  
CHASE BANK OF TEXAS NA TRSTEE  
BENSON MONTIN GREER  
ELLIOTT OIL COMPANY  
HANSON MCBRIDE PETROLEUM CO  
STATE OF NEW MEXICO  
JULIE ANN ANTWEIL TRUST  
HERB MARCHMAN PERS REP  
MCCONNELL TRUST  
UNION OIL CO OF CALIF  
CASSANDRA KEYSER  
MINERALS MANAGEMENT SERVICE  
JAMES M RAYMOND TRUSTEE  
JAMES M RAYMOND TRUSTEE OF  
SINGER BROS  
JULIE LEVINE MULLEN  
BARRON PROPERTIES LTD  
KENNETH E CARTER  
JAMES M FARLEY TRUSTEE  
ORBIE N LAMBRIGHT  
DONALD E WEBER  
CAROLINE DAVY WEBER  
JOAN R DUNCAN  
BEN R HOWARD  
GERALD FITZGERALD JR TRUSTEE  
EVELYN SMITH  
LOWE PARTNERS LP  
THE FASKEN FOUNDATION  
GEORGE GALERSTEIN TRUSTEE  
NATIONSBANK  
JON BRUSS TRUST  
PETER BRUSS TRUST  
SUNWEST BANK OF ALBUQUERQUE NA  
JO ANN SCHMIDT ESTATE  
JAMES R PAYNE & JEAN PAYNE  
EDWARD GRAPEL & PEARL GRAPEL  
NELLY LIDDEL CHARLES J LEAVE  
ANN HOME EMMERSON  
ROBERT E OLDER &  
TX COMM BK EL PASO NA  
JOHN R BRENNAND JR

ROSE MARION BERG DENNA ELY,  
LEE AYCOCK IND EXECUTRIX  
ROSE MARION BERG  
DENNA ELY  
SHELIA MARIE LEVINE TRUST  
ANNA LOU HOME TRUSTEE  
WHITE STAR ENERGY INC  
PATSY R CUMMINS  
DIANNA DICKEY  
JOHN DICKEY  
BRIAN DICKEY  
T H MCELVAIN OIL & GAS LTD  
NORWEST BANK TRUSTEE  
FRANK ANDREW FASKEN  
G R FASKEN  
CROSS TIMBERS OIL COMPANY  
HENRIETTA E SCHULTZ TRUSTEE  
STEVEN PRICE FASKEN REV TRUST  
LORIS MACOR TRTE/EXEC UWO E J  
SILVERADO OIL & GAS CORP  
WILLIAM E FRITZ  
ROBERT E FRITZ  
SHIRLEY A CLEVELAND  
CHASE BANK OF TEXAS NA TRSTEE  
EMILY BARTON  
CELESTE FASKEN & NORWEST BANK  
WALKER & KATHRYN DUFFIE  
ADELE ALCORN READ  
PEGGY ALCORN KIPP  
ELLIS RUDY LTD  
HUBERT D JOHNSON & ANNE M  
HUBERT D JOHNSON & ANNE M  
ELLIOTT INDUSTRIES  
ELLIOTT-HALL COMPANY  
MCCONNELL LTD CO  
KATHLEEN COLWILL  
HEDBERG FAMILY LTD PARTNERSHIP  
PAUL A BRENNAND SUCC TRUSTEE  
GEORGE H DIDLAKE & WILLIE  
BEVERLY D WHITEHEAD  
JFP INTERESTS A GENERAL PTSHP  
DOROTHY J BREWSTER  
PATSY J LAMBRIGHT REVOCABLE TRUST

KATHRYN A DUFFIE  
WILLIAM DENNIS SCHMIDT  
KENNETH ROBERT SCHMIDT