

DATE IN 6-30-04	SUSPENSE	ENGINEER Jones	LOGGED IN 7-1-04	TYPE DHC	APP NO. PSEM0418329122
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ABOVE THIS LINE FOR DIVISION USE ONLY

3297

**NEW MEXICO OIL CONSERVATION DIVISION**  
 - Engineering Bureau -  
 1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

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

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [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 - Simultaneous Dedication  
 NSL  NSP  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
  - [D] Other: Specify \_\_\_\_\_

2004 JUN 30 PM 12 57

- [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] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division.

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

<u>Frances Bond</u> Print or Type Name	<u>Frances Bond</u> Signature	<u>Regulatory Specialist</u> Title	<u>6-29-04</u> Date
		<u>fbond@br-inc.com</u> e-mail Address	

District I  
1625 N. French Drive, Hobbs, NM 88240

State of New Mexico  
Energy, Minerals and Natural Resources Department

Form C-107A  
Revised June 10, 2003

District II  
1301 W. Grand Avenue, Artesia, NM 88210

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, New Mexico 87505

APPLICATION TYPE  
 Single Well  
 Establish Pre-Approved Pools  
EXISTING WELLBORE  
 Yes  No

District III  
1000 Rio Brazos Road, Aztec, NM 87410

District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company LP P.O.Box 4289 Farmington, NM 87499  
Operator Address  
McClanahan 17E Unit I, Sec. 24, T28N, R10W San Juan  
Lease Well No. Unit Letter-Section-Township-Range County  
OGRID No: 14538 Property Code 18577 API No. 30-045-23750 Lease Type:  Federal  State  Fee

DHC-3297

DATA ELEMENT	UPPER ZONE ✓	INTERMEDIATE ZONE ✓	LOWER ZONE ✓
Pool Name	OTERO CHACRA	BLANCO MESAVERDE Pro	BASIN DAKOTA Pro
Pool Code	82329	72319	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	WILL BE SUPPLIED UPON COMPLETION	4309-4396'	6373-6453' Upper DK 6495-6505' Lower DK
Method of Production (Flowing or Artificial Lift)	NEW ZONE	ARTIFICIAL LIFT-PLUNGER	ARTIFICIAL LIFT-PLUNGER
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)	Original 613 psi from McClanahan #14E offset (see attachment)	Original - 937.6 Current - 212.6	Original - 691.6 Current - 206.4
Oil Gravity or Gas BTU (Degree API or Gas BTU)	BTU 1285	BTU 1319	BTU 1319
Producing, Shut-In or New Zone	NEW ZONE	PRODUCING	PRODUCING
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: N/A Rates: see attachment	Date: 05/31/04 Rates: 34 Mcf/d	Date: 05/31/04 Rates: 43 Mcf/d
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas Will be supplied upon completion	Oil Gas Will be supplied upon completion	Oil Gas Will be supplied upon completion

ADDITIONAL DATA

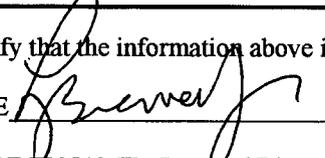
Are all working, royalty and overriding royalty interests identical in all commingled zones? Yes  No   
If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? Yes  No   
Are all produced fluids from all commingled zones compatible with each other? Yes  No   
Will commingling decrease the value of production? Yes  No   
If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? Yes  No   
NMOCD Reference Case No. applicable to this well: \_\_\_\_\_

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, royalty and overriding royalty interests for uncommon interest cases.  
Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools  
List of all operators within the proposed Pre-Approved Pools  
Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.  
Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.  
SIGNATURE  TITLE Engineer DATE 06/29/04  
TYPE OR PRINT NAME Leonard Biemer TELEPHONE NO. (505) 326-9700  
E-MAIL ADDRESS lbiemer@br-inc.com

**McClanahan #17E**  
**Bottom Hole Pressures**  
**Flowing and Static BHP**  
**Cullender and Smith Method**  
Version 1.0 1/14/98

<b>MESAVERDE</b>	<b>CHACRA</b>																																																
<p><b><u>MV-Current</u></b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>GAS GRAVITY</td><td style="text-align: right;">0.768</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right;">C</td></tr> <tr><td>%N2</td><td style="text-align: right;">0.00488</td></tr> <tr><td>%CO2</td><td style="text-align: right;">0.00782</td></tr> <tr><td>%H2S</td><td style="text-align: right;">0</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right;">1.5</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right;">4352</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right;">60</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right;">177.37</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right;">190</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border: 1px solid black;">212.6</td></tr> </table>	GAS GRAVITY	0.768	COND. OR MISC. (C/M)	C	%N2	0.00488	%CO2	0.00782	%H2S	0	DIAMETER (IN)	1.5	DEPTH (FT)	4352	SURFACE TEMPERATURE (DEG F)	60	BOTTOMHOLE TEMPERATURE (DEG F)	177.37	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	190	BOTTOMHOLE PRESSURE (PSIA)	212.6	<p><b><u>CH-Current</u></b> McClanahan #14E Offset</p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>GAS GRAVITY</td><td style="text-align: right;">0.749</td></tr> <tr><td>COND. OR MISC. (C/M)</td><td style="text-align: right;">C</td></tr> <tr><td>%N2</td><td style="text-align: right;">0.00</td></tr> <tr><td>%CO2</td><td style="text-align: right;">0.00974</td></tr> <tr><td>%H2S</td><td style="text-align: right;">0</td></tr> <tr><td>DIAMETER (IN)</td><td style="text-align: right;">5.5</td></tr> <tr><td>DEPTH (FT)</td><td style="text-align: right;">2878</td></tr> <tr><td>SURFACE TEMPERATURE (DEG F)</td><td style="text-align: right;">60</td></tr> <tr><td>BOTTOMHOLE TEMPERATURE (DEG F)</td><td style="text-align: right;">185</td></tr> <tr><td>FLOWRATE (MCFPD)</td><td style="text-align: right;">0</td></tr> <tr><td>SURFACE PRESSURE (PSIA)</td><td style="text-align: right;">180</td></tr> <tr><td>BOTTOMHOLE PRESSURE (PSIA)</td><td style="text-align: right; border: 1px solid black;">193.4</td></tr> </table>	GAS GRAVITY	0.749	COND. OR MISC. (C/M)	C	%N2	0.00	%CO2	0.00974	%H2S	0	DIAMETER (IN)	5.5	DEPTH (FT)	2878	SURFACE TEMPERATURE (DEG F)	60	BOTTOMHOLE TEMPERATURE (DEG F)	185	FLOWRATE (MCFPD)	0	SURFACE PRESSURE (PSIA)	180	BOTTOMHOLE PRESSURE (PSIA)	193.4
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**McClanahan #17E**  
**Bottom Hole Pressures**  
**Flowing and Static BHP**  
**Cullender and Smith Method**  
Version 1.0 1/14/98

<b>DAKOTA</b>			
<u><b>DK-Current</b></u>		<u><b>Current</b></u>	
GAS GRAVITY	<u>0.768</u>	GAS GRAVITY	<u>0</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.00488</u>	%N2	<u>0.00</u>
%CO2	<u>0.00782</u>	%CO2	<u>0</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>5.5</u>	DIAMETER (IN)	<u>0</u>
DEPTH (FT)	<u>6472</u>	DEPTH (FT)	<u>0</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>60</u>
BOTTOMHOLE TEMPERATURE (DEG F)	<u>211.07</u>	BOTTOMHOLE TEMPERATURE (DEG F)	<u>0</u>
FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>186</u>	SURFACE PRESSURE (PSIA)	<u>0</u>
BOTTOMHOLE PRESSURE (PSIA)	<input style="width: 50px;" type="text" value="218.8"/>	BOTTOMHOLE PRESSURE (PSIA)	<input style="width: 50px;" type="text" value="0.0"/>
<hr/>			
<u><b>DK-Original</b></u>		<u><b>Original</b></u>	
GAS GRAVITY	<u>0.7163</u>	GAS GRAVITY	<u>0</u>
COND. OR MISC. (C/M)	<u>C</u>	COND. OR MISC. (C/M)	<u>C</u>
%N2	<u>0.49</u>	%N2	<u>0.00</u>
%CO2	<u>1.1</u>	%CO2	<u>0</u>
%H2S	<u>0</u>	%H2S	<u>0</u>
DIAMETER (IN)	<u>2.065</u>	DIAMETER (IN)	<u>0</u>
DEPTH (FT)	<u>6472</u>	DEPTH (FT)	<u>0</u>
SURFACE TEMPERATURE (DEG F)	<u>60</u>	SURFACE TEMPERATURE (DEG F)	<u>0</u>
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FLOWRATE (MCFPD)	<u>0</u>	FLOWRATE (MCFPD)	<u>0</u>
SURFACE PRESSURE (PSIA)	<u>1041</u>	SURFACE PRESSURE (PSIA)	<u>0</u>
BOTTOMHOLE PRESSURE (PSIA)	<input style="width: 50px;" type="text" value="1235.4"/>	BOTTOMHOLE PRESSURE (PSIA)	<input style="width: 50px;" type="text" value="0.0"/>

### McClanahan #17E - SICP/Z Data

**Zone: Dakota**

Date	SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
4/30/1980	1005	3/1/2004	0.8983	1119	0	N/A	1119
9/15/1980	888	3/1/2004	0.9085	977	6.62	-21.35115	1119
8/31/1981	693	3/1/2004	0.9266	748	53.892	-6.881993	1119
6/8/1982	560	3/1/2004	0.9398	596	85.478	-6.117462	1119
7/24/1983	544	3/1/2004	0.9414	578	110.333	-4.902587	1119
9/10/1985	622	3/1/2004	0.9336	666	149.634	-3.024324	1119
9/27/1988	610	3/1/2004	0.9348	653	190.399	-2.44872	1119
10/2/1990	542	3/1/2004	0.9416	576	214.158	-2.536277	1119
7/4/1992	472	3/1/2004	0.9488	497	227.949	-2.725651	1119
???	132	N/A	1	132	390.77	-2.525219	1119
N/A	???	N/A	???	<b>132</b>	390.77	-2.525219	1119

Z-Factor = 0.95  
SICP (psig) = 125

**Zone: Mesaverde**

Date	SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
4/30/1980	940	3/1/2004	0.8833	1064	0	N/A	1064
9/30/1980	768	3/1/2004	0.9027	851	2.858	-74.67114	1064
8/31/1981	601	3/1/2004	0.9226	651	27.055	-15.25674	1064
6/8/1982	514	3/1/2004	0.9334	551	64.89	-7.913641	1064
5/1/1984	506	3/1/2004	0.9344	542	112.922	-4.628568	1064
1/14/1986	497	3/1/2004	0.9355	531	138.291	-3.853645	1064
???	128	N/A	1	128	296.38	-3.158753	1064
N/A	???	N/A	???	<b>128</b>	296.38	-3.158753	1064

Z-Factor = 0.92  
SICP (psig) = 118

**Zone: Chacra**

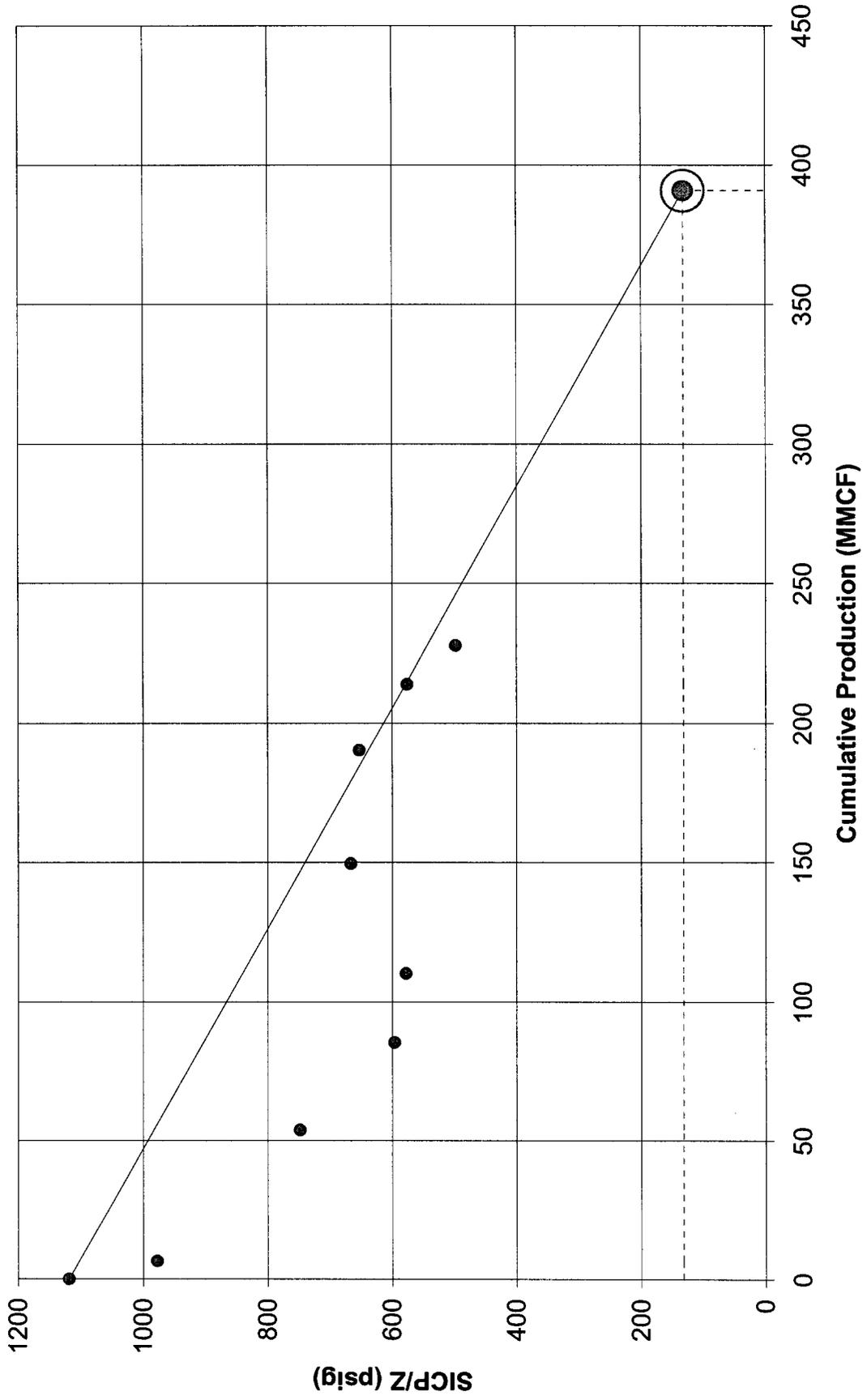
Date	SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
2/14/1990	953	3/1/2004	0.8931	1067	0	N/A	1067
???	102	N/A	1	102	300.4	-3.212616	1067
12/31/2002	???	N/A	???	<b>102</b>	300.4	-3.212616	1067

Z-Factor = 0.94  
SICP (psig) = 96

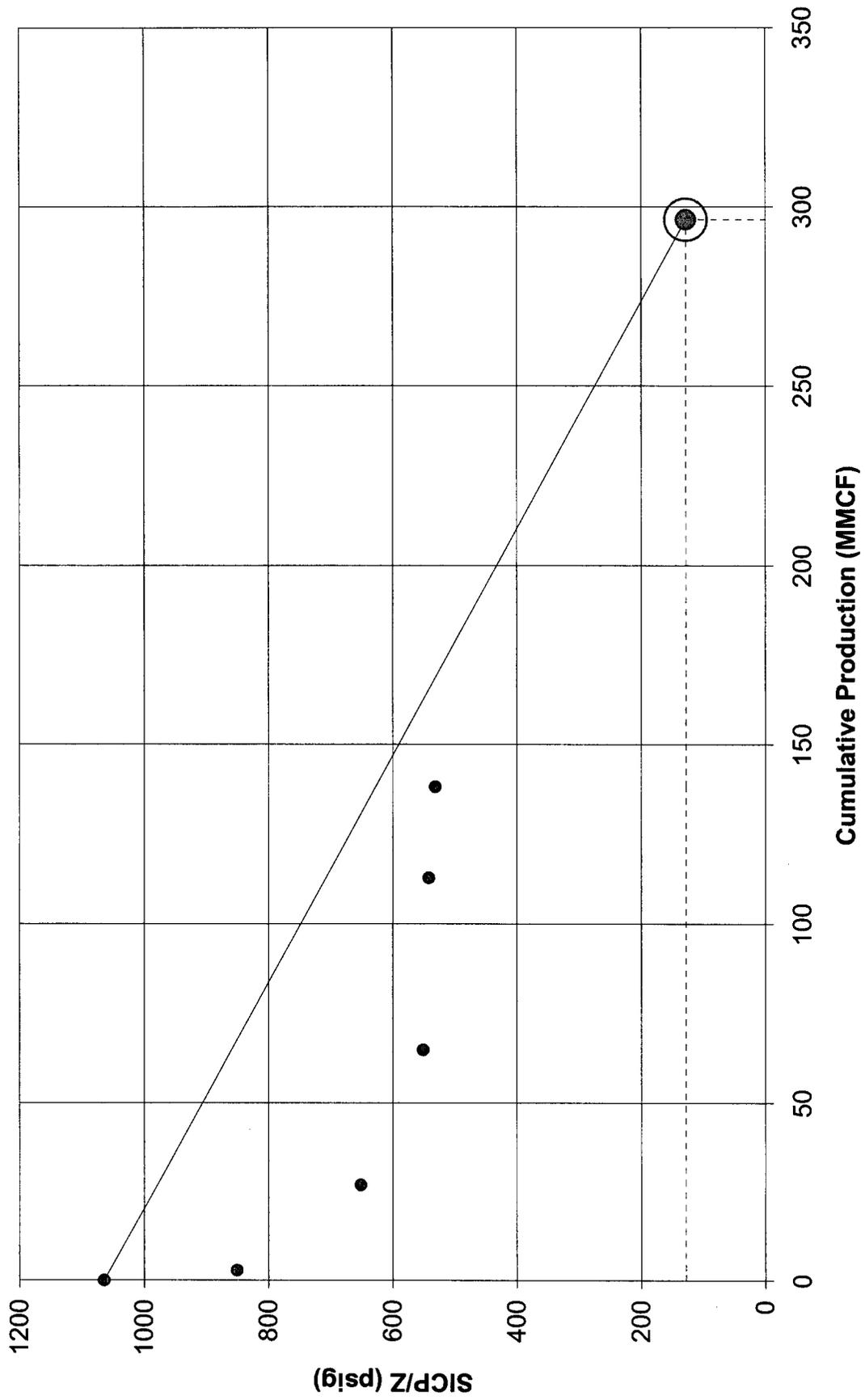
Offset Jicarilla 150 #1E Gallup

NOTE: THESE ARE ESTIMATES OF THE CURRENT RESERVOIR PRESSURE IN EACH ZONE. IT IS REALIZED THAT THE NEAR-WELLBORE PRESSURES FOR EACH ZONE SHOULD BE SIMILAR, DUE TO THEIR COMMINGLED STATUS.

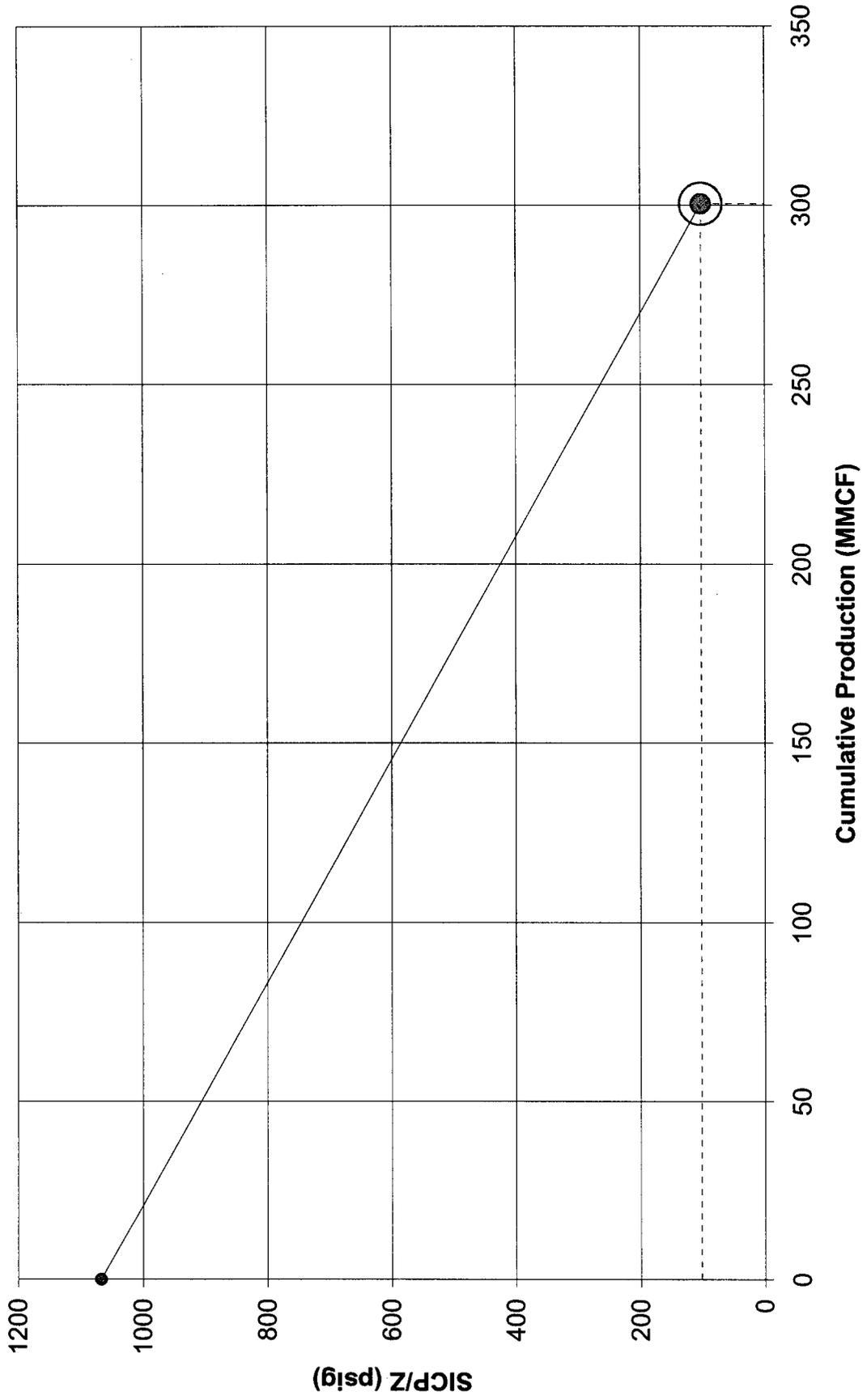
McClanahan #17E (DK)



# McClanahan #17E (MV)

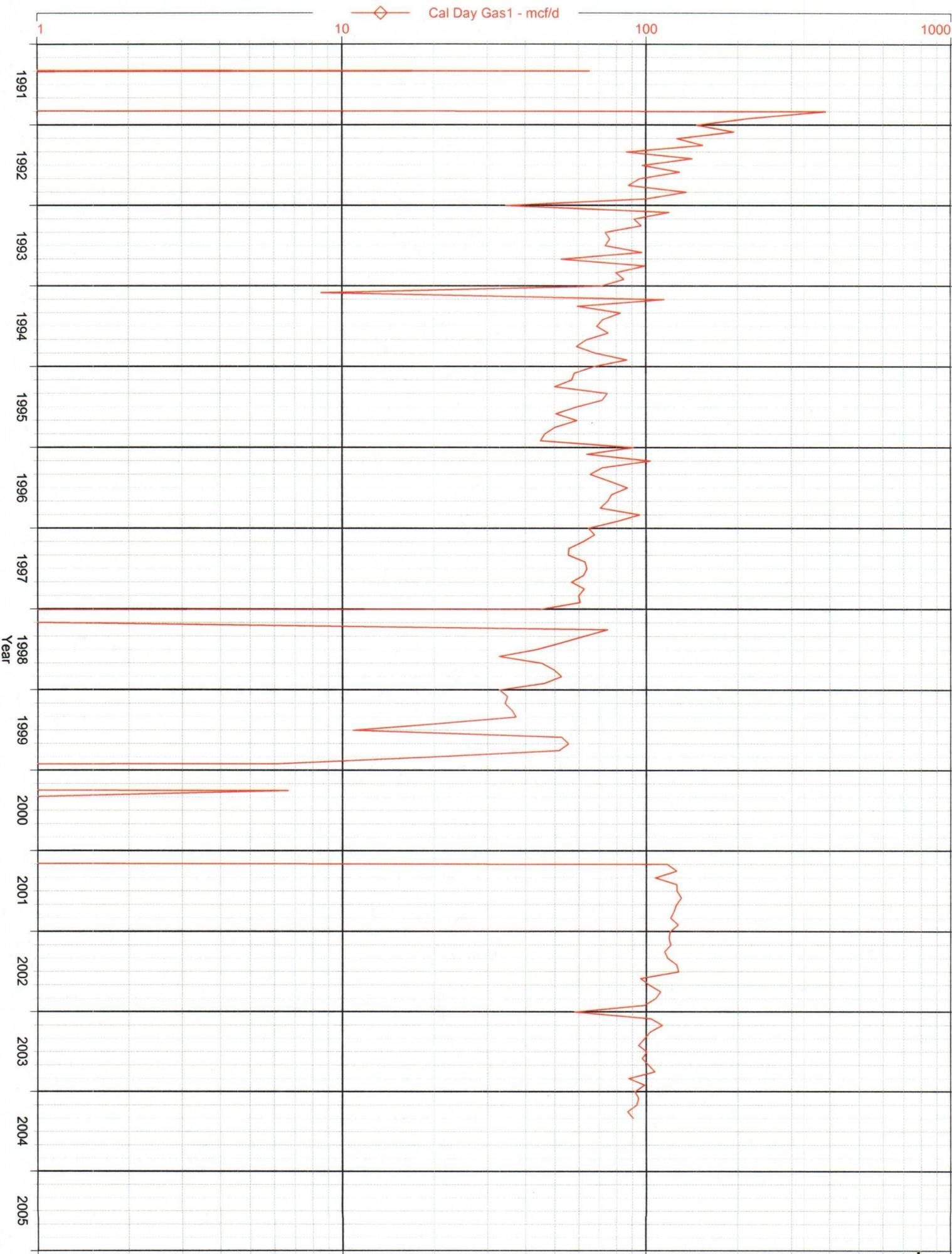


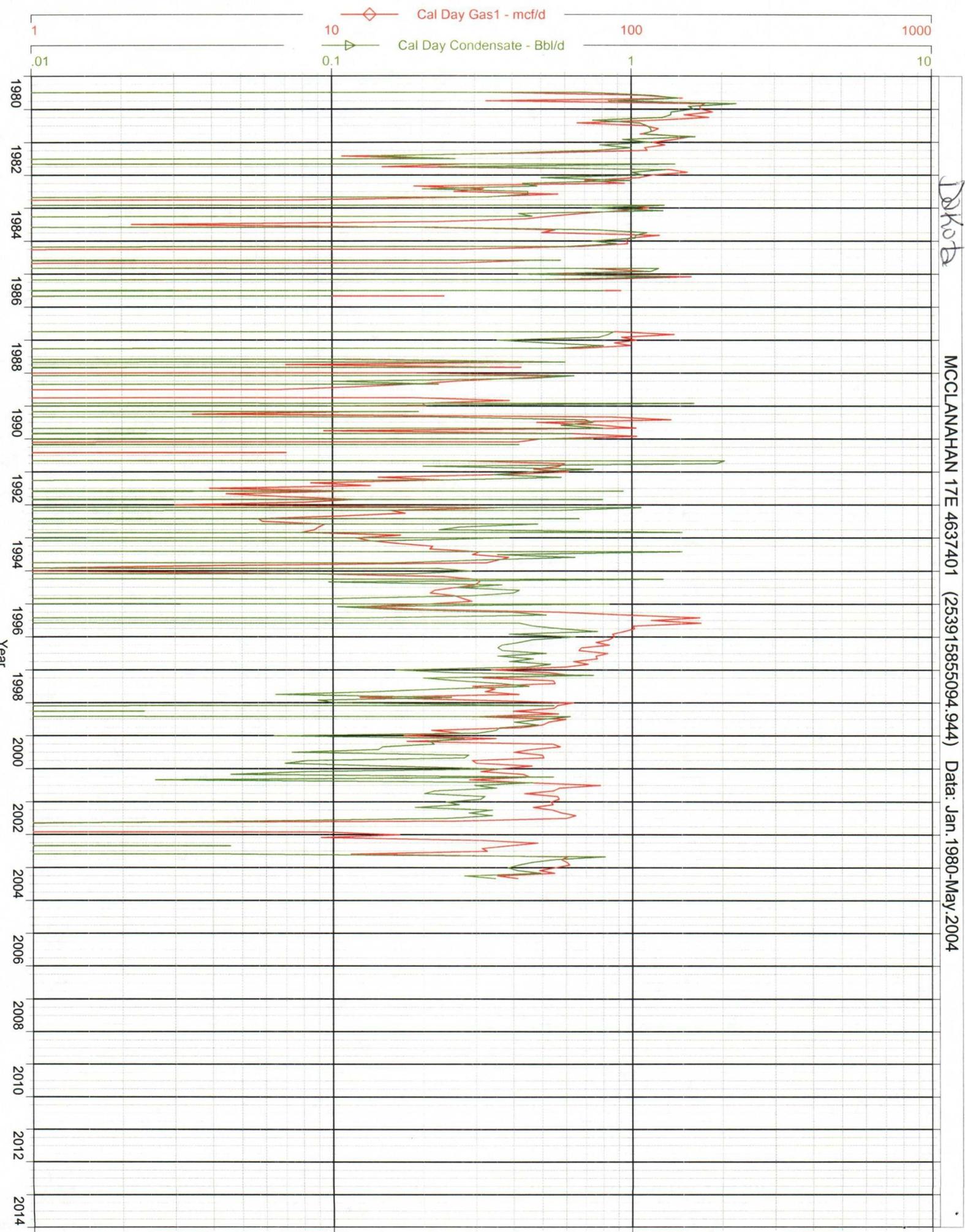
**McClanahan #17E (CH)**



Charca

MCCLANAHAN 14E 4637003 (295752659530.612) Data: Jan. 1991-May. 2004





DOKO B

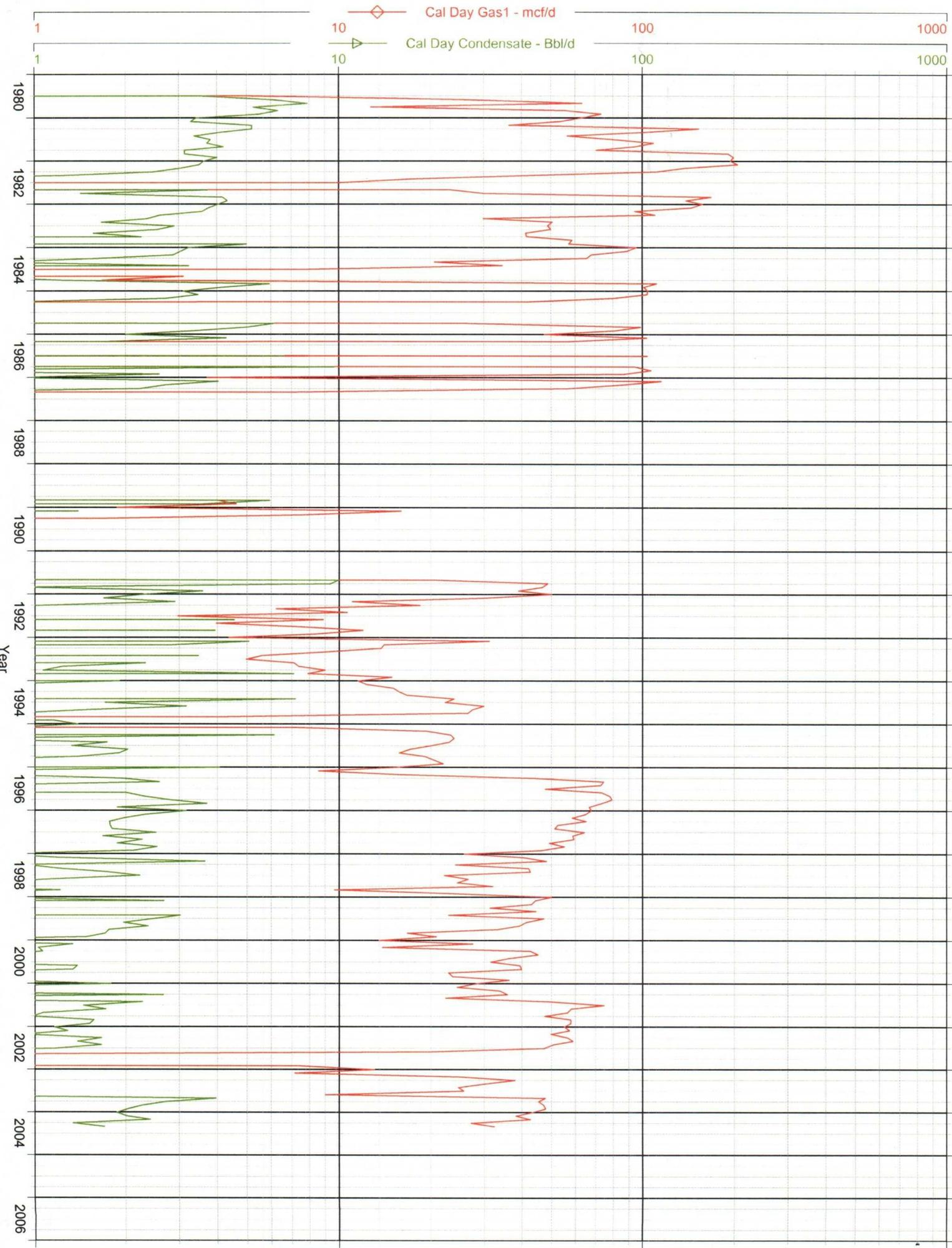
MCCLANAHAN 17E 4637401 (253915855094.944) Data: Jan. 1980-May. 2004

Mesa Verde

MCCLANAHAN 17E 4637402

(232562443480.649)

Data: Jan. 1980-May 2004



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

Supersedes C-1  
Effective 1-1-65

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

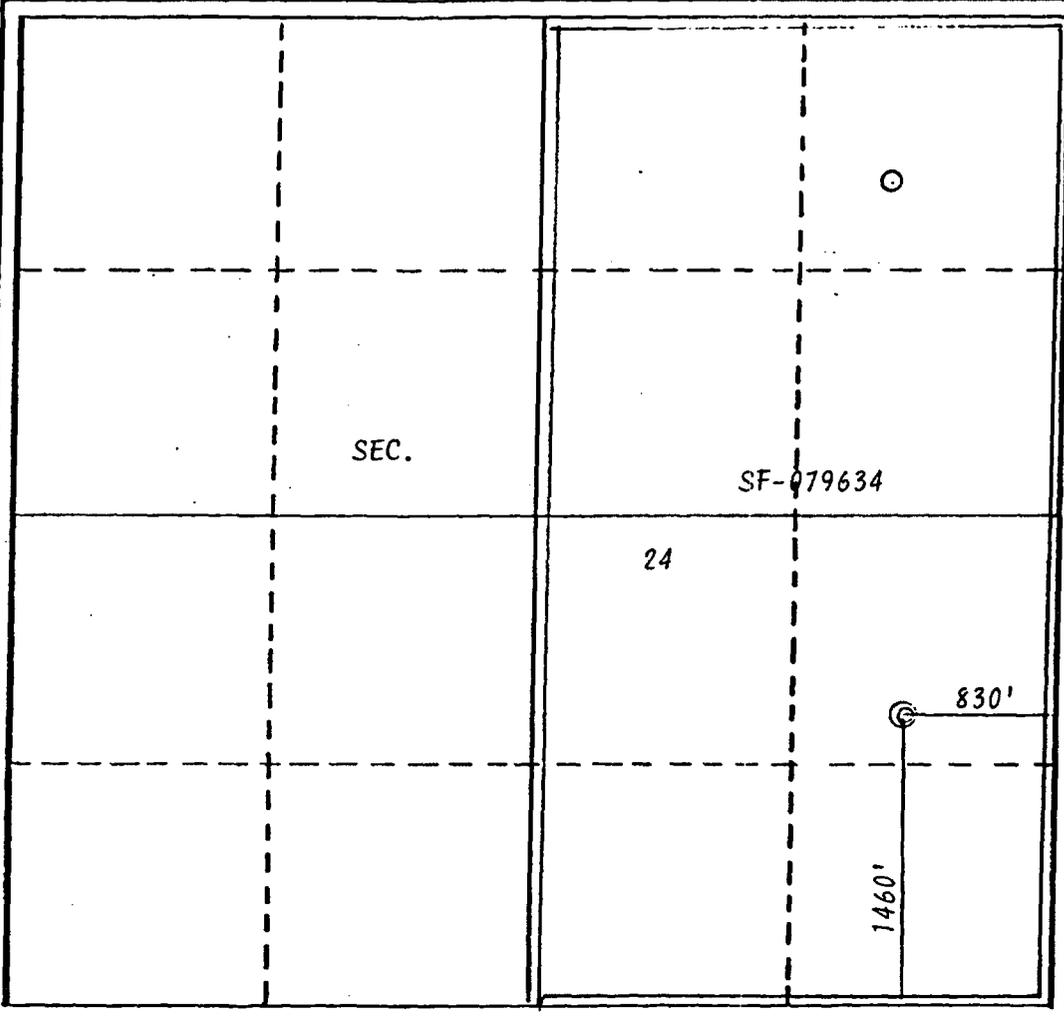
Operator <i>Southland Royalty Company</i>			Lease <i>McClanahan</i>		Well No. <i>17E</i>
Unit Letter <i>1</i>	Section <i>24</i>	Township <i>28N</i>	Range <i>10W</i>	County <i>San Juan</i>	
Actual Footage Location of Well: <i>1460'</i> feet from the <i>South</i> line and <i>830'</i> feet from the <i>East</i> line					
Ground Level Elev: <i>5883'</i>	Producing Formation <i>Dakota/Mesa Verde</i>		Pool <i>Basin Blanco Mesa Verde</i>	Dedicated Acreage: <i>320</i> 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 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.

*Curtis C. Parsons*  
 Name  
*Curtis C. Parsons*  
 Position  
*District Engineer*  
 Company  
*Southland Royalty Company*  
 Date  
*May 27, 1980*

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  
*August 2, 1979*  
 Registered Professional Engineer and/or Land Surveyor

*Fred B. Kerr, Jr.*

Certificate No.  
*3950*

