

ABOVE THIS LINE FOR DIVISION USE ONLY

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 _____

[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.

NANCY OLTMANNS
 Print or Type Name

Nancy Oltmanns
 Signature

Senior Staff Specialist 8-5-04
 Title Date

noltmanns@br-inc.com
 e-mail Address

2004 AUG 6 AM 10 53

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

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

District III
1000 Rio Brazos Road, Aztec, NM 87410

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

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-107A
Revised June 10, 2003

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

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company LP P.O.Box 4289 Farmington, NM 87499
Operator Address
THOMPSON 13 Unit F, Sec. 28, T31N, R12W San Juan
Lease Well No. Unit Letter-Section-Township-Range County
OGRID No: 14538 Property Code 18628 API No. 30-045-20509 Lease Type: ☒ Federal ☐ State ☐ Fee

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	FLORA VISTA FRUITLAND (GAS)		BASIN FRUITLAND COAL (GAS)
Pool Code	76600		71629
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	2273-2281'		WILL BE SUPPLIED UPON COMPLETION
Method of Production (Flowing or Artificial Lift)	FLOWING		NEW ZONE
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 - 808.4 Current - 127.5		Original 803.3 psi from EAST #17 offset (see attachment)
Oil Gravity or Gas BTU (Degree API or Gas BTU)	BTU 1094		BTU 1011
Producing, Shut-In or New Zone	PRODUCING		NEW ZONE
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: 4/31/02 Rates: 279 Mcf	Date: Rates:	Date: N/A Rates: N/A
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 % %	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 Cory McKee TITLE Engineer DATE 7/15/04
TYPE OR PRINT NAME Cory McKee TELEPHONE NO. (505) 326-9700
E-MAIL ADDRESS cmckee@br-inc.com

Thompson #13
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 1/14/98

Flora Vista		Fruitland Coal	
<u>FV-Current</u>		<u>FC-Current</u> East #17 Offset	
GAS GRAVITY	0.653	GAS GRAVITY	0
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.0039	%N2	0.00
%CO2	0.0262	%CO2	0
%H2S	0	%H2S	0
DIAMETER (IN)	4.5	DIAMETER (IN)	0
DEPTH (FT)	2277	DEPTH (FT)	0
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	0
BOTTOMHOLE TEMPERATURE (DEG F)	111.45	BOTTOMHOLE TEMPERATURE (DEG F)	0
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	121	SURFACE PRESSURE (PSIA)	0
BOTTOMHOLE PRESSURE (PSIA)	127.5	BOTTOMHOLE PRESSURE (PSIA)	#DIV/0!
<u>FV-Original</u>		<u>FC-Original</u> East #17 Offset	
GAS GRAVITY	0.672	GAS GRAVITY	0.655
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.0105	%N2	0.14
%CO2	0.0076	%CO2	0.125
%H2S	0	%H2S	0
DIAMETER (IN)	4.5	DIAMETER (IN)	2.375
DEPTH (FT)	2277	DEPTH (FT)	2428
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	111.45	BOTTOMHOLE TEMPERATURE (DEG F)	70.6
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	761	SURFACE PRESSURE (PSIA)	752
BOTTOMHOLE PRESSURE (PSIA)	808.4	BOTTOMHOLE PRESSURE (PSIA)	803.3

Thompson #13 - SICP/Z Data

Zone: Flora Vista Fruitland							
<u>Date</u>	<u>SICP (psig)</u>	<u>Chromatograph Used</u>	<u>Z-Factor</u>	<u>SICP/Z (psig)</u>	<u>Cum Qg (MMCF)</u>	<u>Slope</u>	<u>Y Intercept</u>
2/2/1983	761	6/10/2002	0.8973	848	0	N/A	848
1/11/1984	566	6/10/2002	0.9224	614	6.165	-38.03458	848
7/18/1984	493	6/10/2002	0.9321	529	12.371	-25.8012	848
???	121	N/A	1	121	40.094	-18.13488	848
						↓	↓
7/1/2004	???	N/A	???	121	40.094	-18.13488	848

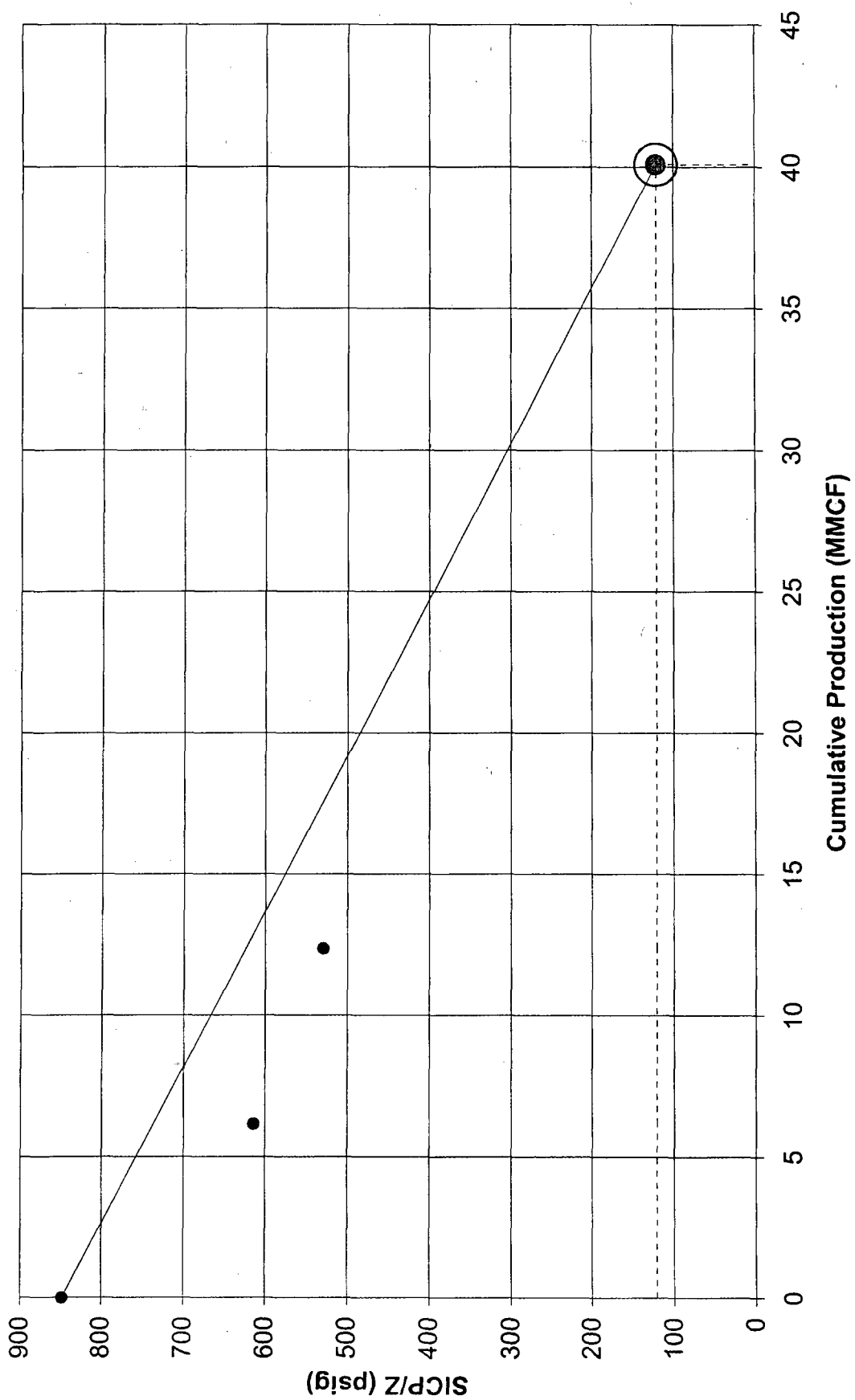
Z-Factor = 0.94
SICP (psig) = 114

Zone: Fruitland Coal							
<u>Date</u>	<u>SICP (psig)</u>	<u>Chromatograph Used</u>	<u>Z-Factor</u>	<u>SICP/Z (psig)</u>	<u>Cum Qg (MMCF)</u>	<u>Slope</u>	<u>Y Intercept</u>
5/29/1990	752	10/1/2002	0.8671	867	0	N/A	867
???	185	N/A	1	185	656.208	-1.039699	867
						↓	↓
7/1/2004	???	N/A	???	185	656.208	-1.039699	867

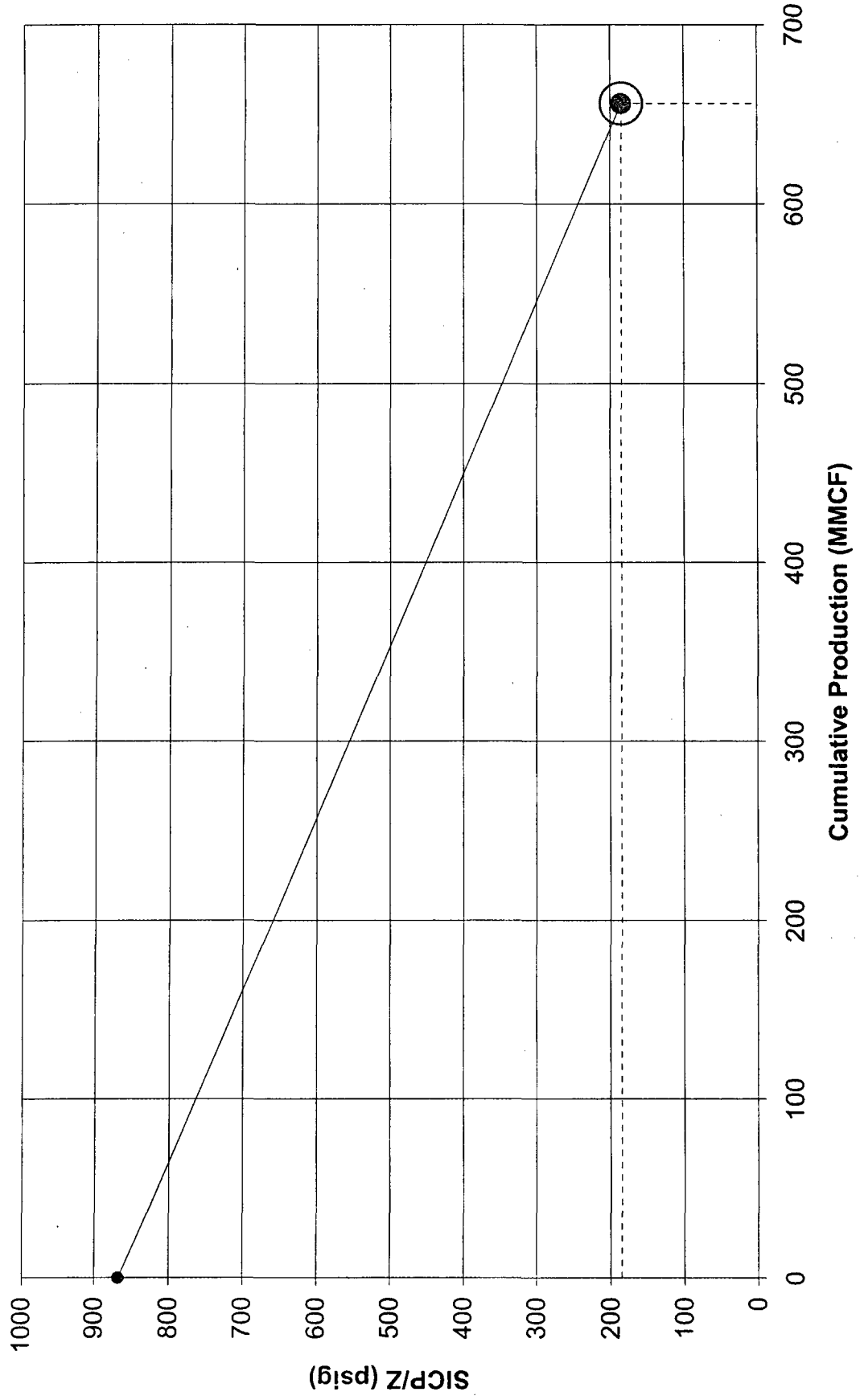
Z-Factor = 0.93
SICP (psig) = 172

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.

Thompson #13 (FV)

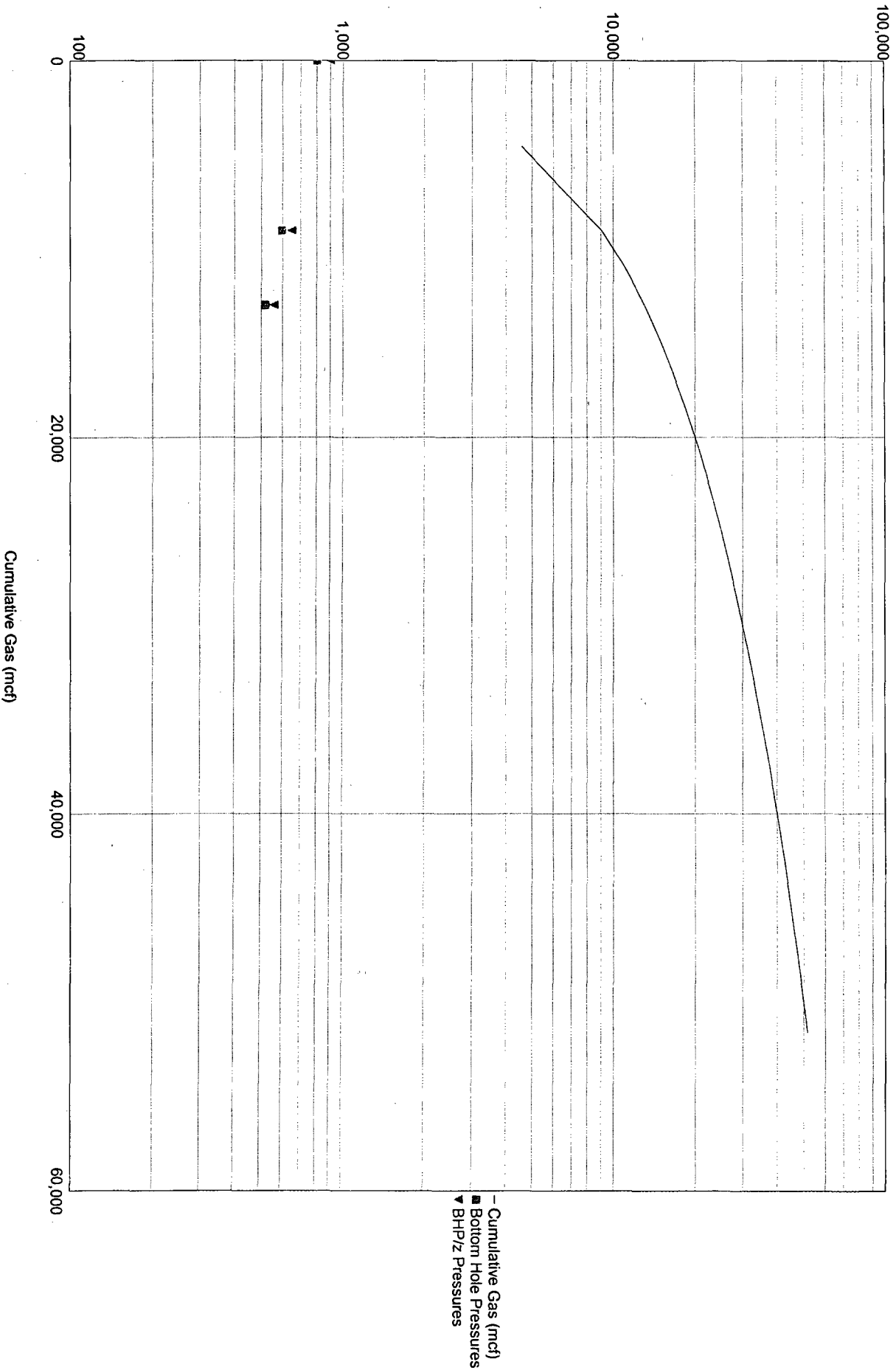


Thompson #13 (FC)



Lease Name: THOMPSON
County, State: SAN JUAN, NM
Operator: BURLINGTON RESOURCES O&G CO LP
Field: FLORA VISTA
Reservoir: FRUITLAND
Location: 28 31N 12W NW SE NW

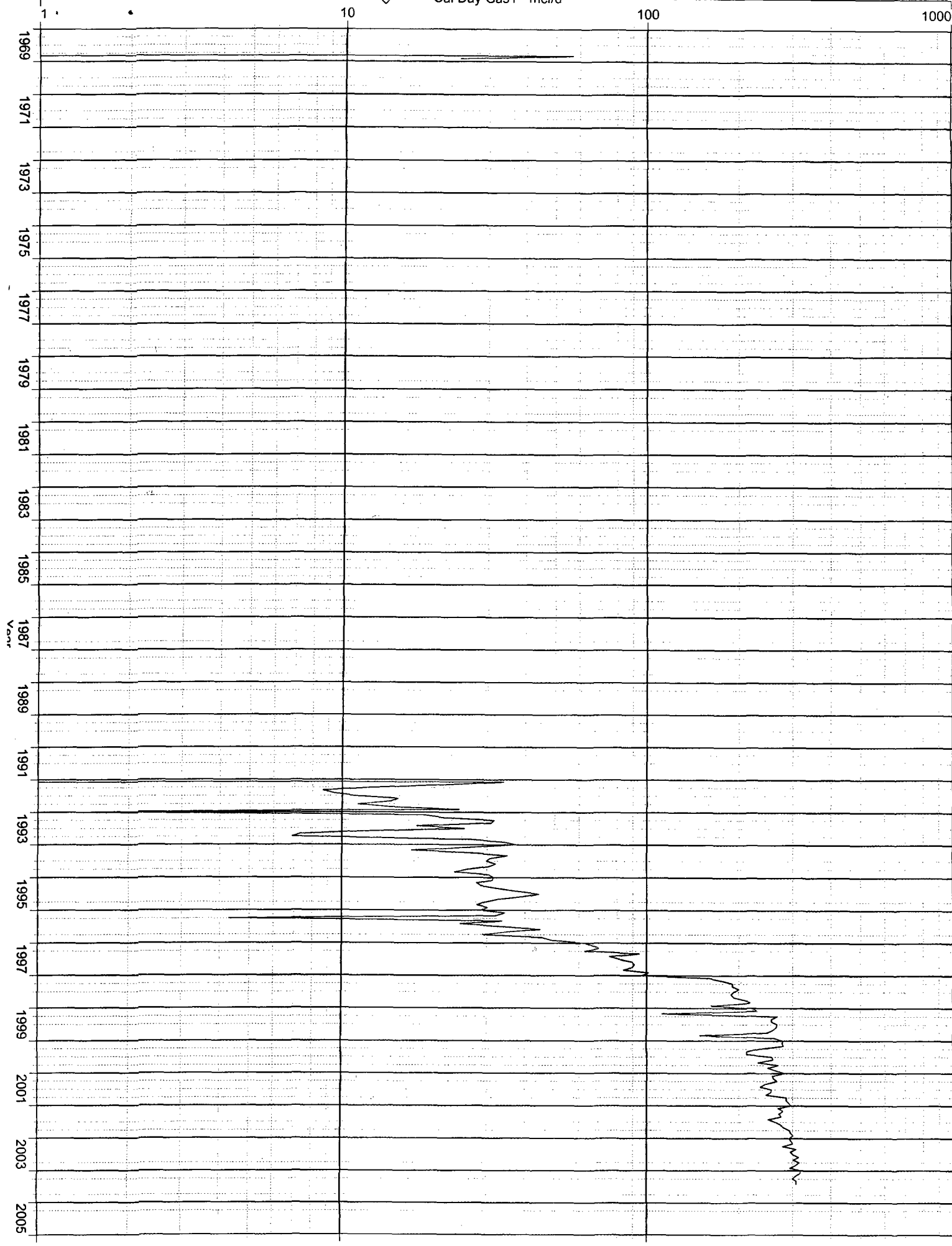
THOMPSON - FLORA VISTA



Fruitland Coal

EAST 17 1540802 (301641340345.613) Data: Jan. 1969-Jun. 2004

Cal Day Gas1 - mcf/d



**NEW 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 SOUTHLAND ROYALTY COMPANY			Lease Thompson		Well No. 13
Unit Letter F	Section 28	Township 31N	Range 12W	County San Juan	
Actual Footage Location of Well: <div style="display: flex; justify-content: space-between;"> 1800 feet from the North line and 1800 feet from the West line </div>					
Ground Level Elev: 6119' GR	Producing Formation Fruitland	Pool Undesignated FLORA UICJA		Dedicated Acreage: 160 Acres	

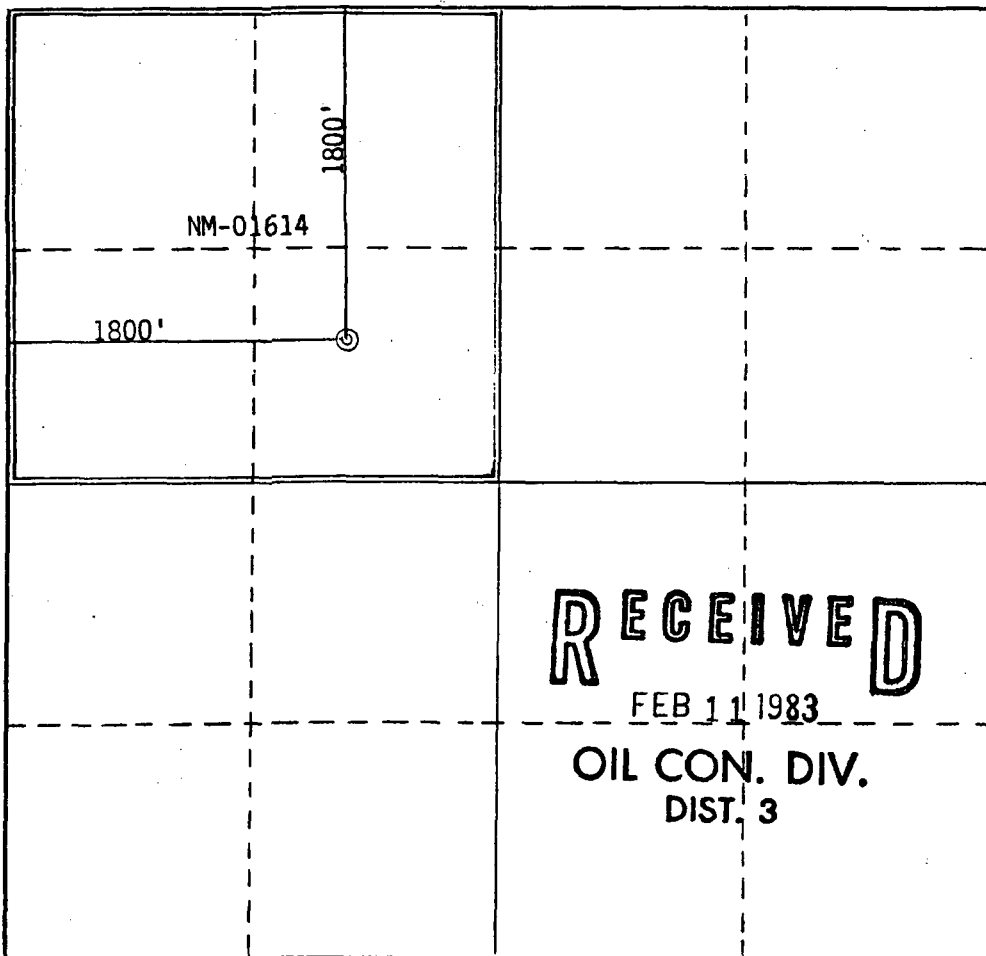
RECEIVED
FEB 18 1983
FARMINGTON DISTRICT

- Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
- 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.

R. E. Fielder

Name
R. E. Fielder
Position
District Engineer
Company
Southland Royalty Company
Date
February 3, 1983

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
Registered Professional Engineer and/or Land Surveyor

Certificate No. _____

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