

DATE IN 11/22/99	SUSPENSE 12/13/99	ENGINEER DC	LOGGED BY KN	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



2534

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

NOV 22 1999

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[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

EXISTING WELLBORE

YES ☒ NO

APPLICATION FOR DOWNHOLE COMMINGLING

Burlington Resources Oil & Gas Company

PO Box 4289, Farmington, NM 87499

Operator

Address

Jicarilla 150

4B

L 11-26N-05W

Rio Arriba

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 16344 API NO. 30-039-26212 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	Otero Chacra - 82329		Blanco Mesaverde - 72319
2. Top and Bottom of Pay Section (Perforations)	will be supplied upon completion		will be supplied upon completion
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: Gas & Oil - Flowing: All Gas Zones: Estimated Current Measured Current Estimated or Measured Original	(Current) a. 337 psi (see attachment)		a. 635 psi (see attachment)
	(Original) b. 873 psi (see attachment)		b. 1051 psi (see attachment)
6. Oil Gravity (API) or Gas BTU Content	BTU 1180		BTU 1247
7. Producing or Shut-In?	shut in		shut in
Production Marginal? (yes or no)	no		no
* If Shut-In and oil/gas/water rates of last production <small>Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data</small>	Date: n/a Rates:		Date: n/a Rates:
	Date: n/a Rates:		Date: n/a Rates:
* If Producing, give data and oil/gas/water of recent test (within 60 days)			
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Oil: % Gas: % will be supplied upon completion		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 ☐ 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 communized 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 *Dan Voecks* TITLE: Production Engineer DATE: 11/16/99TYPE OR PRINT NAME Dan Voecks

TELEPHONE NO. (505) 326-9700

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-26212		*Pool Code 82329/72319	*Pool Name Otero Chacra/Blanco Mesaverde
*Property Code 16344	*Property Name JICARILLA 150		*Well Number 4B
*GRID No. 14538	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		*Elevation 7129'

¹⁰ Surface Location


UL or lot no. L	Section 11	Township 26N	Range 5W	Lot Idn	Feet from the 1730	North/South line SOUTH	Feet from the 665	East/West line WEST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

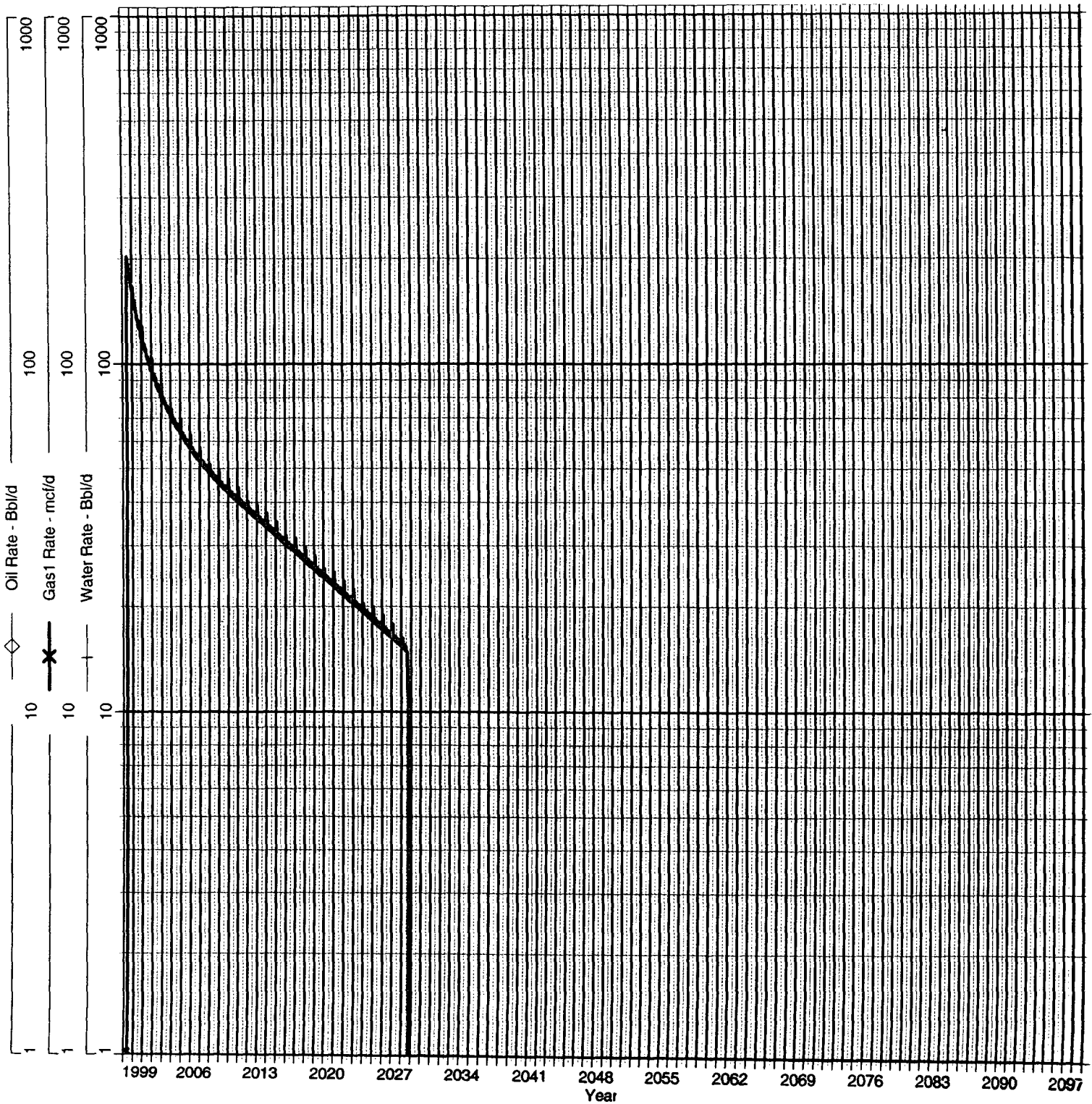
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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¹² Dedicated Acres Gha-160/MV-W/320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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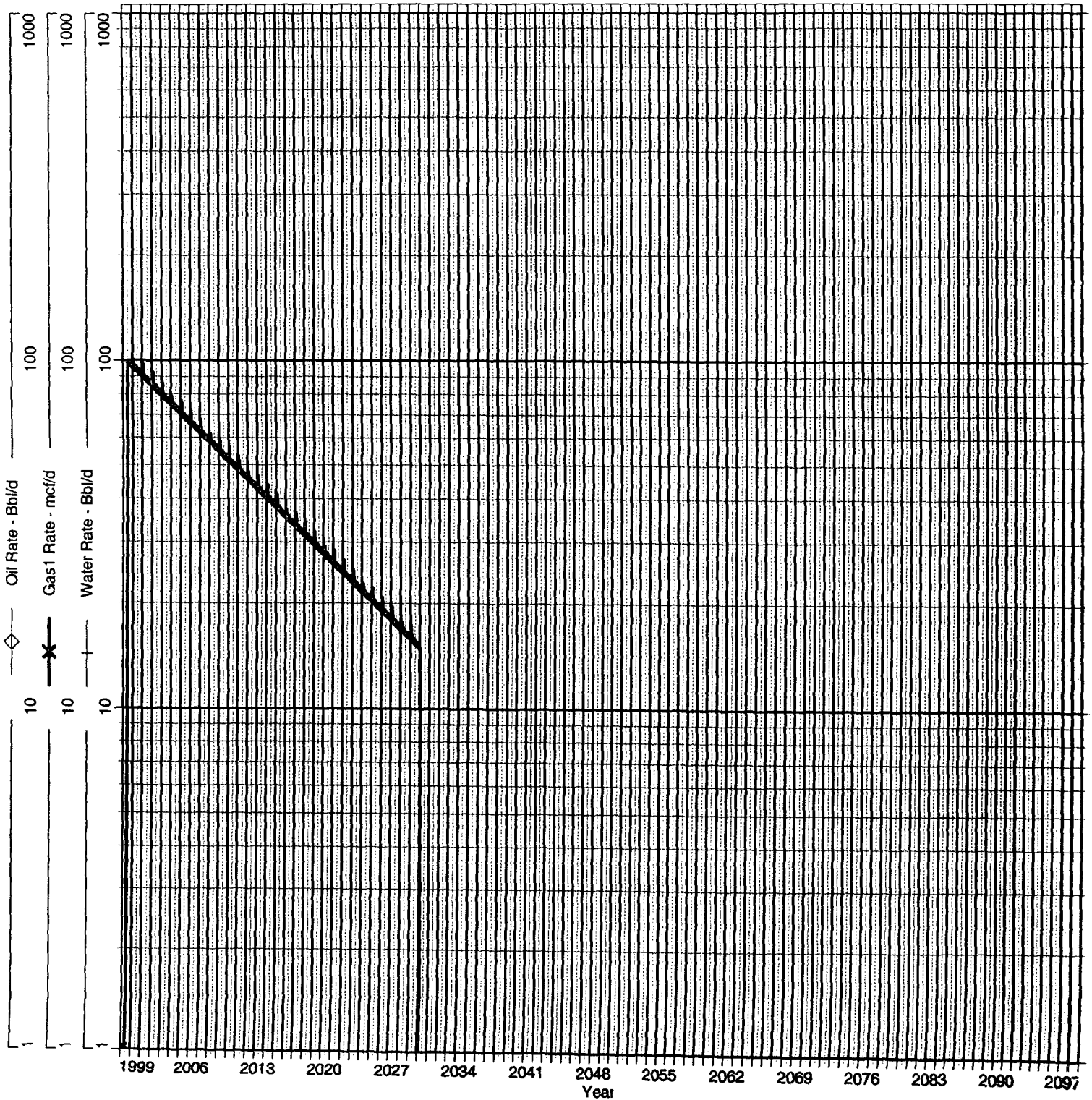
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 5280.00' 665' 1730' 5273.40'	JIC-150 11 5273.40'		¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature Peggy Cole Printed Name Regulatory Administrator Title 11-17-99 Date

JICARILLA 150 #4B
EXPECTED PRODUCTION
MESAVERDE FORMATION



JICARILLA 150 #4B
EXPECTED PRODUCTION
CHACRA FORMATION



Jicarilla 150 #4B
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method
Version 1.0 3/13/94

Chacra		Mesaverde	
<u>CH-Current</u>		<u>MV-Current</u>	
GAS GRAVITY	0.671	GAS GRAVITY	0.721
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.51	%N2	0.26
%CO2	0.26	%CO2	0.9
%H2S	0	%H2S	0
DIAMETER (IN)	1.25	DIAMETER (IN)	2
DEPTH (FT)	3276	DEPTH (FT)	5390
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	312	SURFACE PRESSURE (PSIA)	549
BOTTOMHOLE PRESSURE (PSIA)	337.2	BOTTOMHOLE PRESSURE (PSIA)	634.8
<u>CH-Original</u>		<u>MV-Original</u>	
GAS GRAVITY	0.671	GAS GRAVITY	0.721
COND. OR MISC. (C/M)	C	COND. OR MISC. (C/M)	C
%N2	0.51	%N2	0.26
%CO2	0.26	%CO2	0.9
%H2S	0	%H2S	0
DIAMETER (IN)	1.25	DIAMETER (IN)	2
DEPTH (FT)	3276	DEPTH (FT)	5390
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	137	BOTTOMHOLE TEMPERATURE (DEG F)	137
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	802	SURFACE PRESSURE (PSIA)	900
BOTTOMHOLE PRESSURE (PSIA)	872.6	BOTTOMHOLE PRESSURE (PSIA)	1051.2

JICARILLA 150 #4B
MESAVERDE OFFSET

<u>Well Name</u>	<u>Date</u>	<u>Pressure</u>
JICARILLA 150 4A	1/31/79	900
JICARILLA 150 4A	4/1/79	632
JICARILLA 150 4A	9/25/81	556
JICARILLA 150 4A	5/2/84	573
JICARILLA 150 4A	3/12/86	573
JICARILLA 150 4A	11/1/89	567
JICARILLA 150 4A	1/29/91	539
JICARILLA 150 4A	2/12/91	551
JICARILLA 150 4A	4/29/93	549

JICARILLA 150 #4B
CHACRA OFFSET

<u>Well Name</u>	<u>Date</u>	<u>Pressure</u>
VAUGHN 11	4/29/70	802
VAUGHN 11	4/14/71	469
VAUGHN 11	8/1/72	428
VAUGHN 11	8/28/73	406
VAUGHN 11	4/28/75	260
VAUGHN 11	3/1/93	312

JICARILLA 150 #4B

CHACRA / MESAVERDE

26N - 5W - 11L

