

DATE IN 10/6/00	SUSPENSE 10/26/00	ENGINEER DC	LOGGED KW	TYPE DHC
-----------------	-------------------	-------------	-----------	----------

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -

293 44 964

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]

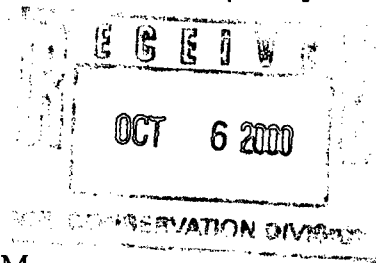
[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

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

Check One Only for [B] and [C]

[B] ☒ Commingling - Storage - Measurement
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** - 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

1625 N. French Dr., Hobbs, NM 88240

DISTRICT II

811 South First St., Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd, Aztec, NM 87410

DISTRICT IV

2040 S. Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco
Santa Fe, New Mexico 87505-6429

APPLICATION FOR DOWNHOLE COMMINGLING

Form C-107-A
Revised March 17, 1999

APPROVAL PROCESS:

☒ Administrative ☐ Hearing

EXISTING WELLBORE

☒ YES ☐ NO

BURLINGTON RESOURCES OIL & GAS COMPANY

PO Box 4289, Farmington, NM 87499

Operator

Address

Angel Peak B

37

A, Sec 24, T28N, R11W

San Juan

Lease

Well No.

Unit Ltr. - Sec - Twp - Rge

County

Spacing Unit Lease Types: (check 1 or more)

OGRID NO. 14538 Property Code 6788 API NO. 30-045-25654 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	Basin Fruitland Coal - 71629		Otero Chacra - 82329
2. Top and Bottom of Pay Section (Perforations)	1698' - 1868'		2879' - 2998'
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. 93 psia @ 1783' (Original) b. 156 psia @ 1783'	a. b.	a. 414 psia @ 1866' b. 872 psia @ 1866'
6. Oil Gravity (EAPI) or Gas BTU Content	1137 BTU		1155 BTU
7. Producing or Shut-In?	Producing		Producing
Production Marginal? (yes or no)	Yes		Yes
* If Shut-In, give 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: Rates:	Date: Rates:	Date: Rates:
* If Producing, give date and oil/gas/water rates of recent test (within 60 days)	Date: 07/31/00 Rates: 32 MCFD 0 BOD, 0 BWD	Date: Rates:	Date: 07/31/00 Rates: 17 MCFD, 0 BOD, 0 BWD
8. Fixed Percentage Allocation Formula - % for each zone (total of %'s to equal 100%)	Oil: Gas: Will supply for commingling	Oil: % Gas: %	Oil: Gas: Will supply for commingling

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
nco

TITLE Operations Engineer

DATE 10-04-00

TYPE OR PRINT NAME Joe A. Michetti

TELEPHONE NO. (505) 326-9700

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-80

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

*Hold C-102 for
Council #44
#38
(2)*

DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

DISTRICT II
P.O. Drawer DD, Artesia, NM 88210

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator Meridian Oil Inc.			Lease Angel Peak B			Well No. 37		
U.S. Letter A	Section 24	Township 28 North	Range 11 West	County San Juan		NM/PM		
Actual Footage Location of Well: 795 feet from the North line and 569 feet from the East line								
Ground level Elev. 5888'		Producing Formation Fruitland Coa/Chacra		Pool Basin/Otero		Dedicated Acreage: 320/160 Acres		

- Outline the acreage dedicated to the subject well by colored pencil or ballpoint marker 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 interest 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 interest, has been approved by the Division.

Not re-surveyed:
Prepared from plat;
Dated: Nov 9, 1982
By: Michael Daly

OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Peggy Bradfield
Signature

Peggy Bradfield

Printed Name

Regulatory Affairs

Position

Meridian Oil Inc.

Company

1-21-92

Date

SURVEYOR CERTIFICATION

I hereby certify that the well location on this plat was plotted from field not actual surveys made by me or under supervision, and that the same is true correct to the best of my knowledge and belief.

1-17-92
Date Surveyed C. EDW

Neal A. Edwards

Signature of Professional Surveyor

6857

Neal A. Edwards
Signature

6857

RECEIVED

JAN 22 1992

OIL CON. DIV.
DIST. I

ANGEL PEAK B 37 3245002 (292911239073.543) Data: Jan. 1987-Jul. 2000

Operator: BURLINGTON RESOURCES OIL GAS CO

Field: OTERO (CHACRA) GAS

Zone:

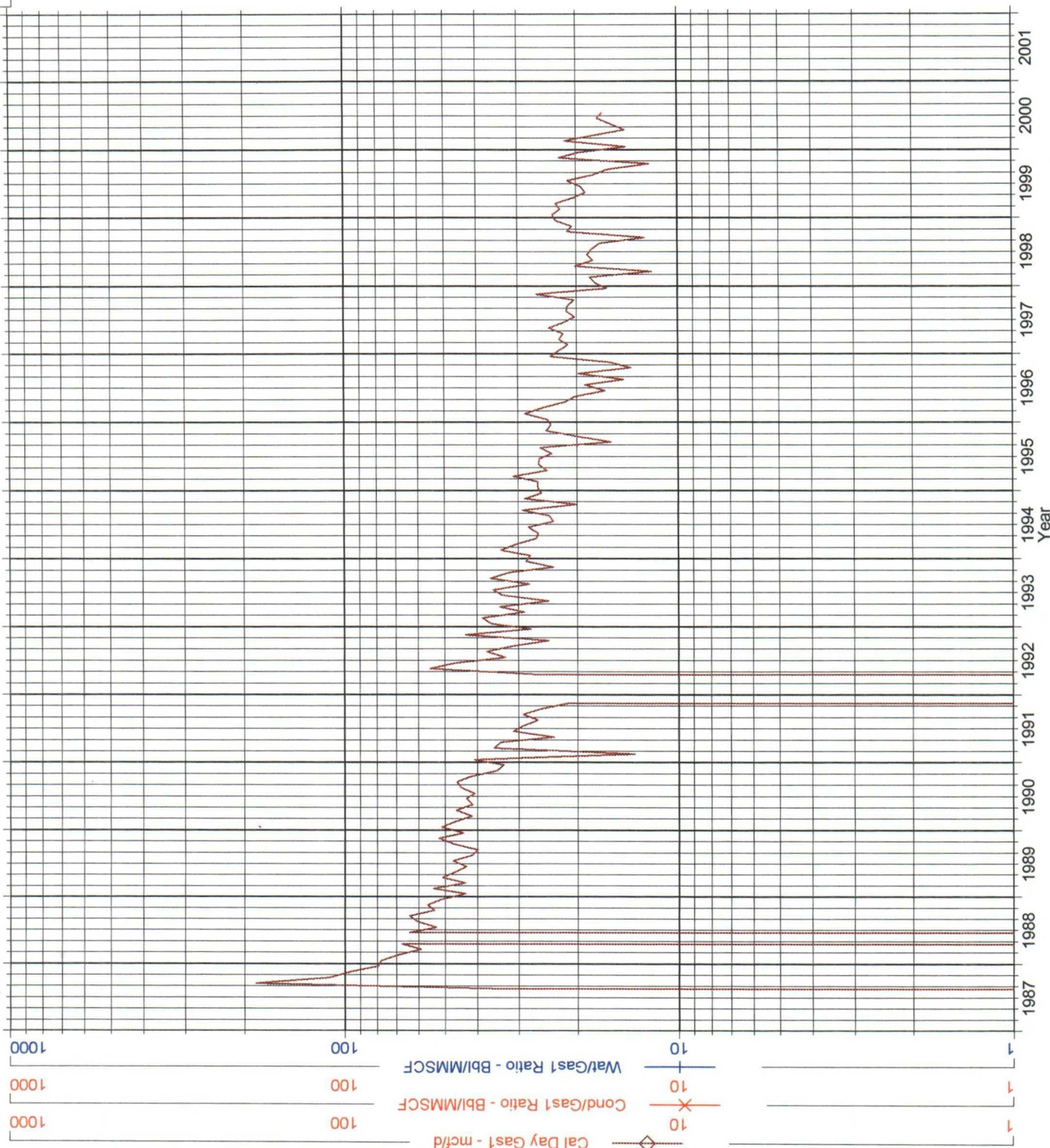
Type: Gas

Group: None

No
Active
Forecast

Production Cums
Oil: 0 MSTB
Gas: 150.749 MMSCF
Water: 0 MSTB
Cond: 0 MSTB

Cal Day Gas1 - mcf/d
Cum: 150.749 MMSCF
Cond/Gas1 Ratio - Bbl/MMSCF
Cum: 0 MSTB
Wat/Gas1 Ratio - Bbl/MMSCF
Cum: 0 MSTB



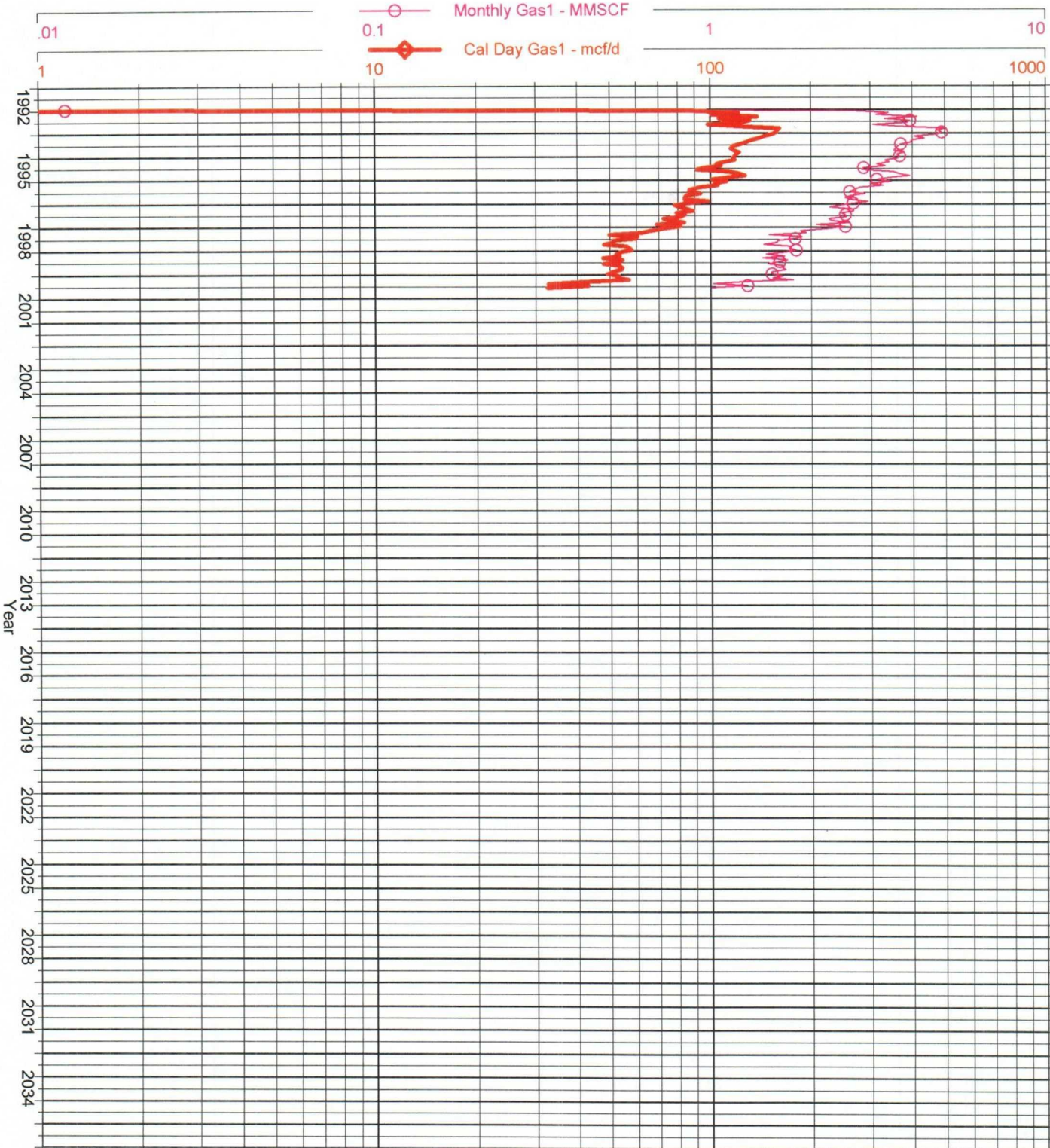
Operator: BURLINGTON RESOURCES OIL GAS CO
 Field: BASIN (FRUITLAND COAL)
 Zone:

Type: Gas
 Group: None

00PDP Gas1 (Rate-Time)
 qi: 2.18627 MMSCF, Jan, 1999
 qf: 0.300517 MMSCF, Jun, 2033
 d(Hyp): 9.43119 CTD: 245.279 MMSCF
 RR: 319.482 MMSCF Tot: 564.761 MMSCF

Production Cums
 Oil: 0 MSTB
 Gas: 245.279 MMSCF
 Water: 0 MSTB
 Cond: 0 MSTB

Monthly Gas1 - MMSCF
 Cum: 245.279 MMSCF
 Cal Day Gas1 - mcf/d
 Cum: 245.279 MMSCF



Angel Peak B 37
Bottom Hole Pressures
Flowing and Static BHP
Cullender and Smith Method

Version 1.0 3/13/94

Fruitland Coal		Chacra	
<u>FRC-Current</u>		<u>CH-Current</u>	
GAS GRAVITY	0.62	GAS GRAVITY	0.659
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.11	%N2	0.73
%CO2	0.55	%CO2	0.17
%H2S	0	%H2S	0
DIAMETER (IN)	6.366	DIAMETER (IN)	6.366
DEPTH (FT)	1783	DEPTH (FT)	2938
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	90	BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	89	SURFACE PRESSURE (PSIA)	386
BOTTOMHOLE PRESSURE (PSIA)	92.6	BOTTOMHOLE PRESSURE (PSIA)	414.5
<u>FRC-Original</u>		<u>CH-Original</u>	
GAS GRAVITY	0.62	GAS GRAVITY	0.659
COND. OR MISC. (C/M)	M	COND. OR MISC. (C/M)	M
%N2	0.11	%N2	0.73
%CO2	0.55	%CO2	0.17
%H2S	0	%H2S	0
DIAMETER (IN)	6.366	DIAMETER (IN)	6.366
DEPTH (FT)	1783	DEPTH (FT)	2938
SURFACE TEMPERATURE (DEG F)	60	SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	90	BOTTOMHOLE TEMPERATURE (DEG F)	110
FLOWRATE (MCFPD)	0	FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	150	SURFACE PRESSURE (PSIA)	807
BOTTOMHOLE PRESSURE (PSIA)	156.1	BOTTOMHOLE PRESSURE (PSIA)	871.6

STATE OF NEW MEXICO
ENERGY and MINERALS
DEPARTMENT

OIL CONSERVATION DIVISION

This form is not to
be used for reporting
packer leakage tests
in Southeast New Mexico

NORTHWEST NEW MEXICO PACKER-LEAKAGE TEST

Operator BURLINGTON RESOURCES OIL & GAS CO. Lease ANGEL PEAK B Well No. 37Location of Well: Unit A Sect 24 Twp. 028N Rge. 011W County SAN JUAN

	NAME OF RESERVOIR OR POOL	TYPE OF PROD. (Oil or Gas)	METHOD OF PROD. (Flow or Art. Lift)	PROD. MEDIUM (Tbg. or Csg.)
Upper Completion	FRUITLAND COAL	Gas	Flow	Tubing
Lower Completion	CHACRA	Gas	Flow	Tubing

PRE-FLOW SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	04/24/1999	120 Hours	77	
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
	04/24/1999	72 Hours	374	

FLOW TEST NO. 1

Commenced at (hour,date)*	04/27/1999	Zone producing (Upper or Lower)	LOWER
TIME (hour,date)	LAPSED TIME SINCE*	PRESSURE Upper Completion Lower Completion	PROD. ZONE TEMP REMARKS
4/28/199	96 Hours	77 64	turned on chacra
4/29/199	120 Hours	77 42	

Production rate during test

Oil: _____ BOPD based on _____ Bbls. in _____ Hours. _____ Grav. _____ GOR _____

Gas: _____ MCFPD; Tested thru (Orifice or Meter): _____

MID-TEST SHUT-IN PRESSURE DATA

Upper Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)
Lower Completion	Hour, date shut-in	Length of time shut-in	SI press. psig	Stabilized? (Yes or No)

(Continue on reverse side)

Cumulative Monthly Well Report

September 1999 -- September 2000

Select By : Completions
Sort By :

CHHORA

Page No : 1
Report Number : R_290
Last Update :
Print Date : 09/07/2000, 10:17:03

Completion	Date	Cur Oil	Cum Oil	Cur Gas	Cum Gas	Cur Wat	Cum Wat
ANGEL PEAK B 37	09/30/1999	0.00	0.00	484.00	6,234.00	0.00	0.00
	10/31/1999	0.00	0.00	375.00	6,609.00	0.00	0.00
	11/30/1999	0.00	0.00	674.00	7,283.00	0.00	0.00
	12/31/1999	0.00	0.00	610.00	7,893.00	0.00	0.00
	01/31/2000	0.00	0.00	440.00	8,333.00	0.00	0.00
	02/29/2000	0.00	0.00	625.00	8,958.00	0.00	0.00
	03/31/2000	0.00	0.00	551.00	9,509.00	0.00	0.00
	04/30/2000	0.00	0.00	428.00	9,937.00	0.00	0.00
	05/31/2000	0.00	0.00	488.00	10,425.00	0.00	0.00
	06/30/2000	0.00	0.00	518.00	10,943.00	0.00	0.00
	07/31/2000	0.00	0.00	518.00	11,461.00	0.00	0.00
	08/31/2000	0.00	0.00	0.00	11,461.00	0.00	0.00
	09/30/2000	0.00	0.00	0.00	11,461.00	0.00	0.00

Cumulative Monthly Well Report

September 1999 -- September 2000

Select By : Completions
Sort By :

PRC

Page No : 1
Report Number : R_290
Last Update :
Print Date : 09/07/2000, 10:42:03

Completion	Date	Cur Oil	Cum Oil	Cur Gas	Cum Gas	Cur Wat	Cum Wat
ANGEL PEAK B 37	09/30/1999	0.00	0.00	1,639.00	17,882.93	0.00	0.00
	10/31/1999	0.00	0.00	1,679.00	19,561.93	0.00	0.00
	11/30/1999	0.00	0.00	1,520.00	21,081.93	0.00	0.00
	12/31/1999	0.00	0.00	1,525.00	22,606.93	0.00	0.00
	01/31/2000	0.00	0.00	1,645.00	24,251.93	0.00	0.00
	02/29/2000	0.00	0.00	1,532.00	25,783.93	0.00	0.00
	03/31/2000	0.00	0.00	1,765.00	27,548.93	0.00	0.00
	04/30/2000	0.00	0.00	1,252.63	28,801.56	0.00	0.00
	05/31/2000	0.00	0.00	1,016.46	29,818.02	0.00	0.00
	06/30/2000	0.00	0.00	1,290.02	31,108.04	0.00	0.00
	07/31/2000	0.00	0.00	1,007.00	32,115.04	0.00	0.00
	08/31/2000	0.00	0.00	0.00	32,115.04	0.00	0.00
	09/30/2000	0.00	0.00	0.00	32,115.04	0.00	0.00

ANGEL PEAK B 37
Commingle List (10-2-00)

JACK MARKHAM
BUREAU OF LAND MANAGEMENT
DUGAN PRODUCTION CORPORATION
CONTINENTAL HOLDINGS INC
CHRISTMANN MINERAL CO
HERD PARTNERS LTD
DEVON ENERGY PRODUCTION CO LP