• [·	DATE IN 3/20/98	SUSPENSE /9/98	ENGINEER D	LOGGED M	TYPE DHC
_	<del></del>		· · · · · · · · · · · · · · · · · · ·	<u> </u>	

NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -ADMINISTRATIVE APPLICATION COVERSHEET THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS Application Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [PC-Pool Commingling] [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] MAR 2 () 1998 Location - Spacing Unit - Directional Drilling □ NSL □ NSP  $\Box$  SD OIL CONSERVATION DE Check One Only for [B] and [C] Commingling - Storage - Measurement □ OLM MDHC. ☐ CTB ☐ PLC ☐ PC U OLS Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ EOR □ WFX  $\square$  PMX [2] **NOTIFICATION REQUIRED TO: -** Check Those Which Apply, or  $\Box$  Does Not Apply ☐ Working, Royalty or Overriding Royalty Interest Owners [A] Offset Operators, Leaseholders or Surface Owner [B] Application is One Which Requires Published Legal Notice Notification and/or Concurrent Approval by BLM or SLO DI 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 interest (WI. to have the

Date

RI, ORRI) is common.		y knowledge and where applicable, verify that a ssion of data, information or notification is cause.	
Peggy Bradfield		leted by an individual with supervisory capacity.  Regulatory/Compliance Administrator	
Print or Type Name	Signature	Title	

State of New Mexico Energy, Minerals and Natural Resources Department

### **OIL CONSERVATION DIVISION**

2040 S. Pacheco Santa Fe, New Mexico 87505-6429 New 3-12-96

APPROVAL PROCESS:

\_X\_ Administrative \_\_\_Hearing

DISTRICT II 811 South First St., Artesia, NM 88210-2835

P.O. Box 1980, Hobbs, NM 88241-1980

**DISTRICT I** 

DISTRICT III
1000 Rio Brazos Rd, Aztec, NM 87410-1693

**Burlington Resources Oil and Gas** 

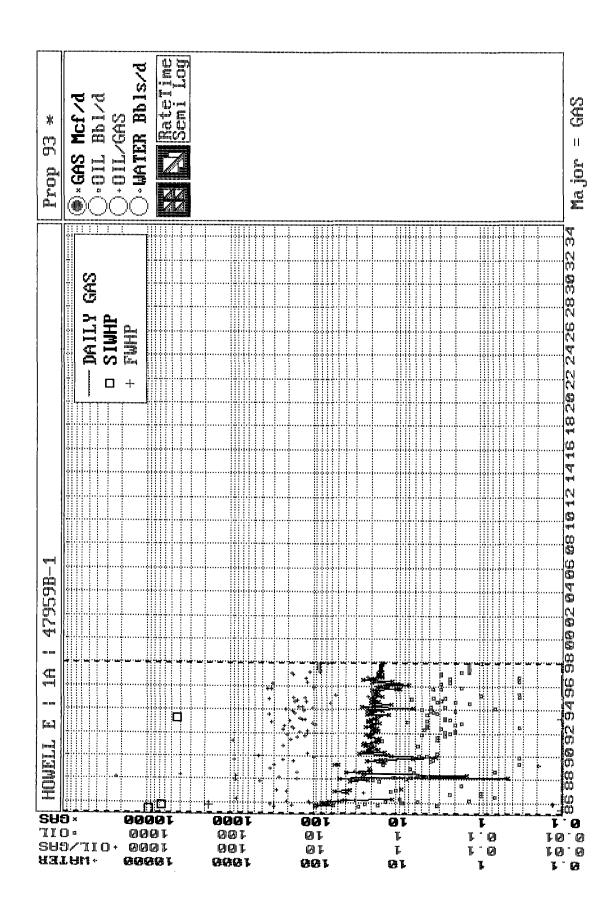
#### APPLICATION FOR DOWNHOLE COMMINGLING

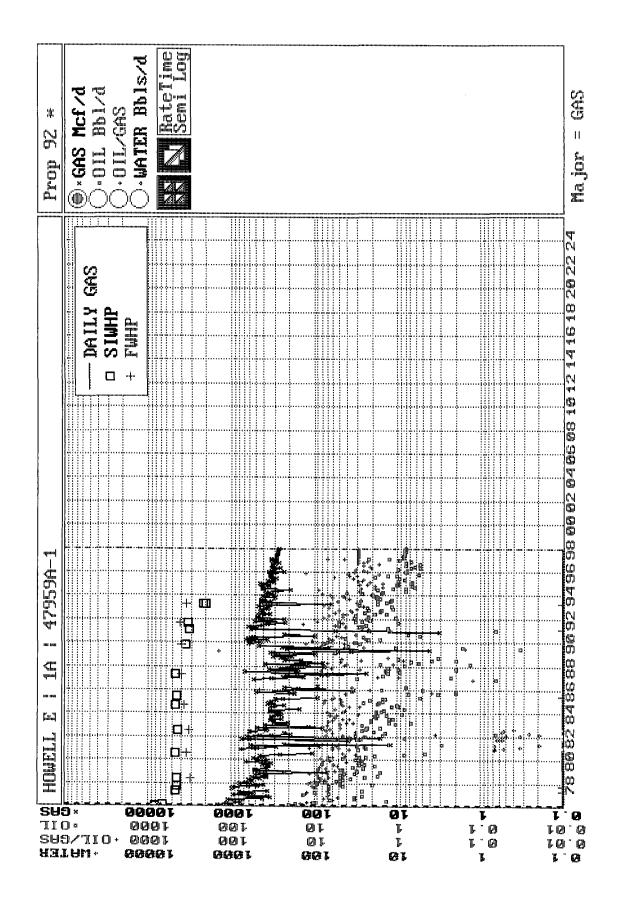
PO Box 4289, Farmington, NM 87499

EXISTING WELLBORE X\_YES \_\_NO

Howell E	#1A	D-29-30N-08W	S	an Juan
<del>0</del> 88 <del>0</del>	Well No.	Unit Ltr Sec - Twp - Rge		County
GRID NO14538 Property Code	7125	API NO30-045-21719		it Lease Types: (check 1 or more) _X , State, Fee
The following facts are submitted	Uppe	ur Inte	rmediate	lower
The following facts are submitted in support of downhole commingling:	7one		Zone	Lower 2. August
Pool Name and Pool Code	Pictured Cliffs – 7	72359		Mesa Verde - 72319
2. Top and Bottom of Pay Section (Perforations)	2569'-2636'			4167'-5138'
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	(Current) a. 497 psi (see attachment)		<u> </u>	a. 227 psi (see attachment)
Gas & Oil - Flowing:  Measured Current All Gas Zones: Estimated or Measured Original	(Original) b. 1127 psi (see attachment	<b>()</b>		b. 944 psi (see attachment)
6. Oil Gravity (°API) or Gas BTU Content	BTU 1149			BTU 1190
7. Producing or Shut-In?	Producing			Producing
Production Marginal? (yes or no)	Yes			No
* If Shut-In and oil/gas/water rates of last production	Date: N/A Rates:		<u> </u>	Date: N/A Rates:
Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data				
* If Producing, give data and oil/gas/water water of recent test (within 60 days)	Date: 3/98 Rates: 15 mcfd 0.0 bopd			Date: 3/98 Rates: 288mcfd 1.6 bopd
8. Fixed Percentage Allocation Formula -% for each zone (total of %'s to equal 100%)	Will be supplied upon	n completion.	· · · · · · · · · · · · · · · · · · ·	Will be supplied upon completion.
9. If allocation formula is based submit attachments with supp	l upon something	other than current or past	production, or is	based upon some other metho
10. Are all working, overriding, an If not, have all working, overri Have all offset operators beer				•
I1. Will cross-flow occur? _X_Y production be recovered, and				
2. Are all produced fluids from a				
3. Will the value of production be	=	• •	•	•
4. If this well is on, or communi Bureau of Land Management h	tized with, state o as been notified in	r federal lands, either the writing of this application.	Commissioner of F _XYes No	Public Lands or the United Stat
5. NMOCD Reference Cases for I				
6. ATTACHMENTS:  * C-102 for each zone  * Production curve for  * For zones with no p  * Data to support allo  * Notification list of a  * Notification list af a  * Any additional state	e to be commingled reach zone for at roduction history, ocation method or f Il offset operators. orking, overriding ements, data, or do	I showing its spacing unit ar least one year. (If not avails estimated production rates ormula. , and royalty interests for ur cuments required to suppo	nd acreage dedica able, attach explan and supporting da ncommon interest rt commingling.	tion. ation.) ta. cases.
hereby certify that the infor				
# 11 to the first term of the	•			To a second seco
BIGNATURE Mary Eller	weg-	TITLE_Production Eng	ineer_DATE	_3/19/98
TYPE OR PRINT NAME	_Mary Ellen Lute	yTELEPHONE	NO. ( _505_ )	326-9700

All distances must be from the outer boundaries of the Section. EL PASO NATURAL GAS COMPARY HOMELL (RM-012708) 1AUnit Letter Section Township Hange County 30-N 8-W MAUL MAR Actual Footage Location of Well: NORTH MEST feet from the Producing Formation Pi Dedicated Acresses 134.88 Ground Level Elev. c.Cliffs Pool Cliffs 5665 MESA VERDÊ 281,24 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? 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, climinating such interests, has been approved by the Commission. CERTIFICATION Note: Plat reissued to I hereby certify that the information conshow addition tained herein is true and complete to the of PC Formation best of my knowledge and belief. 4-11-85 Drilling Clerk Position El Paso Natural Gas Co NM-012708 April 12, 1985 I hereby certify that the well location RECEIVED shown on this plat was plotted from field notes of actual surveys made by me or APR 1 5 1985 under my supervision, and that the same is true and currect to the best of my BUREAU OF LAND MANAGEMENT knowledge and belief. Drate Surveyed JANUARY 7, 1975 Hegistere: Fictorsional Engineer anazer Land Surveyor





FARMINGTON 1998 MONTHLY PRODUCTION FOR 47959A

PHS030M1

HOWELL E 1A

BLANCO MESAVERDE (PRORATED GAS FIELD MESAVERDE ZONE

DAYS =====	OIL =====	======	===== G	ias =				-
MO T S ON PC	PROD GRV	PC					WATER PROD	C
1 2 F 31 02	51 + <b>3</b> 1	01	8920 81	31	1190 1	15.025		
2	731		- 81					
3	110		200	414-				
4	0		000					
5								
6								
7								
8								
9								
10								
11								
12								

PF6 - RETURNS TO ANNUAL DISPLAY

PF10 - HELP INFORMATION

00/00/00 00:00:00:0 PRS 03/04/98

PF3 - TRANSFER TO UPDATE

PF9 - DISPLAY MONTHLY INJECTION

### FARMINGTON 1998 MONTHLY PRODUCTION FOR 47959B

PHS030M1

HOWELL E 1A

BLANCO PICTURED CLIFFS (GAS) FIELD PICTURED CLIFFS ZONE

	DAYS		OIL ===			======	GAS		======		•
MO T S	ON	PC	PROD	GRV	PC	PROD	ON	BTU	PRESS	WATER PR	ROD C
1 2 F	31	02			01		31	1149	15.025		2
2						7 3)					
3						15					
4						10					
5											
6											
/											
8											
9											
10											
11											
12											

PF6 - RETURNS TO ANNUAL DISPLAY

PF10 - HELP INFORMATION

00/00/00 00:00:00:0 PRS 03/04/98

PF3 - TRANSFER TO UPDATE

PF9 - DISPLAY MONTHLY INJECTION

Page No.: 8
Print Time: Thu Jun 26 08:09:44 1997
Property ID: 5823
Property Name: HOWELL E | 1A | 47959B-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

DATE	CUM_OIL-	CUM_GAS	M_SIW <u>HP</u>
	Bbl	Mcf	Psi
06/17/85		0	964.0
10/15/85		7450	666.0
03/22/93		60234	432.0

VERSION 1.0 3/13/94

GAS GRAVITY	0.7
COND. OR MISC. (C/M)	C
%N2	0.29
%CO2	0.49
%H2S	0
DIAMETER (IN)	1.6
DEPTH (FT)	5378
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	115
	0
SURFACE PRESSURE (PSIA)	964
BOTTOMHOLE PRESSURE (PSIA)	1127.3
DOTTOMINOLET NEGOCINE (FOIA)	1127.5

HOWELL E #1A PICTURED CLIFFS - (ORIGINAL)

VERSION 1.0 3/13/94

GAS GRAVITY	0.7
COND. OR MISC. (C/M)	С
%N2	0.29
%CO2	0.49
%H2S	0
DIAMETER (IN)	1.6
DEPTH (FT)	5378
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	115
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	432
BOTTOMHOLE PRESSURE (PSIA)	497.1

HOWELL E #1A PICTURED CLIFFS - (CURRENT)

Page No.: 7
Print Time: Thu Jun 26 08:09:42 1997
Property ID: 2933
Property Name: HOWELL E | 1A | 47959A-1
Table Name: K:\ARIES\RR98PDP\TEST.DBF

<u>DATE</u>	CUM_OIL-	<u>CU</u> M_G <u>AS</u>	
	Bbl	Mcf	Psi
11/19/75		0	825.0
12/03/75		0	826.0
01/27/76		53690	672.0
04/11/77		363578	473.0
10/12/77		452836	463.0
05/25/78		578474	454.0
07/11/80		901742	469.0
07/19/82		1118186	444.0
09/04/84		1334240	474.0
06/24/85		1416271	455.0
04/03/87		1499914	464.0
10/07/89		1687461	357.0
02/18/91		1854040	320.0
08/27/91		1935485	332.0
03/29/93		2171597	213.0
04/23/93		2180208	201.0

VERSION 1.0 3/13/94

GAS GRAVITY	0.69
COND. OR MISC. (C/M)	C
%N2	0.21
%CO2	0.99
%H2S	0
DIAMETER (IN)	1.9
DEPTH (FT)	5119
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	155
FLOWRATE (MCFPD)	0
SURFACE PRESSURE (PSIA)	825
BOTTOMHOLE PRESSURE (PSIA)	943.6

HOWELL E #1A MESA VERDE - (ORIGINAL)

VERSION 1.0 3/13/94

GAS GRAVITY	0.7
COND. OR MISC. (C/M)	C
%N2	0.21
%CO2	0.99
%H2S	0
DIAMETER (IN)	1.9
DEPTH (FT)	5119
SURFACE TEMPERATURE (DEG F)	60
BOTTOMHOLE TEMPERATURE (DEG F)	155
FLOWRATE (MCFPD)	
SURFACE PRESSURE (PSIA)	201
BOTTOMHOLE PRESSURE (PSIA)	227.2

HOWELL E #1A MESA VERDE - (CURRENT)

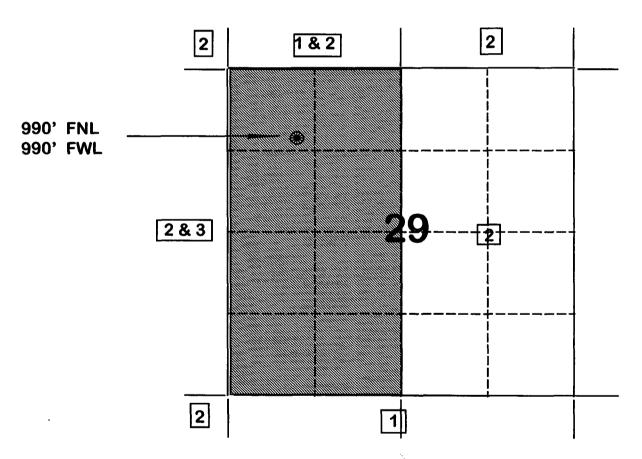
#### **BURLINGTON RESOURCES OIL AND GAS COMPANY**

#### Howell E #1A

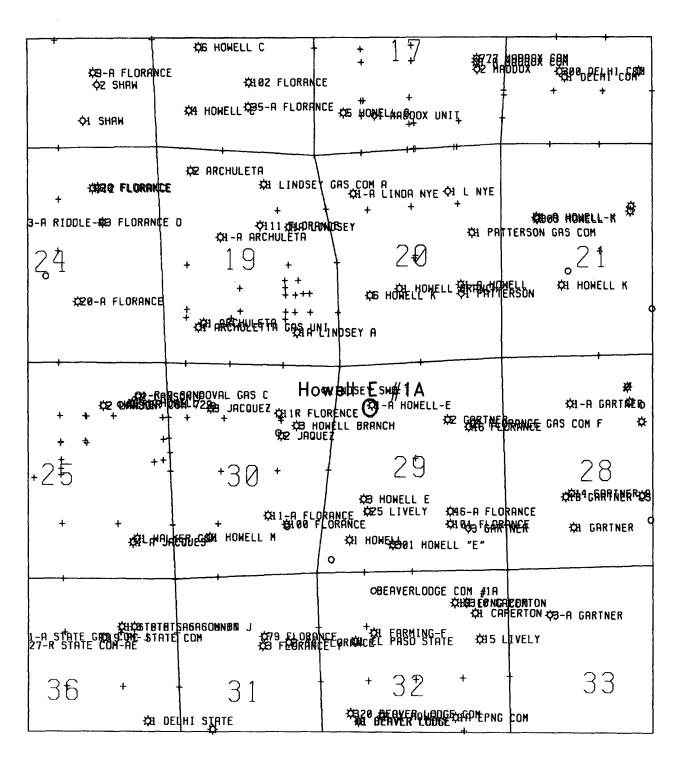
### OFFSET OPERATOR \ OWNER PLAT

### Mesaverde (W/2) / Pictured Cliffs (NW/4) Formations Commingle Well

**Township 30 North, Range 8 West** 



- 1) Burlington Resources
- 2) Amoco Production Company c/o Bruce Zimney P.O. Box 800 Denver, CO 80201
- 3) Taurus Exploration USA, Inc. 2101 6th Avenue North Birmingham, Alabama 35203



Howell E #1A
D Sec 29 T30N, R08W
PC / MV