

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor

Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

ADMINISTRATIVE ORDER DHC-2795



Burlington Resources Oil & Gas Company P.O. Box 4289 Farmington, New Mexico 87499

Attention: Ms. Peggy Cole

Lively No. 18E API No. 30-045-24581

Unit D, Section 1, Township 26 North, Range 8 West, NMPM,

San Juan County, New Mexico.

Blanco-Mesaverde (Prorated Gas – 72319), Basin-Dakota (Prorated Gas – 71599) and

Otero-Chacra (Gas – 82329) Pools



Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion and required separation of the zones is hereby placed in abeyance.

The maximum amount of gas which may be produced daily from the well shall be determined by Division Rules and Regulations or by the gas allowable for each respective prorated pool as printed in the Division's San Juan Basin Gas Proration Schedule.

The applicant shall consult with the supervisor of the Aztec District Office of the Division upon completion and testing of the well in order to determine a fixed allocation of production from each of the commingled zones. Upon approval by the Division's Aztec District Office, the applicant shall submit the allocation formula to the Santa Fe Office of the Division.

Oil Conservation Division * 2040 South Pacheco Street * Santa Fe, New Mexico 87505 Phone: (505) 827-7131 * Fax (505) 827-8177 * http://www.emnrd.state.nm.us

REMARKS: The operator shall notify the Aztec District Office of the Division upon implementation of the commingling process.

Pursuant to Rule 303.C.(2), the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 8th day of August, 2000.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

LORI WROTENBERY & DEC

Director

SEAL

LW/DRC

cc: Oil Conservation Division - Aztec

Bureau of Land Management-Farmington

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

District II

District III

District IV

811 South First Street, A

QIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, New Mexico 87505

APPLICATION TYPE X_Single Well Establish Pre-Approved Pools **EXISTING WELLBORE** _X_Yes _

APPLICATION FOR DOWNHOLE COMMINGLING OIL OOM, DAY 2040 South Pacheco, S **Burlington Resources Oil** Operator LIVELY

PO Box 4289, Farmington, NM 87499

Address D 01-26N-08W

San Juan

Lease

Well No.

Unit Letter-Section-Township-Range

County

OGRID No.14538

Property Code 18182

API No. __30-045-24581___ Lease Type: _X___Federal _

State

DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
	Otero Chacra	Bla 100 Mesaverde	Basin Dakota
Pool Name			
Pool Code	82329	72319	71599
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	Will be supplied upon completion	Will be supplied upon completion	6654'-6768'
Method of Production (Flowing or Artificial Lift)	Flowing	Flowing	Flowing
Bottomhole Pressure (Note: Pressure data will not be required if the	Current: 571 psi (see attached)	Current: 427 psi (see attached)	Current: 799 psi (see attached)
bottom perforation in the lower zone is within	Original: 1210 psi (see attached)	Original: 1235 psi (see attached)	Original: 2614 psi (see attached)
150% of the depth of the top perforation in the			
upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	1182	1304	1181
Producing, Shut-In or	New Zone	Nev/ Zone	Producing
New Zone			
Date and Oil/Gas/Water Rates			
of Last Production. (Note: For new zones with no production	Date:	Date:	Date: April, 2000
history, applicant shall be required to attach	-	n	D
production estimates and supporting data.)	Rates:	Rates:	Rates: 918 per month
Fixed Allocation Percentage (Note: If allocation is based upon something other	Oil Gas	Oil Gas	Oil Gas
than current or past production, supporting data or	% %	% %	% %
explanation will be required.)	will be supplied upon completion	will be supplied upon completion	will be supplied upon completion

ADDITIONAL DATA

Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been not fied by certified mail?	YesXNo Yes No
Are all produced fluids from all commingled zones compatible with each other?	YesX_No
Will commingling decrease the value of production?	Yes NoX
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?	YesX 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	

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

Any additional statements, data or documents required to support commingling.

Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application. Bottomhole pressure data.

Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

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

SIGNATURE

TITLE Gr. Prod. Eng

nço TYPE OR PRINT NAME Wayne Fletcher

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

State of New Mexico Energy, Minerals & Natural Resources Department

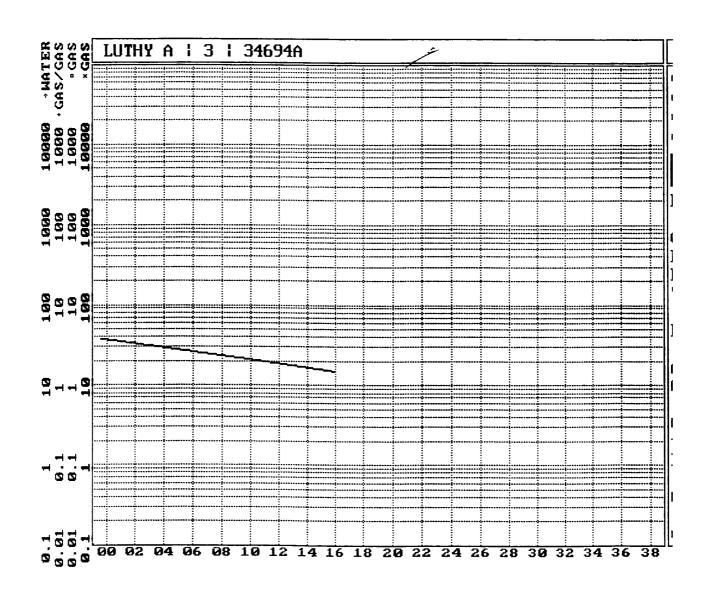
OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

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

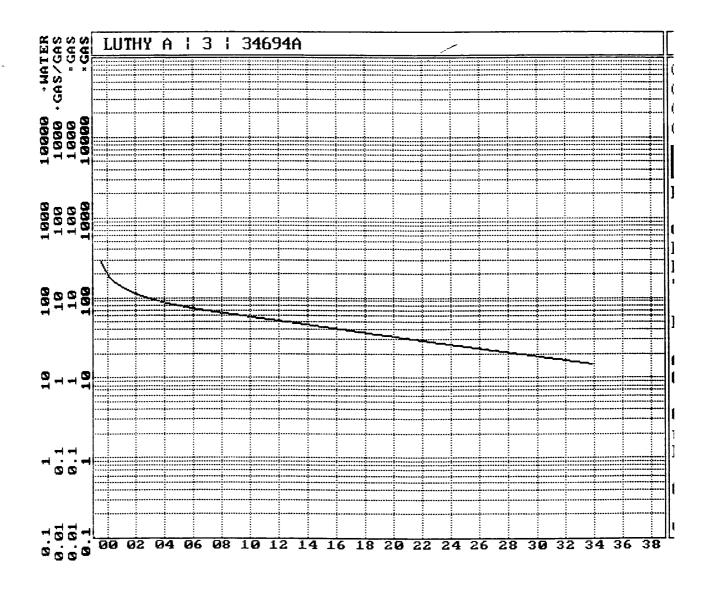
Fee Lease - 3 Copies

PO Box 2088, Sai	nta Fe, NM	87504-2088] AME	NDED REPORT
		WE	ELL LO	CATION	I AND AC	REAGE DEDI	CA	TION PL	AT		
	API Numb	:r		² Pool Code	71599			' Pool Na		in D	akota
30-045-			8232	9/7231	.9/ 01	tero Chacra	/B	lanco M		rde/	
Property 1818					' Propert	•					Well Number
	OGRID No.			Lively 'Operator Name				18E			
1453		R	Burlington Resources Oil & Gas Comp								
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			11 Bot	tom Hol	e Location	If Different Fr	om	Surface			
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Fe	et from the	East/Wes	st line	County
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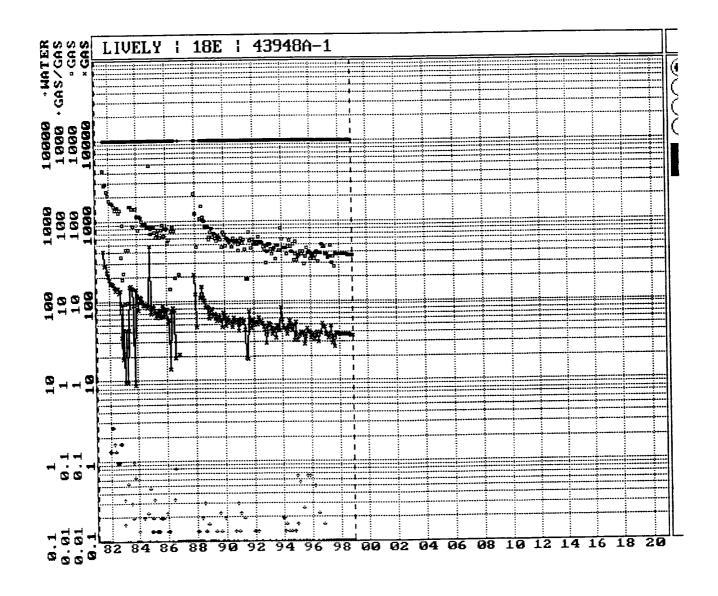
Lively #18E
Expected Production
Chacra Formation



Lively #18E
Expected Production
Mesaverde Formation



Lively #18E
Actual Production
Dakota Formation



Lively #18E

Bottom Hole Pressures Flowing and Static BHP Cullender and Smith Method Version 1.0 3/13/94

Chacra	Mesaverde			
<u>CH-Current</u>	MV-Current			
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) D.716 C.716 C.717 C.716 C.717 C.717	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 0.769 C 488 2.375 60 60 80 372			
CH-Original	MV-Original			
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1066 BOTTOMHOLE PRESSURE (PSIA) 1209.9	GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 0.45 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 0.769 CC 489 CC 489 CC 50 CC 60			

Lively #18E

Bottom Hole Pressures Flowing and Static BHP

Cullender and Smith Method Version 1.0 3/13/94

Dakota	<u> </u>			
DK-Current				
GAS GRAVITY COND. OR MISC. (C/M) %N2 %CO2 %H2S DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA)	0.699 C 0.63 1.04 0 1.25 6575 60 137 0 671			
DK-Origi	<u>nal</u>			

SAN JUAN 28-7 UNIT #240 - - 43931A Print Time: Tue Jun 13 09:00:05 2000

Property ID: 2111

LIVELY #18E -- CHACRA OFFSET

<u>Date</u>	<u>MCF</u>	<u>PSI</u>
8/5/75	0	1,066
11/25/75	7,441	748
5/11/76	34,986	613
6/23/77	77,537	433
8/21/79	141,696	404

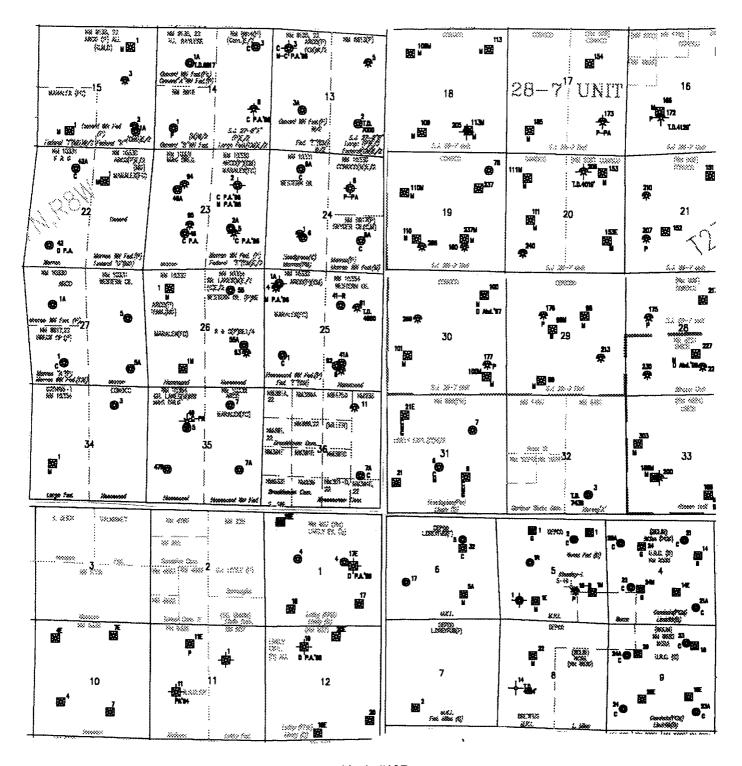
Page No.: 1
Print Time: Tue Feb 09 10:27:16 1999
Property ID: 3252
Property Name: LUTHY A | 4 | 54425A-1
Table Name: K:\ARIES\RR99PDP\TEST.DBF

DATE	CUM_GAS	M SIWHP	
01/20/86	0 11527	1053.0 834.0	<u>Lively #18E</u>
05/17/86 12/15/87	130040	604.0	Mesaverde Offset
03/15/88 07/12/89	147939 202583	4 84 .0 6 53 .0	
09/29/90 06/21/91	247501 284878	510.0 433.0	
12/16/91 07/06/93		421. 0 3 72. 0	

Page No.: 1
Print Time: Tue Feb 09 11:04:27 1999

Property ID: 1131
Property Name: LIVELY | 18E | 43948A-1
Table Name: K:\ARIES\RR99PDP\TEST DRF

DATE	CUM_GAS	M SIWHP	
03/14/81 06/01/82 11/09/82 10/17/83 08/09/85 06/01/88	90289 113834 182072 225577	2130.0 884.0 810.0 859.0 711.0 903.0	<u>Lively #18E</u> Dakota Offset
05/07/90	273369	671.0	



Lively #18E

Dakota / Mesaverde / Chacra

26N – 8W – 01D

DATE IN 12/23/99 SUSPENSE	1/12/	QO ENGAGER AC	LOGGED W	DHC
1 1 00 1 1 1 1	+ 			

ABOVE THIS LINE FOR DIVISION USE ONLY

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: [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 DEC 2 3 1999
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] X 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 R

ules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative ive

approval is accurate an	d complete to the best of my known. Lunderstand that any omi	owledge and where applicable, ver ssion of data, information or notifi	ify that all interest ication is cause to ha
the application package	e returned with no action taken.	,	
the application package	of tetalified with his action summer.		
	Note: Statement must be completed I	by an individual with supervisory capacity.	
Peggy Cole	Sague (Ali	Regulatory/Compliance Admin	istrator
Print or Type Name	Signature	Title	Date