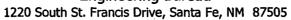
DAC TYPE AND ALL

KRV0313653223

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -





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
Appl	Ication Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Cornmingling] [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-Sait 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 MAY 6 2003
	Check One Only for [B] or [C] [B] Commingling - Storage - Measurement \[\begin{array}{c c} \DHC \Boxed CTB \Boxed PLC \Boxed PC \Boxed OLS \Boxed OLM \\ \daggered{array} \end{array}
	[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.
	CERTIFICATION: I hereby certify that the information submitted with this application for administrative roval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this ication until the required information and notifications are submitted to the Division.
PE	Note: Statement must be completed by an individual with managerial and/or supervisory capacity. 1. COLE REGULATORY SUPER 5-13-03
Print	t or Type Name Signature Signature KEGULATORY Supv. 5-13-0: Title Date Plole & br-inc. Com e-hail Address

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107A Revised May 15, 2000

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

<u>District IV</u> 1220 S. St. Francis Dr., Santa Fc, NM 87505

TYPE OR PRINT NAME L. Tom Loveland

Oil Conservation Division

1220 South St. Francis Dr. Santa Fe, New Mexico 87505 APPLICATION TYPE
Single Well
Establish Pre-Approved Pools
EXISTING WELLBORE

TELEPHONE NO. (<u>505</u>) 326-9700

APPLICATION FOR DOWNHOLE COMMINGLING

XISTING WELLBOR Y__Y Yes ____No

BURLINGTON RESOURCES OF	IL & GAS COMPANY PO	D BOX 4289, FARMINGTON,	NM 87499		
Operator Huerfanito Unit	Add #82 L-25-27	ress N-9W	San Juan		
Lease	e Well No. Unit Letter-Section-Township-Range				
OGRID No. <u>14538</u> Property C	Cocle7138 API No	. 30-045-12189 Lease T	ype: X Federal State		
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE		
Pool Name	OTERO CHACRA	BLANCO MESAVERDE	BASIN DAKOTA		
Pool Code	82329	72319	71599		
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	WILL BE SUPPLIED UPON COMPLETION	4470'-4839'	6536'-6736'		
Method of Production (Flowing or Artificial Lift)	NEW ZONE	ARTIFICIAL LIFT PUMPING UNIT	ARTIFICIAL LIFT PUMPING UNIT		
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)	Pressure a will not be required if the bottom wer zone is within 150% of the offset (see attachment) Original - 1288 psi Current - 496 psi		Original – 2713 psi Current – 567 psi		
Oil Gravity or Gas BTU (Degree API or Gas BTU)	BTU 1309	BTU 1283	BTU 1283		
Producing, Shut-In or New Zone	New Zone	Producing	Producing		
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history,	Date: N/A	Date: 12/31/02	Date: 12/31/02		
applicant shall be required to attach production estimates and supporting data.)	Rates: see attachment	Rates: 255 Mcfd	Rates: 64 Mcfd		
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	current or past production, supporting data or COMPLETION COMPLETION				
	<u>ADDITIO</u>	NAL DATA			
Are all working, royalty and overriding If not, have all working, royalty and ov			Yes NoX YesX No		
Are all produced fluids from all commi	ngled zones compatible with each	other?	Yes <u>X</u> 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 X No					
NMOCD Reference Case No. applicable	le to this well:		<u> </u>		
Attachments: C-102 for each zone to be comming Production curve for each zone for For zones with no production histor Data to support allocation method of Notification list of working, royalty Any additional statements, data or of the committee of the committe	at least one year. (If not available, ry, estimated production rates and sor formula. and overriding royalty interests for	attach explanation.) supporting data. or uncommon interest cases.			
	PRE-APPRO	OVED POOLS			
If application is	to establish Pre-Approved Pools, the	he following additional information v	vill be required:		
List of other orders approving downhol List of all operators within the proposed Proof that all operators within the proposed Bottomhole pressure data.	d Pre-Approved Pools	••			
I hereby certify that the information SIGNATURE J. Jone Jov		the best of my knowledge and bel Reservoir Engineer			

Huerfanito Unit #82 Bottom Hole Pressures Flowing and Static BHP

Cullender and Smith Method

Version 1.0 1/14/98

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) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 0 0 0 0 0 0 0 0 0 0 0 0 0	GAS GRAVITY COND. OR MISC. (C/M) %N2 0.01 %CO2 0.0088 %H2S 0 DIAMETER (IN) DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 495.7
<u>CH-Original</u>	MV-Original
GAS GRAVITY COND. OR MISC. (C/M) %N2 0.0066 %CO2 0.0043 %H2S 0 DIAMETER (IN) 5.5 DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA)	GAS GRAVITY COND. OR MISC. (C/M) %N2 0.41 %CO2 1.17 %H2S 0 DIAMETER (IN) 5.5 DEPTH (FT) SURFACE TEMPERATURE (DEG F) BOTTOMHOLE TEMPERATURE (DEG F) FLOWRATE (MCFPD) SURFACE PRESSURE (PSIA) BOTTOMHOLE PRESSURE (PSIA) 1285.7

Huerfanito Unit 82 BHP.xls 4/7/2003 3:41 PM

Huerfanito Unit #82 Bottom Hole Pressures Flowing and Static BHP

Cullender and Smith Method

Version 1.0 1/14/98

Dakota	
DK-Current	Current
GAS GRAVITY COND. OR MISC. (C/M) %N2	GAS GRAVITY COND. OR MISC. (C/M) %N2
<u>DK-Original</u>	<u>Original</u>
GAS GRAVITY 0.759 COND. OR MISC. (C/M) C %N2 0.41 %CO2 1.17 %H2S 0 DIAMETER (IN) 2.375 DEPTH (FT) 6636 SURFACE TEMPERATURE (DEG F) 60 BOTTOMHOLE TEMPERATURE (DEG F) 143.9 FLOWRATE (MCFPD) 0 SURFACE PRESSURE (PSIA) 2152 BOTTOMHOLE PRESSURE (PSIA) 2712.8	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) BOTTOMHOLE PRESSURE (PSIA) 0

Huerfanito Unit 82 BHP.xls 4/7/2003 3:42 PM

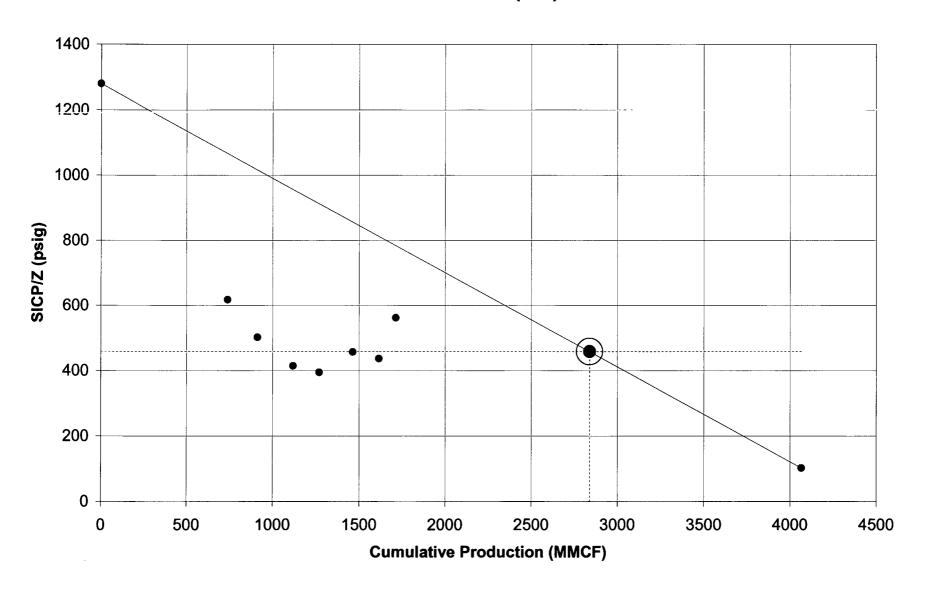
Huerfanito Unit #82 - SICP/Z Data

Date	Mesaverde SICP (psig)	Chromatograph Used	Z-Factor	SICP/Z (psig)	Cum Qg (MMCF)	Slope	Y Intercept
10/9/1965	1102	10/1/2002	0.8612	1280	0	N/A	1280
7/9/1971	570	10/1/2002	0.9238	617	740.073	-0.895308	1280
6/14/1973	470	10/1/2002	0.9367	502	914.106	-0.850939	1280
5/18/1976	392	10/1/2002	0.9469	414	1120.972	-0.772211	1280
10/5/1978	374	10/1/2002	0.9493	394	1271.489	-0.696534	1280
5/21/1982	430	10/1/2002	0.9419	457	1465.132	-0.561783	1280
5/29/1986	412	10/1/2002	0.9443	436	1617.378	-0.521404	1280
7/15/1991	522	10/1/2002	0.9299	561	1714.893	-0.418836	1280
???	102	N/A	1	102	4067.13	-0.289543	1280
						\	\downarrow
12/31/2002	???	N/A	???	458	2838.31	-0.289543	1280
Z-Factor = 0.95 SICP (psig) = 435							

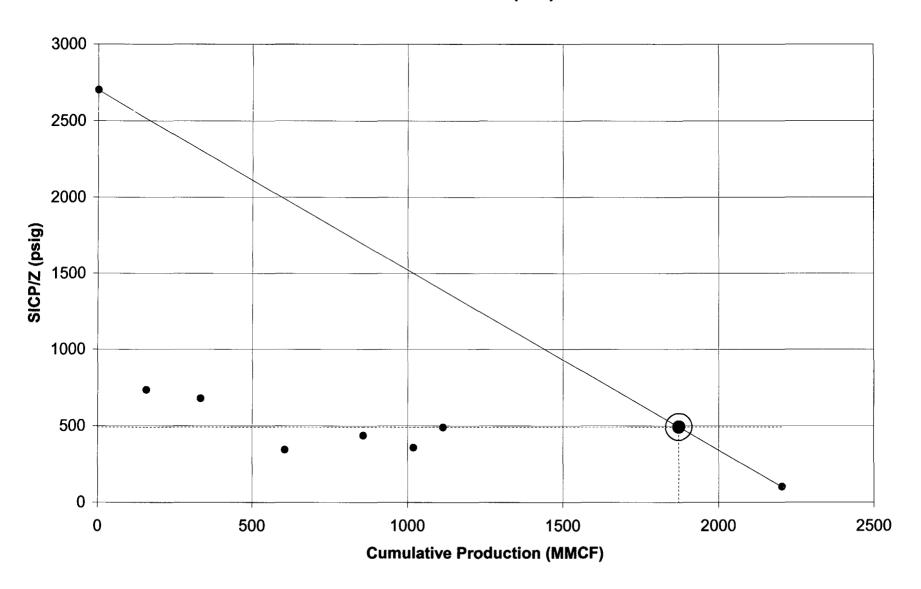
	Dakota SICP	Chromatograph		SICP/Z	Cum Qg		Υ
<u>Date</u>	(psig)	<u>Used</u>	Z-Factor	(psig)	(MMCF)	<u>Slope</u>	Intercept
10/9/1965	2152	10/1/2002	0.797	2700	0	N/A	2700
7/9/1971	669	10/1/2002	0.9112	734	158.539	-12.40029	2700
6/14/1973	622	10/1/2002	0.9172	678	332.572	-6.07981	2700
6/14/1977	328	10/1/2002	0.9555	343	604.799	-3.896914	2700
7/13/1981	412	10/2/2002	0.9443	436	857.027	-2.641484	2700
8/29/1985	341	10/3/2002	0.9537	358	1018.92	-2.299072	2700
4/23/1990	459	10/4/2002	0.9381	489	1114.3	-1.98406	2700
???	102	N/A	1	102	2203.04	-1.179336	2700
12/31/2002	???	N/A	???	492	1872.204	↓ -1.179336	¥ 2700
12/01/2002		Action and the second s			1012.201		2.00
Z-Factor = 0.96 SICP (psig) = 472							

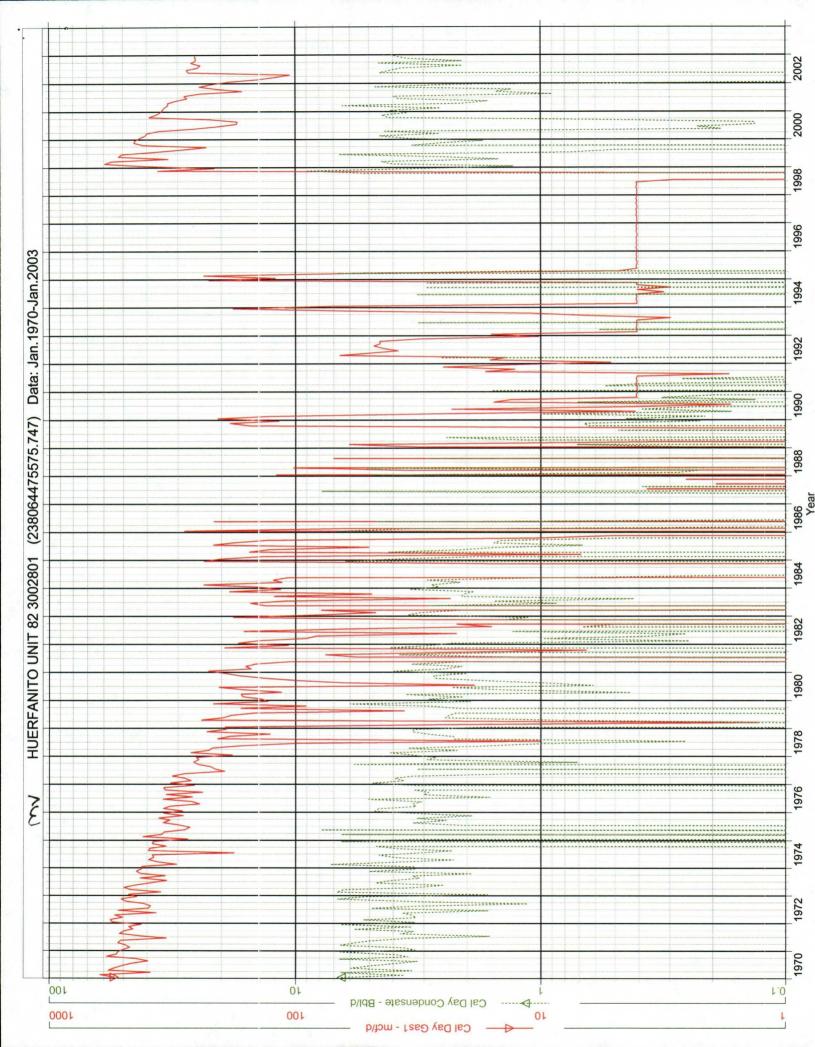
NOTE: THESE ARE ESTIMATES OF THE CURRENT RESERVOIR PRESSURE IN EACH ZONE. IT IS REALIZED THAT THE NEAR-WELLBORE PRESSURES FOR EACH ZONE SHOULD BE SIMILAR, DUE TO THEIR COMMINGLED STATUS.

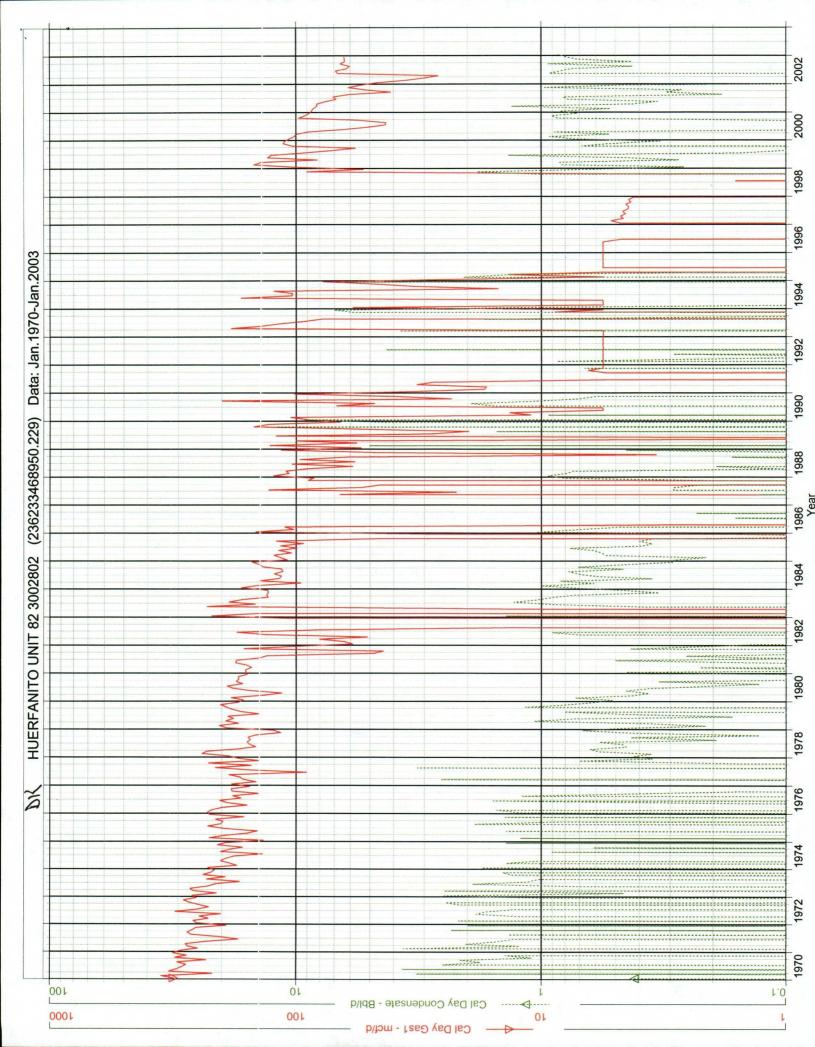
Huerfanito #82 (MV)



Huerfanito #82 (DK)







TO:

New Mexico Oil Conservation Division

FROM:

Lewis Implementation Team, Burlington Resources

DATE:

December 2, 2002

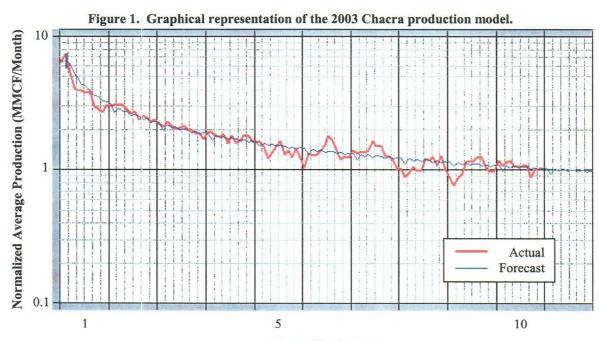
RE:

2003 Chacra Recompletion Program Expected Production

Chacra-only production from 73 wells completed after 1970 was normalized and forecasted to result in the production model presented in Table 1. A graphical representation of this normalized production forecast is shown in the attached Figure 1. These wells are located in or near the Chacra Fairway in T-27-N, R-08-W; T-27-N, R-09-W; T-28-N, R-09-W; T-28-N, R-11-W; T-29-N, R-09-W; T-29-N, R-10-W; and T-29-N, R-11-W. Actual results from the individual payadds will certainly vary, but this production model represents the average results that should be achieved. Further delineation in the area will be made in 2003.

Table 1: 2003 Chacra production model.

Decline Type	Hyp to Exp
Initial Incremental Rate (MCF/D)	260
Initial Decline (%/yr, effective)	62
Final Decline (%/yr, effective)	1.6
Final Incremental Rate (MCF/D)	15
Hyperbolic Exponent, n	2.0
EUR (MMCF)	496



Normalized Year

NEW EXICO OIL CONSERVATION COMMISSION WELL EXCATION AND ACREAGE DEDICATION PLAT

All distances must be from the outer boundaries of the Section. Rev. "A" to M. V. Dusi 9-30-6 Operator Well No EL PASO NATURAL GAS COMPANY HUERFANITO UNIT I-149-IND-8473 62 (MD) Unit Letter Section Township Range County 27-N 9-4 SAN JUAN Actual Footage Location of Well: 1550 SOUTH 990 WEST feet from the feet from the line line and Ground Level Elev. Producing Formation Dedicated Acreage: 6270 MESA VERDE & DAKOTA BLANCO MESA VERDE & BASIN DAK. 320 320 Acres 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? Unitization XX Yes If answer is "yes," type of consolidation __ No 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. OR.G.NAL SIGNED E.S. OBERLY Petroleum Engineer Position El Pago Natural Gas Co. Company October 4. SECT 25 I hereby certify that the well location CONTRACT OLAVAN shown on this plat was plotted from field I-149-IND-8473 notes of actual surveys made by me or under my supervision, and that the same 990 is true and correct to the best of my knowledge and belief. **Date Surveyed** MARCH 2, 1965 Registered Professional Engin and or Land Surveyor Certificate No. 1760 1320 1650 1980. 2310 2000 1000

INTEREST OWNERS

Huerfanito Unit 82 Well

ADAM BRUSS TRUST

ADAM COHN TRUST U/W/O

ADELE ALCORN READ

AJM LLC

ALAN PONDER TRUSTEE FOR WINIFRE PONDER

ALBERT R GREER

ANN HOME EMMERSON

ANNA LOU HOME TRUSTEE OF THE TOM S & ANNA LOU HOME

B LIPSHY & D SHOSS COSTRUSTEES SHOSS LEVINE TRUSTS

BARRON PROPERTIES LTD

BEN R HOWARD

BENSON-MONTIN-GREER

BETTY H JOHNSON

BEVERLY D WHITEHEAD

BP AMERICA PRODUCTION COMPANY

BRIAN DICKEY

BUREAU OF LAND MANAGEMENT

CAROLINE DAVY ALTHEIDE

CASSANDRA KEYSER

CHARLES W GAY

CHRISTOPHER ACHTSCHIN

CLINTON C BALLARD JR

CONOCOPHILLIPS COMPANY

CONSTANCE M COHN

DANIEL PONDER BRENNAND

DAVID WILLIAM BRENNAND

DEBBIE LEE SHOSS

DENNA ELY

DIANNA DICKEY

DONALD E WEBER

DOROTHY J BREWSTER

EDWARD GRAPEL & PEARL GRAPEL

EDWIN L PIENKOWSKI

ELIZABETH COHN TRUST U/W/O

ELIZABETH J TURNER CALLOWAY

ELIZABETH T CALLOWAY

ELLIOTT INDUSTRIES

ELLIOTT-HALL COMPANY

ELLIS RUDY LTD

EMILY BARTON

FASKEN FAMILY LTD PTSHP

FLORENCE DUBILIER AW

FOUR STAR OIL & GAS COMPANY

FRANK ANDREW FASKEN

FRANKLIN P LILLY

FREDERICK EUGENE TURNER

GR FASKEN

GARY R SPECKMAN &

GARY W HARVEY INDEP EXEC

GEORGE H DIDLAKE & WILLIE

GERALD FITZGERALD JR TRUSTEE GERALD FITZGERALD JR TRUST

GREGORY & NANCY VANCE LIV TRST

GUY A WEILL

GUY A WEILL CUSTODIAN

H MILES COHN TRUST U/W/O

HANSON MCBRIDE PETROLEUM CO

Wednesday, May 0

HEDBERG FAMILY LTD PARTNERSHIP

HERB MARCHMAN PERS REP

IRIS GITTELMAN

J & M RAYMOND LTD

J BURTON VETETO

J GLENN TURNER JR

JAMES E ANDERSON

JAMES R PAYNE & JEAN PAYNE

JAMES ROBERT MARTIN

JFP INTERESTS A GENERAL PTSHP

JIM L SHARP

JOAN R DUNCAN

JOEL SCHONFELD EX

JOHN DICKEY

JOHN LEE TURNER

JOHN R BRENNAND JR

JULIA EVETTS ELAM TRSTEE

JULIE ANN ANTWEIL TRUST

JULIE LEVINE MULLEN

KATHLEEN COLWILL

KATHRYN A DUFFIE

KATHRYN D ASHBY

KATHRYN LEVINE ROMAN

KATHY KIEL JOHNSON

KENNETH E CARTER

KENNETH ROBERT SCHMIDT

LA PLATA GATHERING SYSTEM INC

LAWRENCE L LAVALLE

LEE AYCOCK IND EXECUTRIX

LEO A ACHTSCHIN JR

LORRAYN GAY HACKER

LOWE PARTNERS LP

MARGARET JENSIS DECD

MARIANNE WEILL LESTER

MARIE HELENE WEILL

MARK W BRENNAND

MARY ANN HONEY

MARY E GLENN

MARY FRANCES TURNER JR TRUST

MAYDELL MILLER MAST

MCCONNELL LTD CO

MICHAEL FITZGERALD AND

MICHAEL J LILLY

MONTEZ JOHNSON TRUSTEE U/W/O LEAH B DOWNEY

MURRAY LANGFELDER

NANCI L FOX

NELLY WIHL

OLIVER B KIEL III

PATSY J LAMBRIGHT REVOCABLE TRUST

PATSY R CUMMINS

PATTI JO PECK WOOD

PAUL A BRENNAND

PAUL SLAYTON

PENWELL LYMAN LTD

PETER MCKEE BRENNAND

PURE RESOURCES LP

RICHARD LORE ADMINISTRATOR CTA

ROBERT E FRITZ

Wednesday, May 0

ROBERT E MCALISTER

ROBERT E OLDER & VIRGINIA C OLDER

ROBERT M WILLIAMS

ROSALINE WEISS IND EXEC

ROSE MARION BERG

ROSE MARION BERG & DENNA ELY

SCHULTZ HENRIETTA TR

SIDNEY E & MARTIN C LICHT-EXCS OF

SIDNEY E LICHT

SIDNEY H DUNKEN

SILVERADO OIL & GAS CORP

SINGER BROS

STATE OF NEW MEXICO

STEVEN PRICE FASKEN TRUSTEE STEVEN PRICE FASKEN REVOC TRUST

TH MCELVAIN OIL & GAS LTD

TERESA HOME

THE FASKEN FOUNDATION

THOMAS S SENTER

UNITED PIPE SUPPLY CO

VIOLA I STEWART TRUST

W BENTON HARRISON III

WALLACE S KARUTZ

WELLS FARGO BANK TRUSTEE SUSAN MURRAY FASKEN TRUST #1

WELLS FARGO OGM OPERATIONS-AU 10291

WHITE STAR ENERGY INC

WILLIAM DENNIS SCHMIDT

WILLIAM E FRITZ

WM M WESTERMAN PERSONAL REP

XTO ENERGY INC