District I 1625 N. French Drive, Hobbs, NM 68240

State of New Mexico Energy, Minerals, and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco

Form C-107A Revised May 15, 2000

District II

811 South First Street, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV

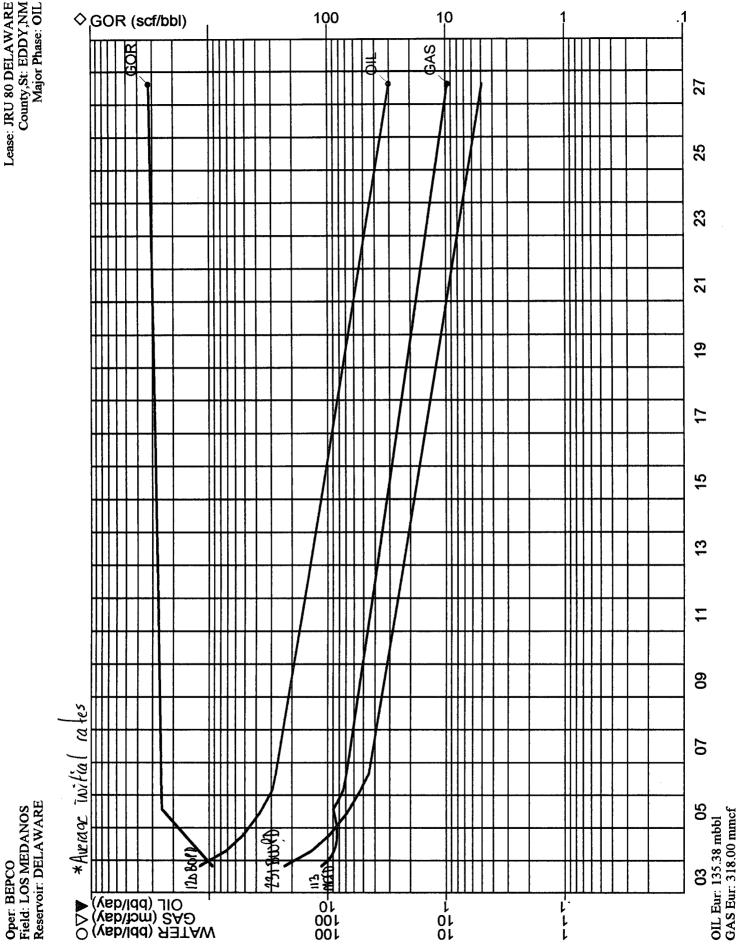
Santa Fe, New Mexico 87505

APPLICATION TYPE __X_Single Well
_Established Pre-Approved Pools
EXISTING WELLBORE
__X_Yes____No

APPLICATION FOR DOWNHOLF COMMINGLING

2040 South Pacheco, Santa Fe, NM 87505	APPLICATION FOR DOV	WINDOLE COMMINIDATING	1 esNo
Bass Enterprises Production Co.		D. Box 2760 Madand IX 79702	
James Ranch Unit	A	1228 R36E	Eddy
Lease	Well No. Unit Letter-	Section-Township-Range	County
OGRID No. 001801 Property	Code 001786 API No. 30-01	5-32868 Lease Type	FederalX_StateFee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
Pool Name	Quahada Ridge Delaware S E	Los Medanos Bone Spring	Los Medanos S Wolfcamp
Pool Code	50443	40295	96336
Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	7314-7464'	10,900-910'	11096-111'
Method of Production (Flowing of Artificial Lift)	Artificial Lift	Flowing	Flowing
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)	N/A	N/A RECEIVED	N/A
Oil Gravity or Gas BTU (Degree API or Gas BTU)	44.2	44.2 OCD-ARTESIA	44.2
Producing, Shut-in or New Zone	Producing	Producing	Producing
Date and Oil/Gas/Water Rates of Last Production (Note: For new zones with no production history, applicant shall be required to attach production	Date: 11/07/2003	Date: 10/07/2003	Date: 10/07/2003
astimates and supporting data.)	Rates: 120/113/231	Rates: 44/7/126	Rates: 120/230/26
Fixed Allocation Percentage (Note: If allocation is based upon someting other than current or part production, supporting data or	Oil Gas 52 %	Oil Gas 17 % 19 %	Oil Gas 29 %
explanation will be required.)	34 /0 32 /0	17 70 19 70	29 70 29 70
	ADDITION	NAL DATA	
	ing royalty interests identical in all co- overriding royalty interest owners bee		Yes X No
Are all produced fluids from all com	nmingling zones compatible with each	other?	Yes X No No
Will commingling decrease the valu	e of production?		Yes No X
If this well is on, or communitized vor the United States Bureau of Land	vith, state or federal lands, has either the Management been notified in writing	he Commissioner of Public Lands of this application?	Yes X No
NMOCD Reference Case No. applic	cable to this well: R-10558		
Production curve for each zone For zones with no production hi Data to support allocation metho Notification list of working, roy	ningled showing its spacing unit and a for at least one year. (If not available, istory, estimated production rates and so od or formula. alty and overriding royalty interests fo or documents required to support com	attach explanation.) supporting data. or uncommon interest cases.	·
	Pre-Appro	ved Pools	
If application i	s to establish Pre-Approved Pools, the foll-	owing additional information will be require	red:
List of all operators within the proposed	commingling within the proposed Pre-App Pre-Approved Pools sed Pre-Approved Pools were provided not		
I hereby certify that the informat	ion above is true and complete to h	ne best of my knowledge and belief	f.
SIGNATURE Dami L	· · ·	oduction Clerk	DATE 11/18/2003
TYPE OR PRINT NAME Tami		TELEPHONE NO. (43	2)683-2277

Lease: JRU 80 DELAWARE County, St. EDDY, NM Major Phase: OIL



11/13/2003 3:42:27PM

Input Page

Lease Name:

JRU 80 DELAWARE

Operator : Field Name :

BEPCO LOS MEDANOS

OIL

Proved Producing

10/1/2003

LEASE CASE Reservoir: DELAWARE Co., St.: EDDY, NM

Discount Method: C

Annual Compoundings: 0

_	0	IL	G	AS	ID Codes List	IdCodo
Qi (AsOf) = Qf (ECL) = Dec. = b = Unit Price = Unit Exp. = Hist. Cum	91.246 76.500 1.100 25.19 0.00 0.000	\$/bbl \$/bbl Mbbl	291.987 - 6.51 0.00 0.000	mcf/month mcf/month % \$/mcf \$/mcf Mmcf	Retrieval Code API Number PhdWin ID Unique ID	IdCode 1 1 00001 29347626237393751857980000
Reserves	135.383		317.997			

				Projection Table * Segm						ment Volumes Adjusted for Historical Data.			
ARPS		Start	End	Life Years	Initial Rate	Final Rate	Decline (%)	b	Min. Decline	Segment Volume			
OIL	01	10/26/2003	2/26/2006	2.34	3,650.0	888.5 bbl	76.50	1.100	-	45,901	bbl		
OIL	02	2/27/2006	8/26/2006	0.50	888.5	832.0 bbl	12.80	1.000	•	5,115	bbi		
OIL	03	8/27/2006	8/13/2027	20.98	832.0	91.2 bbl	10.00	0.000	-	84,367	bbl		
WATER	01	10/26/2003	2/26/2006	2.34	7,019.2	1,599.2 bbl	76.50	1.000	-	86,095	bbl		
WATER	02	2/27/2006	8/26/2006	0.50	1,599.2	1,360.3 bbl	27.99	0.000	-	8,732	bbl		
WATER	03	8/27/2006	8/13/2027	20.98	1,360.3	149.2 bbl	10.00	0.000	•	137,936	bbl		
GOR	01	10/26/2003	7/23/2005	1.75	940.0	2,500.0 scf/bbl	-75.15	0.000	•	0	scf/bbl		
GOR	02	7/24/2005	8/13/2027	22.07	2,500.0	3,200.0 scf/bbl	-1.12	0.000	-	0	scf/bbl		
FORMULA			Formula							Units			
GAS			({GOR})	({OIL})/10	00					MCF			
OIL CUT					WATER})) X	100				%			
YIELD			{OIL}/{		***					BBL/MCF			

Rate

End

WATER CUT

({WATER} / ({OIL} + {WATER})) X 100 Initial

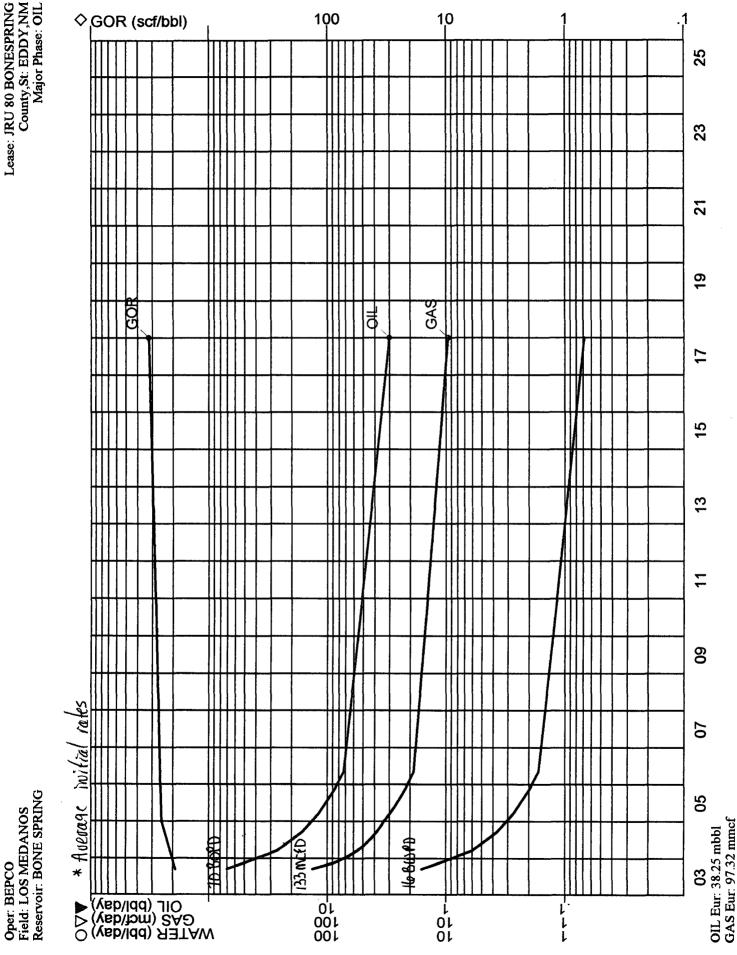
Start

% Life Final Rate Years

LINTIME

WOR

Lease: JRU 80 BONESPRING County, St. EDDY, NM Major Phase: OIL



11/13/2003 3:36:59PM

Input Page

Lease Name:

JRU 80 BONESPRING BEPCO

Operator: Field Name: OIL

LOS MEDANOS
Proved Producing

10/1/2003

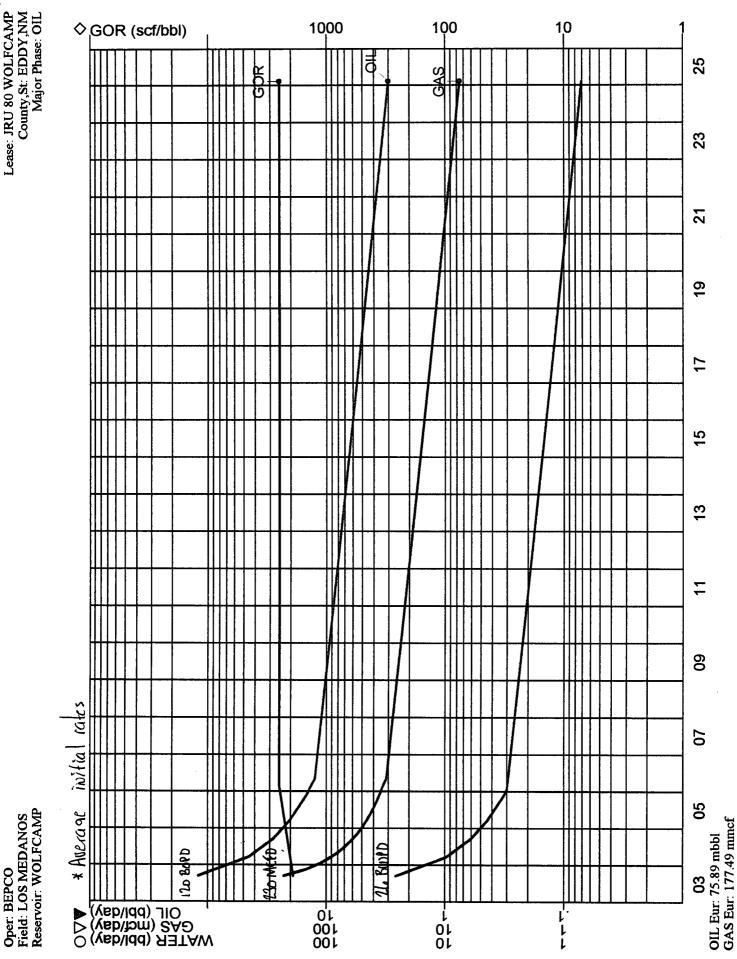
LEASE CASE
Reservoir: BONE SPRING
Co., St.: EDDY, NM

Discount Method: C

Annual Compoundings: 0

At AsOf D	<u>ate</u>		ID Codes List	
	OIL	GAS	l ————————————————————————————————————	IdCodo
Qi (AsOf) = Qf (ECL) = Dec. = b = Unit Price = Unit Exp. =	1,819.531 bbl/month 91.250 bbl/month 94.010 % 1.000 25.19 \$/bbl 0.00 \$/bbl	3,495.107 mcf/month 292.000 mcf/month - % - 6.51 \$/mcf 0.00 \$/mcf	- Id Label Retrieval Code API Number PhdWin ID Unique ID	IdCode 2 2 00002 293476262373939293050500001
Hist. Cum	0.000 Мьы	0.000 Mmcf		
Proj. Cum Reserves	1.168 Mbbl 37.081 Mbbl	2.231 Mmcf 95.090 Mmcf		
Ult. Input Data	38.249 Mbbi	97.321 Mmcf		

				•	* Segment Volumes Adjusted for Historical Dat						
ARPS		Start	End	Life Years	Initial Rate	Final Rate	Decline (%)	ь	Min. Decline	Segment Volume	
OIL	01	9/13/2003	5/5/2006	2.65	2,129.2	220.9 bbl	96.20	1.000	•	17,728	bbl
OIL	02	5/6/2006	12/30/2017	11.66	220.9	91.3 bbl	7.30	0.000	-	20,521	bbi
WATER	01	9/13/2003	5/5/2006	2.65	486.7	50.5 bbl	96.20	1.000	-	4,052	bbl
WATER	02	5/6/2006	12/30/2017	11.66	50.5	20.9 bbl	7.30	0.000	-	4,691	bbl
GOR	01	9/13/2003	1/1/2005	1.31	1,900.0	2,500.0 scf/bbl	-23.37	0.000	-	0	
GOR	02	1/2/2005	12/30/2017	13.00	2,500.0	3,200.0 scf/bbl	-1.92	0.000	-	0	scf/bt
ORMULA			Formula						1	Units	
GAS			({GOR})	(OIL})/10	00				1	MCF	
OIL CUT					WATER})) X	100				%	
YIELD			{OIL}/{					BBL/MCF			
WATER CUT					+ {WATER	})) X 100			-	%	
INTIME					In	iitial			Final	1	Life
			St	art	F	Rate	End		Rate		Year
WOR											



11/13/2003 3:36:59PM

Input Page

Lease Name: Operator: Field Name:

OIL

JRU 80 WOLFCAMP

BEPC

BEPCO LOS MEDANOS Proved Producing 10/1/2003

LEASE CASE Reservoir: WOLFCAMP Co., St.: EDDY, NM

Discount Method: C

Annual Compoundings: 0

At AsOf D	ate		ID Codes List	
	OIL	GAS		IdCodo
Qi (AsOf) = Qf (ECL) = Dec. = b = Unit Price = Unit Exp. = Hist. Cum Proj. Cum Reserves Ult.	3,119.196 bbl/month 91.233 bbl/month 94.010 % 1.000 25.19 \$/bbl 0.00 \$/bbl 0.000 Mbbl 2.003 Mbbl 73.888 Mbbl 75.891 Mbbl	5,960.869 mcf/month 228.082 mcf/month - % - 6.51 \$/mcf 0.00 \$/mcf 0.000 Mmcf 3.815 Mmcf 173.678 Mmcf 177.493 Mmcf	Id Label Retrieval Code API Number PhdWin ID Unique ID	IdCode 3 3 00003 293476262373939294861300002
Input Data	a			

					* Segment Volumes Adjusted for Historical Data.						
ARPS		Start	End	Life Years	Initial Rate	Final Rate	Decline (%)	b	Min. Decline	Segment Volume	
OIL	01	9/13/2003	5/5/2006	2.65	3,650.0	378.7 bbl	96.20	1.000	-	30,390	bbl
OIL	02	5/6/2006	2/7/2025	18.78	378.7	91.2 bbl	7.30	0.000	-	45,501	
WATER	01	9/13/2003	1/17/2006	2.35	790.8	91.3 bbl	96.20	1.000	-	6,275	bbl
WATER	02	1/18/2006	2/7/2025	19.07	91.3	21.5 bbl	7.30	0.000	_	11,042	bbl
GOR	01	9/13/2003	3/1/2006	2.47	1.900.0	2,500.0 scf/bbl	-11.76	0.000	-	,	scf/bbl
GOR	02	3/2/2006	2/7/2025	18.95	2,500.0	2,500.0 scf/bbl	0.00	0.000	-	0	scf/bbl
FORMULA			Formula							Units	
GAS			({GOR})	({OIL})/10	00	· · · · · · · · · · · · · · · · · · ·				MCF	
OIL CUT			({OIL} /			%					

GAS
OIL CUT
YIELD
WATER CUT
LINTIME

({GOR}X{OIL})1000 ({OIL}/({OIL} + {WATER})) X 100 {OIL}/{GAS} ({WATER}/({OIL} + {WATER})) X 100

Initial Final Life
Start Rate End Rate Years

BBL/MCF

WOR

JAMES RANCH UNIT #80 Application for Downhole Commingling

COMPLETION SUMMARY:

The 3rd Bone Spring from 10,900'-910' and the Wolfcamp from 11,096'-111' were perforated, individually broken down with acid, and fracture stimulated. After flowing the two reservoirs for a period of 32 days, a CIBP was set at 10,800' and the 2nd Bone Spring from 10,522'-525' was perforated, broken down with acid, and swabbed dry. An RBP was then set at 7,800' and the Delaware from 7,454'-64' was perforated, broken down with acid, and fracture stimulated. A second RBP was set at 7,400' and the Delaware from 7,314'-24' was perforated, broken down with acid, and fracture stimulated. The RBP at 7,400' was removed and the Delaware intervals placed on pump.

The 3rd Bone Spring and the Wolfcamp intervals were treated and tested together. In order to determine how much production should be attributed to each of the two zones an allocation formula, based on log calculated pay, was developed. The following table shows this breakdown:

	3rd BONE SPRING	WOLFCAMP
Net Pay	14	24
Average Porosity	10%	10%
ΦН	1.4	2.4
Allocation Percentage	36.8%	63.2%

James Ranch Unit #80
DHC Allocation Factors

Year	Del Oil	BS Oil	Wfc Oil	Del Oil %	BS Oil %	Wf Oil %	Del Gas	BS Gas	Wfc Gas	Del Gas %	BS Gas %	Wfc Gas %
2003	7,136	4,191	7,185	38.5%	22.6%	38.8%	7,050	8,244	13,904	24.1%	28.2%	47.6%
2004	23,496	7,624	13,069	53.2%	17.3%	29.6%	31,747	16,888	26,921	42.0%	22.4%	35.6%
2005	13,564	3,780	6,479	56.9%	15.9%	27.2%	30,915	9,531	14,985	55.8%	17.2%	27.0%
2006	10,232	2,665	4,568	58.6%	15.3%	26.2%	25,849	6,853	11,402	58.6%	15.5%	25.9%
2007	9.135	2,428	4,163	58.1%	15.4%	26.5%	23,336	6,365	10,408	58.2%	15.9%	25.9%
2008	8.243	2,257	3,869	57.4%	15.7%	26.9%	21,294	6,030	9,673	57.6%	16.3%	26.1%
2009	7,397	2,086	3,577	56.6%	16.0%	27.4%	19,325	5,681	8,942	56.9%	16.7%	26.3%
2010	6,657	1,934	3,316	55.9%	16.2%	27.8%	17,588	5,367	8,289	56.3%	17.2%	26.5%
2011	5,992	1,793	3.074	55.2%	16.5%	28.3%	16,007	5,070	7,684	55.7%	17.6%	26.7%
2012	5,406	1,666	2.857	54.4%	16.8%	28.8%	14,606	4,803	7,142	55.0%	18.1%	26.9%
2013	4,852	1,540	2.641	53.7%	17.1%	29.2%	13,256	4,525	6,602	54.4%	18.6%	27.1%
2014	4,367	1,428	2,448	53.0%	17.3%	29.7%	12,064	4,275	6,120	53.7%	19.0%	27.2%
2015	3,930	1,324	2,269	52.2%	17.6%	30.2%	10,980	4,039	5,673	53.1%	19.5%	27.4%
2016	3,546	1,230	2,109	51.5%	17.9%	30.6%	10,019	3,826	5,273	52.4%	20.0%	27.6%
2017	3,182	1,133	1,950	50.8%	18.1%	31.1%	9,093	3,592	4,874	51.8%	20.5%	27.8%
Total	117,135	37,081	63,574	53.8%	17.0%	29.2%	263,128	95,090	147,892	52.0%	18.8%	29.2%