

BASS ENTERPRISES PRODUCTION CO.

FIRST CITY BANK TOWER

201 MAIN ST.

FORT WORTH, TEXAS 76102

817/390-8400

April 13, 1993

Bureau of Land Management
P. O. Box 1397
Roswell, New Mexico 88201

Attention: Armando Lopez

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

Attention: Jim Boca

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Bill LeMay

Re: 1993 Amendment to the Plan of Development
James Ranch Unit
Eddy County, New Mexico

Gentlemen:

In accordance with Section 10 of the James Ranch Unit Agreement dated April 22, 1953, Bass Enterprises Production Co., Operator of the referenced unit, submitted a Plan of Development for the year 1993, which was subsequently approved by your office. Since we submitted our Plan of Development, circumstances have changed that requires that we add three (3) wells to the operations that will be conducted in 1993:

1. James Ranch Unit Well No. 16, Eddy County, New Mexico - To be located 2,100' FNL and 990' FEL, Section 36, T22S-R30E and drill to a total depth of 7,800' to test the Delaware formation.
2. James Ranch Unit Well No. 17, Eddy County, New Mexico - To be located 900' FWL and 1,980' FSL in Section 6, T23S-R31E, and to be drilled to a depth of 11,300' to test the Bone Springs formation.

3. James Ranch Unit Well No. 19, Eddy County, New Mexico - This well is currently being drilled at a location 1,980' FSL and 1,980' FEL in Section 36, T22S-R30E with a projected total depth of 7,800' to test the Delaware formation.

Therefore, Bass Enterprises Production Co., operator of the referenced unit, respectfully request that the 1993 Plan of Development for the James Ranch Federal Unit be amended by adding the James Ranch Unit Wells No. 16, 17, and 19. Please indicate your consent by signing in the space provided below and returning one (1) copy of this letter for our records.

Sincerely,


Jens Hansen

JH:ca

AGREED AND ACCEPTED this _____ day
of _____, 1993.

BUREAU OF LAND MANAGEMENT

By: _____

AGREED AND ACCEPTED this _____ day
of _____, 1993.

COMMISSIONER OF PUBLIC LANDS

By: _____

AGREED AND ACCEPTED this 26 day
of April, 1993.

NEW MEXICO OIL CONSERVATION DIVISION

By: 

BASS ENTERPRISES PRODUCTION CO.

FIRST CITY BANK TOWER

201 MAIN ST.

FORT WORTH, TEXAS 76102

817/390-8400

December 15, 1992

Bureau of Land Management
P. O. Box 1397
Roswell, New Mexico 88201

Attention: Mr. Armando Lopez

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

Attention: Mr. Jim Baca

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico

Attention: Mr. William LeMay

Re: 1993 Plan of Development
James Ranch Unit
Eddy County, New Mexico

Gentlemen:

In accordance with Section 10 of the James Ranch Unit Agreement dated April 22, 1952, Bass Enterprises Production Co., Operator of the referenced unit, hereby submits a Plan of Development for the James Ranch Unit for the year 1993.

HISTORY OF PAST DEVELOPMENT

We refer to our previous Plans of Development for a detailed description of the operations conducted in this Unit in prior years.

1992 ACTIVITY

Ongoing geological evaluation was made for future development of this unit.

PARTICIPATING AREAS

According to our records, Bass Enterprises Production Co. has submitted all wells drilled to date where adequate production information is available for commercial determination and participating areas. In the event you have not received commercial determinations for all of our wells drilled to date and proposed participating areas when appropriate, please advise us at your convenience and we will submit same to you.

FUTURE DEVELOPMENT

James Ranch Unit Well No. 18 - This well will be drilled at a location 1,980' FNL and 1,980' FEL in Section 36, T22S-R30E, and drilled to a projected depth of 14,600' to test the Morrow formation. The results of this well will be reported on the 1994 Plan of Development.

OFFSET OBLIGATIONS

Appropriate and adequate measures will be taken to prevent drainage of unitized substances from lands subject to James Ranch Unit Agreement or pursuant to applicable regulations.

MODIFICATIONS

In accordance with the terms and provisions of the James Ranch Unit Agreement, this Plan of Development may be modified from time to time as a result of changing conditions.

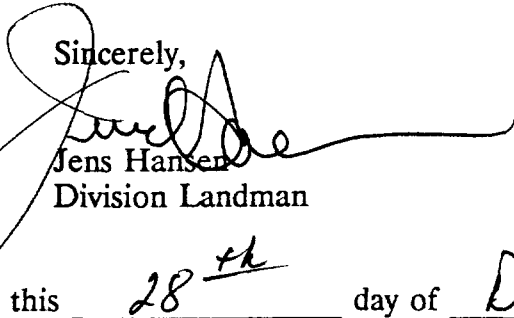
EFFECTIVE DATE

This Plan of Development shall become effective on January 1, 1993.

December 15, 1992
Page 3

If this Plan of Development meets with your approval, please so indicate by signing in the appropriate space provided below and return one (1) signed original to us for our records.

Sincerely,


Jens Hansen
Division Landman

JH:ca

ACCEPTED AND AGREED this 28th day of Dec., 1992

BUREAU OF LAND MANAGEMENT

By: _____

COMMISSIONER OF PUBLIC LANDS

By: _____

NEW MEXICO OIL CONSERVATION DIVISION

By:  _____



JIM BACA
COMMISSIONER

State of New Mexico

OFFICE OF THE

Commissioner of Public Lands

Santa Fe

#470

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

SLO REF NO. OG-1178

September 24, 1992

Bass Enterprises Production Co.
201 Main Street
Ft. Worth, Texas 76102

Attn: Jens Hansen

Re: 1992 Plan of Development
James Ranch Unit
Eddy County, New Mexico

Gentlemen:

The Commissioner of Public Lands has this date approved the above captioned Plan of Development. Our approval is subject to like approval by all other appropriate agencies.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the unit may exist. You will be contacted at a later date regarding these possibilities.

If you have any questions, or if we may be of further help, please contact Pete Martinez at (505) 827-5791.

Very truly yours,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

BY: 

FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5744

JB/FOP/pm
cc: OCD
BLM

BASS ENTERPRISES PRODUCTION CO.

FIRST CITY BANK TOWER
201 MAIN ST.
FORT WORTH, TEXAS 76102
817/390-8400

OIL CONSERVATION DIVISION
RECEIVED
91 DEC 31 PM 10 09

December 23, 1991

Bureau of Land Management
P. O. Box 1397
Roswell, New Mexico 88201

Attention: Mr. Armando Lopez

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

Attention: Mr. Jim Baca

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico

Attention: Mr. William LeMay

Re: 1992 Plan of Development
James Ranch Unit
Eddy County, New Mexico

Gentlemen:

In accordance with Section 10 of the James Ranch Unit Agreement dated April 22, 1953, Bass Enterprises Production Co., Operator of the referenced unit, hereby submits a Plan of Development for the James Ranch Unit for the year 1992.

HISTORY OF PAST DEVELOPMENT

We refer to our previous Plans of Development for a detailed description of the operations conducted in this Unit in prior years.

December 23, 1991
Page 2

1991 ACTIVITY

Ongoing geological evaluation was made for future development of this unit.

PARTICIPATING AREAS

According to our records, Bass Enterprises Production Co. has submitted all wells drilled to date where adequate production information is available for commercial determination and participating areas, with the exception of the James Ranch Well No. 3 which will be submitted during 1992. In the event you have not received commercial determinations for all of our wells drilled to date and proposed participating areas when appropriate, please advise us at your convenience and we will submit same to you.

FUTURE DEVELOPMENT

No wells are planned for the calendar year 1992. Due to the substantial reduction of the unit area because of the WIPP Project and the potash enclave, no activity has been planned.

OFFSET OBLIGATIONS

Appropriate and adequate measures will be taken to prevent drainage of unitized substances from lands subject to James Ranch Unit Agreement or pursuant to applicable regulations.

MODIFICATIONS

In accordance with the terms and provisions of the James Ranch Unit Agreement, this Plan of Development may be modified from time to time as a result of changing conditions.

EFFECTIVE DATE

This Plan of Development shall be effective from January 1, 1992 to December 31, 1992.

If this Plan of Development meets with your approval, please so indicate by signing in the appropriate space provided below and return one (1) signed original to us for our records.

Sincerely,


Jens Hansen
Division Landman

JH:lah

December 23, 1991

Page 3

ACCEPTED AND AGREED this 30 day of DEC., 1991.

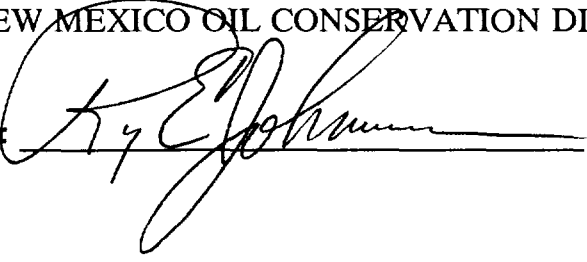
BUREAU OF LAND MANAGEMENT

By: _____

COMMISSIONER OF PUBLIC LANDS

By: _____

NEW MEXICO OIL CONSERVATION DIVISION

By: _____

BASS ENTERPRISES PRODUCTION CO.

FIRST CITY BANK TOWER
201 MAIN ST.
FORT WORTH, TEXAS 76102
817/390-8400

OIL CONSERVATION DIVISION
'91 OCT 1 10 09 56

September 27, 1991

Bureau of Land Management
P. O. Box 1397
Roswell, New Mexico 88201

Attention: Armando Lopez

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

Attention: Jim Boca

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Bill LeMay

NON-COMMERCIAL DETERMINATION
Re: James Ranch Unit Well No. 15
664' FSL 1,434' FEL Section 7, T23S-R31E
Eddy County, New Mexico


Gentlemen:

Bass, Operator of the referenced unit, has completed its evaluation of the production history of the Atoka formation in the James Ranch Unit Well No. 15, and does hereby submit this commercial determination. This well was recently recompleted in the Atoka formation with initial production occurring on February 3, 1991, from perforations 13,488 - 13,528. Calculated absolute open flow was 2,726 MCF/D.

Based upon the enclosed evaluation, the James Ranch Unit Well No. 15 is not a commercial producer in the Atoka formation. Accordingly, Bass respectfully requests that ~~the James Ranch Unit Well No. 15~~, insofar as it produces from the Atoka formation, be deemed a lease well, and not receive a participating area under the terms of the James Ranch Unit Agreement.

Should you have any questions, or need any additional information in relation to this matter, please feel free to call me at (817) 390-8568, or John Smitherman at (915) 683-2277.

Sincerely,


Jens Hansen
Division Landman

JH:ca

*10-8-91
D-Unit letter
Thx
Ry*

WORKSHEET FOR COMMERCIAL DETERMINATION AND PARTICIPATING AREA IN FEDERAL UNITS

WELL DATA

WELL JAMES RANCH UNIT #15 FORMATION ATOKA BANK

LOCATION 0 UNIT, 664 FEET FROM S LINE & 1434 FEET FROM E LINE,

SECTION 7, RANGE 31E, TOWNSHIP 23S, COUNTY EDDY NEW MEXICO

SPUD DATE 1-28-91 COMPLETION DATE 2-3-91 INITIAL PRODUCTION DATE 2-3-91

PERFORATIONS 13,488' - 13,528' MD

13,176' - 13,216' TVD

STIMULATION:

ACID 12,500 GALS A20.2 ACID

FRACTURE

POTENTIAL CAOF 2726 MCF/D

(ATTACH COPY OF C-122. ATTACH COPY OF WELLBORE SKETCH OF COMPLETED WELL).

VOLUMETRIC CALCULATION

	FORMATION	
	SANDS PERFORATED	SANDS NOT PERFORATED BUT POTENTIALLY PRODUCTIVE
Area (A) proration unit size, acres	<u>320</u>	
*Porosity (ϕ), %	<u>2.5</u>	
*Water saturation (S_w), %	<u>17%</u>	
*Net thickness (h) > 1% ϕ & :50% S_w ft	<u>14</u>	
Temperature (T), °F	<u>111°</u>	

*See attached calculations

(2)

Bottomhole pressure (P), psia 5657

Recovery factor (RF), (80% assumed)	<u>80%</u>
-------------------------------------	------------

Recoverable gas, MCF (See eq. below)	<u>1,071,292</u>
--------------------------------------	------------------

Recoverable gas, MCF = (43,560)(Ø)(1-Sw)(A)(h)(RF)(Bg_i) where

$$Bg_i = 0.03535 \frac{P}{Z_1} \frac{MSCF}{Cu Ft} = 0.03535 \frac{(5657)}{(1.059)(571)} = .3307$$

PERFORMANCE DATA

If sufficient history exists, attach plot of gas production rate vs. time.

(Cumulative production to 8/1/91 ; 143,398 MCF.

Initial rate (q_i), 7,600 MCF/mo.

Economic limit (ql), 1,500 MCF/mo.

Decline rate, dy, 99.5 %

Remaining gas (Q) = 39,169 MCF

Ultimate recoverable gas, 182,567 MCF

Attach plat showing proration unit and participating area.

RECOVERABLE GAS	GAS (MCF)	COND (BBLS)
-----------------	-----------	-------------

Gas sand previously produced _____

Sand perforated	(1)
-----------------	-----

Sand not perforated, but potentially productive (2)

Total recoverable gas _____

(1) Performance recoverable gas if available.

$$(2) \frac{\text{Performance sand perforated}}{\text{Volumetric sand perforated}} \times \frac{\text{volumetric sands}}{\text{not perforated}} = \frac{\text{performance sands}}{\text{not perforated}}$$

Participating area size based on ratio of production history and volumetrics

320 acres --- minimum area is proration unit.

(3)

ECONOMIC

Well Cost \$ 1,400,000 (to the depth of formation completed)
Recompletion Cost \$ 80,000
TOTAL COST \$ 1,480,000

Operating Cost \$ 4,000/Month

Net income = (Gross Gas)(Gas Price)(Net Revenue Interest) - (Taxes)

Gas Price = \$1.50/MCF

<u>YEAR</u>	<u>GROSS GAS</u>	<u>BEPCO NET INCOME</u>	<u>OPERATING COST</u>	<u>10% DISC. FACTOR</u>	<u>DISCOUNTED CASH FLOW</u>
ZERO	---	---	---	1.0000	-1,480,000
1991	182,567	214,607	36,000	.95382	170,359
1992	0	0	0	.86711	
				.78828	
				.71662	
				.65147	
Remainder				.59225	

If payout is five years or less, well is considered economical.

(BEPCo Net Income - Operating Expense) discount factor =
discounted cash flow.

UNECONOMICAL

JAMES RANCH UNIT #15

<u>INTERVAL</u>	<u>h</u>	<u>ϕ_o</u>	<u>ϕ_n</u>	<u>ϕ_{xp}</u>	<u>ϕ_h</u>
13,488-490	2	.065	.065	* .03	.06
490-492	2	.100	.080	* .04	.08
492-494	2	.110	.070	* .04	.08
494-496	2	.040	.040	* .02	.02
496-498	2	-.025	.005	.003	.006
498-500	2	-.03	0	0	0
500-502	2	-.015	0	.001	.002
502-504	2	-.010	.005	.004	.008
504-506	2	-.020	.007	.005	.010
506-508	2	.010	.010	.010	.020
508-510	2	-.03	0	0	0
510-512	2	-.015	.010	.008	.016
512-514	2	0	0	.001	.002
514-516	2	-.03	0	0	0
516-518	2	-.01	0	0	0
522-524	2	.02	.01	.015	.030
524-526	2	.04	.01	.024	.048
526-528	<u>2</u>	.03	.005	.016	<u>.032</u>
	14 ABOVE 1% ϕ				.35

$$\text{Average } \phi = \frac{\phi h}{h} = \frac{.35}{14} = .025 \text{ for } \phi > 1\%$$

*Adjusted for kerogen content.

<u>INTERVAL</u>	<u>R_t</u>	<u>S_w</u>	<u>S_wØh</u>
488-490	160	.103	.0062
490-492	300	.058	.0046
492-494	200	.071	.0057
494-496	1,500	.048	.0010
522-524	95	.405	.0122
524-526	75	.314	.0151
526-528	70	.435	.0139
			<u>.0587</u>

$$\text{Average } S_w = \frac{S_w \text{Øh}}{\text{Øh}} = \frac{.0587}{.35} = .168$$

$$R_w = .035$$

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special		Test Date 02-11-91	
Company Bass Enterprises Prod. Co.		Connection National Gas Pipeline	
Pool Sand Dunes Atoka W		Formation Atoka	
Completion Date 10-11-84		Total Depth 15090	
Plug Back TD 14450		Elevation K3 3339	
Farm or Lease Name James Ranch Unit		Well No. 15	
Cas. Size 5"	Wt. 18	a 4.276	Set At 15090
Perforations: From 13522 To 13528		Well No. 15	
Trg. Size 2 3/8	Wt. 4.7	a 1.995	Set At 13450
Perforations: From To		Unit Sec. Twp. Rge. M 8 23S 31E	
Type Well - Single - Drilhead - G.C. or G.O. Multiple Single		Packer Set At 13450	
Country Eddy		State New Mexico	
Producing Thru Tubing		Reservoir Temp. °F 188 @ 13405	
Mean Annual Temp. °F 60		Baro. Press. - P _g 13.2	
L 13,450	H 13,186	G _g 0.60	% CO ₂ 0.50
% N ₂ 0.75	% H ₂ S	Prover	Meter Run 4.03
Taps Flange			
FLOW DATA			
NO.	Prover Line Size	x	Orifice Size
	Press. p.s.i.g.	Diff. h _w	Temp. °F
	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.
	Temp. °F	Press. p.s.i.g.	Temp. °F
SI	4.03		
1.	4.03	x 1.500	645.
2.	4.03	x 1.500	720.
3.	4.03	x 1.500	727.
4.	4.03	x 1.500	757.
5.			
RATE OF FLOW CALCULATIONS			
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m
	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{sp}
	Rate of Flow Q, Mscf		
1	10.84	88.87	658.2
2	10.84	108.31	733.2
3	10.84	118.59	740.2
4	10.84	146.85	770.2
5.			
NO.	R	Temp. °R	T _g
	Z	Gas Liquid Hydrocarbon Ratio 412.3 Mscf/bbl.	
	A.P.I. Gravity of Liquid Hydrocarbons 56 (est) Deg.		
1	.98	550.	1.55
2	1.09	550.	1.55
3	1.10	553.	1.56
4	1.14	550.	1.55
5.			
Specific Gravity Separator Gas .600			
Specific Gravity Flowing Fluid			
Critical Pressure 673 P.S.I.A. 673 P.S.I.A.			
Critical Temperature 356 R 358 R			
P_c			
NO.	P ₁ ²	P ₂ ²	P ₃ ²
	P ₄ ²	P ₅ ²	P ₆ ²
1		4779	22838
2		4211	17733
3		3814	14547
4		3375	11391
5			
(1) $\frac{P_f^2}{P_1^2 - P_2^2} =$			
(2) $\left[\frac{P_c^2}{P_c^2 - R^2} \right]^n =$			
AOF = 0 $\left[\frac{P_c^2}{P_c^2 - R^2} \right]^n = 2726$			
Absolute Open Flow 2726 Mscf @ 15.025			
Angle of Slope @ 56.0			
Slope, n .676			
Remarks: AOF calculated from Bottomhole pressure give by Bass Enterprises to testing company.			
Approved By Division			
Conducted By:			
Calculated By: 3-7-91			
Checked By:			

BACK PRESSURE CURVE

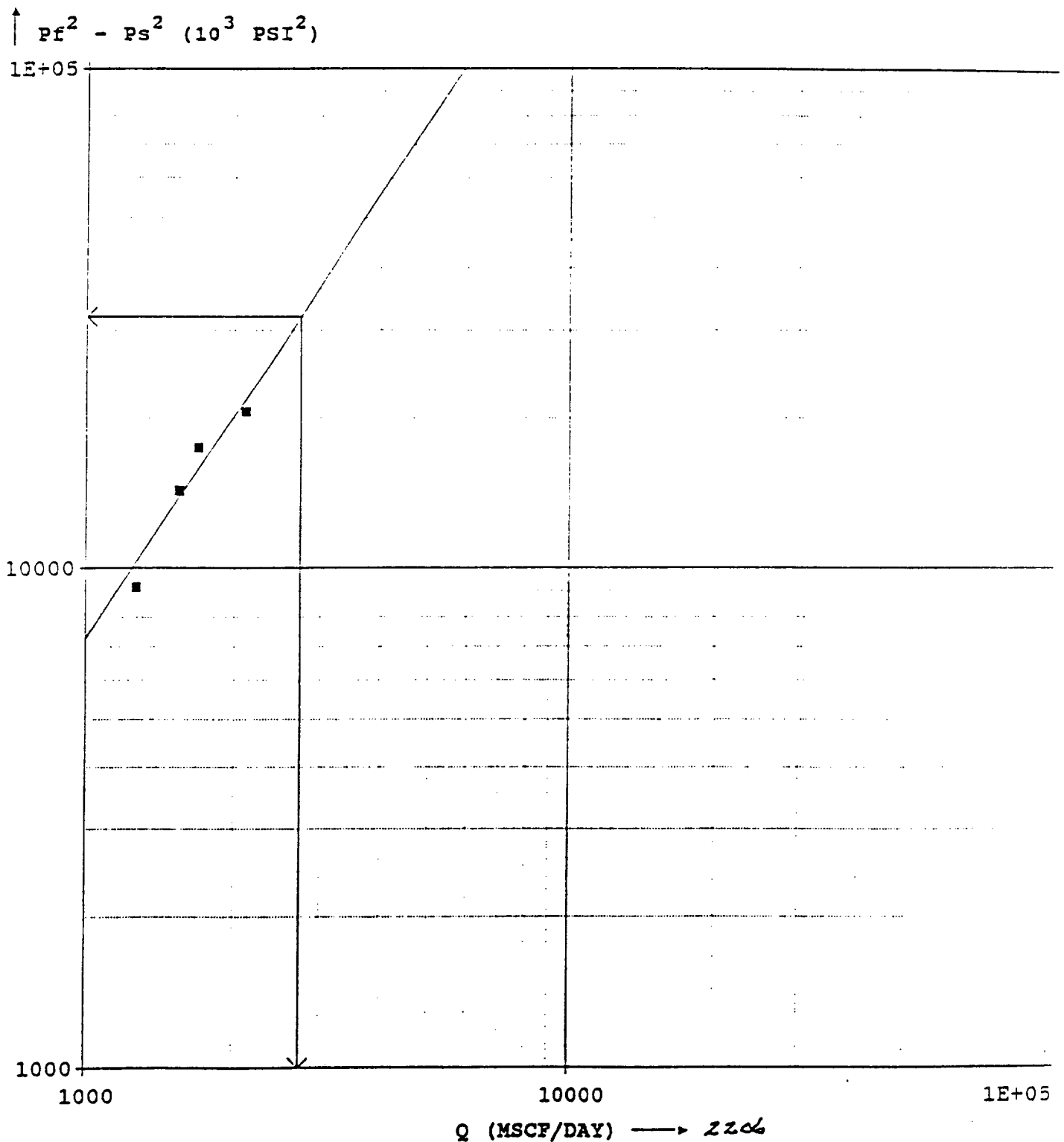
CLIENT: Bass Enterprises Prod. Co.

WELL: James Ranch #15

Test Date: 11-FEB-1991

County: Eddy, New Mexico

Calculated From BHP recorded Downhole



Well Tester: Op2/K 3-7-91

SCHLUMBERGER Testing

θ = 55.941 degrees

n = 0.6760

AOF = 2725.6 MSCF/DAY

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form O-100
Supersedes O-100
Effective 1-1-83

All distances must be from the outer boundaries of the Section

Operator BELCO DEVELOPMENT CORPORATION			Unit JAMES RANCH UNIT		Well No. 15
Unit Letter 	Section 7	Township 23S	Range 31E	County Eddy	
Actual Footage Location of Well: BHL					
660	feet from the	South	1980	feet from the	East
Ground Level Elev. -	Producing Formation Atoka-Morrow		Pool Los Medanos - Morrow Los Medanos - Atoka	Dedicated Acreage 322.71 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?

☒ Yes ☐ No If answer is "yes," type of consolidation Communitization Agreement

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.

B.H.L. James Ranch Unit #14	
SW/4 Conoco Inc., 100% NM-02887-A (162.71 Ac)	SE/4 Bass Entp. Prod. Co., 100% NM-02887-B (160.0 Ac)
Proposed BHL 660 FSL & 1980 FEL	

CERTIFICATION

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

P. E. Ilavia

Name

P. E. Ilavia

Position

Division Drilling Engineer

Company

Belco Development Corp.

Date

2-16-84

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

Registered Professional Engineer
in the State of New Mexico

Signature of P.E.

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

SURFACE LOCATION

Form C-102
Supersedes C-123
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

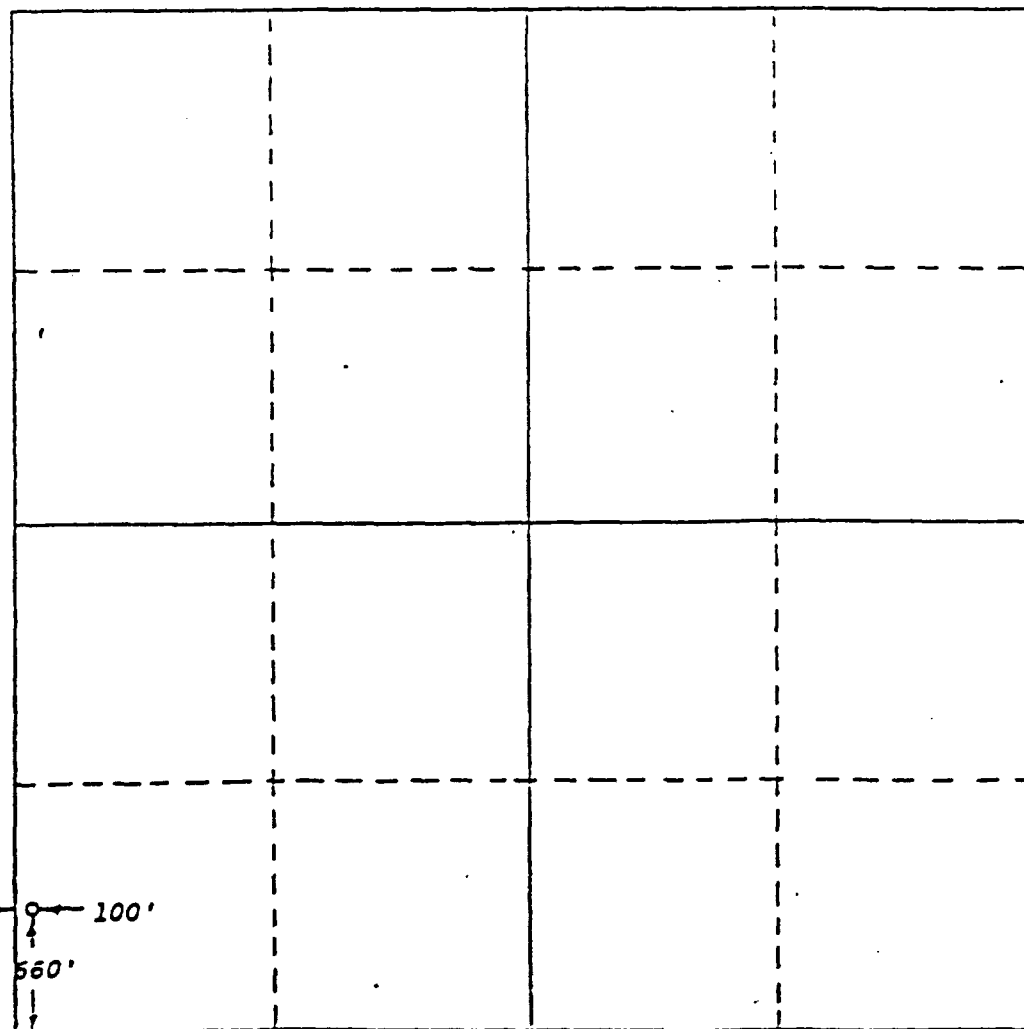
Operator BELCO DEVELOPMENT			Lease James Ranch Unit		Well No. 15
Unit Letter	Section 8	Township T-23-S	Range R-31-E	County Eddy	
Actual Footage Location of Well: 660 feet from the South line and 100 feet from the West line					
Ground Level Elev. 3311'	Producing Formation		Pool	Dedicated Acreage: Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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?

☐ 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 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.

Name _____

Position _____

Company _____

Date _____

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

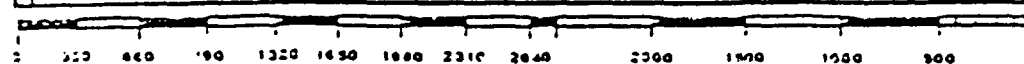
January 10, 1984

Registered Professional Engineer
and/or Land Surveyor

Ray D. Boswell

Certificate No.

6639



JAMES RANCH UNIT NO. 15

LOCATION: SURF: UNIT LETTER M, SEC 8, T23S, R31E

BHL: UNIT LETTER O, SEC 7, T23S, R31E

API NO: 30-015-24780

ELEVATIONS: GL 3311' DF 3338' KB 3339'

SPUD DATE: 4/10/84; COMP DATE: 10/11/84

BASS ENTERPRISES

LOS MEDANOS MORROW GAS

EDDY COUNTY, NM

DATE: 10/8/90; GP

20" 9-7/8" FT H-40 CSA 610'. CMTD
W/700 SX LITE + 400 SX CL C.
CMT CIRC. HOLE SIZE 20".

13-3/8" 54.5, 61 & 72 #/FT NA GRADE
CSA 4012'. CMTD W/3150 SX LITE +
400 SX CL C. CMT CIRC. HOLE SIZE
17-1/2".

7-5/8" 29.7, 37 & 39 #/FT NA GRADE CSA
12265'. CMTD W/743 SX LITE + 200
SX CL H. TOC @ 6936'. HOLE SIZE
9-7/8".

5" 18 #/FT N-80 LSA 15090'. CMTD
W/430 SX. CMT CIRC. TOL @ 11811'.
HOLE SIZE 6-1/2".

PROPOSED RECOMP FROM MORROW
TO ATOKA

COMPLETION EQUIPMENT

433 JTS (13,420') 2-3/8" 4.7 #/FT N-80
EUE TBG

1.31" F NIPPLE

1 JT (30') 2-3/8" 4.7 #/FT N-80 EUE 9RD TBG

BAKER MODEL E-22 TBG SEAL ASSEMBLY

BAKER MODEL DB PRODUCTION PKR

MILLCUT EXTENSION

2-3/8" SUB

1.31" F NIPPLE

2-3/8" SUB

1.78" R NIPPLE

2-3/8" SUB

WIRELINE ENTRY GUIDE

PKR: BAKER MODEL DB PERMANENT PSA 13450'

PERFS: 13482-13513' (4 JSPP) (25 HOLES)

CIBP @ 14450' CAPPED W/35' CMT

PERFS: 14486-82' (2 SPF) (13 HOLES)

14510-24' (2 SPF) (29 HOLES)

14530-38' (2 SPF) (17 HOLES)

14544-76' (2 SPF) (65 HOLES)

REPERFD: 14486-576' (11/29/88)

P80: 15011'

TD: 15090'

10	100	BWPM	1000	10000
100	1000	MCFFPM	10000	100000
.1	1.0	BOPM	10.0	100.0

1991



1992

YEAR

1993

Well: ALL
 Field Name: W. SAND DUNES ATOKA
 Reservoir: ATOKA BANK
 GAS 03/91 C= 25.215 R= 157.352

OIL +--+--+--+--+
 GAS *-----*
 WATER X--X--X--X--X-

BASS ENTERPRISES PRODUCTION COIL CONSERVATION DIVISION
FIRST CITY BANK TOWER
201 MAIN ST.
FORT WORTH, TEXAS 76102
817/390-8400

'91 APR 22 AM 9 53

#472

April 17, 1991

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

Attention: Mr. Floyd R. Prando
Director of Oil and Gas Division

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico

Attention: Mr. Bill LeMay

Re: First Amendment to the 1991 Plan of Development
James Ranch Unit
Eddy County, New Mexico

Gentlemen:

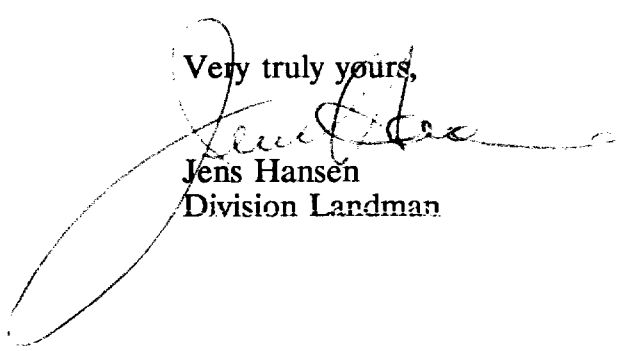
In accordance with Section 10 of the James Ranch Unit Agreement dated April 22, 1953, Bass Enterprises Production Co., Operator of the referenced unit, submitted a Plan of Development for the year 1991, which was subsequently approved by your office. Since we submitted the Plan of Development under date of December 26, 1990, information has become available that requires a change of plans for operations in this unit.

On February 11, 1991, the James Ranch Unit No. 15 was recompleted in the Atoka Bank. The well potentialized at a top flow rate of 2.2 MMCF per day at a reservoir pressure equivalent to that of the Pure Gold "C" Federal No. 2 located in the N/2 of said Section 17, T23S-R31E, and the Pure Gold "C" Federal No. 1 located in the S/2 of said Section 17. The James Ranch Unit Well No. 16 was scheduled to be drilled in the W/2 of Section 8, T23S-R31E, under the 1991 Plan of Development. This 320 acre proration unit is located within the Atoka Bank reservoir, which was the primary objective for this well. According to our information, the three (3) above named wells are capable of adequately depleting the Atoka Bank reservoir. And when considering that drilling a well in the W/2 of Section 8 would have cost approximately three million dollars (\$3,000,000.00), the prospects for economic waste are all but made certain.

April 17, 1991
Page 2

Therefore, Bass Enterprises Production Co., Operator of the referenced unit, respectfully requests that the 1991 Plan of Development for the James Ranch Federal Unit be amended by deleting the James Ranch Unit No. 16. Please indicate your consent by signing in the space provided below and returning one (1) copy of this letter for our records.

Very truly yours,


Jens Hansen
Division Landman

JH:ca

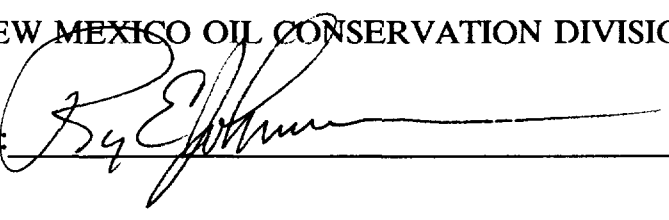
AGREED AND ACCEPTED this _____ day
of _____, 1991.

COMMISSIONER OF PUBLIC LANDS

By: _____

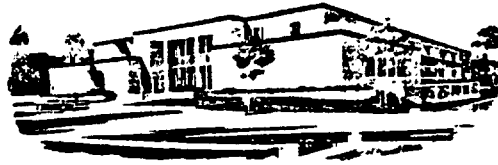
AGREED AND ACCEPTED this 22nd day
of APRIL, 1991.

NEW MEXICO OIL CONSERVATION DIVISION

By:  _____

#472

State of New Mexico



JIM BACA
COMMISSIONER

Commissioner of Public Lands

P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

January 3, 1991

Bass Enterprises Production Company
First City Bank Tower
201 Main Street
Fort Worth, Texas 76102

Attn: Jens Hansen

Re: James Ranch Unit
Eddy County, New Mexico
1991 Plan of Development

Dear Mr. Hansen

The Commissioner of Public Lands has this date approved the 1991 Plan of Development for the James Ranch Unit. Our approval is subject to like approval by all other appropriate agencies.

There is a possibility of drainage by wells outside the Unit Area and the need for further development may exist.

If we may be of further assistance please contact Clyde Langdale at (505) 827-5791.

Sincerely,

JIM BACA
COMMISSIONER OF PUBLIC LANDS

By Clyde Prando
By:
Floyd O. Prando, Director
Oil, Gas & Minerals Division

JB/FOP/CL/dm

cc: OCD
Unit POD File
Unit Correspondence File

BASS ENTERPRISES PRODUCTION CO.

FIRST CITY BANK TOWER

201 MAIN ST.

FORT WORTH, TEXAS 76102

817/390-8400

#472

December 26, 1990

Bureau of Land Management
P. O. Box 1397
Roswell, New Mexico 88201

Attention: Mr. Joe Lara

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico 87504-1148

Attention: Mr. Floyd Prando

New Mexico Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico

Attention: Mr. Bill LeMay

Re: 1991 Plan of Development
James Ranch Unit
Eddy County, New Mexico

Gentlemen:

In accordance with Section 10 of the James Ranch Unit Agreement dated April 22, 1953, Bass Enterprises Production Co., Operator of the referenced unit, hereby submits a Plan of Development for the James Ranch Unit for the year 1991.

HISTORY OF PAST DEVELOPMENT

We refer to our previous Plans of Development for a detailed description of the operations conducted in this Unit in prior years.

1990 ACTIVITY

Ongoing geological evaluation was made for future development of this unit.

PARTICIPATING AREAS

According to our records, Bass Enterprises Production Co. has submitted all wells drilled to date where adequate production information is available for commercial determination and participating areas, with the exception of the James Ranch Well No. 3 which will be submitted during 1991. In the event you have not received commercial determinations for all of our wells drilled to date, as well as proposed participating areas when appropriate, please advise us at your convenience and we will submit same to you.

FUTURE DEVELOPMENT

We plan to drill the following test well during the year 1991 at the following location:

James Ranch Unit Well No. 16 - Surface location of 660' FSL and 100' FWL, Section 8, to be directly drilled to a bottomhole location of 1,980' FSL and 660' FWL of Section 8, T23S-R31E, Eddy County, New Mexico. Current plans are for this well to be drilled to a depth sufficient in which to test all potentially productive formations down to the Morrow formation.

OFFSET OBLIGATIONS

Appropriate and adequate measures will be taken to prevent drainage of unitized substances from lands subject to James Ranch Unit Agreements or pursuant to applicable regulations.

MODIFICATIONS

In accordance with the terms and provisions of the James Ranch Unit Agreement, this Plan of Development may be modified from time to time as a result of changing conditions.

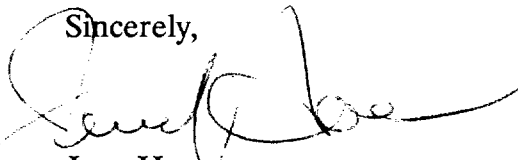
EFFECTIVE DATE

This Plan of Development shall be effective from January 1, 1991 to December, 1991.

December 26, 1990
Page 3

If this Plan of Development meets with your approval, please so indicate by signing in the appropriate space provided below and return one (1) signed original to us for our records.

Sincerely,



Jens Hansen
Division Landman

JH:ca

ACCEPTED AND AGREED this 2nd day of Jan., 1991.

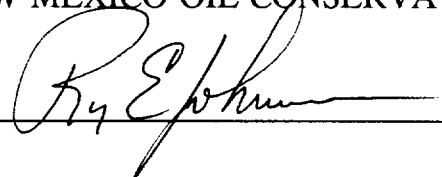
BUREAU OF LAND MANAGEMENT

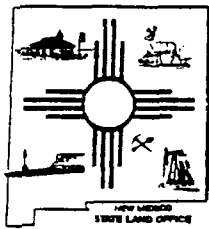
By: _____

COMMISSIONER OF PUBLIC LANDS

By: _____

NEW MEXICO OIL CONSERVATION DIVISION

By:  _____



State of New Mexico
Commissioner of Public Lands

April 2, 1990

W. R. Humphries
COMMISSIONER

Advisory Board

George Clark
Chairman

Kristin Conniff
Vice Chairman

Melvin Cordova

Joe Kelly

Robert Portillos

Nancy Lynch Vigil

Rex Wilson

Bass Enterprises Production Co.
First City Bank Tower
201 Main Street
Fort Worth, Texas 76102

ATTN: Mr. Jens Hansen

RE: ~~Jmes~~ Ranch Unit
Eddy County, New Mexico
1990 Plan of Development

Gentlemen:

The Commissioner of Public Lands has this date approved the 1990 Plan of Development for the Jmes Ranch Unit. Our approval is subject to like approval by all other appropriate agencies.

In our letter to you, dated January 3, 1990, we requested information about the Unit that we did not receive in the Plan of Development that you submitted. Attached is a checklist that identifies the information that was omitted. Please submit this information at your earliest convenience.

The possibility of drainage by wells outside of the Unit Area and the need for further development of the Unit may exist. You will be contacted at a later date regarding these possibilities.

Enclosed is an approved copy of the 1990 Plan of Development for your files. If we may be of further help, please do not hesitate to contact Susan Howarth at (505) 827-5791.

Very truly yours,

W.R. HUMPHRIES,
COMMISSIONER OF PUBLIC LANDS

BY: *Floyd O. Prando*
FLOYD O. PRANDO, Director
Oil and Gas Division
(505) 827-5749

cc: OCD - Santa Fe, New Mexico
BLM
Unit Correspondence File
Unit P.O.D. File

WRH/FOP/SMH