OIL CONSERVATION DIVISION 2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131

August 13, 1997

Enron Oil & Gas Company P.O. Box 2267 Midland, Texas 79702

Attention: Mr. Randall S. Cate

Re:

Production Allocation

James Ranch Unit Well No. 71

Division Order Nos. R-10304, R-10558

Dear Mr. Cate:

Pursuant to the production data submitted June 26, 1997 on the James Ranch Unit Well No. 71, the allocation of production from the well is hereby established as follows:

Pool	Oil %	Gas %
SE Quahada Ridge-Delaware Pool	90%	84%
Los Medanos-Bone Spring Pool	6%	13%
South Los Medanos-Wolfcamp Pool	4%	3%

Such production allocation is effective March 1, 1997. If you should have any questions, please contact Mr. David Catanach at (505) 827-8184.

Sincerely,

William J. LeMay

Director

WJL/DRC

xc:

OCD-Artesia

Case Files-11181, 11424

ENRONOil & Gas Company

JUN 26 1997

P. O. Box 2267

Midland, Texas 79702

(915) 686-3600

June 24, 1997

NMOCD 2040 S. Pacheco Santa Fe, NM 87505-6429

Attn.: Mr. David Catanach

Re: Enron Oil & Gas Company James Ranch Unit No. 71 Downhole Commingling

Allocation of Production

Dear Mr. Catanach,

Pursuant to Order No. R-10558, Enron Oil & Gas requests that the Division approve the submitted allocation formula effective March 1, 1997. The following summarizes the well chronology:

11/94 Completed as commingled Bone Spring/Wolfcamp producer (attached Order

No. R-10304)

11/96 Completed Delaware pay; required pumping

3/97 Commingled all three pays on pump

6/21/97 Pumping 93 BOPD, 251 MCFD, 39 BWPD

Also attached is the results of a measured FBHP taken 11/12/96 on the Bone Spring/Wolfcamp. FBHP was 2,599 psig. The well was not yet on pump. A recent NABLA Dynamometer and fluid level evaluation determined a pump intake pressure of 739 psig at 10,891'. The well is essentially "pumped off".

If you have any questions or additional data requirements please call the undersigned at telephone number (915) 686-3698.

Sincerely,

ENRON OIL & GAS COMPANY

Randall S. Cate

Project Reservoir Engineer

RSC/krp

Attachments

CC:

NMOCD - Artesia, NM

m:\cate\kp129rsc.doc

Mr. Tim Gum

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-107-A New 3-12-96

DISTRICT II

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

OIL CONSERVATION DIVISION

APPROVAL PROCESS:

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

Х	Administrative	Hearing

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410-1693

TYPE OR PRINT NAME Randall S. Cate

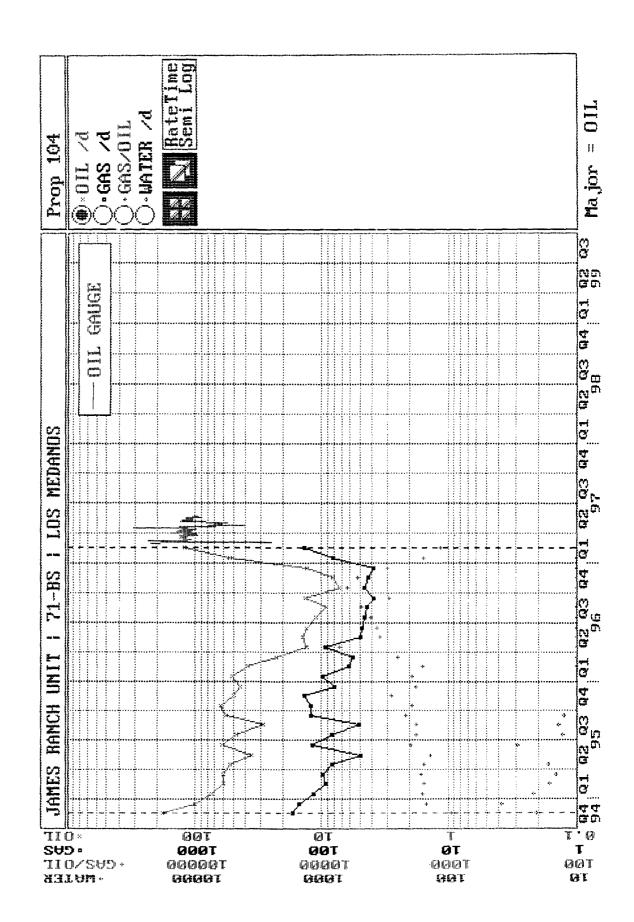
APPLICATION FOR DOWNHOLE COMMINGLING

EXISTING WELLBORE

X YES ___ NO

Enron Oil & Gas Company		P. O. Box 2267, Midland, TX 79702		
Operator James Ranch Unit		uaress A-36-22-30	Eddy	
Lease OGRID NO. <u>07377</u> Property Co	004060	Spacing Unit 0-015-25807-1 Federal,	County Lease Types: (check 1 or more) State X (and/or) Fee	
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone	
Pool Name and Pool Code	S.E. Quahada Ridge Delaware (50443)	Los Medanos (Bone Spring)(40295)	South Los Medanos Wolfcamp (96336)	
Top and Bottom of Pay Section (Perforations)	7,566-7,574	10,880-10,938	11,091-11,124	
3. Type of production (Oil or Gas)	Oil	Oil	Oil	
Method of Production (Flowing or Artificial Lift)	Pump	Pump	Pump	
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current	(Current) a. 480 psig	a. 713 psig	a. 785 psig	
Gas & Oil - Flowing: Measured Current All Gas Zones: Estimated Or Measured Original	(Original) b.	b.	b.	
6. Oil Gravity (^O API) or Gas BTU Content	41.0	47.8	47.8	
7. Producing or Shut-In?	Producing	Producing	Producing	
Production Marginal? (yes or no)	No	Yes	Yes	
If Shut-In, give data and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data	Date: Rates:	Date: Rates:	Date: Rates:	
If Producing, give date and oil/gas/ water rates of recent test (within 60 days)	Date: 2/19/97 Rates: 86 BO, 175 MCF, 26 BW	Date: 11/7/96 (Commingled) Rates: 6 BO, 27 MCF, 1 BW	Date: 11/7/96 (Commingled) Rates: 4 BO, 7 MCF, 0 BW	
8. Fixed Percentage Allocation Formula - % for each zone	Oil: 90% Gas: 84%	Oil: 6% Gas: 13%	Oii: 4% Gas: 3%	
If allocation formula is based u submit attachments with support	pon something other than cur ting data and/or explaining me	rent or past production, or is bathod and providing rate projection	sed upon some other method, as or other required data.	
 Are all working, overriding, and If not, have all working, overriding Have all offset operators been g 	ng, and royalty interests been n	otified by certified mail?	X Yes No X Yes No	
		compatible, will the formations no be reliable Yes No		
12. Are all produced fluids from all o	commingled zones compatible	with each other? X Yes	No	
13. Will the value of production be d	ecreased by commingling?	Yes X No (If Ye	es, attach explanation)	
 If this well is on, or communitize United States Bureau of Land Ma 	d with, state or federal lands, e anagement has been notified in	either the Commissioner of Public writing of this application. X	Lands or the Yes No	
15. NMOCD Reference Cases for Ru	le 303(D) Exceptions:	ORDER NO(S). R-10558 (c	covers this well)	
Production curve for example in the following products to support allocated to the following product in the followin	ach zone for at least one year. (N luction history, estimated produc ion method or formula. ffset operators.	rests for uncommon interest cases.		
I hereby certify that the information a	bove is true and complete to the	e best of my knowledge and belief	f.	
SIGNATURE	TIT	TF Project Reservoir Engir	neer DATE 6/24/97	

TELEPHONE NO. (915) 686-3698



Nabla Corporation

2064 Market Street (915) 697-2228 voice Midland, TX 79703 (915) 697 - 0192 fax

Determination of Pump Intake Pressure from Fluid Level and Modified Gilbert S - Curve

Well Name: ENRON; JAMES RANCH NO. 71

Date: 06-03-1997

Analysis Number: 5V7-6-3-2

Pump Intake Pressure (psi): 739 Pump Submergence (ft): 8263 Fluid Level from Surface (ft): 2718

Dead Fluid Pump Submrg. (ft): 1777

<<<< Casing Rates and Gradients >>>>

Dead Liquid Gradient (psi/ft): .353 Liquid/Gas Gradient (psi/ft): .076

Dead Fluid Level (ft): 9204

Estimated Casing Gas Rate (mcf/day): 183.4

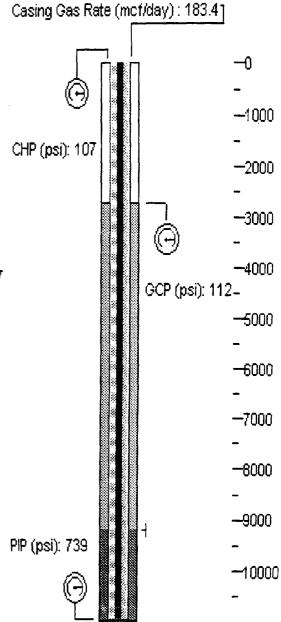
<<<< Other Documentary Data >>>>

Pump Depth (ft): 10981

Casinghead Pressure (psi): 107

Gas Column Pressure (psi): 112

Casing Prss. Buildup (psi): 2.231 Pressure Buildup Time (min): 1.



JARREL SERVICES, INC. Box 1230 Hobbs, New Mexico 88240

<<Flowing Gradient Survey>>

Date: 11/12/96 @ 3:25 pm

CONTACT: Bill Howard COMPANY: Enron Oil & Gas Company

LEASE: James Ranch Unit WELL: #71

FIELD: Los Medanis ZONE: Wolfcamp COUNTY: Eddy STATE: New Maxico OPERATOR: Harrah STATUS: Flowing

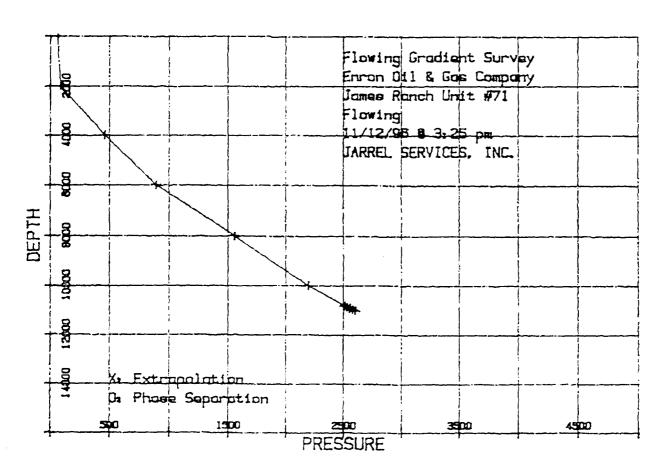
PERFORATIONS FROM: 10880 ft TO: 11124 ft

DEPTH: 11002 ft TEMPERATURE: 167'F

TABULAR DATA

1911111111111111111111	-x- -s-		**************************************
DEPTH	PRESSURE	GRADIENT	EXPLANATIONE
(ft)	(psi)	(psi/ft)	
**********			20222222222222
0	5 9		
2000	86	0.014	
4000	458	0.186	
6000	889	0.216	
B000	1554	0.333	
10000	2192	0.319	
10802	2506	0.392	
10852	2529	0.460	
10902	2553	0.480	
10952	2576	0.460	
11002	2579	0.460	

NOTE: Explanations are included to clarify calculated data points.



OIL CONSERVATION DIVISION

ADMINISTRATIVE AMENDMENT OF DIVISION ORDER NO. R-10304

Enron Oil & Gas Company P.O. Box 2267 Midland, Texas 79702-2267

Attention: Ms. Kathy Nobs

James Ranch Unit Well No.71 Unit A, Section 36, Township 22 South, Range 30 East, NMPM, Eddy County, New Mexico. South Los Medanos-Wolfcamp and Los Medanos-Bone Spring Pools

Dear Ms. Nobs:

Reference is made to your recent request to amend Division Order No. R-10304, which authorized downhole commingling of the referenced well, by modifying the allocation of production from the subject pools.

It appearing that reservoir damage or waste will not result from amending the allocation of production, and correlative rights will not be violated thereby, you are hereby authorized to allocate production from the commingled pools as described below.

In accordance with the provisions of Rule 303-C-4., total commingled oil production from the subject well shall not exceed 80 barrels per day, and total water production shall not exceed 160 barrels per day. 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 Southeast Gas Proration Schedule.

Assignment of allowable to the well and allocation of production from the well shall be on the following basis:

South Los Medanos-Wolfcamp Pool	Oil 36%	Gas 20%
Los Medanos-Bone Spring Pool	Oil 64%	Gas 80%

FURTHER: This amendment is hereby made a part of Division Order No. R-10304 and all other provisions of such shall remain in full force and effect.

Pursuant to Rule 303-C-5, the commingling authority granted by the order may be rescinded by the Division Director if, in his opinion, conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on this 18th day of August, 1995.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

Director

SEAL

WJL/BES

cc: Oil Conservation Division - Artesia

Case File No.11181