## MONTHLY PRODUCTION TABULATION

### HAPPY VALLEY FED. COM. #1

### SHEEP DRAW STRAWN NORTHEAST POOL

<u>Month &amp; Year</u>	Gas <u>MCF</u>	Condensate <u>Bbls</u>	Water <u>Bbls</u>	Cumulative Gas MCF		
8/87	163,932	1,403	0	163,932		
9/87	153,445	2,095	25	317,377		
10/87	162,848	824	12	480,225		
11/87	115,683	203	14	595,908		
12/87	57,702	0	50	653,610		
1/88	12,286	0	40	665,896		
2/88	6,639	0	41	672,535		

Source: All data (except 8/87) from "Monthly Statistical Report", Vol. III, Southeast New Mexico, compiled and edited by New Mexico Oil Conservation Commission. August, 1987 from Exxon Records. (No record in above reference.)

EXXON	CORP	ORA	TION
NMOCD	Case	No.	9387
Exhibit	No	3	
Hearing	Date:	5-2	5-88





NMOCD Case No. 9387

**EXXON CORPORATION** 

Hearing Date: 5-25-88

Exhibit No.

P/Z (PSIA)



Hearing Date: 5-25-88

Exhibit No.

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EXXON CORPORATION NMOCD Case No. 9387 Exhibit No. <u>6</u> Hearing Date: 5-25-88

## ANNUAL PRODUCTION CAPABILITY Happy Valley Fed. Com. #1 (Morrow)



YEAR 1

EXXON CORPORATION NMOCD Case No. 9387 Exhibit No. \_\_\_\_\_\_ Hearing Date: 5-25-88

## MORROW EQUITY CONSIDERATIONS

A. HAPPY VALLEY FED. COM. B #1 MORROW ZONE:

 $C_1 \frac{Kh}{\emptyset h} = C_1 \frac{92.5 \text{ md} - \text{ft}}{1.94 \text{ porosity} - \text{ft}} = C_1 (47.91)$ 

B. HAPPY VALLEY FED. COM. #1, MORROW ZONE, NON COMINGLED:

$$C_1 \frac{Kh}{\partial h} = C_1 \frac{53.2 \text{ md} - \text{ft}}{1.91 \text{ porosity} - \text{ft}} = C_1 (27.85)$$

• Happy Valley B #1 Happy Valley #1 =  $\begin{pmatrix} C_1 \\ C_1 \end{pmatrix} \begin{pmatrix} 47.91 \\ 27.85 \end{pmatrix} = 1.72$ 

PROGNOSIS: HAPPY VALLEY FED. COM. #1 WILL MORE EFFECTIVELY CAPTURE ITS SHARE OF RESERVES AND PREVENT DRAINAGE IF ALLOWED TO PRODUCE AT AN AVERAGE RATE OF 1.7 TIMES EXPECTED NON-COMINGLED RATE.

> EXXON CORPORATION NMOCD Case No. 9387 Exhibit No.\_\_\_\_\_\_ Hearing Date: 5-25-88

### PRODUCTION ALLOCATION FORMULA

HAPPY VALLEY FED. COM. #1

Gas Allocation

\*Happy Valley Morrow Pool: \*\*Sheep Draw Strawn Northeast Pool: Total Gas: 

 Children
 %

 Est. Reserves
 %

 3100 MMSCF
 96

 130 MMSCF
 4

 3230 MMSCF
 100

\*3090 MMSCF estimated initial potential declined at 30% to economic limit. \*\*Estimated reserves from P/Z plot.

Condensate Allocation

Happy Valley Morrow Pool: <u>Sheep Draw Strawn Northeast Pool:</u> Total Condensate:

0 <u>100</u> 100

\_%\_

(Morrow produces no liquids) (Strawn has cumed 6.7 Bbl/MMSCF)

EXXON CORPORATION NMOCD Case No. 9387 Exhibit No. \_\_\_\_\_ Hearing Date: 5-25-88



CLIENT:	DUKE SERVICES INC	ANALYSIS NUMBER:	7565
ADDRESS:	1306 W BROADWAY	DATE OF RUN:	07/15/85
CITY, STATE:	HOBES NM 88240	DATE SECURED:	07/14/85

EXXON CO USA - HAPPY VALLEY FED COMM #1 SAMPLE IDENT: SAMPLING PRESS: SAMPLING TEMP: STRAWN

\*\*\*\*\*\*\*\*\* GAS ANALYSIS \*\*\*\*\*\*\*\*

	MOLE	GAL/
	PERCENT	MCF
NITROGEN	0.314	
CARBON DIOXIDE	0.461	
METHANE	90.285	
ETHANE	5.789	1.544
PROPANE	1.785	0.490
30-BUTANE	0.402	0.131
NORMAL BUTANE	0.443	0.139
IS0-PENTANE	0.201	0.074
NORMAL PENTANE	0.109	0.039
HEXANES	0.211	0.087
TOTAL	100.000	2.504

PROPANE GPM:	0.49	BUTANES GPM:	0.27
ETHANE GPM:	1.54	PENTANES PLUS GPM:	0.20
SPECIFIC GRAV MOLE WEIGHT:	(CALC):	0.6287 18.21	
HHV-BTU/CU FT	PRESSURE	(PSIA) WET	DRY
	14.696	1090	1110
	14.650	1087	1106
	14.730	1093	1112
	14.735	1093	1112

Exxon Corporat	ion
NMOCD Case No.	9387
Exhibit No.	IT A
Hearing Date:	5/25/88

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CLIENT:	EXXON CO USA	ANALYSIS NUMBER:	898 <b>3</b>
ADDRESS:	1730 W BROADWAY	DATE OF RUN:	02 25 86
CITY, STATE:	ANDREWS, TX 79714	DATE SECURED:	02 24 86

SAMPLE IDENT: HAPPY VALLEY FEDEAL COM "B" ≠1 <u>MORROW</u> SAMPLING PRESS: SAMPLING TEMP:

REMARKS: H<sub>2</sub>S - None Detected

\*\*\*\*\*\*\*\*\* GAS ANALYSIS \*\*\*\*\*\*\*\*

	MOLE	EAL/
	PERCENT	MCF
NITROGEN	<b>3.</b> 139	
CARBON DIOXIDE	1.080	
METHANE	<b>75.</b> 987	
ETHANE	2.321	0.619
FROPANE	2.349	0.096
ISO-BUTANE	0.242	0.014
NORMAL BUTANE	0.062	0.019

PROPANE GPM:	2.12	BUTANES GPM:	0.03
ETHANE GENT	0.62	GENTANES PLUS GAM:	C. 33

SPECIFIC GRAV (CALC): 2.5812 MOLE WEIGHT: 16.83

HHV-8TU/CU FT	PREBSURE (PS1A 14.596 14.650 14.730 14.735	) WET 1021 1022 1007 1007	DRY 1023 1019 1025 1025	Exxon Corporation NMOCD Case No. 9387 Exhibit No. <u>/0/8</u> Hearing Date: 5/25/88
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# SIZE OF STRAWN RESERVOIR Happy Valley Fed. Com. #1



1. 
$${}^{*}$$
OGIP = 890 MMSCF =  $\frac{1.5074 \text{ Ah}\emptyset (1-\text{Sw}) \text{ Pi}}{\text{Zi TF}}$ 

Where: TF = 176 °F = 636 °R Pi = 3693 PSIA , Sw = 0.18  $Z_i = 0.9057$  ,  $\phi = .1096$ 

# A = 22.3 ACRES

2. Assuming a Disc Shaped Reservoir: A = 22.3 Acres = 22.3 x 43,560  $Ft^2 = \pi R^2$ 

# R = 556 FT. RADIUS

\*OGIP Equation from:

"Applied Petroleum Reservoir Engineering," B.C. Craft and M.F. Hawkins, Prentice-Hall Inc., 19th Printing, 1959, Pages 24 & 26. EXXON CORPORATION NMOCD Case No. 9387 Exhibit No. <u>||</u> Hearing Date: 5-25-88 Hydrocarbon Storage Guidelines 70-6-4, et seq., NMSA Happy Valley Fed. Comm. No. 1

- Strawn Reservoir in this well is incapable of producing oil in paying quantities.
- Strawn Reservoir was gas productive but is substantially depleted. Recovery of remaining gas reserves will not be diminished by proposed storage operations.
- There are no known commercial deposits of potash over the Strawn Reservoir.
- The proposed storage operations in the Strawn will not injure surface or underground water resources.
- No other wells used for injection, storage, or withdrawal exist in the Strawn reservoir proposed for storage operations.
- No appropriation of property is proposed.

Exxon Corporation NMOCD Case No. 9387 Exhibit No. <u>/2</u> Hearing Date: 5/25/88

### PROJECT SUMMARY

Objective: To downhole commingle the Sheep Draw Strawn Northeast Pool with the Happy Valley Morrow Pool, and to use the Strawn Reservoir for intermittent hydrocarbon storage.

#### Reasons:

- 1. The Sheep Draw Strawn Northeast Pool is essentially depleted. Commingling will eventually place the Strawn on compression with the Morrow, and increase ultimate Strawn recovery by 130 MMSCF.
- 2. The high peaking capacity will allow this well to better meet swing demands by the purchaser and make gas more readily available to the domestic, commercial, and industrial consumers.
- 3. The project promotes the building of reserves (summer) for orderly withdrawal in periods of peak demand (winter).
- 4. More gas will be sold during peak demand when prices are higher. This will result in a higher average sales price.
- 5. Happy Valley Fed. Com. #1 would be better protected from drainage by Happy Valley Fed. Com. B #1 (the offset Morrow well to the South).
- 6. The added peaking capability will allow this well to produce at an average annual rate that is close to Morrow capacity.

## EXXON CORPORATION NMOCD Case No. 9387 Exhibit No. <u>13</u> Hearing Date: 5-25-88

# EXON COMPANY, U.S.A.

POST OFFICE BOX 1600 . MIDLAND, TEXAS 79702-1600

PRODUCTION DEPARTMENT SOUTHWESTERN DIVISION

May 2, 1988

Request for Downhole Commingling and Hydrocarbon Storage Authority Happy Valley Fed. Comm. No. 1 N/2 Sec. 28, T-22-S, R-26-E Eddy County, New Mexico

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

Attention: Mr. Michael E. Stogner

Exxon Corporation requests an exception to Rule 303-A of the Division Rules and Regulations to permit downhole commingling of Happy Valley (Morrow) production with the Happy Valley (Strawn) in the captioned wellbore. In addition, we request approval to use the small Strawn reservoir for hydrocarbon storage pursuant to Section 70-6-1 et seq. of the New Mexico Statutes, Annotated and exemption from the reporting requirements of Rule 1131. By copy of this letter all offset operators and the Bureau of Land Management have been notified of this application. Please set this application for hearing on May 25, 1988.

Sincerely. James D. Howel

JDH:jr Attachments Certified Mail - w/attachments

c: Mr. James Bruce - Santa Fe, NM Offset Operators District II - NMOCD, Artesia, NM Bureau of Land Management, Carlsbad, NM 2 copies to addressee

> Exxon Corporation NMOCD Case No. 9387 Exhibit No. /4 Hearing Date: 5/25/88

#### Attachment 1

Happy Valley Fed. Comm. #1 Downhole Commingling - Data Required

To obtain approval for downhole commingling, we have enclosed the following data pursuant to Rule 303 (C) (2) (a through j):

1. Exxon's name and address:

Exxon Corporation P. O. Box 1600 Midland, TX 79702

2. Lease name, well number, well location, and name of pools to be commingled:

Happy Valley Fed. Comm. #1, Unit G, Section 28, T-22-S, R-26-E, Eddy County, New Mexico. Pools to be commingled: Happy Valley (Morrow) and Happy Valley (Strawn).

3. A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases:

Attached.

4. A 24-hour productivity test on Division Form C-116 showing the amount of oil, gas, and water produced from each zone:

The Strawn Form C-122 is attached. Since completion, the well has produced 523,000 mcf through 2/88 and is now essentially depleted. The Morrow has not been perforated.

5. A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes:

A plot of P/z vs. cumulative production for the Strawn indicates no remaining reserves unless compression is installed. Compression would add approximately 130,000,000 scf from the Strawn. All additional reserves should be attributed to the Morrow.

6. A current bottom hole pressure for each zone capable of flowing:

The measured BHP in the Strawn in the Strawn on December 22, 1987 was 1118 psia.

7. A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the wellbore:

See attached hydrocarbon analyses from the Strawn in the Happy Valley Fed. Com. #1 and the Morrow in the Happy Valley Fed. Com. "B" #1. Exxon does not anticipate any problem with formation damage from commingling the formation waters; neither completion produces significant amounts of liquids.

8. A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams:

The gas from both zones would be under the same gas contract. Value is based on btu content, therefore; the value of the commingled production will not be less than the values of the individual streams.

9. A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such a formula:

Production should be allocated as follows, based upon the ratio of remaining gas reserves:

Happy Valley (Strawn) 0.13 BCF - 4% Happy Valley (Morrow) 3.1 BCF - 96%

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All liquids should be attributed to the Strawn; the Morrow produces no liquids.

10. A statement that all offset operators and, in case of a well on Federal land, the United States Geological Survey, has been notified in writing of the proposed commingling:

All offset operators (list attached) and the BLM in Carlsbad have been notified by copy of this application.

Offset Operators Happy Valley Federal Com. #1 N/2 Sec. 28, T23S, R26E, Eddy County, NM

Amoco Production Company P. O. Box 3092 Houston, TX 77253 Attn: Proration Section

Arco Oil & Gas Company P. O. Box 1610 Midland, TX 79702

Chevron U.S.A., Inc. 15 Smith Road Midland, TX 79705

Cities Service Oil & Gas Corporation P. O. Box 300 Tulsa, OK 74102

Enron Oil & Gas Company (HNG) 508 W. Wall St., Ste 900 Midland, TX 79701

Read & Stevens, Inc. P. O. Box 1518 314 Security National Bank Bldg. Roswell, NM 88201

TXO Production Corporation 900 Wilco Bldg. 415 W. Wall St. Midland, TX 79701

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Read & Stephens (chevron)	*****		Hacaberry Hills Unit U.S.	EXXON EXXON (Guif)	T.A.Allon	State	LA Tomeing, Follow	Amoco TEXACO		<del>م</del> بر تې	Midwest Fed. U.S.	Атосо	¥ تې س		State	OMPANY, U.S.A. 4 PRODUCTION DIVISION MIDIANG TOTA	annue New Merico 26E Eddy New Merico counts J. R. Bartel / /180
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• STATE OF NEW MEXICO

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### OIL CONSERVATION DIVISION P. C. BOX 2082 ENERGY NO MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

form C-122 Revised 10-1-78

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COMPANY: EXXON COMPANY U ^ A LEASE: HAPPY VALLEY FED. JMM. #1 COUNTY: EDDY DATE: 7/17/85

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CLIENT:	EXXON CO USA	ANALYSIS NUMBER:	8983
ADDRESS:	1730 W BROADWAY	DATE OF RUN:	02 25 86
CITY, STATE:	ANDREWS, TX 79714	DATE SECORED:	02 24 86

SAMPLE IDENT:	HAPPY	VALLEY	FEDEAL	CO™:	۳Β۴	≠1	MORROW
SAMPLING PRESS:			SAM	-ING	TEM	2:	

REMARKS: H<sub>2</sub>S - None Detected

\*\*\*\*\*\*\*\*\* GAS ANALYSIS \*\*\*\*\*\*\*\*

	MOLE	GAL/
	PERCENT	MCF
NITROGEN	0.159	
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NORMAL BUTANE	`Ø.Ø6⊇	0.019

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ETHANE GFM:	0.62	Pentanes plus grm:	0.03
SPECIFIC GRAV	(CALC):	3.5812 16.93	

HHV-BTU/CU FT	PRESSURE (PSIA)	WET	DRY
	14.596	1025	1023
	14.650	1202	1019
	14.730	1007	1225
	14.735	1007	1025

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CLIENT:	DUKE SERVICES INC 3304 W BROADWAY	ANALYSIS NUMBER: Date of Run:	7565 07 ( ) 5 ( ) 5
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	14.070	1070	1110
	14.650	1087	1106
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DOMESTIC RETURN RECEIPT A share 7 if 11. '-11.11 ('172) 724. 221 • SENDER: Complete Items 1 and 2 when additional services are desired, and complete Items 3 and 4. Failure to do this will prevent this Put your address in the "RETURN TO" Space on the reverse side. Failure to do this will prevent this card from being returned to you. The return receipt fee will provide you the name of the person delivered to and the distry. For additional fees the following services are available. Consult postmester for fees and check box (se) for additional service(s) requested. 1.  $\Box$  Show to whom delivered, date, and addressed's address. 2.  $\Box$  Restricted Delivery f(Extra charge)? Always obtain signature of addressee or agent and DATE DELIVERED. 8. Addressee's Address (ONLY If requested and fee paid) 4. Article 303162 Certified Express Mail Type of Service: \* U.S.G.P.O. 1987-178-268 314 Security Nat'l Bank Bldg. Read & Stevens, Inc. P. 0. Box 1518-88201 んたら、 Roswell, NM PS Form 3811, Mar. 1987 5. Signature - Addressee 3. Article Addressed to: 6. Signatura 7 Agent WILLO' . Date of Delivery ľ, × ×

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Hearing Date: 5/25/88 NMOCD Case No. 9387 Exxon Corporation Exhibit No.

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F or pro / a / (a) A. A. C. C. Mr. A. I. I. SENDER: Complete items 3 and SENDER: Complete items 1 and 2 when additional services are desired, and complete items 3 and Always obtain signature of addressee or your address in the "RETURN TO" space on the reverse side. Failure to do this will prevent this d from being returned to you. The return receipt fee will provide you the name of the phracit, yered to and the date of delivery. For additional fees the following services are evailable. Con structure for fees and check box(es) for additional service(s) requested. 2. 🔲 Restricted Delivery. 8. Addressee's Address (ONLY I) requested and fee paid) agent and DATE DELIVERED. 4. Article Mundal 52 Type of Service Express Mail Show to whom delivered, date, and addresse's address. Bureau of Land Management 88200 Carlsbad, NM ignature - Addresser Box 1778 ste of Delivery as I anatu

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Show to whom delivered, date, and addresses's address. and a second second second second second New Mexico Oil Conservation 811 South First Street 05-05-1 3. Article Addressed to: Artesia, NM Division PS Form 2811, Feb. 1986 6. Signature – Agen 6. Signature - Add 7. Date of Delivery 4

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