

CHALK BLUFF DRAW UNIT AREA

EDDY COUNTY, NEW MEXICO

TO: Executive Secretary
New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Commissioner of Public Lands of the
State of New Mexico
Santa Fe, New Mexico

Supervisor
United States Geological Survey
Roswell, New Mexico

APPLICATION FOR APPROVAL OF PLAN OF DEVELOPMENT FOR
CHALK BLUFF DRAW UNIT AREA FOR CALENDAR YEAR 1960

Comes the undersigned, Humble Oil & Refining Company, the Unit Operator under the Chalk Bluff Draw Unit Agreement heretofore approved by the New Mexico Oil Conservation Commission, the Commissioner of Public Lands of the State of New Mexico and the Director of the United States Geological Survey, and submits for approval of the New Mexico Oil Conservation Commission, the Commissioner of Public Lands and the Supervisor of the United States Geological Survey a plan hereinafter set forth for the further development and operation of the Chalk Bluff Draw Unit Area for the calendar year 1960 and with respect thereto respectfully shows:

1. The latter part of January, 1959, applicant submitted for approval, in accordance with Section 10 of the unit agreement, a plan of development for the Chalk Bluff Draw Unit Area for the calendar year 1959 which was approved by the New Mexico Oil Conservation Commission on January 30, by the Commissioner of Public Lands on February 3, and by the Regional Supervisor of the United States Geological Survey on April 3, 1959.

That in accordance with the plan, as submitted, applicant as Unit Operator has caused to be drilled a fourth well on the unit area, known as the Chalk Bluff Draw Unit Well No. "C"-1, located 1980' from the East line and 1980' from the North line of Section 17, Township 18 South, Range 27 East. Said well was commenced on or about April 6, 1959, and completed on July 23, 1959, the same being drilled to a total depth of 9,850' and plugged back to a depth of 9,577'. The well was completed

in the Pennsylvanian (Bend) formation with a potential of 14,800 MCFD based on calculated open flow through perforations between 9,446' and 9,488'.

The above mentioned well, No. "C"-1, has been shut in since completion due to the lack of an existing market. The gas being produced from the participating area heretofore established has been sold to the Continental Artesia Refinery and periodically to drilling contractors since January 1, 1959, and Continental has thus far been unable to take any additional gas which might be produced from the No. "C"-1. Applicant is advised that the Trans Western Pipeline Company is to construct a gas pipe line which will run through the Chalk Bluff Draw Unit and probably within a distance of two to three miles from Well "C"-1; the date of the probable completion of this line is not known at the present time but undoubtedly will afford a favorable market for the production of gas from said well.

Due to the above market situation, no additional wells are contemplated to be drilled to the Pennsylvanian (Bend) formation, in which the above gas wells have been completed, for the year 1960 and it is anticipated that Well No. "C"-1 will remain shut in until such time as the Trans Western pipe line is completed.

2. Within the last several months a number of wells have been drilled along an Abo formation trend resulting in the completion of several oil wells producing from the Abo formation near the center of the East boundary line of the unit. The extent to which the Abo formation may be productive as to the lands included in the unit area is unknown at this time. The Chalk Bluff Draw Unit Well No. 1, located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 5, and the No. 3 unit well, located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 8, penetrated the Abo zone but did not encounter oil in paying quantities. The unit well No. "C"-1 also penetrated the Abo zone and encountered a slight gas show in the Abo formation.

The Unit Operator proposes to drill eight (8) wells for the purpose of meeting offsets to wells producing from the Abo formation and to further develop the unit area on or before July 1, 1960. One of the wells has already been completed as a producing well in the Abo formation and is located upon the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 9, Township 18 South, Range 27 East, and the second well is now in the process of being drilled upon the SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 9, Township 18 South, Range 27 East. It is proposed to locate the additional six (6) wells as follows:

Township 18 South, Range 27 East

1. SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 9
2. SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 4
3. NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 9
4. SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 9
5. NW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 9
6. SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 9

It is contemplated that a Supplemental Plan of Development will be filed after the above mentioned wells have been completed, to cover further development for the last half of 1960.

For the purpose of carrying out this Plan of Development, the Unit Operator purposes to use two rigs, moving from one location to another without more than thirty days lapse of time between the completion of one well and the commencement of another.

In the event it is determined that any of the above mentioned wells should not be drilled, the Unit Operator will file an amended Plan of Development.

Dated as of January 1, 1960.

Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

By R. M. Richardson

Approved Feb. 23, 1960
A. L. Peters
Secretary-Director
New Mexico Oil Conservation Commission

Approved _____

Commissioner of Public Lands

Approved _____

Regional Oil and Gas Supervisor
United States Geological Survey

REVISED EXHIBIT "B"
CHALK BLUFF DRAW UNIT AREA
TOWNSHIPS 17 AND 18 SOUTH, RANGE 27 EAST

SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF OIL AND GAS
INTERESTS IN ALL LANDS IN THE UNIT AREA
(BELOW SAN ANDRES OR 3000 FEET)

Tract No.	Description of Land	No. of Acres	Lease No. and Date	Basic Royalty & Percentage	Lessee of Record	Overriding Royalty & Percentage	Working Interest Owner
FEDERAL LAND							
1.	T-18-S, R-27-E Sec. 6: SE $\frac{1}{4}$ SE $\frac{1}{4}$	40.00	LC-026874(a) 5-1-51	USA Schedule "C"	Hondo Oil & Gas Co.	Mildred Crane Hudson Lois Burnett A. W. Adkisson	Hondo Oil & Gas Co. .005000 .010000 .018750
2.	T-17-S, R-27-E Sec. 33: SE $\frac{1}{4}$ SW $\frac{1}{4}$ T-18-S, R-27-E Sec. 6: SW $\frac{1}{4}$ NE $\frac{1}{4}$, Lot 2	120.69	LC-026874(b) 4-16-35	USA Sliding Scale	Hondo Oil & Gas Co.	None	Hondo Oil & Gas Co.
3.	T-18-S, R-27-E Sec. 6: NW $\frac{1}{4}$ SE $\frac{1}{4}$	40.00	LC-026874(b) 4-16-35	USA Sliding Scale	Hondo Oil & Gas Co.	Mildred Crane Hudson	Hondo Oil & Gas Co. .005000
4.	T-18-S, R-27-E Sec. 5: Lot 3, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$	121.00	LC-026874(e) 2-1-60	USA Schedule "C"	Humble Oil & Ref. Co.	Higgins Trust, Inc. Nora B. Clayton Winnie Ruth Clayton Eula Bee Stoldt Vernon E. Clayton J. A. Clayton, Jr. Leon J. Clayton Pauline J. Peoples	Humble Oil & Ref. Co. .013750 .002500 .000625 .000375 .000375 .000375 .000375 .000375 .000375

4. Continued

H. G. Watson .005157
A. W. Adkisson .018750
Lois Burnett .010000
Childress Royalty Company .017188
Fred Brainard Estate .005157
Fred Brainard Estate .010763
Clyde Guy & Sons, Inc. .010764
V. S. Welch .017767
Farvey Yates .000940
S. P. Yates .000940
Martin Yates .000940
John Ashby Yates .000940
James R. Evarts .001388
Gladys Evarts, Gdn. .001388
Berda Montgomery .001388
Beatrice Caywood .001398
Anita Brittain .000464
Irene Evarts .000464
Robert Evarts .000464

5. T-17-S, R-27-E
Sec. 29: E $\frac{1}{2}$ SW $\frac{1}{4}$
Sec. 30: S $\frac{1}{2}$ SE $\frac{1}{4}$
Sec. 31: W $\frac{1}{2}$ SE $\frac{1}{4}$
Sec. 33: NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$
T-18-S, R-27-E
Sec. 6: Lot 1, SE $\frac{1}{4}$ NE $\frac{1}{4}$

520.96 LC-026874(f) USA Humble Oil
6-1-52 Schedule "D" & Ref. Co.

Fred Brainard Estate .026909
Clyde Guy & Sons, Inc. .026909
V. S. Welch .044415
Harvey E. Yates .002351
Martin Yates III .002351
S. P. Yates .002351
John Ashby Yates .001175
S. P. Yates Trustee .001175
James R. Evarts .003472
Gladys Evarts, Gdn. .003472
Berda Montgomery .003472
Beatrice Caywood .003472
Anita Ann E. Burkeholder .001157
Irene Hardie .001157
Robert Evarts .001157
Humble Oil
& Ref. Co.

6.	T-18-S, R-27-E Sec. 8: SW $\frac{1}{4}$ NE $\frac{1}{4}$	40.00	LC-043894 9-1-51	USA Schedule "D"	Humble Oil & Ref. Co.	Julian E. Simon William O. Compton Stewart O. Compton Kenneth Compton Louise Compton Duffield Lillie Mae Yates Mary Ann Berliner	.105000 .002500 .002500 .002500 .002500 .005000 .005000	Humble Oil & Ref. Co.
7.	T-17-S, R-27-E Sec. 28: E $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$	120.00	LC-048679 1-1-40	USA Step Scale	Pan American Pet. Corp.	Emma Berry, a widow Cliff L. Dean - 25/90 of \$500 per acre out of 5% C. Alvin White - 25/90 of \$500 per acre out of 5% Robert H. Bean - 10/90 of \$500 per acre out of 5% W. C. McManus - 10/90 of \$500 per acre out of 5% Leonard Latch - 10/90 of \$500 per acre out of 5% Frank Bass - 5/90 of \$500 per acre out of 5% W. M. Ryan - 5/90 of \$500 per acre out of 5%	.062500	Pan American Pet. Corp.
8.	T-18-S, R-27-E Sec. 5: Lot 4, NW $\frac{1}{4}$ SW $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$,	121.07	LC-049648(a) 5-1-51	USA Schedule "C"	Humble Oil & Ref. Co.	Childress Royalty Co. H. G. Watson Higgins Trust, Inc. Fred Brainard Estate Winnie Ruth Clayton Nora B. Clayton	.017188 .005154 .013751 .083907 .00625 .002500	Humble Oil & Ref. Co.

8. Continued

						Eula Bee Stoldt Vernon E. Clayton J. A. Clayton, Jr. Leon J. Clayton Pauline J. Peoples	.000375 .000375 .000375 .000375 .000375
9.	T-17-S, R-27-I Sec. 29: $SE\frac{1}{4}E\frac{1}{4}$ Sec. 33: $NE\frac{1}{4}SW\frac{1}{4}$ T-18-S, R-27-I Sec. 6: $NE\frac{1}{4}SE\frac{1}{4}$	120.00	LC-049648(b) 4-16-35	USA Sliding Scale	Humble Oil & Ref. Co.	Fred Brainard Estate	.125000 Humble Oil & Ref. Co.
9-A.	T-18-S, R-27-I Sec. 6: $SW\frac{1}{4}SE\frac{1}{4}$	40.00	LC-049648(b) 4-16-35	USA Sliding Scale	Humble Oil & Ref. Co.	Fred Brainard Estate H. G. Watson Childress Royalty Company	.074218 .011719 .039063 Humble Oil & Ref. Co.
10.	T-18-S, R-27-I Sec. 8: $N\frac{1}{2}NE\frac{1}{4}$, $SE\frac{1}{4}NE\frac{1}{4}$, $NE\frac{1}{4}NW\frac{1}{4}$	160.00	LC-054205 9-1-51	USA Schedule "D"	Hondo Oil & Gas Co.	Hondo Oil & Gas Co. Lillie Mae Yates Mary Ann Berliner	.050000 .005000 .005000 Hondo Oil & Gas Co.
11.	T-18-S, R-27-E Sec. 5: $E\frac{1}{2}SE\frac{1}{4}$, $S\frac{1}{2}SW\frac{1}{4}$	160.00	LC-055383(a) 5-1-51	USA Schedule "C"	Hondo Oil & Gas Co.	Fred Brainard Estate Childress Royalty Company Higgins Trust, Inc. Hondo Oil & Gas Co. H. G. Watson Lois Burnett Nora B. Clayton Winnie Ruth Clayton Eula Bee Stoldt Vernon E. Clayton J. A. Clayton, Jr. Leon J. Clayton Pauline J. Peoples	.005156 .017188 .013750 .050000 .005156 .028750 .002500 .000625 .000375 .000375 .000375 .000375 .000375 .000375

12.	T-17-S, R-27-E Sec. 29: $W\frac{1}{2}SW\frac{1}{4}$ Sec. 33: $SW\frac{1}{4}SW\frac{1}{4}$ Sec. 31: $N\frac{1}{2}NE\frac{1}{4}$	200.00	LC-055383(b) 4-16-35	USA Sliding Scale	Hondo Oil & Gas Co.	Hondo Oil & Gas Co.	.050000
13.	T-18-S, R-27-E Sec. 4: Lots 9, 10	77.36	LC-055465(a) 3-8-52	USA Schedule "C"	Humble Oil & Ref. Co.	Estate of Charles E. Mann F. G. Keyes J. D. Atwood Harry Thorne Laura G. Ballard Carl McNally Jaffa Miller Mildred Crane Hudson	.028125 .004687 .004688 .009375 .009375 .009375 .009375 .050000
14.	None - See Tract No. 37						
15.	T-18-S, R-27-E Sec. 21: $SE\frac{1}{2}SW\frac{1}{4}$, $SE\frac{1}{4}$	240.00	LC-056928 7-1-49	USA $12\frac{1}{2}\%$	Humble Oil & Ref. Co.	Harvey E. Roelofs Trustee R. R. Rutledge Estate of Roy S. Watkins Florence M. Watkins \$66,500 out of 1.1825%	.020000 .006250 .011825
16.	T-17-S, R-27-E Sec. 31: Lots 2, 3, 4, $SE\frac{1}{4}NW\frac{1}{4}$, $E\frac{1}{2}SW\frac{1}{4}$ T-18-S, R-27-E Sec. 6: $SE\frac{1}{4}TW\frac{1}{4}$, $E\frac{1}{2}SW\frac{1}{4}$	357.27	LC-060894 3-3-43	USA Step Scale	Humble Oil & Ref. Co.	Anna G. Hill Olen F. Featherstone Estate of Mae McDonald Hawley Anna G. Hill 1/3 of \$5.00 per acre out of 6.25% Olen F. Featherstone 1/3 of \$5.00 per acre out of 6.25% Estate of Mae McDonald Hawley 1/3 of \$5.00 per acre out of 6.25% Fred Brainard Estate E. A. Paton & H. R. Paton T. J. Sively Dorothy B. Lind Clyde Guy & Sons, Inc. Kate G. Lowrey	.006250 .006250 .006250 .026562 .026562 .013281 .013281 .013281 .013281

17.	T-17-S, R-27-E Sec. 29: $N\frac{1}{2}SE\frac{1}{4}$, $SW\frac{1}{4}SE\frac{1}{4}$ Sec. 30: $N\frac{1}{2}SE\frac{1}{4}$	200.00	LC-064050 1-1-51	USA 12 $\frac{1}{2}\%$	John Trigg	None	John Trigg
18.	T-18-S, R-27-E Sec. 5: Lots 1, 2, $S\frac{1}{2}NE\frac{1}{4}$	161.81	LC-064384 2-1-46	USA Step Scale	Hondo Oil & Gas Co.	Carlos L. Carter Mildred Crane Hudson	Hondo Oil & Gas Co. .020000 .010000
19.	T-18-S, R-27-E Sec. 4: Lots 7, 8	79.29	LC-065478(a) 3-1-52	USA Schedule "C"	Hondo Oil & Gas Co.	Estate of Charles E. Mann F. G. Keyes & J. D. Atwood Harry Thorne, Laura C. Ballard, Carl McNally, & Jeffa Miller	Hondo Oil & Gas Co. .028125 .009375 .037500
20.	T-18-S, R-27-E Sec. 5: $W\frac{1}{2}SE\frac{1}{4}$	80.00	LC-065600 9-1-47	USA Step Scale	Humble Oil & Ref. Co.	Lillie Mae Yates William Hudson Don Angle Frances Nix	Humble Oil & Ref. Co. .020834 .041666 .041666 .020834
21.	T-18-S, R-27-E Sec. 21: $N\frac{1}{2}NW\frac{1}{4}$, $SW\frac{1}{4}NW\frac{1}{4}$	120.00	LC-065616 9-1-48	USA 12 $\frac{1}{2}\%$	Hondo Oil & Gas Co.	Frank A. Saner	Hondo Oil & Gas Co. .031250
22.	T-18-S, R-27-E Sec. 7: $SW\frac{1}{4}NE\frac{1}{4}$, $NE\frac{1}{4}SE\frac{1}{4}$ Sec. 8: $SW\frac{1}{4}NW\frac{1}{4}$	120.00	LC-067981(a) 1-1-60	USA Schedule "C"	Hondo Oil & Gas Co.	Hondo Oil & Gas Co.	Hondo Oil & Gas Co. .050000
23.	T-18-S, R-27-E Sec. 7: $SE\frac{1}{4}NE\frac{1}{4}$	40.00	LC-067981(b) 1-1-60	USA Sliding Scale	Hondo Oil & Gas Co.	Hondo Oil & Gas Co.	Hondo Oil & Gas Co. .050000
24.	T-17-S, R-27-E Sec. 28: $W\frac{1}{2}SW\frac{1}{4}$ Sec. 31: $NE\frac{1}{4}NW\frac{1}{4}$	120.00	LC-068361 12-1-49	USA 12 $\frac{1}{2}\%$	Humble Oil & Ref. Co.	Olen F. Featherstone Hartman Brooks Travis Anna G. Hill	Humble Oil & Ref. Co. .052500 .052500 .020000

25.	T-18-S, R-27-E Sec. 6: Lots 3, 4, 5, 6	158.87	LC-069274 7-1-49	USA 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	Anna G. Hill Estate of Mae McDonald Hawley Olen F. Featherstone Fred Brainard Estate Clyde Guy & Sons, Inc. Kate G. Lowrey	.006250 .006250 .006250 .053125 .026562 .026563	Humble Oil & Ref. Co.
26.	T-18-S, R-27-E Sec. 8: $\frac{1}{2}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$, NW $\frac{1}{4}$ NW $\frac{1}{4}$	280.00	LC-070678 (a) 1-1-60	USA Schedule "C"	Hondo Oil & Gas Co.	Hondo Oil & Gas Co. Mildred Crane Hudson Higgins Trust, Inc.	.050000 .060937 .014063	Hondo Oil & Gas Co.
27.	T-18-S, R-27-E Sec. 4: Lots 15, 16, 17	116.13	LC-070937 3-1-52	USA 12 $\frac{1}{2}$ %	Hondo Oil & Gas Co.	Hondo Oil & Gas Co. J. D. Atwood F. G. Keyes Estate of Charles E. Mann Harry Thorne Carl McNally Jaffa Miller Laura Ballard	.020000 .001875 .001875 .011250 .003750 .003750 .003750 .003750	Hondo Oil & Gas Co.
28.	T-18-S, R-27-E Sec. 9: $\frac{1}{2}$ W $\frac{1}{4}$	160.00	LC-070938 7-11-34	USA Sliding Scale	Hondo Oil & Gas Co.	Hondo Oil & Gas Co.	.050000	Hondo Oil & Gas Co.
29.	T-18-S, R-27-E Sec. 17: E $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 20: NW $\frac{1}{4}$ NW $\frac{1}{4}$, W $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NE $\frac{1}{4}$	280.00	NM-0758 1-1-40	USA Sliding Scale	Hondo Oil & Gas Co.	Hondo Oil & Gas Co. *Humble Oil & Ref. Co. 81.25% *Hondo Oil & Gas Co. 18.75%	.050000	Hondo Oil & Gas Co. *Humble Oil & Ref. Co. 81.25% *Hondo Oil & Gas Co. 18.75%
30.	T-17-S, R-27-E Sec. 28: SW $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	NM-01537 1-1-52	USA 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	B. R. Gorman & Elsie G. Gorman	.125000	Humble Oil & Ref. Co.

*Note: As to
Section 17 only
by contract a-
greement between
parties

31.	T-17-S, R-27-E Sec. 31: $E\frac{1}{2}NE\frac{1}{4}$, $E\frac{1}{2}SE\frac{1}{4}$	160.00	NM-02775 2-1-51	USA 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	Mildred Crane Hudson Fred Brainard Estate Clyde Guy & Sons, Inc. Kate G. Lowrey	.020000 .052500 .026250 .026250	Humble Oil & Ref. Co.
32.	T-18-S, R-27-E Sec. 7: $E\frac{1}{2}NE\frac{1}{4}$ Sec. 8: $SE\frac{1}{4}SW\frac{1}{4}$, $NW\frac{1}{4}SE\frac{1}{4}$	160.00	NM-04175 (c) 1-1-60	USA Schedule "C"	Humble Oil & Ref. Co.	Higgins Trust, Inc. Mildred Crane Hudson	.014063 .110937	Humble Oil & Ref. Co.
33.	T-18-S, R-27-E Sec. 7: $NW\frac{1}{4}NE\frac{1}{4}$ Sec. 8: $NE\frac{1}{4}SE\frac{1}{4}$	80.00	NM-04175 (a) 1-1-60	USA Schedule "C"	Mildred Crane Hudson	Higgins Trust, Inc. Mildred Crane Hudson	.014063 .030000	Hondo Oil & Gas Co.
34.	- 34-A. - 34-B. None							
34-C.	T-18-S, R-27-E Sec. 17: $NE\frac{1}{4}NE\frac{1}{4}$, $SW\frac{1}{4}NW\frac{1}{4}$, $E\frac{1}{2}SW\frac{1}{4}$, $SE\frac{1}{4}SE\frac{1}{4}$ Sec. 20: $E\frac{1}{2}NW\frac{1}{4}$	280.00	NM-04175 (b) 1-1-60	USA Schedule "D"	Humble Oil & Ref. Co.	Mildred Crane Hudson	.125000	Humble Oil & Ref. Co. *Humble Oil & Ref. Co. 81.25% *Hondo Oil & Gas Co. 18.75%
								*Note: As to Section 17 only by contract a- greement between parties
34-D.	T-18-S, R-27-E Sec. 17: $NW\frac{1}{4}NE\frac{1}{4}$, $NW\frac{1}{4}NW\frac{1}{4}$, $W\frac{1}{2}SW\frac{1}{4}$ Sec. 20: $NE\frac{1}{4}NE\frac{1}{4}$, $SE\frac{1}{4}SE\frac{1}{4}$	240.00	NM-04175 (b) 1-1-60	USA Schedule "D"	Humble Oil & Ref. Co.	Julian E. Simon	.125000	Humble Oil & Ref. Co. *Humble Oil & Ref. Co. 81.25% *Hondo Oil & Gas Co. 18.75%
								*Note: As to Section 17 only by contract a- greement between parties

34-E.	T-18-S, R-27-E Sec. 17: S $\frac{1}{2}$ NE $\frac{1}{4}$	80.00	NM-04175 (b) 1-1-60	USA Schedule "D"	Humble Oil & Ref. Co.	Julian E. Simon Nearburg & Ingram R. J. St. Germain Tela Corporation	.062500 .015625 .023438 .023437	*Humble Oil & Ref. Co. 81.25% *Hondo Oil & Gas Co. 18.75%
								*Note: By con- tract agreement between parties
34-F.	T-18-S, R-27-E Sec. 17: N $\frac{1}{2}$ SE $\frac{1}{4}$	80.00	NM-04175 (b) 1-1-60	USA Schedule "D"	Humble Oil & Ref. Co.	Mildred Crane Hudson Nearburg & Ingram R. J. St. Germain Tela Corporation	.062500 .015625 .023437 .023438	*Humble Oil & Ref. Co. 81.25% *Hondo Oil & Gas Co. 18.75%
								*Note: By con- tract agreement between parties
35.	T-17-S, R-27-E Sec. 28: NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 29: S $\frac{1}{2}$ NE $\frac{1}{4}$	120.00	NM-015673-A 12-1-54	USA 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	Roy L. Flood	.125000	Humble Oil & Ref. Co.
36.	T-18-S, R-27-E Sec. 4: Lot 18	38.43	NM-029135 12-1-56	USA Schedule "B"	Humble Oil & Ref. Co.	None		Humble Oil & Ref. Co.
37.	T-18-S, R-27-E Sec. 9: NW $\frac{1}{4}$	160.00	NM-031186 7-11-34	USA Sliding Scale	Humble Oil & Ref. Co.	Mildred Crane Hudson	.125000	Humble Oil & Ref. Co.

40 Federal Tracts Containing 5,832.88 acres; 77,638% of Unit Area

STATE LAND

37-A	T-18-S, R-27-E Sec. 16: NW $\frac{1}{4}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$	120.00	2029 12-17-24	State 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	W. R. Atkinson Nearburg & Ingram Tela Corporation R. J. St. Germain Rebel Oil Company J. Hiram Moore Blanche Widaman Stanley Carper Marshall Rowley Robert E. Boling Tracy Clark Losee & Stewart	.015625 .007812 .011719 .011719 .007812 .007813 .015625 .010418 .005208 .008333 .008333 .014583	Humble Oil & Ref. Co.
38.	T-17-S, R-27-E Sec. 32: SE $\frac{1}{4}$ SW $\frac{1}{4}$	40.00	B-6869 1-28-37	State 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	Rose F. Wilson Fred Brainard Estate H. A. Keinath Howard Whitson (Less Sliding Scale Royalty of Rose F. Wilson)	.062800 to .031250 .041666 .041666 .041666	Humble Oil & Ref. Co.
39.	T-17-S, R-27-E Sec. 32: NW $\frac{1}{4}$ SW $\frac{1}{4}$	40.00	B-6869 1-28-37	State 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	C. F. Borton & Elva M. Borton	.125000	Humble Oil & Ref. Co.
40.	T-17-S, R-27-E Sec. 32: NW $\frac{1}{4}$ SE $\frac{1}{4}$	40.00	B-8318 9-11-39	State 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	William Spurck & Vada Spurck	.125000	Humble Oil & Ref. Co.
41.	T-17-S, R-27-E Sec. 32: NE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$	80.00	B-8814 9-10-40	State 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	F. D. Shufflebarger & Leah Shufflebarger \$750 per acre out of 5% up to \$90,000.00		Humble Oil & Ref. Co.
42.	T-17-S, R-27-E Sec. 32: SW $\frac{1}{4}$ SW $\frac{1}{4}$	40.00	B-9391 11-10-41	State 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	Fred Turner, Jr.	.062500	Humble Oil & Ref. Co.

43.	T-17-S, R-27-E Sec. 32: SW $\frac{1}{4}$ SE $\frac{1}{4}$	40.00	B-10288 5-10-43	State 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	Fred Brainard Estate Clyde Guy & Sons, Inc. Kate G. Lowrey	.062500 .031250 .031250	Humble Oil & Ref. Co.
44.	T-18-S, R-27-E Sec. 16: SE $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	B-10456 7-10-43	State 12 $\frac{1}{2}$ %	Hondo Oil & Gas Co.	None		Hondo Oil & Gas Co.
45.	T-17-S, R-27-E Sec. 32: SE $\frac{1}{4}$ NE $\frac{1}{4}$	40.00	B-11339 7-10-44	State 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	Robert E. McKee, General Contractor, Inc.	.050000	Humble Oil & Ref. Co.
46.	None							
47.	T-18-S, R-27-E Sec. 16: SW $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	E-1049 10-10-46	State 12 $\frac{1}{2}$ %	Continental Oil Co.	None		Continental Oil Co.
48.	T-18-S, R-27-E Sec. 16: NE $\frac{1}{4}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ SW $\frac{1}{4}$	80.00	E-3635 6-10-50	State 12 $\frac{1}{2}$ %	Gulf Oil Corporation	None		Gulf Oil Corporation
49.	T-17-S, R-27-E Sec. 32: N $\frac{1}{2}$ NE $\frac{1}{4}$	80.00	E-5313 6-11-51	State 12 $\frac{1}{2}$ %	Gulf Oil Corporation	None		Gulf Oil Corporation
50.	T-17-S, R-27-E Sec. 32: SW $\frac{1}{4}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$	80.00	E-7663 12-15-53	State 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	None		Humble Oil & Ref. Co.
51.	T-18-S, R-27-E Sec. 16: SE $\frac{1}{4}$ SW $\frac{1}{4}$	40.00	E-7879 3-16-54	State 12 $\frac{1}{2}$ %	Pan American Pet. Corp.	None		Pan American Pet. Corp.
52.	T-17-S, R-27-E Sec. 32: NW $\frac{1}{4}$ NW $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$	120.00	E-8271 6-15-54	State 12 $\frac{1}{2}$ %	Humble Oil & Ref. Co.	John M. Kelly	.062500	Humble Oil & Ref. Co.

52-A.	T-17-S, R-27-E	40.00	E-9719	State	Humble Oil	None	Humble Oil
	Sec. 32: NE $\frac{1}{4}$ SW $\frac{1}{4}$		1-17-56	12 $\frac{1}{2}$ %	& Ref. Co.		& Ref. Co.

16 State of New Mexico Tracts, containing 960.00 acres, or 12.778% of Unit Area

FEE LAND

53.	T-18-S, R-27-E Sec. 20: S $\frac{1}{2}$ SW $\frac{1}{4}$	80.00	Fee 1-19-54 S-16-55 1-19-54 (3 leases)	Arthur B. Kaiser & Erma Kaiser B. F. Kaiser, Jr. & Reatha Kaiser Clarence D. Kaiser & Joan Kaiser G. E. Kaiser & Vera L. Kaiser B. F. Kaiser J. R. Miller & Gertrude Miller Harvey E. Yates & Louis D. Yates Martin Yates III, & Lillie Yates S. P. Yates & Estelle H. Yates S. P. Yates, Trustee John Ashby Yates	1/10 1/10 1/10 1/10 1/10 1/4 1/16 1/16 1/16 1/32 1/32	Humble Oil & Ref. Co.
54.	T-18-S, R-27-E Sec. 20: E $\frac{1}{2}$ W $\frac{1}{4}$ NW $\frac{1}{4}$	20.00	Fee 1-19-54	Arthur B. Kaiser Ben F. Kaiser, Jr. & Reatha Kaiser Clarence D. Kaiser & Joan Kaiser G. E. Kaiser & Vera L. Kaiser B. F. Kaiser	1/5 1/5 1/5 1/5 1/5	Humble Oil & Ref. Co.
55.	T-18-S, R-27-E Sec. 20: N $\frac{1}{2}$ W $\frac{1}{4}$ NW $\frac{1}{4}$ of SE $\frac{1}{4}$	5.00	Fee 1-20-54	Erma R. White & C. L. White	All	Humble Oil & Ref. Co.
56.	T-18-S, R-27-E Sec. 20: S $\frac{1}{2}$ W $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$	5.00	Fee 1-20-54	Francis Wailes Wooldridge Mary M. Merchant Robert B. Culpepper Charles C. Culpepper A. L. Culpepper Ietha Culpepper Johnnie Lee McCauley Sue C. Walden	1/2 1/10 1/10 1/10 1/10 1/40 3/80 3/80	Humble Oil & Ref. Co.

57.	T-18-S, R-27-E Sec. 20: NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$	15.00	Fee 1-20-54	J. Hiram Moore	All	Humble Oil & Ref. Co.	None	Humble Oil & Ref. Co.
58.	T-18-S, R-27-E Sec. 20: E $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$	35.00	Fee 1-19-54	B. F. Kaiser Arthur B. Kaiser & Erma Kaiser Clarence D. Kaiser & Joan Kaiser B. F. Kaiser, Jr. & Reatha Kaiser G. E. Kaiser & Vera L. Kaiser	1/5 1/5 1/5 1/5 1/5	Humble Oil & Ref. Co.	None	Humble Oil & Ref. Co.
59.	T-18-S, R-27-E Sec. 20: NE $\frac{1}{4}$ SE $\frac{1}{4}$	40.00	Fee 9-21-54	Arthur B. Kaiser & Erma Kaiser B. F. Kaiser, Jr. & Reatha Kaiser Clarence D. Kaiser & Joan Kaiser G. E. Kaiser & Vera L. Kaiser B. F. Kaiser Len R. Ogden Lucky Wright Royalty Syndicate J. R. Miller	15/160 1/10 1/10 1/10 1/4 1/4 1/16	Humble Oil & Ref. Co.	None	Humble Oil & Ref. Co.
60.	T-18-S, R-27-E Sec. 20: SW $\frac{1}{4}$ SE $\frac{1}{4}$	40.00	Fee	Ownership diverse - (Fairchild Farm Tracts)			Not under lease	
61.	T-18-S, R-27-E Sec. 20: NE $\frac{1}{4}$ SW $\frac{1}{4}$	80.00	Fee 9-21-54	Arthur B. Kaiser et ux* *(Subject to 10 year term Royalty of 6/512 under NE $\frac{1}{4}$ SW $\frac{1}{4}$ & 5/512 under NW $\frac{1}{4}$ SW $\frac{1}{4}$ in W. R. Stickman & 16/512 under tract in J. Hiram Moore) B. F. Kaiser et ux G. E. Kaiser et ux* *(Subject to 10 year term Royalty of 6/512 under NE $\frac{1}{4}$ SW $\frac{1}{4}$ & 5/512 under NW $\frac{1}{4}$ SW $\frac{1}{4}$ in J. R. Miller) Clarence D. Kaiser et ux B. F. Kaiser, Jr., et ux	1/5 1/5 1/5 1/5	Humble Oil & Ref. Co.	None	Humble Oil & Ref. Co.

62.	T-18-S, R-27-E Sec. 7: SW $\frac{1}{4}$ SE $\frac{1}{4}$, W $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$	70.00	Fee 10-30-47	Birdie Kaiser Peterson, Admx. of the Estate of A.A. Kaiser, deceased	All	Humble Oil & Ref. Co.	Weier Drilling Company et al	.125000	Humble Oil & Ref. Co.
63.	T-18-S, R-27-E Sec. 7: NE $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$	10.00	Fee 10-30-47	Birdie Kaiser Peterson, Admx. of the Estate of A.A. Kaiser, deceased	All	Humble Oil & Ref. Co.	None		Humble Oil & Ref. Co.
64.	T-18-S, R-27-E Sec. 6: Lot 7	40.43	Fee 4-11-57	Hondo Oil & Gas Co. William Stirling, Jr. & Valeria Stirling	7/8 1/8	Not under lease Hondo Oil & Gas Co.	None		Hondo Oil & Gas Co.
65.	T-17-S, R-27-E Sec. 31: Lot 1	39.61	Fee	Hal Bogle Leon Williams	1/2 1/2	Not under lease			
66.	T-17-S, R-27-E Sec. 29: W $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$	10.00	Fee 12-14-55	B. R. Gorman	All	Humble Oil & Ref. Co.	None		Humble Oil & Ref. Co.
67.	T-17-S, R-27-E Sec. 29: E $\frac{1}{2}$ W $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$	10.00	Fee	Frank Watkins & Billie Watkins Marvin R. Jackson & Avis Jackson	1/2 1/2	Not under lease			
68.	T-17-S, R-27-E Sec. 29: E $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$	20.00	Fee 3-5-56	Frank Watkins & Billie Watkins	All	Humble Oil & Ref. Co.	None		Humble Oil & Ref. Co.
69.	T-17-S, R-27-E Sec. 29: NE $\frac{1}{4}$ NE $\frac{1}{4}$	40.00	Fee 2-25-54	Eva Huffman Morris Ellen Huffman	3/4 1/4	Humble Oil & Ref. Co.	J. E. Bedingfield Bob Johnson	.050000 .050000	Humble Oil & Ref. Co.

70.	T-17-S, R-27-E Sec. 28: $1W\frac{1}{4}NW\frac{1}{4}$	40.00	Fee	2-25-54	Trustees of the Church of the Nazarene, Artesia, New Mexico	All	Humble Oil & Ref. Co.	J. E. Bedingsfield Bob Johnson	.050000 .050000	Humble Oil & Ref. Co.
71.	T-18-S, R-27-E Sec. 21: $1\frac{1}{2}SW\frac{1}{4}$, $SE\frac{1}{4}NW\frac{1}{4}$	120.00	Fee		Hal Bogle Leon Williams Midwest Investment Company	$\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{2}$	Not under lease			

19 Fee Tracts containing 720.04 acres, or 9.534% of Unit Area

Total 76 Tracts, containing 7,512.92 acres, Chalk Bluff Draw Unit Area, Eddy County, New Mexico

EXHIBIT "B"

PARTICIPATION - INITIAL PARTICIPATING AREA - PENNSYLVANIAN (BEND) GAS

CHALK BLUFF DRAW UNIT

EDDY COUNTY, NEW MEXICO

FROM JULY 23, 1956 TO FEBRUARY 1, 1958

Tract No.	Participating Acreage Description	Participating Acreage	Lease Number, Lessee of Record, and Date of Lease	Participation by Percentages (See Note 2.)		
				Ownership	Tract	Area
4.	T-18-S, R-27-E Sec. 5: Lot 3, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$	121	LC-026874 (e) Humble Oil & Ref. Co. 20 year - 5% ** Dated 5-16-31 (Exchange Lease No. LC-026874 (e) Dated 2-1-60 Schedule "C") ****	USA Humble Oil & Ref. Co. Higgins Trust, Inc. Nora B. Clayton Winnie Ruth Clayton Eula Bee Stoldt Vernon E. Clayton J. A. Clayton, Jr. Leon J. Clayton Pauline J. Peoples H. G. Watson A. W. Adkisson Lois Burnett Childress Royalty Co. Fred Brainard Estate Fred Brainard Estate Clyde Guy & Sons, Inc. V. S. Welch Harvey Yates S. P. Yates Martin Yates John Ashby Yates James R. Everts Gladys Everts, Gdn. Berda Montgomery Beatrice Caywood Anita Brittain Irene Everts Robert Everts	.050000 .825000 .013750 .002500 .000625 .000375 .000375 .000375 .000375 .000375 .000375 .005157 .018750 .010000 .017188 .005157 .010763 .010764 .017767 .000940 .000940 .000940 .000940 .000940 .001388 .001388 .001388 .001388 .000464 .000464 .000464 Total	.00933620 .15503730 .00258395 .00046981 .00011746 .00007047 .00007047 .00007047 .00007047 .00007047 .00007047 .00096893 .00352356 .00187924 .00323004 .00096893 .00202263 .00202265 .00333868 .00017665 .00017665 .00017665 .00017665 .00017665 .00026102 .00026102 .00026102 .00026102 .00008719 .00008719 .00008719 .18792400

18.	T-18-S, R-27-E Sec. 5: Lots 1, 2, S $\frac{1}{2}$ NE $\frac{1}{4}$	161.81	LC-064384 Hondo Oil & Gas Co. Dated 2-1-46 (Non-competitive- Step Scale) ****	Basic Royalty Working Interest Overriding Royalty	USA Hondo Oil & Gas Co. Carlos L. Carter Mildred Crane Hudson Total	.125000 .845000 .020000 .010000 1.000000	.03141300 .21235188 .00502608 .00251304 .25130400
20.	T-18-S, R-27-E Sec. 5: W $\frac{1}{2}$ SE $\frac{1}{4}$	80	LC-065600 Humble Oil & Ref. Co. Dated 9-1-47 (5 year Competitive Schedule "B") ***	Basic Royalty Working Interest Overriding Royalty	USA Humble Oil & Ref. Co. Lillie Mae Yates William Hudson Don Angle Francis Nix Total	.125000 .750000 .020834 .041666 .041666 .020834 1.000000	.01553087 .09318526 .00258856 .00517687 .00517687 .00258857 .12424700

1.
Note:
* Royalty on Pennsylvanian (Bend) production fixed at 12 $\frac{1}{2}$ % pursuant to 43 CFR 192.82 (3) III.
** 5% royalty effective until 2-1-60.
*** Royalty not fixed at 12 $\frac{1}{2}$ %. Competitive lease, Schedule "B" effective.
**** Royalty on all production fixed at 12 $\frac{1}{2}$ % pursuant to 43 CFR 192.82 (3) I.

2.
Note:
Overriding royalties may in certain instances be reduced pursuant to 43 CFR 192.83.

RECAPITULATION

Tract No.	Participating Acreage	Percentage of Participation
4	121	.187924
8	121.07	.188032
11	160	.248493
18	161.81	.251304
20	80	.124247
5 Tracts	643.88	1.00

PARTICIPATION - FIRST EXPANDED PARTICIPATING AREA - PENNSYLVANIAN (BEND) GAS

EDDY COUNTY, NEW MEXICO

FROM FEBRUARY 1, 1958 to JULY 1, 1959

[illegible]

11.	T-18-S, R-27-E Sec. 5: $\frac{1}{2}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ SW $\frac{1}{4}$	160	C-055383 (a) Fondo Oil & Gas Co. Dated 5-1-51 (10 year renewal Schedule "C") (Note 2)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Fondo Oil & Gas Company Fred Brainard Estate Childress Royalty Company Higgins Trust, Inc. Hondo Oil & Gas Company H. G. Watson Lois Burnett Nora B. Clayton Winnie Ruth Clayton Eula Bee Stoldt Vernon E. Clayton J. A. Clayton, Jr. Leon J. Clayton Pauline J. Peoples Total	.125000 .750000 .005156 .017188 .013750 .050000 .005156 .028750 .002500 .000625 .000375 .000375 .000375 .000375 .000375 1.000000	.01557787 .09346726 .00064255 .02214203 .00171456 .00623116 .00064255 .00358290 .00031156 .00007789 .00004674 .00004673 .00004673 .00004673 .12462300
14.	T-18-S, R-27-E Sec. 9: NW $\frac{1}{4}$	160	NM-031186 Humble Oil & Refining Company Dated 7-11-34 (20 year "B" - Sliding Scale) (Relief to 11-10-61) (Note 4)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Humble Oil & Refining Co. Mildred Crane Hudson Total	.125000 .750000 .125000 1.000000	.01557787 .09346726 .01557787 .12462300
18.	T-18-S, R-27-E Sec. 5: Lots 1, 2, S $\frac{1}{2}$ NE $\frac{1}{4}$	161.81	IC-064384 Fondo Oil & Gas Co. Dated 2-1-46 (Non-Competitive Step Scale) (Note 5)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Hondo Oil & Gas Company Carlos L. Carter Mildred Crane Hudson Total	.125000 .845000 .020000 .010000 1.000000	.01575412 .10649788 .00252066 .00126034 .12603300

20.	T-18-S, R-27-E Sec. 5: NW 1/4 SE 1/4	80	LC-065600 Humble Oil & Refining Company Dated 9-1-47 (5 year Competitive Schedule "B") (Note 6)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Humble Oil & Refining Co. Lillie Mae Yates William Hudson Don Angle Francis Nix Total	.125000 .750000 .020834 .041666 .041666 .020834 <u>1.000000</u>	.00778887 .04673326 .00129818 .00259625 .00259626 .00129818 <u>.06231100</u>
26.	T-18-S, R-27-E Sec. 8: SE 1/4	80	LC-070678 (a) Hondo Oil & Gas Co. Dated 1-1-40 (20 year - 5%) (Renewal Lease Dated 1-1-60 Schedule "C") (Note 7) (Note 2)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Hondo Oil & Gas Company Hondo Oil & Gas Company Mildred Crane Hudson Higgins Trust, Inc. Total	.050000 .825000 .050000 .060937 .014063 <u>1.000000</u>	.00311555 .05140657 .00311555 .00379706 .00087627 <u>.06231100</u>
28.	T-18-S, R-27-E Sec. 9: SW 1/4	160	LC-070938 Hondo Oil & Gas Co. Dated 7-11-34 (20 year "B" - Sliding Scale - Relief to 11-10-61) (Note 5)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Hondo Oil & Gas Company Hondo Oil & Gas Company Total	.125000 .825000 .050000 <u>1.000000</u>	.01557787 .10281397 .00623116 <u>.12462300</u>
32.	T-18-S, R-27-E Sec. 8: NW 1/4 SE 1/4	40	NM-04175 (c) Humble Oil & Refining Company Dated 1-1-40 20 year - 5% (Exchange Lease No. NM-04175 (c) Dated 1-1-60 Schedule "C") (Note 7) (Note 5)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Humble Oil & Refining Co. Higgins Trust, Inc. Mildred Crane Hudson Total	.050000 .750000 .014063 .185937 <u>1.000000</u>	.00155775 .02336625 .00043813 .00579287 <u>.03115500</u>

33.	T-18-S, R-27-E Sec. 8: NE ¹ SE ¹ ₄	40	NM-04175 (a) Mildred Crane Hudson Dated 1-1-40 (20 year - 5% - Re- newal Lease Dated 1-1-60, Schedule "C") (Note 7) (Note 2)	Basic Royalty Working Interest <u>Overriding Royalty</u>	USA Hondo Oil & Gas Company Higgins Trust, Inc. Mildred Crane Hudson Total	.050000 .905937 .014063 .030000 <u>1.000000</u>	.00155775 .02822446 .00043814 .00093465 <u>.03115500</u>
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Note:

- 5% royalty effective until 2-1-60.
- Royalty on Pennsylvanian (Bend) gas production fixed at 12½% pursuant to 43 CFR 192.82 (3) III.
- Royalty on production from NW¼NE¼ and SW¼NE¼ Section 8, fixed at 12½% (43 CFR 192.82 (3) I.
Royalty on Pennsylvanian (Bend) gas production from NE¼NE¼ Section 8, fixed at 12½% (43 CFR 192.82 (3) III.
Royalty on other production from NE¼NE¼ Section 8, on Schedule "D".
- Royalty on Pennsylvanian (Bend) gas production fixed at 12½% (43 CFR 192.82 (3) III).
Royalty on gas may be 5%, to be determined by the Department of the Interior.
- Royalty on all production fixed at 12½% pursuant to 43 CFR 192.82 (3) I.
- Competitive lease, royalty not fixed, Schedule "B" effective.
- 5% royalty effective until 1-1-60.
- Overriding royalties may in certain instances be reduced pursuant to 43 CFR 192.83.

RECAPITULATION

TRACT NO.	PARTICIPATING ACREAGE	PERCENTAGE OF PARTICIPATION
4	121	.09424500
6	40	.03115500
8	121.07	.09430000
10	120	.09346600
11	160	.12462300
14	160	.12462300
18	161.81	.12603300
20	80	.06231100
26	80	.06231100
28	160	.12462300
32	40	.03115500
33	40	.03115500
TOTALS	1,283.88 acres	1.00

EXHIBIT "B-2"

PARTICIPATION - SECOND EXPANDED PARTICIPATING AREA - PENNSYLVANIAN (BEND) GAS

CHALK BLUFF DRAW UNIT

EDDY COUNTY, NEW MEXICO

FROM JULY 1, 1959 UNTIL AGAIN REVISED

Tract No.	Participating Acreage Description	Participating Acreage	Lease Number, Lessee of Record, and Date of Lease	Participation by Percentages (See Note 8.)		
				Ownership	Tract	Area
4.	T-18-S, R-27-E Sec. 5: Lot 3, SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$	121	LC-026874 (e) Humble Oil & Ref. Co. 20 year - 5% Dated 5-16-31 (Note 1.) (Exchange Lease No. LC-026874 (e) Dated 2-1-60 Schedule "C") (Note 5.)	USA	.050000*	.0031446865*
				Humble Oil & Ref. Co.	.825000	.0518873272*
				Higgins Trust, Inc.	.013750	.0008647888
				Nora B. Clayton	.002500	.0001572343
				Winnie Ruth Clayton	.000625	.0000393085
				Eula Bee Stoldt	.000375	.0000235852
				Vernon E. Clayton	.000375	.0000235852
				J. A. Clayton, Jr.	.000375	.0000235852
				Leon J. Clayton	.000375	.0000235851
				Pauline J. Peoples	.000375	.0000235851
				H. G. Watson	.005157	.0003242800
				A. W. Adkisson	.018750	.0011792574
				Lois Burnett	.010000	.0006289373
				Childress Royalty Co.	.017188	.0010810174
				Fred Brainard Estate	.005157	.0003242800
				Fred Brainard Estate	.010763	.0006769252
				Clyde Guy & Sons, Inc.	.010764	.0006769252
				V. S. Welch	.017767	.0011173700
				Harvey Yates	.000940	.0000591201
				S. P. Yates	.000940	.0000591201
				Martin Yates	.000940	.0000591201
				John Ashby Yates	.000940	.0000591201
				James R. Evarts	.001388	.0000873593
				Gladys Evarts, Gdn.	.001388	.0000873593
				Berda Montgomery	.001388	.0000873593
				Beatrice Caywood	.001388	.0000873593
				Anita Britain	.000464	.0000291826

Irene Evarts	.000464	.0000291826
Robert Evarts	.000464	.0000291826
Total	<u>1.000000</u>	<u>.0628937300</u>

* Effective on 2-1-60, 5% royalty increases to 12 $\frac{1}{2}$ %, participation will become:

USA	.125000	.0078617162
<u>Humble Oil & Ref. Co.</u>	<u>.750000</u>	<u>.0471702975</u>

USA	.125000	.0025989150
Humble Oil & Ref. Co.	.750000	.0155934900
Julian E. Simon	.105000	.0021830886
William O. Compton	.002500	.0000519783
Stewart O. Compton	.002500	.0000519783
Kenneth Compton	.002500	.0000519783
Louise Compton Duffield	.002500	.0000519783
Lillie Mae Yates	.005000	.0001039566
Mary Ann Berliner	.005000	.0001039566
Total	<u>1.000000</u>	<u>.0207913200</u>

USA	.125000	.0078662650
Humble Oil & Ref. Co.	.750000	.0471975900
Childress Royalty Co.	.017188	.0010816429
H. G. Watson	.005154	.0003243418
Higgins Trust, Inc.	.013751	.0008653520
Fred Brainard Estate	.083907	.0052802775
Nora B. Clayton	.002500	.0001573254
Winnie Ruth Clayton	.000625	.0000393314
Eula Bee Stoldt	.000375	.0000235988
Vernon E. Clayton	.000375	.0000235988
J. A. Clayton, Jr.	.000375	.0000235988
Leon J. Clayton	.000375	.0000235988
Pauline J. Peoples	.000375	.0000235988
Total	<u>1.000000</u>	<u>.0629301200</u>

Note: Overriding royalty suspension varies.
Different amount suspended on gas production.

6.	T-18-S, R-27-E Sec. 8: SW $\frac{1}{4}$ NE $\frac{1}{4}$	40	LC-043894 Humble Oil & Ref. Co. Dated 9-1-51 (10 year Renewal Schedule "D") (Note 2.)	Basic Royalty Working Interest Overriding Royalty
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8.	T-16-S, R-27-E Sec. 5: Lot 4, SW $\frac{1}{4}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ SW $\frac{1}{4}$	121.07	LC-049648 (a) Humble Oil & Ref. Co. Dated 5-1-51 (10 year Renewal Schedule "C") (Note 2.)	Basic Royalty Working Interest Overriding Royalty
----	---	--------	--	---

10.	T-18-S, R-27-E Sec. 8: $N\frac{1}{2}NE\frac{1}{4}$, $SE\frac{1}{4}NE\frac{1}{4}$	120	LC-054205 Hondo Oil & Gas Co. Dated 9-1-51 (10 year Renewal) (Note 3.)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Hondo Oil & Gas Co. Lillie Mae Yates Mary Ann Berliner Total	.125000 .865000 .005000 .005000 <u>1.000000</u>	.0077967437 .0539534667 .0003118698 .0003118698 <u>.0623739500</u>
11.	T-18-S, R-27-E Sec. 5: $E\frac{1}{2}SE\frac{1}{4}$, $S\frac{1}{2}SW\frac{1}{4}$	160	LC-055383 (a) Hondo Oil & Gas Co. Dated 5-1-51 (10 year Renewal Schedule "C") (Note 2.)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Hondo Oil & Gas Co. Fred Brainard Estate Childress Royalty Co. Higgins Trust, Inc. Hondo Oil & Gas Co. H. G. Watson Lois Burnett Nora B. Clayton Winnie Ruth Clayton Eula Bee Stoldt Vernon E. Clayton J. A. Clayton, Jr. Leon J. Clayton Pauline J. Peoples Total	.125000 .750000 .005156 .017188 .013750 .050000 .005156 .028750 .002500 .000625 .000375 .000375 .000375 .000375 .000375 <u>1.000000</u>	.0103956588 .0623739526 .0004288001 .0014294446 .0011435224 .0041582636 .0004288001 .0023910016 .0002079131 .0000519783 .0000311869 .0000311869 .0000311870 .0000311870 .0000311870 <u>.0831652700</u>
14.	None - See Tract No. 37.						
18.	T-18-S, R-27-E Sec. 5: Lots 1, 2, $S\frac{1}{2}NE\frac{1}{4}$	161.81	LC-064384 Hondo Oil & Gas Co. Dated 2-1-46 (Non-competitive Step-Scale) (Note 5.)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Hondo Oil & Gas Co. Carlos L. Carter Mildred Crane Hudson Total	.125000 .845000 .020000 .010000 <u>1.000000</u>	.0105132600 .0710696376 .0016821216 .0008410608 <u>.0841060800</u>
20.	T-18-S, R-27-E Sec. 5: $W\frac{1}{2}SE\frac{1}{4}$	80	LC-065600 Humble Oil & Ref. Co. Dated 9-1-47 (5 year Competitive Schedule "B") (Note 6.)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Humble Oil & Ref. Co. Lillie Mae Yates William Hudson Don Angle Francis Nix Total	.125000 .750000 .020834 .041666 .041666 .020834 <u>1.000000</u>	.0051978300 .0311869800 .0008663327 .0017325823 .0017325823 .0008663327 <u>.0415826400</u>

26.	T-18-S, R-27-E Sec. 8: $\frac{S_2SE\frac{1}{4}}{SW\frac{1}{4}}$	80	LC-070678 (a) Hondo Oil & Gas Co. Dated 1-1-40 (20 year - 5%) (Renewal Lease Dated 1-1-60 Schedule "C") (Note 7., Note 2.)	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	USA Hondo Oil & Gas Co. Hondo Oil & Gas Co. Mildred Crane Hudson Higgins Trust, Inc. Total * <u>Note:</u> Effective 1-1-60, 5% royalty increases to 12½%, percentages of participation will then be:	.050000* .825000* .050000 .060937 .014063 <u>1.000000</u> .0415826400	.0020791320* .0343056780* .0020791320 .0025339213 .0005847767 <u>.0415826400</u>
28.	T-18-S, R-27-E Sec. 9: $\frac{E_2W\frac{1}{4}}{SW\frac{1}{4}}$	160	LC-070938 Hondo Oil & Gas Co. Dated 7-11-34 (20 year "B" Sliding Scale) (Relief to 11-10-61) (Note 5.)	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	USA Hondo Oil & Gas Co. USA Hondo Oil & Gas Co. Hondo Oil & Gas Co. Total	.125000 .750000 .125000 .825000 .050000 <u>1.000000</u>	.0051978300 .0311869800 .0103956587 .0686113477 .0041582636 <u>.0831652700</u>
29.	T-18-S, R-27-E Sec. 17: $\frac{E_2NW\frac{1}{4}}{SW\frac{1}{4}SE\frac{1}{4}}$	120	NM-0758 Hondo Oil & Gas Co. 20 year "B" Sliding Scale Dated 1-1-40 Relief to 12-1-61 (Note 5.)	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	USA Humble Oil & Ref. Co.* Hondo Oil & Gas Co.* Hondo Oil & Gas Co. Total	.125000 .670313 .154687 .050000 <u>1.000000</u>	.0077967437 .0418100383 .0096484704 .0031186976 <u>.0623739500</u>
32.	T-18-S, R-27-E Sec. 8: $\frac{NW\frac{1}{4}SE\frac{1}{4}}{SW\frac{1}{4}}$	40	NM-04175 (c) Humble Oil & Ref. Co. 20 year - 5% Dated 1-1-40 (Exchange Lease NM-04175 (c) Dated 1-1-60 Schedule "C") (Note 5., Note 7.)	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	USA Humble Oil & Ref. Co. Higgins Trust, Inc. Mildred Crane Hudson Total * <u>Note:</u> Effective 1-1-60, 5% royalty increases to 12.5%. Working interest remains at 75%, difference is subtracted from overriding royalty. Percentages of participation will be:	.050000* .750000* .014063 .185937* <u>1.000000</u> .0207913200	.0010395660* .0155934900* .0002923883 .0038658757* <u>.0207913200</u>

33.	T-18-S, R-27-E Sec. 8: $\frac{NE\frac{1}{4}SE\frac{1}{4}}$	40	NM-04175 (a) Mildred Crane Hudson Dated 1-1-40 (20 year - 5% Renewal Lease Dated 1-1-60 Schedule "C") (Note 2., Note 7.)	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	USA Humble Oil & Ref. Co. Mildred Crane Hudson	.125000 .0025989151 .750000 .0155934900 .110937 .0023065266
					USA Hondo Oil & Gas Co. Higgins Trust, Inc. Mildred Crane Hudson Total	.050000* .0010395660* .905937* .0188356260* .014063 .0002923883 .030000 .0006237397 <u>1.000000 .0207913200</u>
					* Note: Effective 1-1-60, 5% royalty increases to 12 $\frac{1}{2}$ %. Percentages of participation will then be:	
34 (C).	T-13-S, R-27-E Sec. 17: $\frac{NE\frac{1}{4}NE\frac{1}{4}, SW\frac{1}{4}NW\frac{1}{4}, E\frac{1}{2}SW\frac{1}{4}, SE\frac{1}{4}SE\frac{1}{4}}$	200	NM-04175 (b) Humble Oil & Ref. Co. 20 year "B" Sliding Scale. Dated 1-1-40 (Exchange Lease Dated 1-1-60 Schedule "D") (Note 2.)	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	USA Hondo Oil & Gas Co.	.125000 .0025989150 .830937 .0172762770
					USA Humble Oil & Ref. Co.* Hondo Oil & Gas Co.* Mildred Crane Hudson Total	.125000 .0129945725 .6093750 .0633485409 .1406250 .0146188941 .125000 .0129945725 <u>1.0000000 .1039565800</u>
					* Note: By contract agreement between parties.	
34 (D).	T-18-S, R-27-E Sec. 17: $\frac{NW\frac{1}{4}NE\frac{1}{4}, NW\frac{1}{4}NW\frac{1}{4}, W\frac{1}{2}SW\frac{1}{4}}$	160	NM-04175 (b) Humble Oil & Ref. Co. (Same as Tract 34 (C).	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	USA Humble Oil & Ref. Co.* Hondo Oil & Gas Co.* Julian E. Simon Total	.125000 .0103956587 .6093750 .0506788365 .1406250 .0116951161 .125000 .0103956587 <u>1.0000000 .0831652700</u>
					* Note: By contract agreement between parties.	
34 (E).	T-18-S, R-27-E Sec. 17: $\frac{S\frac{1}{2}NE\frac{1}{4}}$	80	NM-04175 (b) Humble Oil & Ref. Co. (Same as Tract 34 (C).	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	USA Humble Oil & Ref. Co.* Hondo Oil & Gas Co.* Julian E. Simon Nearburg & Ingram R. J. St. Germain Tela Corporation Total	.125000 .0051978300 .6093750 .0253394212 .1406250 .0058475588 .062500 .0025989150 .015625 .0006497287 .023438 .0009746139 .023437 .0009745724 <u>1.0000000 .0415826400</u>
					* Note: By contract agreement between parties.	

34 (F).	T-18-S, R. 27-E Sec. 17: N¹₂SE¹₄	80	NM-04175 (b) Humble Oil & Ref. Co. (Same as Tract 34 (C)).	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Humble Oil & Ref. Co.* Hondo Oil & Gas Co.* Mildred Crane Hudson Nearburg & Ingram R. J. St. Germain Tela Corporation Total	.125000 .6093750 .1406250 .062500 .015625 .023437 .023438 <u>1.0000000</u>	.0051978287 .0253394152 .0058475573 .0025989143 .0006497286 .0009745721 .0009746138 <u>.0415826300</u>
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* Note: By contract agreement between parties.

37.	T-18-S, R. 27-E Sec. 9: NW¹₄	160	NM-031186 Mildred Crane Hudson Humble Oil & Ref. Co. Dated 7-11-34 (20 year "B" Sliding Scale) (Relief to 11-10-61) (Note 4.)	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	USA Humble Oil & Ref. Co. Mildred Crane Hudson Total	.125000 .750000 .125000 <u>1.0000000</u>	.0103956587 .0623739526 .0103956587 <u>.0831652700</u>
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Notes:

1. 5% royalty effective until 2-1-60.
2. Royalty on Pennsylvanian (Bend) gas production fixed at 12 $\frac{1}{2}$ % pursuant to 43 CFR 192.82 (3) III.
3. Royalty on production from NW $\frac{1}{4}$ NE $\frac{1}{4}$ and SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8, fixed at 12 $\frac{1}{2}$ % (43 CFR 192.82 (3) I.
Royalty on Pennsylvanian (Bend) gas production from NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8, fixed at 12 $\frac{1}{2}$ % (43 CFR 192.82 (3) III.
Royalty on other production from NE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 8, on Schedule "D".
4. Royalty on Pennsylvanian (Bend) gas production fixed at 12 $\frac{1}{2}$ % (43 CFR 192.82 (3) III.
Royalty on gas may be 5%, to be determined by the Department of the Interior.
5. Royalty on all production fixed at 12 $\frac{1}{2}$ % pursuant to 43 CFR 192.82 (3) I.
6. Competitive lease, royalty not fixed, Schedule "B" effective.
7. 5% royalty effective until 1-1-60
8. Overriding royalties may in certain instances be reduced pursuant to 43 CFR 192.83.

RECAPITULATION

<u>TRACT NO.</u>	<u>PARTICIPATING ACREAGE</u>	<u>PERCENTAGE OF PARTICIPATION</u>
4	121	.06289373
6	40	.02079132
8	121.07	.06293012
10	120	.06237395
11	160	.08316527
18	161.81	.08410608
20	80	.04158264
26	80	.04158264
28	160	.08316527
29	120	.06237395
32	40	.02079132
33	40	.02079132
34(C)	200	.10395658
34(D)	160	.08316527
34(E)	80	.04158264
34(F)	80	.04158263
<u>37</u> 17 Tracts	<u>160</u> 1923.88	<u>.08316527</u> 1.00000000

COPY

HUMBLE OIL & REFINING COMPANY

April 7, 1959

7/1
765

In re: Plan of Development - 1959
Chalk Bluff Draw Unit
Eddy County, New Mexico

Mr. Murray E. Morgan
Commissioner of Public Lands
P. O. Box 791
Santa Fe, New Mexico

Attention: Unit Supervisor, Mrs. Marian Rhea

Dear Sir:

I am enclosing herewith fully executed copy of Plan of Development for the Chalk Bluff Draw Unit for the year 1959. This instrument has now been approved by the United States Geological Survey and is being furnished for your permanent files.

Yours very truly,

Gene T. Oliver

GTO:ch

Encl.

cc: Mr. A. L. Porter, Secretary-Director
New Mexico Oil Conservation Commission
Mabry Hall
Santa Fe, New Mexico

State of New Mexico

TELEPHONE
505-827-2748



Commissioner of Public Lands

September 14, 1973

ALEX J. ARMIJO
COMMISSIONER

P. O. BOX 1148
SANTA FE, NEW MEXICO

Exxon Corporation
P. O. Box 1600
Midland, Texas 79701

Re: Chalk Bluff Draw Unit
AMENDMENT
Eddy County, New Mexico

ATTENTION: Mr. L. H. Hahn

Gentlemen:

The Commissioner of Public Lands has this date approved the Amendment to the Chalk Bluff Draw Unit, Eddy County, New Mexico, eliminating all of the leasehold, royalty and other oil and gas interests within the following described lands insofar as they relate to the Abo Reef formation being unitized under the Empire Abo Unit Agreement, and insofar as such interests relate to any and all formations underlying the SE/4SW/4 of Section 4 and the NW/4, N/2SW/4, SE/4SW/4 Section 16, Township 18 South, Range 27 East.

Township 18 South, Range 27 East, N.M.P.M.

Section 4- SE/4SW/4 (Lot 18)
Section 8- SE/4NE/4, E/2SE/4
Section 9- W/2
Section 16- NW/4, N/2SW/4, SE/4SW/4
Section 17- NE/4NE/4, S/2NE/4, N/2SE/4, NE/4SW/4, SE/4NW/4

Please submit Revised Exhibits "A" and "B" to the Unit Agreement reflecting this elimination. Eventho, all State lands have been eliminated from the unit we would still like to have revised Exhibits "A" and "B" for our records.

This approval is subject to like approval by the United States Geological Survey. This amendment will become affective concurrently with the Empire Abo Unit Agreement becoming effective. Please advise when the USGS approves the amendment to ascertain the effective date.

Very truly yours,

RAY D. GRAHAM, Director
Oil and Gas Department

AJA/RDG/s
cc:

USGS-Roswell, New Mexico
OCC- Santa Fe, New Mexico ✓

Drawer 1857
Roswell, New Mexico 88201

March 18, 1964

Humble Oil and Refining Company
P. O. Box 1597
Roswell, New Mexico

Attention: Mr. John S. Cron

Gentlemen:

Your 1964 plan of development for the Chalk Bluff Draw unit agreement, Eddy County, New Mexico, proposing no further development of the Abo and Pennsylvanian Sand formations, has been approved on this date. Said plan was approved by the Commissioner of Public Lands and the Oil Conservation Commission of the State of New Mexico on January 30 and February 6, 1964, respectively.

Five approved copies of the plan are enclosed.

Sincerely yours,

JOHN A. ANDERSON
Regional Oil & Gas Supervisor

cc:
Washington (w/cy of plan)
Artesia (w/cy of plan)
NMOCC - Santa Fe (ltr. only)
Com. of Pub. Lands - Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION
P. O. BOX 871
SANTA FE, NEW MEXICO

XXXXXX 2088

February 6, 1964

C
O
P
Y
Humble Oil & Refining Company
P. O. Box 1597
Roswell, New Mexico

Attention: Mr. John S. Cron

Re: 1964 Plan of Development
Chalk Bluff Draw Unit,
Eddy County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation has this date approved the 1964 Plan of Development for the Chalk Bluff Draw Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Eight approved copies of the application are returned herewith.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/JER/og

cc: Commissioner of Public Lands - Santa Fe
U. S. Geological Survey - Roswell

HUMBLE OIL & REFINING COMPANY
SOUTHWEST REGION
P. O. BOX 1597
ROSWELL, NEW MEXICO

February 3, 1964

In re: Application for Plan of Development
for Year 1964
Chalk Bluff Draw Unit
Eddy County, New Mexico

Director
New Mexico Oil Conservation Commission
Post Office Box 871
Santa Fe, New Mexico

Dear Sir:

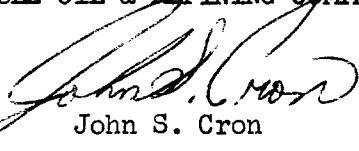
We are enclosing herewith nine copies of Application for Approval of Plan of Development for Chalk Bluff Draw Unit Area, which was approved by the Commissioner of Public Lands on January 30, 1964.

Upon your approval, please return eight copies to us for our transmittal to the United States Geological Survey.

Your early consideration of the enclosed application would be sincerely appreciated.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY: 

John S. Cron

cc: Commissioner of Public Lands
Attention: Mrs. Marian M. Rhea,
Supervisor, Unit Division
Post Office Box 1148
Santa Fe, New Mexico

United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico

Encls.

JSC/mk

4
Humble Oil & Refining Company
P. O. Box 1597
Roswell, New Mexico

Re: Chalk Bluff Draw Unit
Eddy County, New Mexico
1964 Plan of Development

Attention: Mr. John S. Cron

Gentlemen:

The Commissioner of Public Lands approves as of January 30, 1964, your Plan of Development for the Calendar Year 1964 for the Chalk Bluff Draw Unit Area.

This Plan states that this Unit has been contracted back to the two participating areas and that no further development is contemplated in 1964 or succeeding years. Our approval is subject to changes which might occur in this area. Also subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are returning nine approved copies of this Plan of Development.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
(Mrs.) Marian M. Rhea, Supervisor
Unit Division

ESW/mmr/v

cc: Oil Conservation Commission

United States Geological Survey

January 20, 1964

In re: Application for Plan of
Development for Year 1964
Chalk Bluff Draw Unit
Eddy County, New Mexico

Commissioner of Public Lands
Post Office Box 791
Santa Fe, New Mexico

ATTENTION: Mrs. Marian M. Rhea, Supervisor, Unit Division

Dear Sir:

We are enclosing herewith eleven copies of Application for Approval of Plan of Development for Chalk Bluff Draw Unit Area for calendar year 1964. This Plan of Development actually covers the year 1964 and succeeding years and, unless the Commissioner, the Director of the Oil Conservation Commission or the Director of United States Geological Survey have some objections, Humble Oil & Refining Company, as Unit Operator, does not contemplate filing any further plans of development for this unit.

Upon your approval of the enclosed application, please forward at least ten copies of this application to the Director, New Mexico Oil Conservation Commission, Post Office Box 871, Santa Fe, New Mexico, for his approval. With a copy of this letter to the Director of the Oil Conservation Commission, we are requesting that after his approval, he return at least nine copies to the attention of the undersigned for filing with the United States Geological Survey. We wish to thank you for your assistance in securing the Commissioner's approval of this Plan of Development. If there should be any questions regarding this matter, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

John S. Cron

JSC/mk

Enclosures

cc: Director
New Mexico Oil Conservation Commission
Post Office Box 871
Santa Fe, New Mexico

January 20, 1964

cc: United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico

Gulf Oil Corporation
Post Office Drawer 1938
Roswell, New Mexico
ATTENTION: Mr. Jack Cavanaugh

Pan American Petroleum Corporation
Post Office Box 268
Lubbock, Texas
ATTENTION: Mr. Neil S. Whitmore

Continental Oil Company
Post Office Box 1291
Roswell, New Mexico
ATTENTION: Mr. W. A. Mead

CHALK BLUFF DRAW UNIT AREA

EDDY COUNTY, NEW MEXICO

TO: Director
New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Commissioner of Public Lands of the
State of New Mexico
Santa Fe, New Mexico

Director
United States Geological Survey
Roswell, New Mexico

APPLICATION FOR APPROVAL OF PLAN OF DEVELOPMENT
FOR CHALK BLUFF DRAW UNIT AREA FOR CALENDAR YEAR 1964

Comes the undersigned, Humble Oil & Refining Company, the Unit Operator under the Chalk Bluff Draw Unit Agreement, and respectfully submits, in accordance with said agreement, the following plan of development for the Chalk Bluff Draw Unit Area for the calendar year 1964 for approval of the New Mexico Oil Conservation Commission, the Commissioner of Public Lands and the Director of the United States Geological Survey:

1. Your attention is invited to Plans of Development heretofore approved covering the Abo and Pennsylvanian Bend participating areas for information relative to the wells drilled and completed inside the Chalk Bluff Draw Unit Area.
2. As of August 1, 1961, the Unit Area was automatically contracted to cover 2,242.31 acres. All well spacing and proration units which are within the unit area are included in the Abo participating area or the Pennsylvanian Bend participating area, and all of said lands are considered as fully developed for primary production purposes.
3. Due to the fact that all lands in the respective participating areas are considered as fully developed, the drilling of additional

wells to any of the known producing zones are not contemplated in 1964 and succeeding years; however, such remedial work will be performed in connection with existing producing wells from time to time as may be deemed necessary.

Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

Bill R. Payne

By Bill R. Payne
Agent and Attorney-in-fact

APPROVED	
Pres.	
Vice Pres.	
Gen. Mgr.	
Asst. Mgr.	
Secy.	
Treas.	

APPROVED

Feb 6, 1964
G. F. Sauter
Director

New Mexico Oil Conservation Commission

APPROVED

January 30, 1964
E. Walker
Commissioner of Public Lands of the
State of New Mexico

APPROVED

Director

United States Geological Survey

May 13, 1963

In re: Application for Plan of Development
1963, Chalk Bluff Draw Unit
Eddy County, New Mexico

Commissioner of Public Lands
P. O. Box 791
Santa Fe, New Mexico

Attention: Mrs. Marian Rhea

Dear Sir:

Enclosed for your permanent record is fully approved copy of our
Application for Approval of Plan of Development for Chalk Bluff
Draw Unit Area for Calendar Year 1963.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

BY:

John S. Cron

JSC/mk
Enclosure

cc: New Mexico Oil Conservation Commission
Post Office Box 871
Santa Fe, New Mexico

Drawer 1857
Roswell, New Mexico

May 9, 1963

Humble Oil & Refining Company
P. O. Box 1597
Roswell, New Mexico

Attention: Mr. John S. Cron

Gentlemen:

Your 1963 plan of development for the Chalk Bluff Draw unit area, Eddy County, New Mexico, proposing the drilling of no additional wells, has been approved on this date. The plan has been approved by the Oil Conservation Commission and the Commissioner of Public Lands of the State of New Mexico.

Six approved copies of the plan are enclosed.

Sincerely yours,

JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

cc:
Washington (w/cy of plan)
Artesia (w/cy of plan)
NMOCC-Santa Fe (ltr only) ✓
Com. of Pub. Lands-Santa Fe (ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

Handwritten initials

April 19, 1963

Humble Oil & Refining Company
P. O. Box 1597
Roswell, New Mexico

Attention: Mr. John S. Cron

Re: 1963 Plan of Development
Chalk Bluff Draw Unit,
Eddy County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1963 Plan of Development for the Chalk Bluff Draw Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Ten approved copies of the plan of development are returned herewith.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/JEK/ig

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico

Encls.

APR 15 1963

April 15, 1963

Humble Oil & Refining Company
P. O. Box 1597
Roswell, New Mexico

Re: 1963 Plan of Development
Chalk Bluff Draw Unit,
Eddy County, New Mexico

Attention: Mr. John S. Cron

Gentlemen:

The Commissioner of Public Lands has approved as of April 15, 1963, the 1963 Plan of Development for Chalk Bluff Draw Unit Area, Eddy County, New Mexico subject to like approval by the Oil Conservation Commission and the United States Geological Survey.

We are handing eleven approved copies of this Plan of Development to the Oil Conservation Commission for their consideration.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
(Mrs.) Marian M. Rhea, Supervisor
Unit Division

BSW/mmr/v

cc: Oil Conservation Commission
Santa Fe, New Mexico

encl - 11

U. S. Department of Interior
Geological Survey
Roswell, New Mexico
Attention: Mr. John A. Anderson

April 11, 1963

In re: Application for Plan of Development for Year 1963
Chalk Bluff Draw Unit
Eddy County, New Mexico

Commissioner of Public Lands
Post Office Box 791
Santa Fe, New Mexico

Attention: Mrs. Marian M. Rhea, Supervisor
Unit Division

Dear Sir:

Reference is made to our letter of February 4, 1963, wherein we forwarded to your office 13 copies of Application for Approval of Plan of Development for Chalk Bluff Draw Unit Area for calendar year 1963. In our letter of February 4th, we also requested that after the Commissioner's approval of said plan of development, that you forward same to the Director of the Oil Conservation Commission for his approval.

As we have not received any notice that said plan has been approved by the Commissioner, we would appreciate your advising when we may expect said plan to be considered for approval by your office. Your cooperation in this matter is sincerely appreciated.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By:

John S. Cron

JSC/mk

cc: Director, New Mexico Oil Conservation Commission
United States Geological Survey
Gulf Oil Corporation
Pan American Petroleum Corporation
Continental Oil Company

C O P Y

February 4, 1963

8:58 FEB 11 AM 8:19

In re: Application for Plan of Development for Year 1963
Chalk Bluff Draw Unit
Eddy County, New Mexico

RECEIVED

Commissioner of Public Lands
P. O. Box 791
Santa Fe, New Mexico

U. S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

Attention: Mrs. Marian M. Rhea, Supervisor
Unit Division

Dear Sir:

We are enclosing herewith 13 copies of Application for Approval of Plan of Development for Chalk Bluff Draw Unit Area for calendar year 1963.

Upon your approval we would appreciate your forwarding at least 11 copies of this Application to the Director, New Mexico Oil Conservation Commission, P. O. Box 871, Santa Fe, New Mexico, for his approval. With a copy of this letter to the Director of the Oil Conservation Commission, we are requesting that after his approval, he return at least 10 copies to this office for our further handling and filing with the United States Geological Survey.

We are enclosing our draft No. 6F-1367 in the amount of \$12.00, covering the filing fee for this Plan of Development. If there should be any further questions or if we can be of any further assistance in this matter, please let us know.

Yours very truly,

WUMBLE OIL & REFINING COMPANY

John S. Cron

NOTED
FEB 7 1963
LUWE

NOTED
FEB 6 1963
WYATT

NOTED
FEB 6 1963
FELDMILLER

JSC/mk
Encls.

cc: Director, New Mexico Oil Conservation Commission
United State Geological Survey
Gulf Oil Corporation
Pan American Petroleum Corporation
Continental Oil Company

NOTED
FEB 6 1963
SHOBER

NOTED
FEB 6 1963

NOTED
FEB 5 - 1963
ANDERSON

NOTED
FEB 7 1963
PEARCY

CHALK BLUFF DRAW UNIT AREA
MAIN OFFICE OCC

EDDY COUNTY, NEW MEXICO

1963 APR 15 PM 3 46

38354

REC'D
FEB 5 2 53 AM '63
STATE LAND OFFICE
SANTA FE, N.M.

TO: Director
New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Commissioner of Public Lands of the
State of New Mexico
Santa Fe, New Mexico

Director
United States Geological Survey
Roswell, New Mexico

APPLICATION FOR APPROVAL OF PLAN OF DEVELOPMENT
FOR CHALK BLUFF DRAW UNIT AREA FOR CALENDAR YEAR 1963

Comes the undersigned, Humble Oil & Refining Company, the Unit Operator under the Chalk Bluff Draw Unit Agreement, and respectfully submits, in accordance with said agreement, the following plan of development for the Chalk Bluff Draw Unit Area for the calendar year 1963 for approval of the New Mexico Oil Conservation Commission, the Commissioner of Public Lands and the Director of the United States Geological Survey:

1. Please refer to Plans of Development heretofore approved covering the Abo and Pennsylvanian Bend participating areas for pertinent information regarding wells drilled and completed inside the Chalk Bluff Draw Unit Area in prior years.

2. During the calendar year of 1962, Unit Operator re-completed the Abo Chalk Bluff Draw Unit Well 3-P in the Abo formation; however, unit operator and the other working interest owners unanimously agreed that said well was not a well capable of producing in paying quantities as defined in the Chalk Bluff Draw Unit Agreement and should not be included in the Abo participating area. The United States Geological Survey concurred with this determination.

3. Unit Operator proposes to drill no additional wells during the calendar year of 1963. Operator considers both the Abo and Pennsylvanian Bend Participating areas to be fully developed at this time, especially after the completion of Well 3-P referred to above.

38354

Unit Operator will continue to study the unit area and observe the production performance of the wells which have been drilled and completed inside the unit area.

Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

By Bill A. Payson
Agent and Attorney-in-Fact
~~XXX~~

APPROVED	
Class.	
Acres	
Est.	
Form	<i>OK</i>
Trade	<i>OK</i>

APPROVED

April 19, 1963
A. L. Porter
Director

New Mexico Oil Conservation Commission

APPROVED

April 15, 1963
Esmaelher
Commissioner of Public Lands of the
State of New Mexico

APPROVED

April 19, 1963
A. L.
Director

United States Geological Survey

RECEIVED
FEB 5 8 53 AM '63
STATE LAND OFFICE
SANTA FE, N. M.

Drawer 1857
Roswell, New Mexico

December 12, 1962

Humble Oil & Refining Company
P. O. Box 1597
Roswell, New Mexico

Attention: Mr. John S. Cron

Gentlemen:

Your letter of November 28, advises that the Abe Chalk Bluff Draw Unit well No. 3-P in the SE $\frac{1}{4}$ sec. 8, T. 18 S., R. 27 E., Eddy County, New Mexico, on Federal lease LC 054205, is determined to be not capable of producing unitized substances in paying quantities from the Pennsylvanian Bend and Abe formations.

This office concurs with the determination that unit well No. 3-P is incapable of producing unitized substances in paying quantities from either the Pennsylvanian Bend sand or the Abe formation.

Very truly yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Washington (w/cy Humble letter)
N.M.O.C.C. - Santa Fe (w/cy Humble letter)
Com. Public Lands, Santa Fe (w/cy Humble letter)
Artesia (w/cy Humble letter)

HUMBLE OIL & REFINING COMPANY

SOUTHWEST REGION

P. O. BOX 1597

ROSWELL, NEW MEXICO

November 20, 1962

Re: Chalk Bluff Draw Unit Well 3-P
Eddy Group, New Mexico

RECEIVED

NOV 29 1962

United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

U. S. Geological Survey
ROSWELL, NEW MEXICO

Attention: Mr. John Anderson.

Gentlemen:

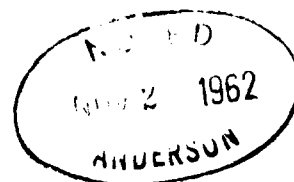
This letter is to notify you that the working interest owners of the Chalk Bluff Draw Unit have unanimously agreed that the Abu Chalk Bluff Draw Unit Well No. 3-P is not a well capable of producing in paying quantities as defined in the Chalk Bluff Draw Unit Agreement and should not be included in the Abu participating area.

The subject well was originally completed in July 5, 1961, as a gas well producing from the Pennsylvanian Bend and. Producing capability of the Pennsylvanian Bend sand had declined severely and workover attempts to increase gas production were unsuccessful. The Pennsylvanian Bend sand was shut off and the well was recompleted in the Abu Reef pay in April 3, 1962. The well initially tested at 300 barrels of oil per day with 5 per cent water and has subsequently declined in producing capability. Production by months since completion is as follows:

Months	Production	DA	R/D	B/D
April 1962	630	30	21.0	148 - 4.9
May 1962	611	31	19.7	143 - 4.6
June 1962	545	30	18.2	
July 1962	512	31	16.5	39 - 1.3
August 1962	486	31	15.7	54 - 1.7
September 1962	393	30	13.1	44 - 1.5
October 1962	406	31	13.1	
	<u>3585</u>			

In view of the above, the Abu Chalk Bluff Draw Unit Well No. 3-P should be considered a non-commercial unit well in both the Pennsylvanian and Abu formations as contemplated by the Chalk Bluff Draw Unit Agreement.

ILLEGIBLE



If you should need additional information regarding this well, please let us know.

Yours very truly,

HUMBLE OIL & REFINING COMPANY

By:

John S. Cron
John S. Cron

JSC/dm

cc: Pan American Petroleum Corporation
P. O. Box 268
Lubbock, Texas
ATTENTION: Mr. N. S. Whitmore

Continental Oil Company
P. O. Box 1377
Roswell, New Mexico
ATTENTION: Mr. W. A. Mead

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico
ATTENTION: Mr. M. I. Taylor



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico

June 13, 1962

Humble Oil & Refining Company
P. O. Box 1597
Roswell, New Mexico

Attention: Mr. Robert J. Walker, Jr.

Gentlemen:

Your 1962 plan of development for the Chalk Bluff Draw unit area proposing the drilling of no additional wells, has been approved on this date.

The Commissioner of Public Lands and the New Mexico Oil Conservation Commission approved the plan on March 7 and March 23, 1962, respectively.

Six approved copies of the plan are enclosed.

Very truly yours,

CARL C. TRAYWICK
Acting Regional Oil and Gas Supervisor

Attachments

Copy to: Washington (w/cy of plan)
Artesia (w/cy of plan)
NMOCC-Santa Fe (ltr only) ✓
Com. of Pub. Lands-Santa Fe (ltr only)

APearcy:gs

OIL CONSERVATION COMMISSION

P. O. BOX 871
SANTA FE, NEW MEXICO

76

March 23, 1962

Humble Oil & Refining Co.
P. O. Box 1597
Roswell, New Mexico

Attention: Mr. Robert J. Walker, Jr.

Re: 1962 Plan of Development
Chalk Bluff Draw Unit,
Eddy County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the 1962 Plan of Development for the Chalk Bluff Draw Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Nine approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/JEK/ig

cc: U. S. Geological Survey
State Land Office

March 7, 1962

C
O
P
Y

Humble Oil & Refining Company
P. O. Box 1597
Roswell, New Mexico

Re: Plan of Development
for 1962
Chalk Bluff Draw Unit,
Eddy County, New Mexico

Attention: Mr. Robert J. Walker, Jr.

Gentlemen:

The Commissioner of Public Lands has of this date approved your Application for Plan of Development for 1962 for the Chalk Bluff Draw Unit.

We are handing under copy of this letter ten copies to the Director of the New Mexico Oil Conservation Commission for his consideration.

We are enclosing Official Receipt No. 84566 which covers the filing fee for this Plan of Development.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
(Mrs.) Marian M. Rhea, Supervisor
Unit Division

ESW/mm/v

HUMBLE OIL & REFINING COMPANY

SOUTHWEST REGION

P. O. BOX 1597

ROSWELL, NEW MEXICO

January 22, 1962

MAILED OFFICE REC
1962 JAN 24 11 13
13
13

Receipt 84566
H C 13877

In re: Application for Plan of
Development for 1962
Chalk Bluff Draw Unit
Eddy County, New Mexico

Director
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Dear Sir:

Enclosed we are forwarding to you 12 copies of Application for Approval of Plan of Development for Chalk Bluff Draw Unit Area for Calendar Year 1962.

Upon your approval we would appreciate your forwarding all copies to the Commissioner of Public Lands for his approval. We are, by copy of this letter, requesting that the Commissioner return at least ten copies to this office for our further handling and filing with the U.S.G.S. Also by copy of this letter, we are forwarding the Commissioner our Draft No. 6F-7159 in the amount of \$12.00 covering his filing fees.

If there should be any further question, or if we can be of any further assistance in this regard, please advise.

Yours very truly,

Robert J. Walker, Jr.

Robert J. Walker, Jr.

RJW/dm
Encls.

cc: Commissioner of Public Lands
U.S.G.S. - Roswell
Hondo Oil & Gas Company
Gulf Oil Corporation
Pan American Petroleum Corporation
Continental Oil Company

CHALK BLUFF DRAW UNIT AREA

EDDY COUNTY, NEW MEXICO

TO: Director
New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Commissioner of Public Lands of the
State of New Mexico
Santa Fe, New Mexico

Director
United States Geological Survey
Boswell, New Mexico

APPLICATION FOR APPROVAL OF PLAN OF DEVELOPMENT
FOR CHALK BLUFF DRAW UNIT AREA FOR CALENDAR YEAR 1962

Comes the undersigned, Humble Oil & Refining Company, the Unit Operator under the Chalk Bluff Draw Unit Agreement, and respectfully submits, in accordance with said agreement, the following status report and plan of development for the Chalk Bluff Draw Unit Area for the calendar year 1962 for approval of the New Mexico Oil Conservation Commission, the Commissioner of Public Lands and the Director of the United States Geological Survey:

1. During the calendar year of 1961, Unit Operator, with the approval of the participating working interest owners, drilled nine (9) wells for the purpose of determining the limits of the Abo participating area, six (6) of which were completed as producing wells and three (3) as dry holes, said wells with the respective completion dates being as follows:

<u>WELL NO.</u>	<u>LOCATION</u>	<u>TOTAL DEPTH</u>	<u>COMPLETION DATE</u>
20	1650 FSL 330 FEL Sec. 17-18S-27E	5,970'	1-14-61 Dry Hole
19	990 FSL 1650 FWL Sec. 16-18S-27E	5,985'	1-19-61
11	2310 FNL 330 FEL Sec. 17-18S-27E	5,638'	1-21-61
22	1650 FSL 330 FEL Sec. 8-18S-27E	5,576'	1-21-61

<u>WELL NO.</u>	<u>LOCATION</u>	<u>TOTAL DEPTH</u>	<u>COMPLETION DATE</u>
21	1592 FSL 2302 FWL Sec. 4-18S-27E	5,602'	4-26-61 Dry Hole
25	2314 FSL 330 FEL Sec. 17-18S-27E	5,602'	6-21-61
24	2310 FSL 1650 FEL Sec. 17-18S-27E	5,600'	6-30-61
26	2310 FSL & FWL Sec. 17-18S-27E	5,555'	9-16-61
27	1980 FNL 2303 FWL Sec. 17-18S-27E	5,655'	12-13-61 Dry Hole

In addition to the above, on May 14, 1961, Well No. 4-P, located 1980 feet from the North and East lines of Section 17, Township 18 South, Range 27 East, which had theretofore been completed as a gas well in the Pennsylvanian Bend Formation, was dually completed in the Abo Formation.

2. As of August 1, 1961, the unit area was automatically contracted in accordance with the provisions of Section 2(e) of the Unit Agreement, and the unit area now contains the following described lands, to-wit:

Township 18 South, Range 27 East, N.M.P.M.

Section 4: SE $\frac{1}{4}$ SW $\frac{1}{4}$
Section 5: All
Section 8: E $\frac{1}{2}$
Section 9: W $\frac{1}{2}$
Section 16: NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$
Section 17: All

Containing 2,242.31 acres, more or less.

3. That Well No. 3-P, which has heretofore been completed as a gas well in the Pennsylvanian Bend participating area, located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 8, Township 18 South, Range 27 East, N.M.P.M., is now in the process of being worked over by Unit Operator in an attempt to complete the same as a dual well in the Abo formation.

4. That depending upon the outcome of the dual completion of Well No. 3-P above referred to, in the Abo Formation, Operator will consider drilling a well for the purpose of extending the Abo participating area in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 9, Township 18 South, Range 27 East, N.M.P.M., but would not like to make a definite commitment for the drilling of said well unless Well No. 3-P can be satisfactorily completed in the Abo formation.

That except as set forth in the preceding paragraph, Operator feels that both the productive limits of oil and gas in paying quantities has been reasonably defined for both the Abo and Pennsylvanian Bend participating areas, respectively, and it is believed that the drilling of additional wells for the purpose of extending either participating areas would not be justified at least until Unit Operator and the other working interest owners involved have had a reasonable time to observe production performance from the wells which have been drilled, especially those establishing the western limits of the Abo participating area.

Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

By Bill A. Payne

By R. L. McArthur

Unit Operator

APPROVED	
Desc.	
Acreage	
Int.	
Form	CEN
Trade	RAW

APPROVED

March 23, 1962

Director

New Mexico Oil Conservation Commission

APPROVED

March 7, 1962

C. S. Walker

Commissioner of Public Lands of the
State of New Mexico

APPROVED

Director

United States Geological Survey



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico

December 14, 1961

Humble Oil and Refining Company
P. O. Box 1597
Roswell, New Mexico

Gentlemen:

Your undated application for the tenth revision of the Abo participating area for the Chalk Bluff Draw unit agreement, Eddy County, New Mexico, was approved December 1, 1961, by the Acting Director, Geological Survey, effective as of September 1, 1961.

Five approved copies of the application are enclosed. It is assumed that you will furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Very truly yours,

(Orig.Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Regional Oil and Gas Supervisor

Copy to: Washington (ltr. only)
Artesia (w/cy of appln)
BLM, Santa Fe (w/cy of appln.)
NMOCC, Santa Fe (ltr. only)
Com. of Pub. Lands, Santa Fe (ltr. only)

October 30, 1961

Humble Oil & Refining Company
P. O. Box 1597
Roswell, New Mexico

RE: Tenth Expansion Participating
Area, ABO Reef Formation
Chalk Bluff Draw Unit,
Eddy County, New Mexico

Attention: Mr. Robert J. Walker, Jr.

Gentlemen:

The Commissioner of Public Lands approved, as of October 30, 1961, the Tenth Expansion of Initial Participating Area of the Abo Reef Formation for the Chalk Bluff Draw Unit, Eddy County, New Mexico.

Nine approved copies of this application are enclosed.

Please notify us when this application has been fully approved.

Also enclosed is our Official Receipt No. F 78122 in the amount of \$12.00 which covers the filing fee.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

ESW/mmr/v

Encl:

cc: Oil Conservation Commission
Santa Fe, New Mexico

U. S. Geological Survey
Roswell, New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

October 27, 1961

Humble Oil & Refining Company
P. O. Box 1391
Roswell, New Mexico

Attention: Mr. Robert J. Walker, Jr.

Re: Tenth Expansion Participating
Area, Abo Reef Formation Chalk
Bluff Draw Unit, Eddy County,
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Tenth Expansion of Initial Participating Area of the Abo Reef Formation for the Chalk Bluff Draw Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Commissioner of Public Lands of the State of New Mexico.

Eleven approved copies of the application are being forwarded to the Commissioner of Public Lands.

Very truly yours,

A. L. PORTER, Jr.,
Secretary-Director

ALP/JEK/ig

cc: Commissioner of Public Lands

U. S. Geological Survey - Roswell



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico

October 16, 1961

Humble Oil and Refining Company
P. O. Box 1897
Roswell, New Mexico

Attention: Mr. Robert J. Walker, Jr.

Gentlemen:

Your undated application for the ninth revision of the Abo participating area for the Chalk Bluff Draw unit area, Eddy County, New Mexico, was approved October 5, 1961, by the Acting Director, Geological Survey, effective as of June 1, 1961.

Six approved copies of the application are enclosed. It is assumed that you will furnish the State of New Mexico and any other interested party with appropriate evidence of this approval.

Very truly yours,

(Orig. Sent) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Copy to: Washington (ltr. only)
BLM-Santa Fe (w/cy of appln.)
Artesia, (w/cy of appln.)
NMOC, Santa Fe (ltr. only)
Com. of Pub. Lands, Santa Fe (ltr. only)

HUMBLE OIL & REFINING COMPANY

SOUTHWEST REGION

P. O. BOX 1597

ROSWELL, NEW MEXICO

October 12, 1961

In re: Chalk Bluff Draw Unit
Eddy County, New Mexico

New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

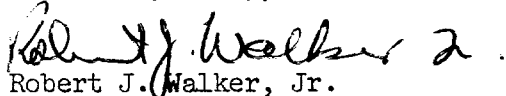
Gentlemen:

Enclosed we are forwarding to you twelve (12) copies of our application for approval of tenth expansion of initial participating area, Chalk Bluff Draw Unit, for the Abo reef formation. We would appreciate your approval at your very earliest convenience, and forwarding the application to the Commissioner of Public Lands for his approval.

We are, by copy of this letter, forwarding the Commissioner of Draft No. 6F-6881 in the amount of \$12.00 to cover the filing fees for the above mentioned application. Upon the Commissioner's approval and execution of this application, we will appreciate his returning at least ten (10) copies for our further handling and filing with the U.S.G.S.

If there should be any further question, or if we can be of any further assistance in this regard, please advise.

Yours very truly,


Robert J. Walker, Jr.

RJW/dm
Encls.

cc: Gulf Oil Corporation
Continental Oil Company
Pan American Petroleum Corporation
Commissioner of Public Lands
United States Geological Survey

In re: Chalk Bluff Draw Unit Area
Eddy County, New Mexico

TO: Director
United States Geological Survey

Commissioner of Public Lands
State of New Mexico

New Mexico
Oil Conservation Commission

APPLICATION FOR APPROVAL OF TENTH
EXPANSION OF INITIAL PARTICIPATING AREA
CHALK BLUFF DRAW UNIT AREA FOR THE ABO REEF FORMATION

Comes the Humble Oil & Refining Company, as Unit Operator for the Chalk Bluff Draw Unit Agreement approved by the New Mexico Oil Conservation Commission on October 13, 1955, by the Commissioner of Public Lands of the State of New Mexico on November 10, 1955, and by the Director of the United States Geological Survey on December 29, 1955, and pursuant to the provisions of said Unit Agreement respectfully submits for the approval of the Director, Commissioner and Commission the tenth revision of the initial participating area for the Abo reef formation as hereinafter set forth.

1. The initial participating area, together with the first through the eighth expansions and the application heretofore made for the ninth expansion include the following described lands within the unit area:

Township 18 South, Range 27 East, N.M.F.M.

Section 4: Lot 18
Section 8: $E\frac{1}{2}SE\frac{1}{4}$
Section 9: $E\frac{1}{2}W\frac{1}{2}$, $W\frac{1}{2}SW\frac{1}{4}$, $SW\frac{1}{4}NW\frac{1}{4}$
Section 16: $NW\frac{1}{4}$, $N\frac{1}{2}SW\frac{1}{4}$, $SE\frac{1}{4}SW\frac{1}{4}$
Section 17: $S\frac{1}{2}NE\frac{1}{4}$, $N\frac{1}{2}SE\frac{1}{4}$

Containing 838.43 acres, more or less.

2. That during the month of September, 1961, one additional well was completed capable of producing oil and gas from the Abo Reef formation offsetting the participating area as heretofore approved and proposed to be expanded by application for the ninth expansion now pending. The additional well is located upon

the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 17, Township 18 South, Range 27 East, N.M.F.M. and is more particularly described as follows:

Abo Chalk Bluff Draw Unit No. 26:

Location: 2310' FSL & FWL, Section 17, T-18-S, R-27-E
Total Depth: 5555'
Perforated Intervals: 5468-5473', 5486-5500', 5518'-5522'
Net Pay: 38'
Initial Potential: 35 BO plus 55 BW
Completed Date: September 16, 1961

It is proposed that on account of the above well that the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 17, Township 18 South, Range 27 East, N.M.F.M., be added to the participating area as heretofore approved, effective September 1, 1961, being the first of the month during which said well was completed.

That there is attached hereto, made a part hereof and for purposes of identification marked Exhibit "B" - 10, a schedule of participation for the tenth expanded participating area effective as of September 1, 1961, and which shows the percentages of participation by the owners of royalty, overriding royalties and working interests.

3. That there is attached hereto, made a part hereof and for purposes of identification marked Exhibit "A", a map of the Chalk Bluff Draw Unit Area showing the character of the lands, the ownership of the oil and gas leases within the unit area, and the participating area as expanded and proposed to be expanded and also the location of the well which has been drilled within the unit area.

4. That there is also attached hereto, made a part hereof and for purposes of identification marked Exhibit "C", a geological report prepared by C. V. Roberts, Area Geologist, together with an Isopachous Map of the Western portion of the Empire Abo Field which shows the relationship of the additional land to be included in the participating area by reason of the proposed expansion to the development of the Empire Abo Field to date and which indicates that said lands are reasonably proven to be productive of oil and gas in paying quantities from the Abo Reef formation.

WHEREFORE, applicant respectfully requests that the tenth proposed expansion of the initial participating area as outlined hereinabove be approved by

the Commissioner of Public Lands of the State of New Mexico, the New Mexico Oil Conservation Commission and the Director of the United States Geological Survey.

Respectfully submitted,

HUMBLE OIL & REFINING COMPANY

By

John F. DeLoe
AGENT AND ATTORNEY IN FACT

Operator

APPROVED	
Desc.	☒
Acreage	☒
Int.	☒
Form	☒
Acctg.	☐
Prod.	☐
Trade	☒

HERVEY, DOW & HENKLE

By

James H. Henkle
Attorneys for

Humble Oil & Refining Company

APPROVED this the 27 day of Oct., 1961.

A. J. Carter, Jr.
Secretary-Director

New Mexico Oil Conservation Commission

APPROVED this the ____ day of _____, 1961.

Commissioner of Public Lands

APPROVED this the ____ day of _____, 1961.

Director

United States Geological Survey

R 27 E

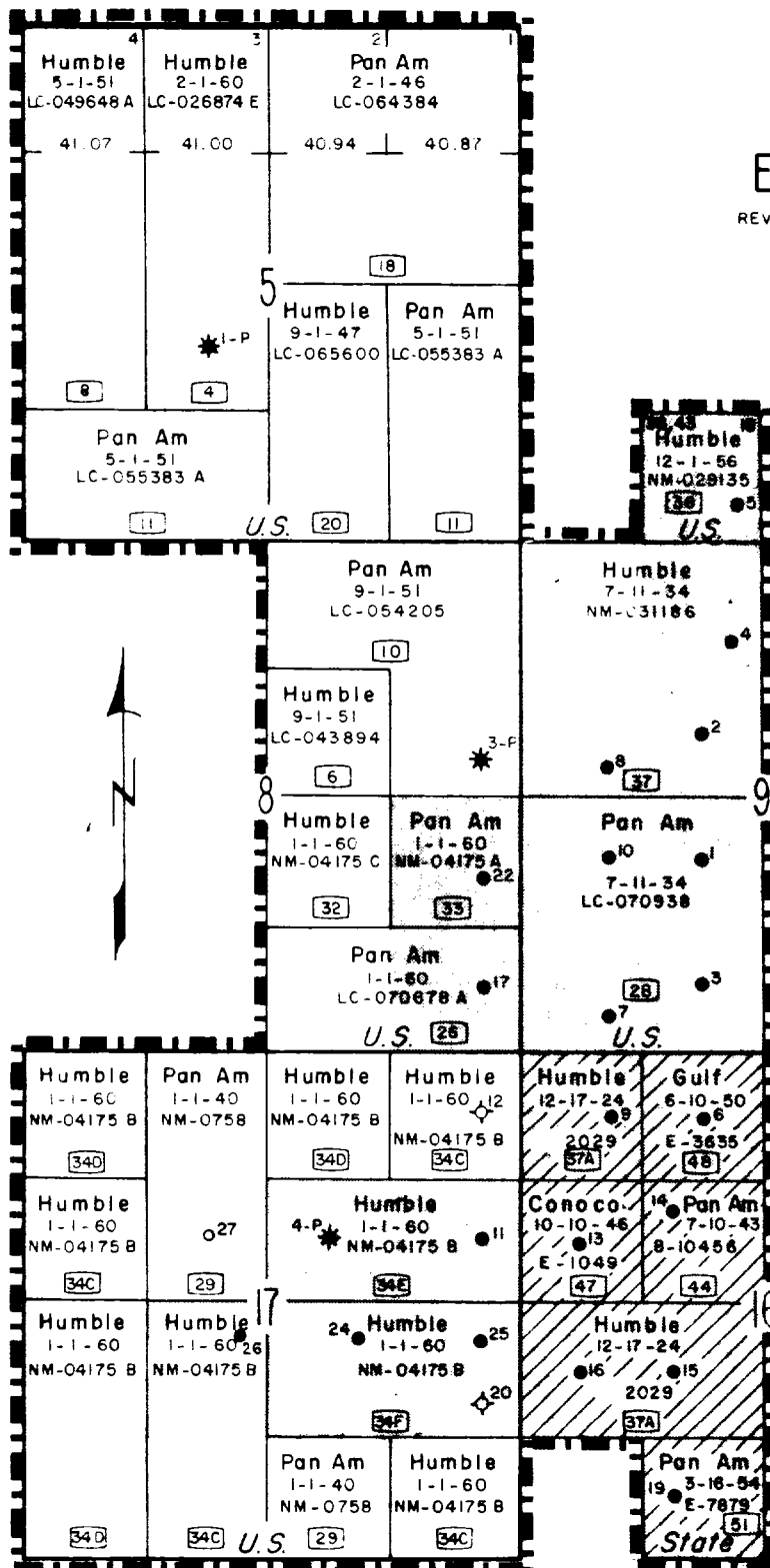


EXHIBIT "A"

REVISED October 1, 1961

T 18 S

R 27 E

CHALK BLUFF DRAW UNIT AREA

Eddy County, New Mexico

2242.31 AC.

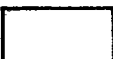
- | | | | |
|---|---|---|--------------|
|  | Federal Land
1962.31 acres, 87.513% of Unit Area. |  | Location |
|  | State Land
280 acres, 12.487% of Unit Area. |  | Dry hole |
|  | Penn.(Bend) participating area (includes
initial first and second expanded areas),
all Federal land, 1923.88 acres. |  | Oil well |
|  | Initial through ninth enlargement. Abo participating
area, 838.43 acres. 558.43 acres Federal land.
280 acres State of New Mexico land. |  | Gas well |
|  | Tenth expanded Abo participating area,
878.43 acres. 598.43 acres Federal land.
280 acres State of New Mexico land. |  | Unit Outline |
| | |  | Tract number |

EXHIBIT "B" - 10
SCHEDULE OF PARTICIPATION, TENTH EXPANDED PARTICIPATING AREA
CHALK BLUFF DRAW UNIT ABO PRODUCTION
(ABO REEF FORMATION ONLY)
EFFECTIVE SEPTEMBER 1, 1961

TRACT NO.	PARTICIPATING		LEASE NUMBER, LESSEE OF RECORD AND DATE OF LEASE	OWNERSHIP	PARTICIPATION	
	ACREAGE	PARTICIPATING ACREAGE			BY PERCENTAGES TRACT	AREA
26.	T-18-S, R-27-E Sec. 8: $\frac{SE\frac{1}{4}SE\frac{1}{4}}{4}$	40.00	LC-070678 (a) Pan American Pet. Corp. Dated 1-1-60	U.S.A. Pan American Pet. Corp. Hondo Oil & Gas Co. Mildred Crane Hudson Higgins Trust, Inc. Total *Schedule "C" Royalty 12 $\frac{1}{2}$ % to 25%	.125000* .750000 .050000 .060937 .014063 <u>1.000000</u>	.00569197 .03415184 .00227679 .00277481 .00064037 <u>.04553578</u>
28.	T-18-S, R-27-E Sec. 9: $\frac{SW\frac{1}{4}}{4}$	160.00	LC-070938 Pan American Pet. Corp. Dated 7-11-34	U.S.A. Pan American Pet. Corp. Hondo Oil & Gas Co. Total *Sliding Scale Royalty	.125000* .825000 .050000 <u>1.000000</u>	.02276789 .15026810 .00910716 <u>.18214315</u>
33.	T-18-S, R-27-E Sec. 8: $\frac{NE\frac{1}{4}SE\frac{1}{4}}{4}$	40.00	NM-04175 (a) Pan American Pet. Corp. Dated 1-1-60	U.S.A. Pan American Pet. Corp. Higgins Trust, Inc. Mildred Crane Hudson Total *Schedule "C" Royalty 12 $\frac{1}{2}$ % to 25%	.125000* .770000 .014063 .090937 <u>1.000000</u>	.00569197 .03506255 .00064037 .00414089 <u>.04553578</u>
34 C.	T-18-S, R-27-E Sec 17: $\frac{NE\frac{1}{4}SW\frac{1}{4}}{4}$	40.00	NM-04175 (b) Humble Oil & Refg. Co. Dated 1-1-60	U.S.A. Humble Oil & Refg. Co. Pan American Pet. Corp. Mildred Crane Hudson Total *Schedule "D" Royalty 12 $\frac{1}{2}$ % to 33-1/3%	.125000* .609375 .140625 .125000 <u>1.000000</u>	.00569197 .02774837 .00640347 .00569197 <u>.04553578</u>

34 E.	T-18-S, R-27-E Sec. 17: $SE\frac{1}{4}NE\frac{1}{4}$, $SW\frac{1}{4}NE\frac{1}{4}$	80.00	NM-04175 (b) Humble Oil & Refg. Co. Dated 1-1-60	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	U.S.A. Humble Oil & Refg. Co. Pan American Pet. Corp. Julian E. Simon Nearburg & Ingram R. J. St. Germain Tela Corporation Total *Schedule "D" Royalty 12 $\frac{1}{2}$ % to 33-1/3%	.125000* .609375 .140625 .062500 .015625 .023438 .023437 1.000000	.01138395 .05549675 .01280694 .00569197 .00142299 .00213454 .00213444 .09107158
34 F.	T-18-S, R-27-E Sec. 17: $N\frac{1}{2}SE\frac{1}{4}$	80.00	NM-04175 (b) Humble Oil & Refg. Co. Dated 1-1-60	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	U.S.A. Humble Oil & Refg. Co. Pan American Pet. Corp. Julian E. Simon Nearburg & Ingram R. J. St. Germain Tela Corporation Total *Schedule "D" Royalty 12 $\frac{1}{2}$ % to 33-1/3%	.125000* .609375 .140625 .062500 .015625 .023438 .023437 1.000000	.01138395 .05549675 .01280694 .00569197 .00142299 .00213454 .00213444 .09107158
36.	T-18-S, R-27-E Sec. 4: Lot 18	38.43	NM-029135 Humble Oil & Refg. Co. Dated 12-1-56	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	U.S.A. Humble Oil & Refg. Co. None Total *Schedule "B" Royalty 12 $\frac{1}{2}$ % to 25%	.125000* .875000 .000000 1.000000	.00546856 .03827995 .00000000 .04374851
37.	T-18-S, R-27-E Sec. 9: $E\frac{1}{2}NW\frac{1}{4}$, $SW\frac{1}{4}NW\frac{1}{4}$	120.00	NM-031186 Humble Oil & Refg. Co. Dated 7-11-34	<u>Basic Royalty</u> <u>Working Interest</u> <u>Overriding Royalty</u>	U.S.A. Humble Oil & Refg. Co. Mildred Crane Hudson Total *Sliding Scale Royalty	.125000* .750000 .125000 1.000000	.01707592 .10245552 .01707592 .13660736

37 A.	T-18-S, R-27-E Sec. 16: NW $\frac{1}{4}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$	120.00	2029 Humble Oil & Refg. Co. Dated 12-17-24	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	State of New Mexico Humble Oil & Refg. Co. W. R. Atkinson Nearburg & Ingram Tela Corporation R. J. St. Germain J. Hiram Moore Blanche Widaman Stanley Carper Marshall Rowley Robert E. Boling Samedan Foundation, Trust Ralph H. Hunt A. J. Losee Marion E. Spittler Western Development Co. of Delaware Elbert T. Boling & wife, Stella M. Boling Total	.125000 .750000 .015625 .007813 .011718 .011718 .007813 .015625 .010417 .005208 .005208 .007813 .00079683 .008750 .004167 .004167 .003125 1.000000	.01707592 .10245552 .00213449 .00106731 .00160077 .00160077 .00106731 .00213449 .00142304 .00071145 .00071145 .00106731 .00079683 .00119532 .00056924 .00056924 .00042690 1.3660736
44.	T-18-S, R-27-E Sec. 16: SE $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	B-10456 Pan American Pet. Corp. Dated 7-10-43	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	State of New Mexico Pan American Pet. Corp. None Total	.125000 .875000 .000000 1.000000	.00569197 .03984381 .00000000 .04553578
47.	T-18-S, R-27-E Sec. 16: SW $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	E-1049 Continental Oil Company Dated 10-10-46	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	State of New Mexico Continental Oil Co. None Total	.125000 .875000 .000000 1.000000	.00569197 .03984381 .00000000 .04553578
48.	T-18-S, R-27-E Sec. 16: NE $\frac{1}{4}$ NW $\frac{1}{4}$	40.00	E-3635 Gulf Oil Corp. Dated 6-10-50	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	State of New Mexico Gulf Oil Corp. None Total	.125000 .875000 .000000 1.000000	.00569197 .03984381 .00000000 .04553578
51.	T-18-S, R-27-E Sec. 16: SE $\frac{1}{4}$ SW $\frac{1}{4}$	40.00	E-7879 Pan American Pet. Corp. Dated 3-16-54	Basic Royalty <u>Working Interest</u> <u>Overriding Royalty</u>	State of New Mexico Pan American Pet. Corp. None Total	.125000 .875000 .000000 1.000000	.00569197 .03984381 .00000000 .04553578

RECAPITULATION

<u>Tract No.</u>	<u>Participating Acreage</u>	<u>Percentage</u>
26	40.00	.04553578
28	160.00	.18214315
33	40.00	.04553578
34 C	40.00	.04553578
34 E	80.00	.09107158
34 F	80.00	.09107158
36	38.43	.04374851
37	120.00	.13660736
37 A	120.00	.13660736
44	40.00	.04553578
47	40.00	.04553578
48	40.00	.04553578
<u>51</u>	<u>40.00</u>	<u>.04553578</u>
Total 13 Tracts	878.43	1.00000000

GEOLOGICAL AND ENGINEERING REPORT
PROPOSED TENTH EXPANSION OF PARTICIPATING AREA
EMPIRE ABO POOL - CHALK BLUFF DRAW UNIT
EDDY COUNTY, NEW MEXICO

The Chalk Bluff Draw Unit, located in north-central Eddy County, New Mexico was approved December 29, 1955. The following data are submitted in support of the application for approval of the Tenth Expansion of Participating Area in the Chalk Bluff Draw Unit Area. This expansion adds 40 acres to the Ninth Expansion for a total of 878.43 acres of Unit Participation.

Well Data

Abo Chalk Bluff Draw Unit No. 26

Location: 2310' FSL & FWL, Section 17, T-18-S, R-27-E
Total Depth: 5555'
Perforated Intervals: 5468-5473', 5486-5500', 5518-5522'
Net Pay: 38'
Initial Potential: 35 BO plus 55 BW
Completed Date: September 16, 1961

We believe the Abo Chalk Bluff Draw Unit No. 26 to be a paying well, based on the amount of pay penetrated and the initial producing rate. Therefore, it is submitted for your approval as the Tenth Expansion of the Initial Participating Area.

Geology and Reservoir

A revised isopach map of net Abo reef pay is attached. Past development in the Empire Abo reef field has indicated a favorable trend into the Chalk Bluff Draw Unit Area. The proposed Expansion of the Initial Participating Area will take into the Unit that well which indicates production from this southwestward extension of favorable reef development.

Conclusion

We recommend increasing the Participating Area of the Abo reservoir in the Chalk Bluff Draw Unit by 40 acres to include the lands in the vicinity of Abo Chalk Bluff Draw Unit No. 26, these lands having been proven productive of oil in paying quantities as defined by the Unit Agreement. The lands in the Participating Area, thus revised, should be described as follows:

Township 18 South, Range 27 East

Section 8: E/2 SE/4
Section 4: SE/4 SW/4
Section 9: SW/4, S/2 NW/4, NE/4 NW/4
Section 16: NW/4, N/2 SW/4, SE/4 SW/4
Section 17: S/2 NE/4, N/2 SE/4, NE/4 SW/4

It is further recommended that the effective date of the Tenth Expansion of Participating Area be September 1, 1961, the first of the month in which Unit well No. 26 was completed. Future expansions will be submitted monthly as additional wells are completed.

HUMBLE OIL & REFINING COMPANY



C. V. Roberts
Area Geologist

RLB:sw

Attach: Isopach Map of Net Abo Pay