

EXHIBIT "B"
SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF ALL LANDS IN THE
HACKBERRY HILLS UNIT AREA, EDDY COUNTY, NEW MEXICO

Tract No.	Description of Land	Number of Acres	Serial No. & Date of Lease	Basic Royalty and Percentage	Lessee of Record	Overriding Royalty or Production Payment and Percentage	Working Interest and Percentage
FEDERAL LANDS							
T-21-S, R-25-E, NMPM							
1	Sec. 25: SE/4 & E/2 SW/4	240.00	LC-068793-A 4-1-49	U. S. A. - 12-1/2%	Gulf Oil Corporation	3% Mary D. Middleton	Gulf - 100%
2	Sec. 25: W/2 SW/4	80.00	LC-068865 11-1-49	U. S. A. - 12-1/2%	The Superior Oil Company	1 1/4% David B. Miller 1/2 of 1% Ralph E. Smith	Superior - 100%
2-A	Sec. 26: NE/4 SE/4	40.00	LC 068865-A 11-1-49	U. S. A. - 12-1/2%	Carper Drilling Company, Inc.	1/2 of 1% Ralph E. Smith 4 1/2% Superior Oil Co. 1/2 of 1% Tracy Clark 1/2 of 1% Robert E. Boling	Carper - 100%
3	Sec. 26: W/2 SW/4 Sec. 27: SE/4 Sec. 35: All	880.00	NM-029128 6-1-57	U. S. A. - 12-1/2%	Union Oil Company of California	1/4 of 1% George Turner \$500.00 P/A out of 3% to Ethel A. Harris	Union - 100%
4	Sec. 34: NE/4	160.00	LC-067593 4-1-51	U. S. A. - 12-1/2%	Gulf Oil Corporation	\$750.00 P/A out of 3% to Mabel E. Todhunter	Gulf - 100%
5	Sec. 34: SE/4	160.00	NM-0112134 9-1-60	U. S. A. - 12-1/2%	Gulf Oil Corporation	5% Pete Ortega	Gulf - 100%
T-21S, R-26-E, NMPM							
6	Sec. 32: SW/4 NW/4, NW/4 SW/4	80.00	NM-025188 9-1-56	U. S. A. - 12-1/2%	George E. Conley	None	George E. Conley - 100%
T-22-S, R-26-E, NMPM							
7	Sec. 5: Lots 1, 2, 4, S/2 NE/4, SW/4 NW/4, SE/4 SE/4 Sec. 8: E/2 NE/4 Sec. 9: SW/4 NW/4, N/2 SE/4 Sec. 17: E/2	801.01	LC-067965 4-1-52	U. S. A. - 12-1/2%	Gulf Oil Corporation	\$500.00 P/A out of 3% to Mary Didlake	Gulf - 100%
8	Sec. 6: Lots 1, 2, S/2 NE/4	160.57	NM-077442 6-1-60	U. S. A. - 12-1/2%	Gulf Oil Corporation	4% Anna Z. Baetz	Gulf - 100%
9	Sec. 6: Lots 3, 4, 5, 6, 7, SE/4 NW/4, E/2 SW/4, N/2 SE/4	397.91	NM-0870-C 11-1-51	U. S. A. - 12-1/2%	Gulf Oil Corporation	3% John D. Meredith	Gulf - 100%

Tract No.	Description of Land	Number of Acres	Serial No. & Date of Lease	Basic Royalty and Percentage	Lessee of Record	Overriding Royalty or Production Payment and Percentage	Working Interest and Percentage
<u>FEDERAL LANDS (Continued)</u>							
<u>T-22-S, R-25-E, NMPM</u>							
10	Sec. 1: Lots 1,2,3,4, S/2 N/2, N/2 S/2	481.60	NM-047423 11-1-59	U.S.A. - 12-1/2%	Honolulu Oil Corporation	None	Honolulu - 100%
11	Sec. 1: SW/4 SE/4, SW/4 SW/4 Sec.12: SE/4 NW/4	239.33	NM-02500 10-1-50	U.S.A. - 12-1/2%	The Superior Oil Company	1 1/4% David B. Miller 1/2 of 1% Ralph E. Smith	Superior - 100%
<u>T-22-S, R-26-E, NMPM</u>							
Sec. 7: NW/4 NW/4, SE/4 NW/4, NE/4 SW/4							
<u>T-22-S, R-25-E, NMPM</u>							
11-A	Sec. 1: SE/4 SE/4	40.00	NM-02500-A 10-1-50	U.S.A. - 12-1/2%	W. G. Ross	1 1/4% David B. Miller 1/2 of 1% Ralph E. Smith 1 1/4% Superior Oil Co.	W. G. Ross - 100%
12	Sec. 3: Lots 1,2, S/2 NE/4, N/2 SE/4, SW/4 SE/4	281.08	LC-064548-A 2-1-51	U.S.A. - 12-1/2%	Northern Natural Gas Prod. Co.	3% Grady Southworth	Northern Natural - 100%
12-A	Sec. 3: SE/4 SE/4	40.00	LC-064548-B 2-1-51	U.S.A. - 12-1/2%	Gulf Oil Corporation	3% Grady Southworth	Gulf - 100%
13	Sec.11: W/2 NE/4	80.00	LC-064528-B 2-1-51	U.S.A. - 12-1/2%	Northern Natural Gas Prod. Co.	3% Roy L. Flood	Northern Natural - 100%
14	Sec.11: SE/4 NE/4	40.00	NM-077460 6-1-60	U.S.A. - 12-1/2%	Pure Oil Company	None	Pure - 100%
15	Sec.12: N/2 NE/4, S/2 SE/4, NE/4 SE/4	520.00	LC-064528-A 2-1-51	U.S.A. - 12-1/2%	Pure Oil Company	None	Pure - 100%
<u>T-22-S, R-26-E, NMPM</u>							
Sec. 7: S/2 NE/4, N/2 SE/4							
Sec.18: NE/4							
<u>T-22-S, R-25-E, NMPM</u>							
15-A	Sec.12: SW/4 NW/4	40.00	LC-064528-G 2-1-51	U.S.A. - 12-1/2%	Tennessee Gas & Oil Company	None	Tennessee - 100%

Tract No.	Description of Land	Number of Acres	Serial No. & Date of Lease	Basic Royalty and Percentage	Lessee of Record	Overriding Royalty or Production Payment and Percentage	Working Interest and Percentage
<u>FEDERAL LANDS (Continued)</u>							
<u>T-22-S, R-25-E, NMPM</u>							
16	Sec.12: SW/4 NE/4	40.00	LC-065532 5-1-51	U.S.A. - 12-1/2%	Gulf Oil Corporation	3% Josephine Rodke	Gulf - 100%
<u>T-22-S, R-26-E, NMPM</u>							
17	Sec. 8: SW/4 NW/4, NW/4 SW/4	360.00	LC-064492 2-1-51	U.S.A. - 12-1/2%	Gulf Oil Corporation	\$500.00 P/A out of 3% Emma T. Russell	Gulf - 100%
17-A	Sec.17: SW/4 SW/4	40.00	LC-064492-A 2-1-51	U.S.A. - 12-1/2%	Northern Natural Gas Prod. Co.	\$500.00 P/A out of 3% Emma T. Russell	Northern Natural - 100%
18	Sec. 9: SE/4 NW/4, E/2 SW/4	120.00	LC-067596 3-1-51	U.S.A. - 12-1/2%	Tennessee Gas & Oil Company	None	Tennessee - 100%
18-A	Sec. 9: SW/4 SW/4	40.00	LC-067596-A 3-1-51	U.S.A. - 12-1/2%	Pure Oil Company	None	Pure - 100%
19	Sec. 9: S/2 SE/4	1,800.00	LC-064490 5-1-52	U.S.A. - 12-1/2%	Gulf Oil Corporation	\$500.00 P/A out of 3% Buck Russell	Gulf - 100%
	Sec.10: SW/4						
	Sec.15: N/2, N/2 SE/4, NE/4 SW/4						
	Sec.21: S/2 N/2, NE/4 NW/4, NW/4 NE/4, SE/4						
	Sec.22: All						
	Sec.23: N/2 NW/4						
20	Sec.23: S/2 NW/4, NW/4 SE/4, SW/4	360.00	LC-064489-A 3-1-52	U.S.A. - 12-1/2%	Tidewater Oil Co. Texaco Seaboard Inc.	3% Dan Ella Miller	Tidewater - 50% Texaco-Seaboard - 50%
21	Sec.27: N/2 NW/4	80.00	LC-068329-A 5-1-52	U.S.A. - 12-1/2%	E. A. Hanson	None	E.A.Hanson - 100%
22	Sec.27: S/2 NW/4	80.00	NM-034358 11-1-58	U.S.A. - 12-1/2%	Gulf Oil Corporation	3% Sam Glasser	Gulf - 100%
23	Sec.26: S/2 S/2	160.00	LC-069954 6-1-51	U.S.A. - 12-1/2%	Gulf Oil Corporation	5% H. C. Roberts	Gulf - 100%
FEDERAL LAND TOTAL		7,841.50	(56.33%)				

Tract No.	Description of Land	Number of Acres	Serial No. & Date of Lease	Basic Royalty and Percentage	Lessee of Record	Overriding Royalty or Production Payment and Percentage	Working Interest and Percentage
<u>STATE LANDS</u>							
<u>T-21-S, R-25-E, NMPM</u>							
24	Sec. 26: NW/4 SE/4, NE/4 SW/4	80.00	E-8998 3-10-53	State - 12-1/2%	Shell Oil Company	None	Shell - 100%
25	Sec. 26: SE/4 SE/4	40.00	E-8778 1-18-55	State - 12-1/2%	Humble Oil & Refining Company	None	Humble - 100%
26	Sec. 26: SW/4 SE/4	121.34	OG-4911 12-16-58	State - 12-1/2%	Carper Drilling Company, Inc.	$\frac{1}{2}$ of 1% Tracy Clark $\frac{1}{2}$ of 1% Robert E. Boling	Carper - 100%
<u>T-22-S, R-25-E, NMPM</u>							
Sec. 2: Lots 1, 4							
<u>T-21-S, R-25-E, NMPM</u>							
27	Sec. 26: SE/4 SW/4 Sec. 36: NE/4 NW/4, SE/4 NE/4, NE/4 SW/4, SW/4 SE/4	958.80	E-5679 10-10-51	State - 12-1/2%	Gulf Oil Corporation	None	Gulf - 100%
<u>T-22-S, R-25-E, NMPM</u>							
Sec. 12: SE/4 NE/4							
<u>T-22-S, R-26-E, NMPM</u>							
Sec. 5: Lot 3, NW/4 SE/4							
Sec. 6: SW/4 SE/4							
Sec. 7: Lots 2, 4, NW/4 NE/4, NE/4 NW/4, SE/4 SE/4							
Sec. 8: S/2 SE/4, SW/4 SW/4							
Sec. 9: NE/4 NW/4							
Sec. 16: SE/4 NE/4, SE/4 NW/4, N/2 SW/4							
Sec. 21: NE/4 NE/4, NW/4 NW/4							
<u>T-21-S, R-25-E, NMPM</u>							
28	Sec. 36: NW/4 NW/4, NW/4 NE/4, SW/4 SW/4, SE/4 SE/4	440.00	OG-2020 2-18-58	State - 12-1/2%	Phillips Petroleum Company	None	Phillips - 100%
<u>T-22-S, R-26-E, NMPM</u>							
Sec. 9: NW/4 NW/4, NW/4 SW/4							
Sec. 14: W/2 SW/4							
Sec. 15: NW/4 SW/4, S/2 SW/4							

Tract No.	Description of Land	Number of Acres	Serial No. & Date of Lease	Basic Royalty and Percentage	Lessee of Record	Overriding Royalty or Production Payment and Percentage		Working Interest and Percentage
						or Production Payment and Percentage	and Percentage	
<u>STATE LANDS (Continued)</u>								
<u>T-21-S, R-25-E, NMPM</u>								
29	Sec. 36: NE/4 NE/4, SW/4 NE/4, SE/4 SW/4	160.00	E-10085 5-15-56	State - 12-1/2%	Phillips Petroleum Company	None	None	Phillips - 100%
<u>T-21-S, R-26-E, NMPM</u>								
Sec. 31: SE/4 NW/4								
<u>T-21-S, R-25-E, NMPM</u>								
30	Sec. 36: S/2 NW/4, NW/4 SW/4, N/2 SE/4	479.14	K-873 10-18-60	State - 12-1/2%	Gulf Oil Corporation	None	None	Gulf - 100%
<u>T-21-S, R-26-E, NMPM</u>								
Sec. 31: Lots 1, 2, NE/4 NW/4, N/2 NE/4, SE/4 NE/4, SE/4 SE/4								
31	Sec. 31: Lots 3, 4, E/2 SW/4, W/2 SE/4, SW/4 NE/4, NE/4 SE/4	319.04	E-7912 2-16-54	State - 12-1/2%	The Ohio Oil Company	None	None	Ohio - 100%
32	Sec. 32: N/2 NW/4, SE/4 NW/4, NE/4 SW/4, S/2 SW/4	240.00	E-7913 2-16-54	State - 12-1/2%	The Ohio Oil Company	None	None	Ohio - 100%
<u>T-22-S, R-26-E, NMPM</u>								
Sec. 5: NE/4 SE/4								
Sec. 8: W/2 NE/4, NE/4 SW/4								
Sec. 15: S/2 SE/4								
33	Sec. 5: NE/4 SE/4 Sec. 8: W/2 NE/4, NE/4 SW/4 Sec. 15: S/2 SE/4	240.00	E-6435 8-11-52	State - 12-1/2%	Sinclair Oil & Gas Company	None	None	Sinclair - 100%
<u>T-22-S, R-25-E, NMPM</u>								
34	Sec. 12: NW/4 SE/4	439.22	OG-1231 8-20-57	State - 12-1/2%	Skelly Oil Co.	None	None	Skelly - 100%
<u>T-22-S, R-26-E, NMPM</u>								
Sec. 5: SW/4 SE/4, SE/4 SW/4								
Sec. 6: SE/4 SE/4								
Sec. 7: Lot 3, SE/4 SW/4, SW/4 SE/4								
Sec. 8: SE/4 NW/4, SE/4 SW/4, N/2 SE/4								

Tract No.	Description of Land	Number of Acres	Serial No. & Date of Lease	Basic Royalty and Percentage	Lessee of Record	Overriding Royalty or Production Payment and Percentage	Working Interest and Percentage
<u>STATE LANDS (Continued)</u>							
<u>T-22-S, R-25-E, NMPM</u>							
35	Sec. 2: Lots 2,3, S/2 N/2, S/2	681.34	E-10088 5-15-56	State - 12-1/2%	Sunray Mid-Continent Oil Co.	None	Sunray Mid-Continent - 100%
<u>T-22-S, R-26-E, NMPM</u>							
	Sec. 5: SE/4 NW/4, N/2 SW/4						
36	Sec.16: N/2 N/2, SW/4 NW/4 SW/4 NE/4, N/2 SE/4, S/2 S/2	480.00	OG-1526 11-19-57	State - 12-1/2%	Sun Oil Company	None	Sun - 100%
37	Sec.26: N/2 SW/4 Sec.27: N/2 SE/4	160.00	K-675 8-16-60	State - 12-1/2%	Gulf Oil Corporation	None	Gulf - 100%
	STATE LAND TOTAL	4,838.88	(34.76%)				
<u>FEE LANDS</u>							
<u>T-22-S, R-25-E, NMPM</u>							
38	Sec. 1: SE/4 SW/4 Sec.12: N/2 NW/4	120.00	6-12-57	F. H. Jones et ux - 12-1/2%	Skelly Oil Co.	None	Skelly - 100%
39	Sec.11: NE/4 NE/4	40.00	12-27-52	F. H. Jones et ux - 12-1/2%	Northern Natural Gas Prod. Co.	None	Northern Natural - 100%
<u>T-22-S, R-26-E, NMPM</u>							
40	Sec. 5: SW/4 SW/4 Sec. 7: NE/4 NE/4 Sec. 8: N/2 NW/4	160.00	7-28-52	Bertha S. Leck Executrix -12-1/2%	Gulf Oil Corporation	None	Gulf - 100%
41	Sec.14: NE/4 SW/4	40.00	7-14-60	E. P. Klein et ux - 12-1/2%	Gulf Oil Corporation	None	Gulf - 100%
42	Sec.14: SE/4 SW/4	40.00	10-4-60	Virginia Murdock - 12-1/2%	Gulf Oil Corporation	None	Gulf - 100%
43	Sec.23: N/2 NE/4, SW/4 NE/4	120.00	1- -61	The A.T. & S.F.Ry. Co. - 25%	Texaco Inc.	None	Texaco - 100%

Tract No.	Description of Land	Number of Acres	Serial No. & Date of Lease	Basic Royalty and Percentage	Lessee of Record	Overriding Royalty or Production Payment and Percentage	Working Interest and Percentage
<u>FEE LANDS (Continued)</u>							
<u>T-22-S, R-26-E, NMPM</u>							
44	Sec.23: SE/4 NE/4, NE/4 SE/4	80.00	11-11-60	John W. Moore et ux - 12-1/2%	Gulf Oil Corporation	None	Gulf - 100%
45	Sec.23: SE/4 SE/4	40.00	10-28-60	H. W. Benischek - 12-1/2%	Gulf Oil Corporation	None	Gulf - 100%
46	Sec.26: E/2 NE/4, NE/4 SE/4	120.00	8-4-60	G. R. Spencer et ux - 12-1/2%	Gulf Oil Corporation	None	Gulf - 100%
47	Sec.23: SW/4 SE/4 Sec.26: W/2 NE/4, NW/4 SE/4	160.00	7-8-60	W. R. Echols - 6½% J. S. Gibson - 6½%	Gulf Oil Corporation	None	Gulf - 100%
48	Sec.26: NW/4 Sec.27: NE/4	320.00	7-14-60	Louis Adams - 3-1/8% Mildred Thorp - 3-1/8% T.A.Allen - 1-9/16% Grace C.Landes - 3-1/8% Zelwyn Graham - 1-9/16%	Gulf Oil Corporation	None	Gulf - 100%
FEE LAND TOTAL		1,240.00	(8.91%)				
ALL LANDS TOTAL		13,920.38					



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

December 15, 1967

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico 88201

Attention: Mr. M. I. Taylor

Gentlemen:

Your plan of development dated December 5, 1967, for the Hackberry Hills unit area, Eddy County, New Mexico, proposes no further drilling operations since the unit area is fully developed as to the Pennsylvanian. All lands not within the 640 acre Pennsylvanian participating area were eliminated from the unit area effective March 2, 1967. Such plan will remain in effect until such time as changes necessitate approval of a revised plan.

The plan of development has been approved on this date and one approved copy is attached.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

JOHN A. ANDERSON MAIN OFFICE OF
Regional Oil & Gas Supervisor

'67 DEC 18 AM 9 57

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WASHINGTON 25, D. C.

2181

MAY 2 - 1967

Sinclair Oil and Gas Company
P. O. Box 1470
Midland, Texas 79701

Attention: Mr. J. W. Hodges

Gentlemen:

Your application of February 24, accompanied by revised Exhibits "A" and "B" describes the automatic elimination of certain lands pursuant to Section 2(e) of the Hackberry Hills unit agreement, as amended.

The Hackberry Hills unit agreement covering 13,920 acres was approved and effective on February 27, 1961. The 640-acre initial Pennsylvanian participating area became effective August 15, 1961. Pursuant to the amended Section 2(e) of the unit agreement, automatic elimination became effective as of March 2, 1967, which is 5½ years after the first day of the month after the effective date of the initial participating area. The Commissioner of Public Lands of the State of New Mexico approved the automatic elimination on March 2, 1967.

Your application correctly describes the 13,280 acres of land automatically eliminated from the Hackberry Hills unit agreement effective March 2, 1967. You should notify all parties in interest as to the lands eliminated.

Sincerely yours,

John A. Baker

Acting Director

cc: NMOCC Santa Fe (1tr only)

ILLEGIBLE

LEASES AFFECTED BY AUTOMATIC ELIMINATION,
HACKBERRY HILLS UNIT

Entirely Eliminated

LC 064489-A -
064490 -
064492
064492-A
064528-B
064548-A
064548-B
067593-B
067596-A -
067596-B
068329-A
068793-A -
068865 -
069954

NH 0870-C -
025158 -
025188-A
029128 -
034358 -
077442 -
077460 -
0112134-A
0161470
0224977

Partially Eliminated

LC 064528-A
NH 02500
NH 047423

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

2151

April 11, 1967

C

Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas 79701

O

Attention: Mr. J. W. Hodges

Re: Application for Contraction
Hackberry Hills Unit, Eddy
County, New Mexico

P

Gentlemen:

Y

This is to advise that the New Mexico Oil Conservation Commission has this date approved the request to contract the Unit Area to the area of the participation area of the Pennsylvanian Formation as shown on Exhibit A of the subject application dated February 24, 1967, Hackberry Hills 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. The effective date of this contraction is March 1, 1967.

One approved copy of the application is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe
United States Geological Survey - Roswell

State of New Mexico



Commissioner of Public Lands



March 1, 1967

P. O. BOX 1148
SANTA FE, NEW MEXICO

GUYTON B. HAYS
COMMISSIONER

Sinclair Oil and Gas Company
P. O. Box 1470
Midland, Texas 79701

Re: Hackberry Hills Unit
Eddy County, New Mexico
Automatic Elimination

Attention: Mr. C. R. McClain

Gentlemen:

The Commissioner of Public Lands has approved your application for the contraction of the Hackberry Hills Unit Area, Eddy County, New Mexico.

This contraction is in accordance with the automatic elimination provisions of Section 2 (e) of the Unit Agreement as amended.

The effective date of this contraction is March 1, 1967 and the Unit area remaining is the S/2 of Sec. 1 and the N/2 of Section 12, Township 22 South, Range 25 East, which is the approved participating area of the Pennsylvanian Formation.

We are returning one approved copy of this application.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Director
Oil & Gas Department

GBY/MMR/v
encl. 1

cc. United States Geological Survey
Roswell, New Mexico

Oil Conservation Commission
Santa Fe, New Mexico



SINCLAIR OIL & GAS COMPANY

P. O. BOX 1470

MIDLAND, TEXAS

February 24, 1967

MIDLAND DIVISION

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

Attention Mrs. Marian M. Rhea
Unit Supervisor

U. S. Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

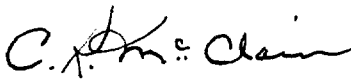
New Mexico Oil Conservation Commission
P. O. Box 871
Santa Fe, New Mexico

Reference: Hackberry Hills Unit Area
Eddy County, New Mexico

We enclose Application for Contraction of Hackberry Hills Unit Area, submitted in accordance with automatic elimination provisions of Section 2 (e) of the Unit Agreement dated January 26, 1961.

If the enclosed meets with your approval, we kindly ask that one signed copy be returned to this office.

J. W. Hodges

By 
C. R. McClain

CRMcC/oc
Enclosure

14-08-0001-7348

Application for Approval of Contraction of Hackberry Hills Unit Area (No. 14-08-0001-7348)

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

Director
United States Geological Survey
Washington, D. C.

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

The Hackberry Hills Unit Agreement entered into as of the 26th day of January, 1961, by and between the parties subscribing, ratifying or consenting thereto,

WITNESSETH:

Whereas, the Hackberry Hills Unit Agreement was approved by the Acting Director, United States Geological Survey and by the Commissioner of Public Lands, State of New Mexico effective February 27, 1961; and,

Whereas, the Hackberry Hills Unit Well No. 1 was drilled at a location 880 feet from the south line and 2130 feet from the east line of Section 1, Township 22 South, Range 25 East, Eddy County, New Mexico, and was completed as a well capable of producing unitized substances in paying quantities; and,

Whereas, a participating area was approved by the Commissioner of Public Lands on November 13, 1961, and by the Acting Director, United States Geological Survey on January 4, 1962, effective August 15, 1961, designating the S/2 of Section 1 and the N/2 of Section 12, Township 22 South, Range 25 East, as being lands reasonably proved to be productive of unitized substances in paying quantities from the Pennsylvanian Formation; and

Whereas, three additional wells have been drilled within the boundaries of the unit area without establishing production of unitized substances in quantities sufficient to establish additional participating areas or to revise the initial participating area; and

Whereas, Section 2(e) of the Hackberry Hills Unit Agreement provides that all legal subdivisions of unitized lands, no parts of which are entitled to be in a participating area within 5 years after the first day of the month following the effective date of the first initial participating area established under this unit agreement, shall be eliminated automatically from this agreement, effective as of the first day thereafter, and such lands shall no longer be a part of the unit area and shall no longer be subject to this agreement, unless at the expiration of said 5 year period diligent drilling operations are in progress on unitized lands not entitled to participation, in which event all such lands shall remain subject to the unit agreement for so long as such drilling operations are continued diligently; and

Whereas, said Section 2(e) of the Unit Agreement was amended to provide aforementioned 5 year period be changed to a 5 year 6 month period, said amendment being approved by the Commissioner of Public Lands effective August 22, 1966, and by the Acting Director, United States Geological Survey effective August 30, 1966; and,

Whereas, a poll has been taken of all working interest owners and no additional drilling to to be commenced prior to the expiration of the 5 year 6 month period;

Now, therefore, Sinclair Oil & Gas Company, as Operator of the Hackberry Hills Unit, and pursuant to Section 2(e) of the Unit Agreement, respectfully requests your approval to contract the Unit Area to the outline of the present participating area as shown on the Revised Exhibit "A" to the Unit Agreement. Also attached to this application is a Revised Exhibit "B" to the Unit Agreement.

The effective date of the contraction will be the first day after the expiration of the 5 year 6 month period beginning August 15, 1961.

Dated this 24th day of February, 1967.

SINCLAIR OIL & GAS COMPANY
Unit Operator

By 
J. W. Hodges
Area Supervisor

APPROVED:

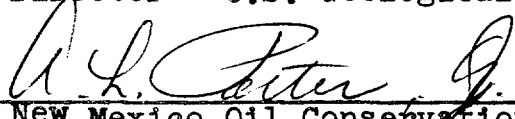
Date

Commissioner of Public Lands
State of New Mexico

Date

Director - U.S. Geological Survey

April 11, 1967
Date


New Mexico Oil Conservation
Commission

R 25 E

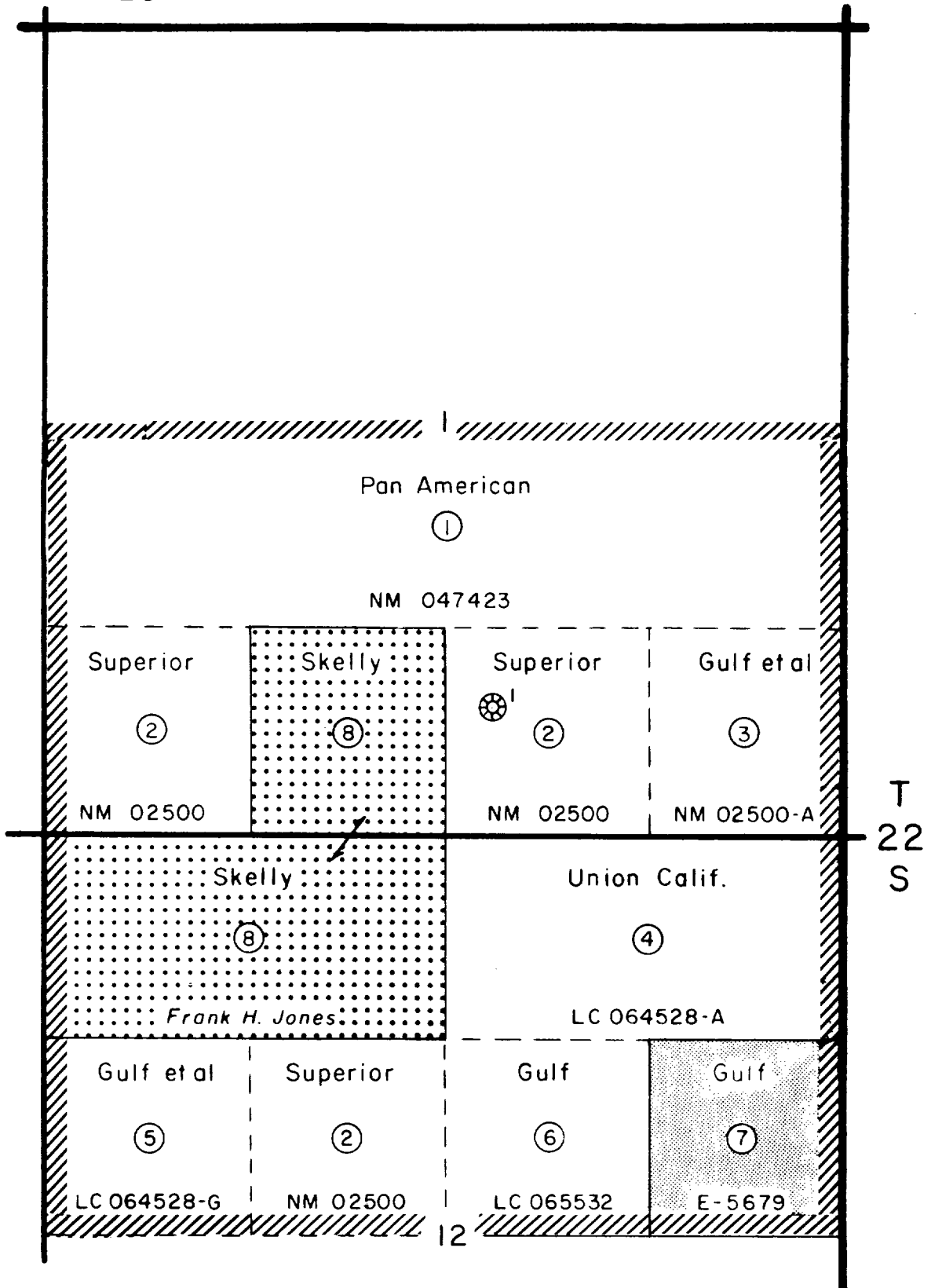




EXHIBIT "A"

HACKBERRY HILLS UNIT AREA

EDDY COUNTY, NEW MEXICO

	Unit Area	640 Acres
	Federal Land	480 Acres
	State of New Mexico Land	40 Acres
	Fee Land	120 Acres

Tract & Lease Numbers included in Unit Area	
①	NM - 047423
②	NM - 02500
③	NM - 02500-A
④	LC - 064528-A
⑤	LC - 064528-G
⑥	LC - 065532
⑦	E - 5679
⑧	Frank H. Jones

SCHEDULE SHOWING THE PERCENTAGE AND KIND OF OWNERSHIP OF ALL LANDS IN THE
HACKBERRY HILLS UNIT AREA, EDDY COUNTY, NEW MEXICO

Tr. #	Description of Land	Number of Acres	Serial No. & Date of Use	Basic Royalty & Percentage	Lessee of Record	Overriding Royalty or Production Payment & Percentage	Working Interest & Percentage
<u>FEDERAL LANDS</u>							
<u>T-22S, R-25E, NMPM</u>							
1	Sec. 1: N/2 S/2	160.00	NM-047423 11-1-59	USA-12 $\frac{1}{2}$ %	Pan American Petr. Corp.	None	Pan American Petr. Corp. 100.000000
2	Sec. 1: SW/4 SE/4; SW/4 SW/4 Sec. 12: SE/4 NW/4	120.00	NM-02500 10-1-50	USA-12 $\frac{1}{2}$ %	The Superior Oil Co.	1 $\frac{1}{4}$ % David B. Miller $\frac{1}{2}$ of 1% Ralph E. Smith	The Superior Oil Co. 100.000000
3	Sec. 1: SE/4 SE/4	40.00	NM-02500-A 10-1-50	USA-12 $\frac{1}{2}$ %	Gulf Oil Corp. Union Oil Co. of Calif. Marathon Oil Company Pan American Petr. Corp. The Superior Oil Co. Sinclair Oil & Gas Co. Texaco Inc. Tidewater Oil Co. Ernest A. Hanson	1 $\frac{1}{4}$ % David B. Miller $\frac{1}{2}$ of 1% Ralph E. Smith 1 $\frac{1}{4}$ % Superior Oil Co.	Gulf Oil Corp. 85.798000 Union Oil Co. of Calif. 3.087250 Marathon Oil Co. 2.876500 Pan American Petr. Corp. 2.478050 The Superior Oil Co. 1.643100 Sinclair Oil & Gas Co. 1.234900 Texaco Inc. 1.543600 Tidewater Oil Co. .926150 Ernest A. Hanson .411650
4	Sec. 12: N/2 NE/4	80.00	LC-064528-A 2-1-51	USA-12 $\frac{1}{2}$ %	Union Oil Co. of Calif.	None	Union Oil Co. of Calif. 100.000000
5	Sec. 12: SW/4 NW/4	40.00	LC-064528-G 2-1-51	USA-12 $\frac{1}{2}$ %	Gulf Oil Corp. Marathon Oil Co. Pan American Petr. Co. The Superior Oil Co. Texaco Inc. Sinclair Oil & Gas Co. Ernest A. Hanson	None	Gulf Oil Corp. 77.846200 Marathon Oil Co. 6.255100 Pan American Petr. Co. 5.388600 The Superior Oil Co. 3.573000 Texaco Inc. 3.356700 Sinclair Oil & Gas Co. 2.685300 Ernest A. Hanson .895100

Tr. #	Description of Land	Number of Acres	Serial No. & Date of Use.	Basis Royalty & Percentage	Lessee of Record	Overriding Royalty or Production Payment & Percentage	Working Interest & Percentage	
<u>FEDERAL LANDS, (Continued)</u>								
<u>T-22S, R-25E, NMPM</u>								
6	Sec. 12: SW/4 NE/4	40.00	IC-065532 5-1-51	USA-12 $\frac{1}{2}$ %	Gulf Oil Corp.	3% Josephine Rodke	Gulf Oil Corp.	100.000000
<u>STATE LANDS</u>								
7	Sec. 12: SE/4 NE/4	40.00	E-5679 10-10-51	State-12 $\frac{1}{2}$ %	Gulf Oil Corp.	None	Gulf Oil Corp.	100.000000
<u>FEE LANDS</u>								
8	Sec. 1: SE/4 SW/4 Sec. 12: N/2 NW/4	120.00	6-12-57	F. H. Jones, et ux-12 $\frac{1}{2}$ %	Skelly Oil Co.	None	Skelly Oil Co.	100.000000
FEDERAL LAND TOTAL		480.00	75.00%					
STATE LAND TOTAL		40.00	6.25%					
FEE LAND TOTAL		120.00	18.75%					
ALL LANDS TOTAL		<u>640.00</u>						

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

2181

January 6, 1967

C
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P
Y

Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas 79701

Attention: Mr. J. W. Hodges

Re: Plan of Development and
Operation (12-1-66 to 3-1-67)
Hackberry Hills Unit, Eddy
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development and Operation dated November 28, 1966, and covering the period from December 1, 1966, to March 1, 1967, for the Hackberry Hills 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.

One approved copy of the plan is returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe
United States Geological Survey - Roswell

1966 DEC 16 10 40 AM

December 16, 1966

Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas, 79701

Re: Hackberry Hills Unit
Eddy County, New Mexico
Plan of Development

ATTENTION: Mr. J. W. Hodges

Gentlemen:

The Commissioner of Public Lands approves the Plan of Development for the Hackberry Hills Unit, Eddy County, New Mexico, from December 1, 1966 to March 1, 1967, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

We are retaining two copies for our files and returning one copy surplus to our need.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Director
Oil and Gas Department

GBH/MMR/s

encl. 1.

cc: USGS

Roswell, New Mexico

OCC

Santa Fe, New Mexico



SINCLAIR OIL & GAS COMPANY

P. O. BOX 1470

MIDLAND, TEXAS

November 28, 1966

MIDLAND DIVISION

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

Attention Mrs. Marian M. Rhea
Unit Supervisor

Oil and Gas Supervisor
United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

New Mexico Oil Conservation Commission ✓
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico

Reference: Plan of Development and
Operation - Hackberry Hills
Unit Area, Eddy County,
New Mexico

Pursuant to the Plan of Development and Operation for captioned unit for the period June 1, 1966 to December 1, 1966, Sinclair Oil & Gas Company, as Unit Operator, completed the Hackberry Hills Unit Well No. 4. The well was completed July 19, 1966 as a discovery well capable of producing unitized substances from the Pennsylvanian Formation through perforations in the interval between 10,061 feet and 10,091 feet. A line has been laid from the well to the pipeline connection at the Unit Well No. 1 and the well is currently being tested on the pipeline.

Subsequent to completion of aforementioned well, Subsection 2 (e) of the Unit Agreement for the Development and Operation of the Hackberry Hills Unit Area was amended to provide a six months extension of said Subsection. This amendment extended the automatic elimination date of the Unit Agreement to March 1, 1967.

As the automatic elimination provision of the Unit Agreement will become effective March 1, this Plan of Development is submitted to cover the period December 1, 1966 to March 1, 1967. During this period we plan to continue flowing the well on the pipeline for 30 to 60 days to test its production capabilities. Actual production on the pipeline, and evaluation


of information thus obtained, will materially assist us in formulating plans for further unit development.

Inasmuch as Subsection 2 (e) of the Unit Agreement will become effective March 1, 1967, any future Plan of Development would not cover a particular period of time, but would provide for the drilling of a specific well or wells. The continued testing as proposed in this Plan will determine whether another well is commenced prior to March 1. Another Plan of Development will be submitted before such date specifying the location of any well to be drilled, or we will advise you it is our intention to allow the unit to become subject to the automatic elimination provision of the Unit Agreement.

We respectfully request your approval of this Plan of Development for the period December 1, 1966, to March 1, 1967, with the return of one signed copy to this office.

SINCLAIR OIL & GAS COMPANY
UNIT OPERATOR

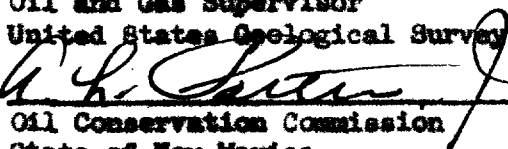
CRMcC/oc

By 
J. W. Hodges

APPROVED:

Commissioner of Public Lands
State of New Mexico

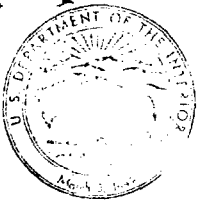
Date

Oil and Gas Supervisor
United States Geological Survey


Oil Conservation Commission
State of New Mexico

Date

January 6, 1967
Date



97 JAN 9
UNITED STATES
DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

December 22, 1966

Sinclair Oil and Gas Company
P. O. Box 1470
Midland, Texas 79701

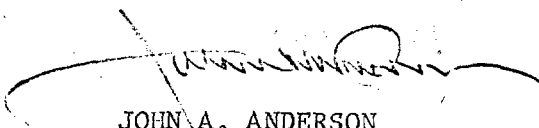
Attention: Mr. J. W. Hodges

Gentlemen:

Your plan of development covering the period from December 1, 1966, to March 1, 1967, for the Hackberry Hills unit area, Eddy County, New Mexico, has been approved on this date subject to like approval by the appropriate State officials.

Two approved copies of the plan are enclosed.

Sincerely yours,


JOHN A. ANDERSON
Regional Oil and Gas Supervisor

2181

August 5, 1966

1966 AUG 8 AM 7 44

COPY

Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas 79901

Re: Hackberry Hills Unit
Eddy County, New Mexico

ATTENTION: Mr. Jo R. Lodie

Gentlemen:

The Commissioner of Public Lands has approved as of this date your application for the Initial Participating Area for the Pennsylvanian "A" Formation, Hackberry Hills Unit Area, Eddy County, New Mexico, subject to like approval by the United States Geological Survey.

We are returning one approved copy of this Participating Area.

Very truly yours,
GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Director
Oil and Gas Department

GBH/MMR/s
cc: OCC (cy of ltr. only) ✓
USGS (cy of ltr. only)

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

2181

August 5, 1966

C
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Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas 79701

Attention: Mr. J. W. Hodges

Re: Seventh Plan of Development
and Operation, Hackberry Hills
Unit, Eddy County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Seventh Plan of Development and Operation covering the period June 1, 1966 to December 1, 1966 for the Hackberry Hills 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.

Two approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Roswell, New Mexico



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

June 14, 1966

Sinclair Oil and Gas Company
P. O. Box 1470
Midland, Texas 79701

Attention: Mr. J. W. Hodges

Gentlemen:

Your seventh plan of development and operation dated May 23, 1966, covering the period from June 1, 1966, to December 1, 1966, for the Hackberry Hills unit area, Eddy County, New Mexico, has been approved on this date subject to like approval by the appropriate State officials. The seventh plan proposes the continued drilling of unit well No. 4 in the SE 1/4 sec. 22, T. 22 S., R. 26 E., which was spudded on May 12, 1966.

One approved copy of the plan is enclosed.

Sincerely yours,

(ORIG. SCD.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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



SINCLAIR OIL & GAS COMPANY

P. O. Box 1470
MIDLAND, TEXAS 79701

May 23, 1966

MAIN OFFICE 000

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WEST TEXAS REGION

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Roswell, New Mexico

Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

New Mexico Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico

Re: Seventh Plan of Development and
Operation
Hackberry Hills Unit Area
Eddy County, New Mexico
No. 14-08-0001-7348

Gentlemen:

Sinclair Oil & Gas Company, as Unit Operator for the Hackberry Hills Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for the Development and Operation of the Hackberry Hills Unit Area, respectfully submits for the approval of the Commissioner of Public Lands, of the Regional Supervisor, United States Geological Survey, and of the New Mexico Oil Conservation Commission, this Plan of Development and Operation for the unitized land for the period June 1, 1966 to December 1, 1966.

Pursuant to the terms of the Sixth Plan of Development and Operation, as extended by the Commissioner of Public Lands on May 10, 1966, and by the United States Geological Survey on May 5, 1966, the Hackberry Hills Unit Well No. 4 was spudded May 12, 1966, at a location 2310 feet from the North Line and 1980 feet from the West Line of Section 22, T-22-S, R-26-E. The well is presently drilling below 1500 feet.

Sinclair Oil & Gas Company, as Unit Operator, plans to drill this well to a depth of approximately 10,500 feet to test the Strawn formation of Pennsylvanian Age. This test is being drilled with the knowledge that in accordance with the provisions of Section 2 (e) of the Unit Agreement dated January 26, 1961, all legal subdivisions of unitized lands no parts of which are entitled to be in a participating area as of September 1, 1966, shall be eliminated automatically from the Unit Agreement. For

Hackberry Hills Unit Area
Eddy County, New Mexico

this reason, no additional drilling, after completion of Unit Well No. 4, is proposed at this time for the period June 1, 1966 to December 1, 1966. However, should information gained from the drilling of Unit Well No. 4 show that additional drilling is warranted, we will submit an amended Plan and commence another well on or before September 1, 1966 on unitized lands not subject to participation, in which event all such lands shall remain subject to the Unit Agreement as provided in above referred to Section 2 (e).

It is therefore respectfully requested that the Plan of Development and Operation for the Hackberry Hills Unit Area, for the period June 1, 1966 through November 30, 1966, be and consist of continued drilling and completion of the Hackberry Hills Unit Well No. 4, with evaluation of information from this well to determine if another test will be commenced prior to the automatic elimination date of September 1, 1966.

Very truly yours,

Sinclair Oil & Gas Company

By: *J. W. Hodges*
J. W. Hodges

APPROVED: _____ DATE: _____

Commissioner of Public Lands
State of New Mexico

APPROVED: _____ DATE: _____

Regional Oil & Gas Supervisor
United States Geological Survey

APPROVED: *A. R. Carter* DATE: *Aug 5, 1966*

Oil Conservation Commission
State of New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

2181

July 19, 1966

Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas 79701

Attention: Mr. J. W. Hodges

Re: Amendment to Sixth Plan
of Development, Hackberry
Hills Unit, Eddy County,
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Amendment to Sixth Plan of Development and Operation for the Hackberry Hills 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.

Two approved copies of the Amendment are returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: Commission of Public Lands - Santa Fe
United States Geological Survey - Roswell

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State of New Mexico



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Commissioner of Public Lands

GUYTON B. HAYS
COMMISSIONER



P. O. BOX 1148
SANTA FE, NEW MEXICO

May 10, 1966

Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas 79701

Re: Hackberry Hills Unit
Eddy County, New Mexico

ATTENTION: Mr. J. W. Hodges

Gentlemen:

The Commissioner of Public Lands approves your Amendment to Sixth Plan of Development and Operation, Hackberry Hills Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey and the Oil Conservation Commission.

This amendment extends your Plan of Development from May 1, 1966, to June 1, 1966, and provides for Unit Well No. 4 to be commenced on or before June 1, 1966.

Operator should file another Plan of Development by June 1, 1966, if this well is commenced, otherwise we suggest immediate steps be taken to terminate the unit.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Director
Oil and Gas Department

GBH/MMR/s
cc: See attached page

**Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas**

**May 10, 1966
Page 2.**

**United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico 88201
Attention: Mr. John A. Anderson**

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



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico

MAIN OFFICE 0100

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IN REPLY REFER TO:

May 5, 1966

Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas 79701

Attention: Mr. J. W. Hodges

Gentlemen:

Your amendment dated April 26, 1966, to the sixth plan of development and operation, Hackberry Hills unit area, Eddy County, New Mexico, has been approved on this date subject to like approval by the appropriate officials of the State of New Mexico. The amendment extends the sixth plan of development and the time within which to commence unit well No. 4 to June 1, 1966.

One approved copy of the plan is enclosed.

Sincerely yours,

(GRIG. SGD.) BILLY J. SHOGER

BILLY J. SHOGER

Enclosure

cc:

Washington (w/cy of amendment)
Artesia (w/cy of amendment)
MDC - Santa Fe (ltr. only)
Com. of Public Lands - Santa Fe (ltr. only)



SINCLAIR OIL & GAS COMPANY

P. O. Box 1470
MIDLAND, TEXAS 79701

MAIN OFFICE 000

April 26, 1966

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WEST TEXAS REGION

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico
Attention: Mrs. Marian M. Rhea,
Unit Supervisor

Regional Oil and Gas Supervisor
United States Geological Survey
P.O. Drawer 1857
Roswell, New Mexico

New Mexico Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico

Re: Amendment to Sixth Plan of
Development and Operation,
Hackberry Hills Unit Area,
Eddy County, New Mexico
No. 14-08-0001-7348

Gentlemen:

The Plan of Development and Operation for the Hackberry Hills Unit Area for the period November 1, 1965 to May 1, 1966, was approved by the Commissioner of Public Lands on November 18, 1965, by the U. S. Geological Survey on November 10, 1965, and by the New Mexico Oil Conservation Commission on January 26, 1966.

Sinclair Oil & Gas Company, as Unit Operator, now wishes to amend said Plan to provide that the Hackberry Hills Unit Well No. 4 to be located 1980 feet from the north and west lines of Section 22, T-22-S, R-26-E, will be commenced on or before June 1, 1966. This extension is requested due to an unexpected delay in completing negotiations for the drilling of this well.

Your approval and return of one copy hereof is respectfully requested.

Sinclair Oil & Gas Company

By: *J. W. Hodges*
J. W. Hodges

JWH/ar

Approved: _____ Date _____
Commissioner of Public Lands, State of New Mexico

Approved: _____ Date _____
Regional Oil & Gas Supervisor
United States Geological Survey

Approved: *L. S. Peter* _____ Date *July 19, 1966*
Oil Conservation Commission, State of New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

2181

January 26, 1966

Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas 79701

Attention: Mr. J. W. Hodges

Re: Sixth Plan of Development
and Operation, Hackberry
Hills Unit, Eddy County,
New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Sixth Plan of Development and Operation for the period November 1, 1965 to May 1, 1966, for the Hackberry Hills 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.

One approved copy of the plan is returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe
United States Geological Survey - Roswell

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Drawer 1857
Roswell, New Mexico 88201

2181

November 10, 1965

Sinclair Oil and Gas Company
P. O. Box 1470
Midland, Texas 79701

Attention: Mr. C. K. McClain

Gentlemen:

Your sixth plan of development covering the period from November 1, 1965, to May 1, 1966, for the Hackberry Hills unit area, Eddy County, New Mexico, proposing the drilling of a Steam test well in the NW $\frac{1}{4}$ sec. 22, T. 22 S., R. 26 E., has been approved on this date subject to like approval by the appropriate State officials.

One approved copy of the plan is enclosed.

Sincerely yours,

(Original copy of plan is enclosed)

JOHN A. ANDERSON
Regional Oil & Gas Supervisor

cc:
Washington (w/cy of plan)
Hobbs (w/cy of plan)
N.M.O.C.C. - Santa Fe (ltr. only) ✓
Com. of Pub. Lands - Santa Fe (ltr. only)

ILLEGIBLE

MAIN OFFICE

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November 18, 1965

COPY

Sinclair Oil & Gas Company
Post Office Box 1470
Midland, Texas/79701

Att: J. W. Hodges

In RE: Sixth Plan of Development
Hackberry Hills Unit Area
Eddy County, New Mexico

Gentlemen:

Your sixth plan of development covering the period from November 1, 1965, to May 1, 1966, for the Hackberry Hills Unit, proposing the drilling of Unit Well No. #4 to be located in the NW $\frac{1}{4}$ of Section 22-T22S-R26E, has been approved by the Commissioner of Public Lands as of this date, subject to like approval by the United States Geological Survey, and the New Mexico Oil Conservation Commission.

This well is to be commenced prior to December 31, 1965.

We are returning one (1) approved copy of this plan.

Very truly yours,

GUYTON B. HAYS,
Commissioner of Public Lands

By:

TED BILBERRY, Director,
Oil and Gas Department

GBH/MMR/TB/1/Enclosure

w/cc to: Oil Conservation Commission
United States Geological Survey



SINCLAIR OIL & GAS COMPANY
P. O. Box 1470
MIDLAND, TEXAS 79701

MAIL ROOM

OCT 28 AM 8 1965

WEST TEXAS REGION

October 27, 1965

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico
Attention: Mrs. Marian M. Rhea,
Unit Supervisor

Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

New Mexico Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico

Re: Sixth Plan of Development
and Operation
Hackberry Hills Unit Area
Eddy County, New Mexico
No. 14-08-0001-7348

Sinclair Oil & Gas Company, as Unit Operator for the Hackberry Hills Unit Area, pursuant to Section 10 of the Unit Agreement for the Development and Operation of the Hackberry Hills Unit Area, respectfully submits for the approval of the Commissioner of Public Lands, State of New Mexico, of the Regional Supervisor, United States Geological Survey, and of the New Mexico Oil Conservation Commission, this Plan of Development and Operation for the period November 1, 1965 to May 1, 1966.

The initial test well provided for in Section 9 of the Unit Agreement, located 880 feet from the south line and 2130 feet from the east line of Section 1, T-22-S, R-25-E, was completed August 15, 1961, through perforations within the interval 9622-9654 feet after drilling to a total depth of 11,536 feet. The open flow potential was 6800 MCFGPD. Pursuant to Section 11 of the Unit Agreement an Initial Participating Area comprising the S/2 of Section 1 and the N/2 of Section 12,

October 27, 1965

Page -2-

T-22-S, R-25-E, was established for this well.

The Hackberry Hills Unit Well No. 2, located in the NW/4 of the NE/4 of Section 7, Township 22 South, Range 26 East, was plugged and abandoned as a dry hole on February 16, 1963, after drilling to a total depth of 10,050 feet with no indications of commercial production being encountered.

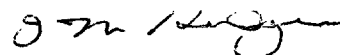
The Hackberry Hills Unit Well No. 3-B, located in the NW/4 of the SE/4 of Section 2, T-22-S, R-25-E, was drilled to a total depth of 11,145 feet and plugged and abandoned as a dry hole on September 14, 1964.

Within the period covered by this Plan, the Hackberry Hills Unit Well No. 4 will be drilled at a location 1980 feet from the north and west lines of Section 22, T-22-S, R-26-E. Present plans are to commence this well prior to December 31, 1965.

This Plan of Development and Operation shall constitute the further drilling and operating obligations for the period ending April 30, 1966.

Your approval and return of one copy hereof is respectfully requested.


SINCLAIR OIL & GAS COMPANY



By: J. W. Hodges

Approved: _____ Date _____
Commissioner of Public Lands
State of New Mexico

Approved: _____ Date _____
Regional Oil & Gas Supervisor
United States Geological Survey

Approved:  _____ Date 1/20/66
Oil Conservation Commission
State of New Mexico



SINCLAIR OIL & GAS COMPANY

P. O. Box 1470
MIDLAND, TEXAS 79701

MAIN OFFICE OCC

JAN 31 AM 8:02

WEST TEXAS REGION

October 27, 1965

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico
Attention: Mrs. Marian M. Rhea,
Unit Supervisor

Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

New Mexico Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico

Re: Sixth Plan of Development
and Operation
Hackberry Hills Unit Area
Eddy County, New Mexico
No. 14-08-0001-7348

Sinclair Oil & Gas Company, as Unit Operator for the Hackberry Hills Unit Area, pursuant to Section 10 of the Unit Agreement for the Development and Operation of the Hackberry Hills Unit Area, respectfully submits for the approval of the Commissioner of Public Lands, State of New Mexico, of the Regional Supervisor, United States Geological Survey, and of the New Mexico Oil Conservation Commission, this Plan of Development and Operation for the period November 1, 1965 to May 1, 1966.

The initial test well provided for in Section 9 of the Unit Agreement, located 880 feet from the south line and 2130 feet from the east line of Section 1, T-22-S, R-25-E, was completed August 15, 1961, through perforations within the interval 9622-9654 feet after drilling to a total depth of 11,536 feet. The open flow potential was 6800 MCFGPD. Pursuant to Section 11 of the Unit Agreement an Initial Participating Area comprising the S/2 of Section 1 and the N/2 of Section 12,

Oct 29 10 28 AM '65
STATE OF NEW MEXICO
SANTA FE, N.M.
REF.

October 27, 1965
Page -2-

T-22-S, R-25-E, was established for this well.

The Hackberry Hills Unit Well No. 2, located in the NW/4 of the NE/4 of Section 7, Township 22 South, Range 26 East, was plugged and abandoned as a dry hole on February 16, 1963, after drilling to a total depth of 10,050 feet with no indications of commercial production being encountered.

The Hackberry Hills Unit Well No. 3-B, located in the NW/4 of the SE/4 of Section 2, T-22-S, R-25-E, was drilled to a total depth of 11,145 feet and plugged and abandoned as a dry hole on September 14, 1964.

Within the period covered by this Plan, the Hackberry Hills Unit Well No. 4 will be drilled at a location 1980 feet from the north and west lines of Section 22, T-22-S, R-26-E. Present plans are to commence this well prior to December 31, 1965.

This Plan of Development and Operation shall constitute the further drilling and operating obligations for the period ending April 30, 1966.

Your approval and return of one copy hereof is respectfully requested.

SINCLAIR OIL & GAS COMPANY

By: J. W. Hodges

J. W. Hodges

REC
OCT 27 1965
STATE OF NEW MEXICO

Approved: *Dwight B. Sayp*
Commissioner of Public Lands
State of New Mexico

Date 11/18/65

Approved: _____
Regional Oil & Gas Supervisor
United States Geological Survey

Date _____

Approved: _____
Oil Conservation Commission
State of New Mexico

Date _____



SINCLAIR OIL & GAS COMPANY
P. O. Box 1470
MIDLAND, TEXAS 79701

RECEIVED

OCT 26 1965

U. S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

WEST TEXAS REGION

October 27, 1965

Commissioner of Public Lands
State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico
Attention: Mrs. Marian M. Rhea,
Unit Supervisor

Regional Oil and Gas Supervisor
United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico

New Mexico Oil Conservation Commission
State of New Mexico
P. O. Box 2088
Santa Fe, New Mexico

Re: Sixth Plan of Development
and Operation
Hackberry Hills Unit Area
Eddy County, New Mexico
No. 14-08-0001-7348

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The initial test well provided for in Section 9 of the Unit Agreement, located 880 feet from the south line and 2130 feet from the east line of Section 1, T-22-S, R-25-E, was completed August 15, 1961, through perforations within the interval 9622-9654 feet after drilling to a total depth of 11,536 feet. The open flow potential was 6800 MCFGPD. Pursuant to Section 11 of the Unit Agreement an Initial Participating Area comprising the S/2 of Section 1 and the N/2 of Section 12,

October 27, 1965
Page -2-

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The Hackberry Hills Unit Well No. 3-B, located in the NW/4 of the SE/4 of Section 2, T-22-S, R-25-E, was drilled to a total depth of 11,145 feet and plugged and abandoned as a dry hole on September 14, 1964.

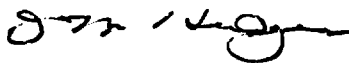
Within the period covered by this Plan, the Hackberry Hills Unit Well No. 4 will be drilled at a location 1980 feet from the north and west lines of Section 22, T-22-S, R-26-E. Present plans are to commence this well prior to December 31, 1965.

This Plan of Development and Operation shall constitute the further drilling and operating obligations for the period ending April 30, 1966.

Your approval and return of one copy hereof is respectfully requested.

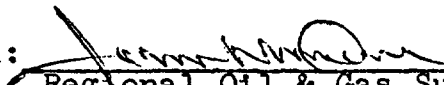
10,500' Stann Test

SINCLAIR OIL & GAS COMPANY



By: J. W. Hodges

Approved: _____ Date _____
Commissioner of Public Lands
State of New Mexico

Approved:  _____ Date NOV 10 1965
Regional Oil & Gas Supervisor
United States Geological Survey
Subject to like approval by the
appropriate State officials.

Approved: _____ Date _____
Oil Conservation Commission
State of New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

2181

September 7, 1965

Sinclair Oil & Gas Company
P. O. Box 1470
Midland, Texas 79701

Attention: Mr. J. W. Hodges

Re: Request for Extension to
File Plan of Development,
Hackberry Hills Unit, Eddy
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved your request for three months extension to November 1, 1965, for the Hackberry Hills 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.

One approved copy of the application is returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico 88201

Commissioner of Public Lands
Santa Fe, N. Mex.

C
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P
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MAILED
'65 AUG 13 PM 1 00

August 12, 1965

Sinclair Oil & Gas Company
Post Office Box 1470
Midland, Texas/79701

Att: Jo. R. Lodle

In RE: Hackberry Hills Unit
Area, Eddy County,
New Mexico

Gentlemen:

Your request for three months extension in which to file Sixth Plan of Development and Operation for the Hackberry Hills Unit Area has been approved as of August 10, 1965, by the Commissioner of Public Lands, subject to like approval by the United States Geological Survey.

This extension is from August 1, 1965 to November 1, 1965, and it is granted in order to enable Sinclair, as operator, to complete negotiations with a third party for the drilling of a unit well and if Sinclair is successful in these negotiations, they will file a Sixth Plan of Development on or before November 1, 1965 for a definite well obligation. Failing in the negotiations for another well, Sinclair will take immediate steps to terminate the Unit Agreement.

C
O
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Y

Sinclair Oil & Gas Company
Jo. R. Lodle
August 12, 1965
Page -2-

We are returning herewith a copy of the request for extension as approved by the Commissioner of Public Lands.

Very truly yours,

GUYTON B. HAYS,
Commissioner of Public Lands

By

TED BILBERRY, Director,
Oil and Gas Department

GBH/TB/MMR/kcl

Enclosures

w/cc to: United States Geological Survey
Post Office Box 1857
Roswell, New Mexico

New Mexico Oil Conservation Commission
Post Office Box 2088
Santa Fe, New Mexico

C
O
P
Y



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

MAIN OFFICE
'65 AUG 23 AM 7 5
IN REPLY REFER TO:
August 20, 1965

Sinclair Oil and Gas Company
P. O. Box 1470
Midland, Texas

Attention: Mr. J. W. Hodges

Gentlemen:

Your request of August 3 for an extension of time to November 1, 1965, within which to file the next plan of development for the Hackberry Hills unit area, Eddy County, New Mexico, is hereby approved subject to like approval by the appropriate State officials. You advise that the extension of time is required in order to complete negotiations for the drilling of the next exploratory well within the unit area.

A previous request for a six month extension to January 1, 1966, within which to file the next plan of development for the Hackberry Hills unit was approved by this office on July 20, 1965, subject to like approval by the appropriate State officials. However, such extension was not validated by approval of the appropriate State officials and did not become effective.

Sincerely yours,

(Orig.Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

cc:
Washington (w/cy Sinclair ltr. Aug. 3)
Artesia (w/cy Sinclair ltr. Aug. 3)
NMOCC, Santa Fe (ltr. only)
Com. of Pub. Lands, Santa Fe (ltr. only)



SINCLAIR OIL & GAS COMPANY

P. O. BOX 1470
MIDLAND, TEXAS

August 3, 1965

RECEIVED

7 65 AUG 6 PM 1 09

MIDLAND DIVISION

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

Regional Oil and Gas Supervisor
United States Geological Survey
P.O. Drawer 1857
Roswell, New Mexico

New Mexico Oil Conservation Commission
State of New Mexico
P.O. Box 2088
Santa Fe, New Mexico

Re: Request for Three Months Extension
to File Sixth Plan of Development
and Operation for Hackberry Hills
Unit Area, Eddy County, New Mexico
No. 14-08-0001-7348


Gentlemen:

Enclosed herewith is Sinclair Oil & Gas Company's request
for a three month extension to file Sixth Plan of Development and Operation
for Hackberry Hills Unit Area above captioned as follows:

Commissioner of Public Lands - 3 copies
United States Geological Survey - 3 copies
Oil Conservation Commission - 2 copies

If in order, please approve extension and return one approved
copy to this office.

Yours very truly,


Jo. R. Ledle

JRL/dev
Atch.



SINCLAIR OIL & GAS COMPANY

P. O. Box 1470
MIDLAND, TEXAS 79701

August 3, 1965

MAIL ROOM 000

'65 AUG 6 PH 1 04

WEST TEXAS REGION

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

Regional Oil and Gas Supervisor
United States Geological Survey
P.O. Drawer 1857
Roswell, New Mexico

New Mexico Oil Conservation Commission
State of New Mexico
P.O. Box 2088
Santa Fe, New Mexico

Re: Request for Three Months Extension
to File Sixth Plan of Development
and Operation for Hackberry Hills
Unit Area, Eddy County, New Mexico
No. 14-08-0001-7348

Gentlemen:

By our letter of June 30, 1965 we requested the United States Geological Survey, Commissioner of Public Lands and the Oil Conservation Commission to consider our request for a six month extension to file our sixth plan of development concerning the captioned unit, therein stating certain reasons we felt were to some extent extenuating.

This plan was accepted by the United States Geological Survey pending like approval from the Commissioner's Office.

We were advised by the Commissioner's Office by letter dated July 21, 1965 that such plan was not acceptable; but that due to our present negotiations with reliable third parties the State Unit Department would recommend a request for a three month extension in order that we might attempt to consummate a drilling deal for the drilling of the obligatory unit well.

Accordingly this request is written after conversation with the State Unit Director as a plan which would be considered and probably recommended by that office.



SINCLAIR OIL & GAS COMPANY

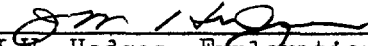
Page 2

Due to negotiations with a third party fully capable of drilling a unit test Sinclair Oil & Gas Company respectfully requests that an extension of ninety days from August 1, 1965 until November 1, 1965 be granted to complete a unit well drilling trade, failing in such, Sinclair would be willing to voluntarily terminate subject unit or at that time file a Sixth Plan of Development and Operation for the Hackberry Hills Unit therein calling for a definite unit well obligation.

Sinclair sincerely conveys its appreciation for the indulgence each of you has shown.

Yours very truly,

SINCLAIR OIL & GAS COMPANY
Unit Operator


By: 
J.W. Hodges, Exploration
Supervisor

JRL/dcw

EXTENSION TO NOVEMBER 1, 1965 APPROVED:

Commissioner of Public Lands

Regional Oil and Gas Supervisor
United States Geological Survey



Oil Conservation Commission
State of New Mexico

WORKING INTEREST OWNERS

Gulf Oil Corporation
P.O. Box 1938
Roswell, New Mexico 88201

Marathon Oil Company
P.O. Box 3128
Houston, Texas 77001

Marathon Oil Company
P.O. Box 552
Midland, Texas 79704

Pan American Petroleum Corporation
P.O. Box 1410
Fort Worth, Texas 76101

Pan American Petroleum Corporation
P.O. Box 268
Lubbock, Texas 79401

Phillips Petroleum Company
Exploration & Production Department
Bartlesville, Oklahoma 74004

Phillips Petroleum Company
Room B-2, Phillips Building
Odessa, Texas 79760

The Pure Oil Company
P.O. Box 671
Midland, Texas 79704

Mobil Oil Company
P.O. Box 633
Midland, Texas 79704

Skelly Oil Company
P.O. Box 1650
Tulsa, Oklahoma 74102
Attn: Mr. B.W. Ploch

Skelly Oil Company
P.O. Box 1650
Tulsa, Oklahoma 74102
Attn: Mr. R.G. Heltz

Skelly Oil Company
P.O. Box 993
Midland, Texas 79701
Attn: Mr. L.S. Ditzell, Jr.

Sunray LX Oil Company
1101 Wilco Building
Midland, Texas 79704

WORKING INTEREST OWNERS - Continued

The Superior Oil Company
P.O. Box 1521
Houston, Texas 77001 (4)

The Superior Oil Company
P.O. Box 1900
Midland, Texas 79704 (2)

Texaco Inc.
P.O. Box 3109
Midland, Texas 79704

Tidewater Oil Company
P.O. Box 1231
Midland, Texas 79704

Mr. Ernest A. Hanson
P.O. Box 1515
Roswell, New Mexico 88201

Mr. David Fasken
608 First National Bank Building
Midland, Texas 79704
Attn: Mr. Richard S. Brooks

Tom Brown Drilling Company, Inc.
P.O. Box 5131
Midland, Texas 79704

Mildred B. DeChicchis
Ellen DeChicchis Pittman
P.O. Box 1251
Midland, Texas 79701
Attn: Mr. T.J. Brown

Wm. G. Ross
P.O. Box 86
Midland, Texas 79701

MAILED
AUG 9 1965

July 21, 1965

Sinclair Oil and Gas Company
P. O. Box 1470
Midland, Texas

Attention: Mr. C. R. McClain

Re: Hackberry Hills Unit
Eddy County, New Mexico

Gentlemen:

We acknowledge receipt of your application requesting a six month's extension to file your Sixth Plan of Development and Operation for the Hackberry Hills unit area, Eddy County, New Mexico.

Your last well was completed in September of 1964. We granted you a six month extension in which to file a Sixth Plan of Development to July 1, 1965. This extension was granted due to the change of operator from Gulf Oil Company to Sinclair. You state that one of your chief reasons for asking for a further extension of six months is based upon the drilling of a well in the proposed Avalon Unit. The drilling of this well is still a very indefinite thing, as application by Richfield has not as yet been filed with this office.

We do not believe that circumstances warrant a further extension for the filing of a plan of development for the Hackberry Hills Unit.

Very truly yours,

GUYTON B. HAYS
COMMISSIONER OF PUBLIC LANDS

By
(Mr.) Ted Bilberry, Director
Oil and Gas Department

GBH/MNR/d

ILLEGIBLE

**Sinclair Oil and Gas Company
Midland, Texas**

**July 21, 1965
Page Two**

**cc: United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico
Attention: Mr. John A. Anderson**

**New Mexico Oil Conservation Commission ←
P. O. Box 2088
Santa Fe, New Mexico**

ILLEGIBLE

MAIN OFFICE 00

'65 JUL 22 PH 12

Drawer 1857
Roswell, New Mexico 88201

July 20, 1965

Sinclair Oil and Gas Company
P. O. Box 1470
Midland, Texas

Attention: Mr. J. W. Hodges

Gentlemen:

Your letter of June 30 requests an additional six-month extension of time within which to file the sixth plan of development for the Hackberry Hills unit area, Eddy County, New Mexico, in order to further evaluate the geologic information obtained from your No. 1 "279" well in the NE 1/4 sec. 22, T. 21 S., R. 26 E., and from exploratory wells on other units in the general area in which Sinclair is participating.

You are hereby granted a six-month extension until January 1, 1966, within which to file the next plan of development for the Hackberry Hills unit area, subject to like approval by the appropriate State officials.

Sincerely yours,

(Orig.Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil & Gas Supervisor

cc:
Washington (w/cy of ltr. of June 30)
Artesia (w/cy ltr. June 30)
N.M.O.C.C. - Santa Fe (ltr. only)✓
Com. of Pub. Lands - Santa Fe (ltr. only)



SINCLAIR OIL & GAS COMPANY

P. O. BOX 1470

MIDLAND, TEXAS

July 1, 1965

MIDLAND DIVISION

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

**Regional Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico**

**Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico.**

**Re: Hackberry Hills Unit
Eddy County, New Mexico
(No. 14-08-0001-7348)**

Gentlemen:

**Enclosed herewith Request for Six Months Extension to
File Sixth Plan of Development for captioned Unit.**

**Your approval of the enclosed is respectfully requested
with return of one copy with approval noted thereon.**

J. W. Hodges

By:

C. R. McClain

**CRM/ar
Enclosure**

cc: Mr. R. W. Knopp



SINCLAIR OIL & GAS COMPANY

P. O. BOX 1470
MIDLAND, TEXAS

MIDLAND DIVISION

June 30, 1965

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

Regional Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Re: Request for Six Months Extension
to File Sixth Plan of Development
and Operation for Hackberry Hills
Unit Area, Eddy County, New Mexico
No. 14-08-0001-7348

Gentlemen:

Since the approval of the Hackberry Hills Unit Agreement, three wells have been drilled upon the Unit Area. The initial test well located 880 feet from the south line and 2130 feet from the east line of Section 1, Township 22 South, Range 25 East, Eddy County, New Mexico, was drilled to a total depth of 11,536 feet. The well was completed August 15, 1961 through perforations within the interval 9622-9654 feet in the Canyon Formation of Pennsylvanian Age. The open flow potential was 6800 MCFGPD. Pursuant to Section 11 of the Unit Agreement the Initial Participating Area was established. Said area included the S/2 of Section 1 and the N/2 of Section 12, T-22-S, R-25-E, N.M.P.M.

The Hackberry Hills Unit Well No. 2, located in the NW/4 NE/4 of Section 7, Township 22 South, Range 26 East, was drilled to a total depth of 10,050 feet with no indications of commercial production being encountered. The test was completed and plugged and abandoned as a dry hole on February 16, 1963.

The third test well, located in the NW/4 SE/4 of Section 2, Township 22 South, Range 25 East, was drilled to a total depth of



SINCLAIR OIL & GAS COMPANY

Page 2

11,145 feet and plugged and abandoned as a dry hole on September 14, 1964.

In addition to the tests drilled on the Unit Area, Sinclair Oil & Gas Company drilled its No. 1 "279" located 1980 feet from the south line and 660 feet from the east line of Section 22, Township 21 South, Range 26 East. This test was drilled to a total depth of 11,487 feet and plugged and abandoned as a dry hole on March 25, 1965. The results of this well are now being evaluated and although the test was not on unit acreage, because of its proximity thereto our findings will to some extent be instrumental in formulating a plan of further development for the Hackberry Hills Unit Area.

At the present time Richfield Oil Corporation is in the process of forming an exploratory unit immediately north of the Hackberry Hills Unit Area. Richfield's unit has been designated as the Avalon Unit. The north line of the Hackberry Hills Unit and the south line of the Avalon Unit are common.

Also, in the general area of the Hackberry Hills Unit are the proposed Cueva and Rain Springs Units. Sinclair and certain other working interest owners in the Hackberry Hills Unit are participating in these Units.

Tests on the aforementioned Units cannot be considered as development on the Hackberry Hills Unit; however they do have a bearing and will to some extent affect the actions of the Unit Operator upon the Hackberry Hills Unit.

Therefore, to allow complete evaluation of the geological information obtained from the drilling of our No. 1 "279", as well as information from the three unit wells mentioned above, and especially from the Avalon Unit, Sinclair Oil & Gas Company respectfully requests that an extension be granted for the filing of the Sixth Plan of Development and Operation for the Hackberry Hills Unit Area to January 1, 1966.

Very truly yours,

SINCLAIR OIL & GAS COMPANY
Unit Operator

JWH/CRMCC/oc

By J. W. Hodges
J. W. Hodges - Exploration Supervisor



SINCLAIR OIL & GAS COMPANY

Page 3

EXTENSION TO JANUARY 1, 1966 APPROVED

Commissioner of Public Lands
State of New Mexico

Regional Oil and Gas Supervisor
United States Geological Survey

Oil Conservation Commission
State of New Mexico



SINCLAIR OIL & GAS COMPANY

P. O. BOX 1470

MIDLAND, TEXAS

MIDLAND DIVISION

June 30, 1965

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

Regional Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Re: Request for Six Months Extension
to File Sixth Plan of Development
and Operation for Hackberry Hills
Unit Area, Eddy County, New Mexico
No. 14-08-0001-7348

Gentlemen:

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SINCLAIR OIL & GAS COMPANY

Page 2

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Also, in the general area of the Hackberry Hills Unit are the proposed Cueva and Rain Springs Units. Sinclair and certain other working interest owners in the Hackberry Hills Unit are participating in these Units.

Tests on the aforementioned Units cannot be considered as development on the Hackberry Hills Unit; however they do have a bearing and will to some extent affect the actions of the Unit Operator upon the Hackberry Hills Unit.

Therefore, to allow complete evaluation of the geological information obtained from the drilling of our No. 1 "279", as well as information from the three unit wells mentioned above, and especially from the Avalon Unit, Sinclair Oil & Gas Company respectfully requests that an extension be granted for the filing of the Sixth Plan of Development and Operation for the Hackberry Hills Unit Area to January 1, 1966.

Yours very truly,

SINCLAIR OIL & GAS COMPANY
Unit Operator

JWH/CRMc/oc

By 
G. W. Hodges, Exploration Supervisor



SINCLAIR OIL & GAS COMPANY

Page 3

EXTENSION TO JANUARY 1, 1966 APPROVED:

Commissioner of Public Lands
State of New Mexico

Regional Oil and Gas Supervisor
United States Geological Survey

Oil Conservation Commission
State of New Mexico

OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

2181

March 5, 1965

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico 88201

Attention: Mr. W. B. Hopkins

Re: Request for Extension to
File Sixth Plan of
Development, Hackberry
Hills Unit, Eddy County,
New Mexico.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved your request for a 6-month extension until July 1, 1965, within which to file the Sixth Plan of Development and Operation for the Hackberry Hills 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.

One approved copy of the application is returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey - Roswell

C
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Y

The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico

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

Oil Conservation Commission
for the State of New Mexico
Santa Fe, New Mexico

Re: Request for Six Months Extension to
File Sixth Plan of Development and
Operation for Hackberry Hills Unit
Area (No. 14-08-0001-7348), Eddy County,
New Mexico.

Gentlemen:

Gulf Oil Corporation as Unit Operator for the Hackberry Hills Unit has heretofore drilled or caused to be drilled three (3) wells within the unit area.

Subsequent to the plugging and abandoning of Well No. 3 on or about September 14, 1964, it became necessary to prepare and execute numerous partial interest assignments and also involved was the resignation of Gulf Oil Corporation as Unit Operator and the designation of Sinclair Oil & Gas Company as successor operator, subject to the approval of the necessary governmental authorities. Although Gulf Oil Corporation executed its resignation during the month of December, 1964, said resignation was not to take effect until after the designation of Sinclair Oil & Gas Company as successor operator had been duly filed and approved. Said designation of successor unit operator has not as yet been made by 75% or more of the working interest owners.

After said instrument has been received, filed and approved, and after all leasehold assignments have been duly filed, Sinclair Oil & Gas Company will be in a better position to consult with the various working interest owners concerning the Sixth Plan of Development.

In the meantime, Sinclair Oil & Gas Company has spudded its No. 1 "279" Well, a projected 10,500 foot Pennsylvanian test, in the near vicinity of the Hackberry Hills Unit Area. Said well is located 1980 FSL and 660 FEL Section 22, Township 21 South, Range 26 East, Eddy County, New Mexico. The results of said well will be to some extent instrumental in the Sixth Plan of Development and Operation for the Hackberry Hills Unit Area.

MAIL ROOM

'65 FEB 1 AM 11

MAIL ROOM

'65 FEB 1 AM 11

RECEIVED
JAN 22 1965
U. S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

Hackberry Hills Unit Area
Page 2

Therefore, Gulf Oil Corporation in cooperation with Sinclair Oil & Gas Company respectfully requests that an extension be granted for the filing of the Sixth Plan of Development and Operation for the Hackberry Hills Unit Area to July 1, 1965.

Very truly yours,

GULF OIL CORPORATION
Unit Operator

Law	<i>W.H.</i>
Serv.	<i>W.H.</i>
Exec.	<i>W.H.</i>
Prod.	<i>W.H.</i>

Date: January 11, 1965

By *W.B. Haddad*
District Manager

SINCLAIR OIL & GAS COMPANY
Proposed Successor Unit Operator

APPROVED	
SUBS.	<i>W.H.</i>
FORM	<i>W.H.</i>

Date: JAN 15 1965

By *W.B. Haddad*
Vice-President

EXTENSION TO JULY 1, 1965 APPROVED

Oil and Gas Supervisor
United States Geological Survey

Date: _____

Commissioner of Public Lands for the
State of New Mexico

Date: _____

A. L. Carter, Jr.
Oil Conservation Commission for the
State of New Mexico

Date: March 5 1965

Gulf Oil Corporation

LAW DEPARTMENT

Booth Kellough
DIVISIONAL ATTORNEY
MIDLAND TEXAS
ATTORNEY ROSWELL
William V. Kastler

January 28, 1965

O. Box 1938
Roswell, New Mexico

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

Attention: Mr. J. E. Kapteina

Re: Hackberry Hills Unit
Eddy County, New Mexico

Dear Mr. Kapteina:

I am enclosing herewith an executed copy of a Request for Six Months Extension to File Sixth Plan of Development and Operation for Hackberry Hills Unit Area in Eddy County, New Mexico. I trust the letter will be self-explanatory. Also, enclosed herewith is a verifax copy of Mr. John A. Anderson's letter of January 27, 1965, by which the Regional Oil and Gas Supervisor has granted under condition the requested extension.

With best personal regards, I am

Sincerely yours,



William V. Kastler

WVK:ej1

Enclosure





UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Drawer 1857
Roswell, New Mexico 88201

IN REPLY REFER TO:

HAND DELIVERED
9:55 JAN 29 AM '65

January 27, 1965

Gulf Oil Corporation
P. O. Box 1938
Roswell, New Mexico

Attention: Mr. William V. Kastler

Gentlemen:

Your application of January 11 requests a 6-month extension of time within which to file the sixth plan of development for the Hackberry Hills unit area, Eddy County, New Mexico.

You advise that Sinclair Oil & Gas Company is in the process of becoming successor unit operator for the Hackberry Hills unit but that approval by the owners of 75 percent of the committed working interest has not yet been obtained. The extension of time is requested to complete the unit operator change and to allow Sinclair time to arrange further drilling operations in the unit area with the other working interest owners.

You are hereby granted a 6-month extension until July 1, 1965, within which to file the next plan of development for the Hackberry Hills unit subject to like approval by the appropriate State officials.

Sincerely yours,

(ORIG. SGD.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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



IN REPLY REFER TO:

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1857
Roswell, New Mexico 88201

January 27, 1965

Gulf Oil Corporation
P. O. Box 1938
Roswell, New Mexico

Attention: Mr. William V. Kastler

Gentlemen:

Your application of January 11 requests a 6-month extension of time within which to file the sixth plan of development for the Hackberry Hills unit area, Eddy County, New Mexico.

You advise that Sinclair Oil & Gas Company is in the process of becoming successor unit operator for the Hackberry Hills unit but that approval by the owners of 75 percent of the committed working interest has not yet been obtained. The extension of time is requested to complete the unit operator change and to allow Sinclair time to arrange further drilling operations in the unit area with the other working interest owners.

You are hereby granted a 6-month extension until July 1, 1965, within which to file the next plan of development for the Hackberry Hills unit subject to like approval by the appropriate State officials.

Sincerely yours,

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. B. Hopkins
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
F. O. Mortlock
DISTRICT EXPLORATION
MANAGER
H. A. Rankin
DISTRICT SERVICES MANAGER

March 4, 1965

P. O. Drawer 1938
Roswell, New Mexico 88201

The New Mexico Oil Conservation Commission
Post Office Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. A. L. Porter

Re: Hackberry Hills Unit, Eddy County, New Mexico

Gentlemen:

On January 28, 1965, Gulf requested a six month extension before filing the Sixth Plan of Development and Operations for the Hackberry Hills Unit, which extension has been approved by the U.S. Geological Survey and by the Commissioner of Public Lands. Our records do not reflect whether this has been approved by the Oil Conservation Commission. Would you please advise at your convenience.

Yours very truly,



H. A. Rankin

CW:dcm



OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO

2181

December 15, 1964

C
O
P
Y

Gulf Oil Corporation
P. O. Box 1938
Roswell, New Mexico

Attention: Mr. W. B. Hopkins

Re: Fifth Plan of Development
June 30, 1964, to January 1,
1965, Hackberry Hills Unit,
Eddy County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Fifth Plan of Development and Operation to cover the period from June 30, 1964, to January 1, 1965, for the Hackberry Hills 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.

Five approved copies of the plan are handed to Mr. W. V. Kastler.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEK/esr

cc: Commissioner of Public Lands
Santa Fe, New Mexico

United States Geological Survey
Drawer 1857
Roswell, New Mexico 88201

MAIN OFFICE
*64 DEC 17 AM 3:25

December 15, 1964

Gulf Oil Corporation
P. O. Box 1938
Roswell, New Mexico

Re: Hackberry Hills Unit
Eddy County, New Mexico
Fifth Plan of Development

Attention: Mr. W. B. Hopkins

Gentlemen:

The Commissioner of Public Lands has approved as of this date, your Fifth Plan of Development covering the period from June 30, 1964 to January 1, 1965, for the Hackberry Hills Unit Area, Eddy County, New Mexico, subject to like approval by the United States Geological and the New Mexico Oil Conservation Commission.

One approved copy is being sent to the New Mexico Oil Conservation Commission and we are returning three approved copies.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

BY:
Ted Bilberry, Director
Oil & Gas Department

ESW/mmr/v

cc: United States Geological Survey
Roswell, New Mexico

New Mexico Oil Conservation Commission
Santa Fe, New Mexico

Drawer 1857
Roswell, New Mexico 88201

December 9, 1964

MAIL ROOM
'64 DEC 11 PM 1 12

Gulf Oil Corporation
P. O. Box 1938
Roswell, New Mexico

Attention: Mr. W. B. Hopkins

Gentlemen:

Your fifth plan of development covering the period from June 30, 1964 to January 1, 1965, for the Hackberry Hills unit area, Eddy County, New Mexico, has been approved on this date subject to like approval by the appropriate State officials.

Six approved copies of the plan are enclosed.

Sincerely yours,

[Orig. Sgd.] CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil & Gas Supervisor

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

MAIL ROOM

'64 DEC 11 PM 1 12

RECEIVED
NOV 30 11 06 AM '64
STATE OFFICE
SANTA FE, N.M.

FIFTH PLAN OF DEVELOPMENT AND OPERATION
FOR
HACKBERRY HILLS UNIT AREA
EDDY COUNTY, NEW MEXICO

RECEIVED
NOV 30 1964
U. S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

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

The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

This Fifth Plan of Development and Operation for the unitized land is to cover the period of June 30, 1964 to January 1, 1965, pursuant to Section 10 of the Hackberry Hills Unit Agreement No. 14-08-0001-7348.

On May 15, 1964, Tom Brown Drilling Company, Inc. was designated as the agent for Unit Operator pursuant to a Farmout Agreement. Subsequently, on July 6, 1964, Tom Brown Drilling Company, Inc. and its assignees, Sinclair Oil & Gas Company, David Fasken, and T. J. Brown Independent Executor of the Estate of R. DeChicchis, Deceased spudded Well No. 3 at a location 1980 feet from the North and East Lines of Section 2, Township 22 South, Range 25 East. After drilling to an approximate depth of 2350 feet the hole was junked on July 22, 1964 and Brown No. 3-B Hackberry Hills was spudded July 27, 1964 at a location 1980 feet from the South and East Lines of said Section 2. On September 11, 1964 Brown No. 3-B Hackberry Hills reached total depth of 11,145 feet in the Barnett Shale with no shows in the Cisco Canyon, Strawn, Atoka or Morrow Sections. The well was plugged and abandoned on September 14, 1964.

Sinclair Oil & Gas Company having assumed the major interest under the Farmout Agreement is entitled to become the successor unit operator effective as of the first day of the month following approval by the Director of the United States Geological Survey. A designation of Sinclair as successor unit operator is presently being circulated for execution by the Working Interest Owners along with assignments of an undivided 1/2 interest in the Unit Area excluding the participating area which is to be owned as follows:

Sinclair Oil & Gas Company	50%
David Fasken	37.5%
T. J. Brown Independent Executor of the Estate of R. DeChicchis, Deceased	6.250%
Tom Brown Drilling Company, Inc.	6.250%

We regret that this Fifth Plan of Development was not filed on or before June 30, 1964.

Respectfully submitted,

GULF OIL CORPORATION

Law	<i>W.B.H.</i>
Com	<i>HOR</i>
Price	<i>W.B.H.</i>

W.B.H. Jones
District Manager

APPROVED DEC 9 - 1964

E. J. Walker 12-15-64
Commissioner of Public Lands for the
State of New Mexico

Carl E. Traquich
ACTING Oil and Gas Supervisor
United States Geological Survey
Subject to like approval by the
appropriate State officials.

G. R. Porter, Jr. 12/15/64
New Mexico Oil Conservation Commission

DEC 15 11 06 AM '64
STATE LAND OFFICE
SANTA FE, N.M.

2181

Gulf Oil Corporation

LAW DEPARTMENT

Booth Kellough
DIVISIONAL ATTORNEY
MIDLAND, TEXAS

ATTORNEY, ROSWELL
William V. Kastler

1964 MAY 15 PM 3 P. O. Box 1938
Roswell, New Mexico

May 15, 1964

The Commissioner of Public Lands
for the State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico
Attention: Mrs. Marian M. Rhea, Supervisor
Unit Division

Mr. John A. Anderson
Regional Supervisor
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico

Mr. A. L. Porter, Jr.
Secretary and Director
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Re: Designation of Agent
Hackberry Hills Unit
Eddy County, New Mexico

Gentlemen:

I am enclosing herewith copies of Revised Designation of Agent wherein Gulf Oil Corporation as the Unit Operator for the Hackberry Hills Unit constitutes Tom Brown Drilling Co., Inc. its agent for the drilling of Unit Well No. 3 in the E/2 of Section 2-22S-25E to commence on or before July 1, 1964. This instrument is intended to replace the previous Designation of Agent transmitted to you by our letter of May 8, 1964.

Very truly yours,

William V. Kastler
William V. Kastler

WVK:ejl

Enclosures - 2 copies to the Commissioner
4 copies to the Supervisor
1 copy to the Commission

cc: Tom Brown Drilling Co., Inc.
Midland, Texas



1964 MAY 15 AM 10 21

COMMUNICATIONS SECTION

HACKBERRY HILLS UNIT AREA
EDDY COUNTY, NEW MEXICO

DESIGNATION OF AGENT

DEPT. OF PUBLIC LANDS

1964 MAY 15 AM 11 22

1964 MAY 15 PM 3 18

To: The Commissioner of Public Lands
State of New Mexico
Post Office Box 1148
Santa Fe, New Mexico 87501

The Oil and Gas Supervisor
United States Geological Survey
Post Office Box 1857
Roswell, New Mexico 88201

Oil Conservation Commission
State of New Mexico
Post Office Box 2088
Santa Fe, New Mexico 87501

Gulf Oil Corporation as Unit Operator for the Hackberry Hills Unit Area hereby designates:

Tom Brown Drilling Co., Inc.
Post Office Box 5131
Midland, Texas 79704

as its agent, with full power and authority to act in its behalf in complying with the terms of the Unit Agreement and all regulations applicable thereto and on whom the Land Commissioner, Supervisor or Commission or their representatives may serve written notice or oral instructions in securing compliance with said Unit Agreement and regulations applicable thereto with respect to drilling, testing and completing Unit Well No. 3, in the E/2 of Section 2, Township 22 South, Range 25 East., N.M.P.M., Eddy County, New Mexico.

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the Unit Agreement and all regulations or orders applicable thereto. It is also understood that this designation of agent does not constitute an assignment of any interest under the Unit Agreement or any leases committed thereto.

In case of default on the part of the above designated agent, the Unit Operator will make full and prompt compliance with the Unit Agreement and all regulations or orders applicable thereto.

The Unit Operator agrees promptly to notify the Land Commissioner, Supervisor and the Commission of any change in the designated agent.

The designation of agent is deemed to be temporary and in no manner a permanent arrangement.

This designation is given only to enable the agent herein designated to drill the above designated unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate offices of the Land Commissioner, Supervisor and the Commission a completed file of all required reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative action requiring specific authorization of the Unit Operator.

GULF OIL CORPORATION

ATTEST:

[Signature]
Assistant Secretary

By [Signature]
Attorney in Fact

Date: May 15, 1964

[Handwritten initials]
1964

Gulf Oil Corporation

LAW DEPARTMENT

2181
MAIL OFFICE 800

Booth Kellough
DIVISIONAL ATTORNEY
MIDLAND TEXAS

ATTORNEY, ROSWELL
William V. Kastler

1964 MAY 9 AM 10 P. O. Box 1938
Roswell, New Mexico

May 8, 1964

Mr. John A. Anderson
Regional Supervisor
United States Geological Survey
P. O. Box 1857
Roswell, New Mexico

The Commissioner of Public Lands
for the State of New Mexico
P. O. Box 1148
Santa Fe, New Mexico
Attention: Mrs. Marian M. Rhea, Supervisor
Unit Division

Mr. A. L. Porter, Jr.
Secretary and Director
New Mexico Oil Conservation Commission
P. O. Box 2088
Santa Fe, New Mexico

Re: Hackberry Hills Unit
Eddy County, New Mexico

Gentlemen:

I am transmitting herewith signed copies of our designation of Tom Brown Drilling Company, Inc. as agent for the purpose of his undertaking and drilling of Unit Well No. 3. Said well is to be commenced on or before July 1, 1964 at a lawful location in the E/2 of Section 2, Township 22 South, Range 25 East. Also enclosed herewith is one copy of our letter of agreement with Tom Brown Drilling Company, Inc. for your files.

Very truly yours,

William V. Kastler
William V. Kastler

WVK:ej1

Enclosures



Submit in quadruplicate

DESIGNATION OF AGENT
1961 MAY 9 AM 10 54

Supervisor, Oil and Gas Operations:

The undersigned is, on the records of the Geological Survey, Unit Operator under the Hackberry Hills unit agreement, Eddy County, New Mexico (state), No. 14-08-0001 7348 approved February 27, 1961 and hereby designates:

NAME: **TOM BROWN DRILLING CO., INC.**

ADDRESS: **P. O. BOX 5131, MIDLAND, TEXAS 79704**

as its agent, with full authority to act in its behalf in complying with the terms of the Unit Agreement and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to drilling, testing and completing unit well No.

3, in the E/2 sec. 2, T. 22S, R. 25E, N.M.P.M., Eddy County, New Mexico.

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the unit agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of agent does not constitute an assignment of any interest under the unit agreement or any lease committed thereto.

In case of default on the part of the designated agent, the Unit Operator will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The Unit Operator agrees promptly to notify the oil and gas supervisor of any change in the designated agent.

This designation of agent is deemed to be temporary and in no manner a permanent arrangement.

This designation is given only to enable the agent herein designated to drill the above-specified unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate district office of the U. S. Geological Survey a completed file of all required Federal reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative action requiring specific authorization of the Unit Operator.

ATTEST:

D. B. Rankin
Assistant Secretary

APR 22 1961
Date

GULF OIL CORPORATION
Unit Operator

By: *[Signature]*
Attorney-in-Fact

[Handwritten initials]

Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. B. Hopkins 1964 MAY 29 AM 10 51 April 17, 1964
DISTRICT MANAGER

M. I. Taylor
DISTRICT PRODUCTION
MANAGER

F. O. Mortlock
DISTRICT EXPLORATION
MANAGER

H. A. Rankin
DISTRICT SERVICES MANAGER

P. O. Drawer 1938
Roswell, New Mexico 88201

Tom Brown Drilling Company, Inc.
Post Office Box 5131
Midland, Texas 79704

Re: Hackberry Hills Unit
Eddy County, New Mexico
Memorandum of Agreement

Gentlemen:

Gulf Oil Corporation, hereinafter called "Gulf", as Unit Operator of the Hackberry Hills Unit has approval from all Working Interest Owners to enter into a farmout with your company pursuant to our prior negotiations with you through Mr. Norman L. Stevens, Jr.

Our Agreement may be stated fully as follows:

1.

Tom Brown Drilling Company, Inc., hereinafter called "Tom Brown", as Agent pursuant to the attached Designation Form shall commence on or before July 1, 1964 the actual drilling of a test well for oil and gas purposes at a lawful location of its choice in Section 2, Township 22 South, Range 25 East, said well to constitute Unit Well No. 3, and thereafter drill said well with due diligence and in a good and workmanlike manner to production in paying quantities in the Pennsylvanian formation or to a depth sufficient, in the opinion of Gulf, to penetrate the top of the Mississippian or to 11,500 feet beneath the surface, whichever first occurs. Said well shall be drilled in all respects pursuant to the Hackberry Hills Unit Agreement. It is understood and agreed that the full cost of drilling, testing, completing and equipping of said well into the tanks, or plugging and abandoning the same if a dry hole, shall be borne by Tom Brown. If said well should be lost or abandoned due to mechanical difficulties, or for any other reason beyond the reasonable control of Tom Brown, a substitute well shall be commenced within sixty (60) days from the time of the loss or abandonment, and if said substitute well is thereafter drilled in accordance with the provisions hereof it shall constitute full compliance with this drilling obligation. Failure of Tom Brown to commence and drill the above mentioned test well within the time, in the manner and to the depths herein specified shall cause a termination of this agreement and all rights hereunder.

2.

A. In consideration for drilling said test well as above provided, whether completed as a producer or a dry hole, Tom Brown shall earn an undivided one-half (1/2) of the entire leasehold working interests presently committed to the Hackberry Hills Unit Agreement to all depths, SAVE AND EXCEPT, and expressly reserving unto said Working Interest Owners and each of them, as their interests now appear, the oil and gas rights presently constituting the 640 acre Initial Participating Area of the



April 17, 1964

Hackberry Hills Unit for the Pennsylvanian formation approved by the Director of USGS on January 4, 1962 and being confined to the S/2 of Section 1 and the N/2 of Section 12, Township 22 South, Range 25 East.

B. As a further consideration for drilling said test well as above provided, in the event Tom Brown completes said well as a producer of oil or gas it shall earn an additional one-half (1/2) interest in the drillsite tract proration unit until payout subject to the reservation of a 1/16th of 8/8ths overriding royalty. If Tom Brown should complete a gas well in the Pennsylvanian formation it is further understood and agreed that the drillsite tract proration unit, insofar as the Working Interest Owners, or any of them, are concerned, shall constitute all of their leasehold interests in Section 2, Township 22 South, Range 25 East. After payout of all costs of drilling, testing, completing and equipping of said well together with all operating costs up to the time of payout, the said 1/16th of 8/8ths overriding royalty shall terminate and the one-half leasehold interest assigned pursuant to this Paragraph 2 (B) shall revert to and re-vest in the said Working Interest Owners, or any of them, in the same proportions as said interests are owned and held on the date of this memorandum of agreement.

Any assignment of leasehold rights made pursuant hereto shall be on a form generally accepted by the industry in local custom and usage, shall be without warranty, express or implied, subject to all overriding royalties, production payments or other such burdens shown on Exhibit B to the Unit Agreement and subject to the Hackberry Hills Unit Agreement. Gulf agrees that after Tom Brown has earned the rights herein provided for it will exert its best effort to deliver or cause to be delivered within a reasonable time recordable assignments duly executed by the various Working Interest Owners affected; Provided, however, that Gulf shall not be liable for the failure or refusal of any Working Interest Owner to assign one-half of its interest as herein provided.

It is further understood and agreed that one-half of any lease rentals paid or payable after Tom Brown commences the test well herein provided for shall be borne by Tom Brown or reimbursed to the lease owner or owners by Tom Brown within thirty (30) days after receipt of proof of payment of said rentals.

3.

For the purposes hereof the Hackberry Hills Unit and Unit Operating Agreements are expressly incorporated herein by reference. It is stipulated and agreed that in the event of conflict between the provisions of this memorandum of agreement with any provision of the Hackberry Hills Unit Agreement, the provisions of said Unit Agreement shall be controlling. In the event of any conflict between this agreement and the provisions of the Hackberry Hills Unit Operating Agreement the provisions of this memorandum of agreement shall be controlling. After Tom Brown shall have fully performed its drilling obligations outlined in Section 1 above, it is contemplated that revised exhibits to the Hackberry Hills Unit and Unit Operating Agreements shall be filed as may be necessary after said revised exhibits have been approved by the Working Interest Owners. It is further provided that after the drilling of Unit Well No. 3 and the assignment of interests as herein provided for, Tom Brown shall be designated the Successor Unit Operator, subject to the approval of the Director of USGS and the Commissioner of Public Lands for the State of New Mexico.

4.

Tom Brown has heretofore obtained a faromout from Carper Drilling Company, Inc. covering Lots 1 and 4 of Section 2, Township 22 South, Range 25 East, and it is understood and agreed that said lands prior to any production being obtained hereunder shall be committed to the Hackberry Hills Unit Area; Provided, however, that until payout of all costs of drilling, testing, completing, equipping and operating the test well herein provided for no Working Interest Owner other than Tom Brown shall be entitled to any ownership in the proceeds of production from said well or the participating area set up or enlarged as a result of the successful completion of said well except for the 1/16th of 8/8ths overriding royalty hereinabove provided for. In the event any additional unit wells are drilled either before or after the payout mentioned herein the participation in costs of drilling and in the production obtained therefrom shall be shared by the Working Interest Owners as provided in the Hackberry Hills Unit Operating Agreement and the then current Revised Exhibit D.

5.

After sixty (60) days following the commencement of the test well herein provided for should Tom Brown desire to sell all or any part of its rights to be earned hereunder the preferential right of purchase contained in Section 21 of the Hackberry Hills Unit Operating Agreement shall pertain. A copy of any assignment of interest in this agreement and the rights to be earned hereunder made prior to sixty (60) days following commencement of said well shall be immediately mailed to Gulf at its office in Roswell, New Mexico.

6.

All references herein to Working Interest Owners, unless the context clearly implies otherwise, shall be deemed to refer to the parties who on the date of this agreement own working interests within the Unit Area which are committed to the Unit and Unit Operating Agreements.

If the foregoing numbered paragraphs express the substance of our previous negotiations and if these terms and provisions exactly as written are acceptable to you, please execute this memorandum of agreement in the appropriate space provided below and return eight (8) fully executed copies to this office at your earliest convenience.

Yours very truly

GULF OIL CORPORATION

By W. B. Hill
Attorney-in-Fact

Form Approved
Law Dept. W

ATTEST:
[Signature]
Assistant Secretary

APPROVED AND ACCEPTED this 23rd day of April, 1964.

TOM BROWN DRILLING COMPANY, INC.

By Thomas C. Brown
President

ATTEST:
[Signature]
Asst. Secretary

Submit in quadruplicate

DESIGNATION OF AGENT

Supervisor, Oil and Gas Operations:

The undersigned is, on the records of the Geological Survey, Unit Operator under the Hackberry Hills unit agreement, Eddy County, New Mexico (state), No. 14-08-0001 7348 approved February 27, 1961 and hereby designates:

NAME: TOM BROWN DRILLING CO., INC.

ADDRESS: P. O. BOX 5131, MIDLAND, TEXAS 79704

as its agent, with full authority to act in its behalf in complying with the terms of the Unit Agreement and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to drilling, testing and completing unit well No. 3, in the E/2 * * sec. 2, T. 22S., R. 25E., N.M.P.M., Eddy County, New Mexico.

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the unit agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of agent does not constitute an assignment of any interest under the unit agreement or any lease committed thereto.

In case of default on the part of the designated agent, the Unit Operator will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The Unit Operator agrees promptly to notify the oil and gas supervisor of any change in the designated agent.

This designation of agent is deemed to be temporary and in no manner a permanent arrangement.

This designation is given only to enable the agent herein designated to drill the above-specified unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate district office of the U. S. Geological Survey a completed file of all required Federal reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative action requiring specific authorization of the Unit Operator.

ATTEST:

Assistant Secretary Date

GULF OIL CORPORATION Unit Operator

By: Attorney-in-Fact

Table with 4 rows: Law, Serv, Exp, Prod.

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

2181

April 6, 1964

Gulf Oil Corporation
P. O. Box 1938
Roswell, New Mexico

Attention: Mr. W. B. Hopkins

Re: Plan of Development,
Hackberry Hills Unit,
Eddy County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development for the period January 1, 1964, to June 30, 1964, for the Hackberry Hills 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.

Two approved copies of the approved plan are returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe

United States Geological Survey - Roswell

C
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Y

Mr. Bill
1964
1964

MAIN OFFICE OCC

1964 MAR 30 PM 2 37

March 30, 1964

Mr. William V. Kastler
Gulf Oil Corporation
P. O. Box 1938
Roswell, New Mexico

Re: Hackberry Hills Unit
Eddy County, New Mexico
Plan of Development

Dear Bill:

The Commissioner of Public Lands approved as of March 23, 1964, the Plan of Development and Operation for the Hackberry Hills Unit Area, Eddy County, New Mexico.

This Plan covers the period of January 1, 1964, to June 30, 1964, and provides for the Drilling of another well or contraction of the Unit Area. This Plan was approved by the United States Geological Survey on January 31, 1964, however only four of the five copies submitted to us had been approved by the United States Geological Survey.

I am handing three copies of this Plan to the Oil Conservation Commission for their consideration.

Mr. William V. Kastler

March 30, 1964

- page 2 -

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
Santa Fe, New Mexico

United States Geological Survey
P. O. Drawer 1857
Roswell, New Mexico
Attention: Mr. John A. Anderson

GOVERNOR
JOHN BURROUGHS
CHAIRMAN

State of New Mexico
Oil Conservation Commission

LAND COMMISSIONER
MURRAY E. MORGAN
MEMBER



STATE GEOLOGIST
A. L. PORTER, JR.
SECRETARY DIRECTOR

P. O. BOX 871
SANTA FE

Mr. Bill Eastler
Mr. M. I. Taylor
Gulf Oil Corporation
Box 669
Roswell, New Mexico

Re: Case No. 2181
Order No. R-1871

Applicant:

Gulf Oil Corporation

Dear Sir:

Enclosed herewith are two copies of the above-referenced Commission order recently entered in the subject case.

Very truly yours,

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

ir/

Carbon copy of order also sent to:

Hobbs OCC
Artesia OCC
Aztec OCC _____

Other _____



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Drawer 1457
Roswell, New Mexico 88201

January 31, 1964

Gulf Oil Corporation
P. O. Drawer 1935
Roswell, New Mexico

Attention: Mr. W. B. Hopkins

Gentlemen:

Your plan of development for the six-month period ending June 30, 1964, for the Hackberry Hills unit agreement, Eddy County, New Mexico, advises that no wells are proposed by the working interest owners but that efforts will be made to obtain a drilling commitment by a farmout agreement. You also advise the unit area should be contracted to the present participating area unless further drilling operation can be programmed by June 30, 1964.

The plan is hereby approved subject to like approval by the appropriate State officials. Four approved copies of the plan are enclosed.

Sincerely yours,

(Orig. Sgd.) CARL G. TRAYWICK

CARL G. TRAYWICK
Acting Oil and Gas Supervisor

cc:
Washington (w/cy of plan)
Artesia (w/cy of plan)
MIDCC, Santa Fe (ltr. only) ✓
Com. of Publ. Lands, Santa Fe (ltr. only)

ILLEGIBLE

FOURTH PLAN OF DEVELOPMENT AND OPERATION

FOR
HACKBERRY HILLS UNIT AREA
EDDY COUNTY, NEW MEXICO

1964 MAR 20 PM 2 37

To: The Commissioner of Public Lands
State of New Mexico
Santa Fe, New Mexico

The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

RECEIVED
DEC 22 1963

U.S. GEOLOGICAL SURVEY
WASHINGTON, D.C.

MAR 23
SANTA FE, N.M.

Gulf Oil Corporation, as Unit Operator for the Hackberry Hills Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for the Development and Operation of the Hackberry Hills Unit Area (No. 14-08-001-7348), respectfully submits for the approval of the State Land Commissioner, of Supervisor, United States Geological Survey, and of the New Mexico Oil Conservation Commission, this Plan of Development and Operation for the unitized land for the period January 1, 1964 to June 30, 1964.

History of Previous Development: Hackberry Hills Unit Well No. 1, located 880 feet from the south line and 2130 feet from the east line of Section 1, Township 22 South, Range 25 East, Eddy County, New Mexico, was spudded February 20, 1961 and drilled to a total depth of 11,536 feet. The well was completed August 15, 1961 through selective perforations within the interval 9622 - 9654 feet in the Canyon formation of Pennsylvanian age. The well tested 2841 MCFGPD plus 101 barrels condensate (61.5° corrected gravity). The open flow potential was 6800 MCFGPD. Application for a 640-acre participating area has been approved.

Pursuant to the initial Plan of Development and Operation approved in March, 1962, the Hackberry Hills Unit Well No. 2, located in the NW/4 NE/4 Section 7, Township 22 South, Range 26 East, was spudded December 30, 1962 and drilled to a total depth of 10,050 feet. No indications of commercial production were encountered in drilling this test and it was completed and plugged and abandoned as a dry hole on February 16, 1963.

No well was drilled pursuant to the Second Plan of Development and Operation for the reason that Hackberry Hills Unit Well No. 2 was drilled over a period extending into the first quarter of 1963. In an attempt to obtain a market for the gas from Hackberry Hills Unit Well No. 1 by determining the economic feasibility of the Unit participants laying approximately eight miles of line to effect delivery into the prospective purchaser's system, a reservoir limit test was conducted as provided for in the Third Plan of Development and Operation approved in June, 1963. The reservoir limit test was accordingly performed with the results obtained being furnished to you during the period from July 1, 1963 to date. Unit Operator submits that the conclusions to be drawn from said test can be stated as follows:

1. There is no economic justification to lay the proposed eight-mile line to connect the Hackberry Hills Unit Well No. 1 with the prospective purchaser's system.
2. Although Hackberry Hills Unit Well No. 1 is capable of producing gas with rich associated liquid hydrocarbons in paying quantities, the reservoir appears to be seriously limited and further drilling of wells to the same pay section within a mile is not reasonable or prudent under the circumstances as they now appear.
3. That further exploration on the Unit should be conducted.

Gulf Oil Corporation, as Unit Operator, has recently conducted a poll of the Unit participants, the results of which are now largely complete. It appears certain at this time that the Unit participants have refused to consent and join in the drilling of an additional well on either a fully participating or non-consent basis. However, they do all propose that the Unit acreage be farmed out to a wildcat operator on a one-half acreage basis with drill-site payout to obtain reasonable further exploration of the Unit Area. Since November 1, 1963 Unit Operator has been contacting a number of operators and has received some encouragement that a satisfactory agreement can be reached over the six-month period ending June 30, 1964.

Unit Operator further respectfully submits that developments in nearby wells are presently very encouraging which conceivably could lead to the Unit participants themselves electing to carry on further efforts for development.

FOURTH PLAN OF DEVELOPMENT AND OPERATION
FOR
HACKBERRY HILLS UNIT AREA
EDDY COUNTY, NEW MEXICO

This Plan of Development and Operation is proposed in good faith as a reasonable and prudent compliance with the terms of the Hackberry Hills Unit Agreement under the circumstances which exist at the present time. In the event no further exploration or drilling activities should appear to be capable of undertaking by June 30, 1964, the Unit should, of course, be contracted to the present participating area.

This Plan of Development and Operation, if approved, shall constitute the further drilling and operating obligations of the Unit Operator of the Hackberry Hills Unit Agreement for the period ending June 30, 1964, and may be modified or supplemented from time to time with the approval of the State Land Commissioner, of the Supervisor, U.S.G.S., and of the New Mexico Oil Conservation Commission when necessary to meet changed conditions or to protect all parties to the Unit Agreement.

GULF OIL CORPORATION

Form Approved
Law Dept. *W*

By

W. B. [Signature]

District Manager

DEC 30 1963

APPROVED:

Carl C. Triguera

ACTING Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico
Subject to like approval by the
appropriate State officials.

DATE:

JAN 31 1964

APPROVED:

E. J. [Signature]

Commissioner of Public Lands
Of The State of New Mexico

DATE:

March 23, 1964

APPROVED:

A. G. [Signature]

New Mexico
Oil Conservation Commission

DATE:

April 7, 1964

RECORDED
MAR 23 6 12 AM '64
STATE ENGINEER OFFICE
SANTA FE, N.M.

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

2181

July 16, 1963

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Attention: Mr. W. B. Hopkins

Re: Plan of Development
July 1, 1963, to
December 31, 1963,
Hackberry Hills Unit,
Eddy County, N. Mex.

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Plan of Development and Operation for the period July 1, 1963, to December 31, 1963, for the Hackberry Hills 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.

Three approved copies of the plan are returned herewith.

Very truly yours,

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

ALP/JEK/og

cc: Commissioner of Public Lands - Santa Fe
United States Geological Survey - Roswell

C
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Y

RECEIVED JUN 24 1963

June 24, 1963

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Re: Plan of Development
July 1, 1963 to
December 31, 1963
Hackberry Hills Unit,
Eddy County, New Mexico

Attention: Mr. W. B. Hopkins

Gentlemen:

The Commissioner of Public Lands approved as of June 24, 1963 your Plan of Development and Operation for the Hackberry Hills Unit Area, Eddy County, New Mexico, Subject to like approval of the United States Geological Survey and the New Mexico Oil Conservation Commission.

The Plan of Operation does not cover any further drilling during the period of July 1, 1963 to December 31, 1963, but does cover the laying of a line to the unit well No. 1 and testing of this well.

The Hackberry Hills Unit contains approximately 13,920 Acres in which to conduct exploratory work, therefore, we will expect to receive a Plan of Development

Gulf Oil Corporation

June 24, 1963

-page 2-

**for the drilling of another well for the period
January 1, 1964 to July 1, 1964. We are handing four
approved copies of this plan to the Oil Conservation
Commission for their consideration.**

Very truly yours,

**E. S. JOHNEY WALKER
COMMISSIONER OF PUBLIC LANDS**

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

ESJW/mar/m

encl:

cc: Oil Conservation Commission

**United States Geological Survey
Roswell, New Mexico
Attention: Mr. John A. Anderson**

July 16, 1963

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Re: Hackberry Hills Unit
Plan of Development
July 1, 1963 to December
31, 1963
Eddy County, New Mexico

Attention: Mr. F. E. Curtis, Jr.

Gentlemen:


Pursuant to your letter of July 12, 1963, we wish to apologize for the mix up in this matter. I have a summer intern as secretary and as you are aware it takes sometime to learn our procedures.

The other four copies of this plan were in my suspense file also unsigned.

I am handing four approved copies of this plan to the Oil Conservation Commission requesting that they forward them to you at their earliest convenience.

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
Santa Fe, New Mexico

Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. B. Hopkins
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
F. O. Mortlock
DISTRICT EXPLORATION
MANAGER
H. A. Rankin
DISTRICT SERVICES MANAGER

June 17, 1963

P. O. Drawer 1938
Roswell, New Mexico

Re: Hackberry Hills Unit
No. 14-08-0001-7348
Eddy County, New Mexico
File No. 3-00259

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

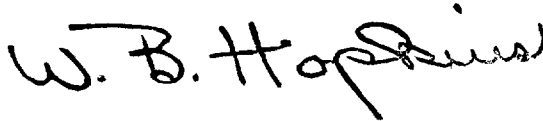
Gentlemen:

Enclosed please find six original copies of "Third Plan of Development and Operation for the Hackberry Hills Unit Area, Eddy County, New Mexico" pursuant to Section 10 of the Unit Agreement bearing No. 14-08-0001-7348, which Plan was approved on behalf of U.S.G.S. on June 12, 1963, as evidenced on all copies enclosed.

After your approval of this Third Plan of Development, we shall appreciate very much your passing the several copies thereof for approval on behalf of the New Mexico Oil Conservation Commission with the request that after approval of the Commission, they retain and return to you such copies as may be required for your respective files. We ask that at least two copies evidencing approval of all authorities be returned to us for our further handling.

Upon receipt of your invoice covering filing fee of this Plan of Development, we will be glad to forward our check in payment thereof.

Yours very truly,



W. B. Hopkins

Enclosures
JWE:ers

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



Drawer 1857
Roswell, New Mexico

June 12, 1962

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Attention: Mr. W. B. Hopkins

Gentlemen:

Your plan of development for the last six months of 1963 for the Hackberry Hills unit, Eddy County, New Mexico, proposing the drilling of no additional wells pending evaluation of the data to be obtained from a reservoir limit test, has been approved on this date subject to like approval by the appropriate State officials.

Seven approved copies of the plan are enclosed.

Sincerely yours,

(Orig.Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil & Gas Supervisor

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)

Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. B. Hopkins
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
F. O. Mortlock
DISTRICT EXPLORATION
MANAGER
H. A. Rankin
DISTRICT SERVICES MANAGER

May 24, 1963

P. O. Drawer 1938
Roswell, New Mexico

Re: Hackberry Hills Unit
No. 14-08-0001-7348
Eddy County, New Mexico
File No. 3-00259

The Oil and Gas Supervisor
United States Geological Survey
Post Office Drawer 1857
Roswell, New Mexico

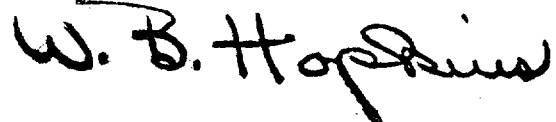
Dear Sir:

Enclosed please find ten copies of "Third Plan of Development and Operation for Hackberry Hills Unit Area, Eddy County, New Mexico" pursuant to Section 10 of the Unit Agreement bearing No. 14-08-0001-7348.

On approval, we shall appreciate the return of such approved copies of this Plan of Development as are not required for your use and files, for our further handling in requesting approval of the Commissioner of Public Lands and the Oil Conservation Commission of the State of New Mexico.

Yours very truly,

GULF OIL CORPORATION



W. B. Hopkins

Enclosure
JWE:ers

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

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



Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. B. Hopkins
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
F. O. Mortlock
DISTRICT EXPLORATION
MANAGER
H. A. Rankin
DISTRICT SERVICES MANAGER

July 12, 1963

P. O. Drawer 1938
Roswell, New Mexico

Hackberry Hills Unit No. 14-08-0001-7348
Eddy County, New Mexico

Re: Plan of Development July 1, 1963 to
December 31, 1963

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

Attention: Mrs. Marian M. Rhea

Gentlemen:

Please refer to your letter of June 24, 1963, same subject as above, advising of your approval of the Third Plan of Development for the Hackberry Hills Unit. With your letter, you returned two of the several copies of this Plan of Development originally submitted; however, these copies do not reflect your approval nor that of the New Mexico Oil Conservation Commission and to date we have not received approved copies of this Third Plan of Development bearing your signature and approval in behalf of the New Mexico Oil Conservation Commission.

In the premise that there may have been a mix-up in the mails, we are returning herewith the two copies enclosed with your letter and shall appreciate your signing both copies and then pass same to the New Mexico Oil Conservation Commission for signature with the request that they be returned for our file.

Yours very truly,



F. E. Curtis, Jr.
District Landman

Enclosures
JWE:dch

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



THIRD PLAN OF DEVELOPMENT AND OPERATION
FOR
HACKBERRY HILLS UNIT AREA
EDDY COUNTY, NEW MEXICO

To: The Commissioner of Public Lands
State of New Mexico
Santa Fe, New Mexico

The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

RECEIVED
MAY 27 1963
U. S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

Gulf Oil Corporation, as Unit Operator for the Hackberry Hills Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for the Development and Operation of the Hackberry Hills Unit Area (No. 14-08-001-7348), respectfully submits for the approval of the State Land Commissioner, of the Supervisor, United States Geological Survey, and of the New Mexico Oil Conservation Commission, this Plan of Development and Operation for the unitized land for the period July 1, 1963 to December 31, 1963.

History of Previous Development: Hackberry Hills Unit Well No. 1, located 880 feet from the south line and 2130 feet from the east line of Section 1, Township 22 South Range 25 East, Eddy County, New Mexico, was spudded February 20, 1961 and drilled to a total depth of 11,536 feet. The well was completed August 15, 1961 through selective perforations within the interval 9622 - 9654 feet in the Canyon formation of Pennsylvanian age. The well tested 2841 MCFGPD plus 101 barrels condensate (61.5° corrected gravity). The open flow potential was 6800 MCFGPD. Application for a 640-acre participating area has been approved.

Pursuant to the initial Plan of Development and Operation approved in March, 1962, the Hackberry Hills Unit Well No. 2, located in the NW/4 NE/4 Section 7, Township 22 South, Range 26 East, was spudded December 30, 1962 and drilled to a total depth of 10,050 feet. No indications of commercial production were encountered in drilling this test and it was completed and plugged and abandoned as a dry hole on February 16, 1963.

The discovery well on this Unit has been shut-in since completion in the absence of a gas market. Unit Operator has been diligently attempting to obtain a market for the gas from this well and a purchaser has now agreed to take this gas provided the Unit participants will lay approximately eight miles of line to effect delivery into the purchaser's system. An evaluation study is now being made of this project, which study will include testing of the well over a period of time in an effort to determine the reservoir limits. Application for approval of this testing has been made and a favorable decision with regard thereto is anticipated following a hearing expected to be held in late June.

In consideration of conducting a reservoir limit test, copies of the results of which will be furnished to you, and the evaluation study in connection with the construction of a line to deliver production to the purchaser, Unit Operator does not contemplate additional drilling operations being conducted during the six months period covered by this Plan of Development

This Plan of Development and Operation shall constitute the further drilling and operating obligations of the Unit Operator of the Hackberry Hills Unit Agreement for the period ending December 31, 1963 and may be modified or supplemented from time to time with the approval of the State Land Commissioner, of the Supervisor, U.S.G.S., and of the New Mexico Oil Conservation Commission when necessary to meet changed conditions or to protect all parties to the Unit Agreement.

GULF OIL CORPORATION

By W. B. H. [Signature]
District Manager

APPROVED: Carl C. [Signature]
ACTING Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico
Subject to final approval by the
appropriate State officials.

DATE JUN 12 1963

APPROVED: [Signature]
Commissioner of Public Lands
Of The State of New Mexico

DATE June 24, 1963

APPROVED: [Signature]
New Mexico Oil Conservation Commission

DATE July 16, 1963

177

2 MAY 23 11 23

Drawer 1857
Roswell, New Mexico

2181
May 27, 1963

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Attention: Mr. M. I. Taylor

Gentlemen:

By letter of May 17, you request to be advised as to any objection this office may have to the flaring of gas produced during a reservoir limit test to be conducted on Hackberry Hills unit well No. 1 to determine whether sufficient reserves are available to justify the cost of a pipe line to a sales outlet for the unit gas. You estimate the stabilized flow rate of the well during the test will be approximately 3,000 MCF of gas per day.

This office has no objection to the flaring of the gas produced from the Hackberry Hills unit well No. 1 during the proposed reservoir limit test.

Sincerely yours,

(Orig.Sgd.) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

CC: Artesia (w/cy of Gulf's ltr.)
NMOCC-Santa Fe (Ltr. only) ✓

2181

16 Drawer 1857
Roswell, New Mexico
APR 11 AM 10 16

April 9, 1963

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Attention: Mr. F. E. Curtis, Jr.

Gentlemen:

We hereby acknowledge receipt of the following described ratifications and joinders to the Hackberry Hills unit, No. 14-08-0001-7348, Eddy County, New Mexico:

<u>Joinder</u>	<u>Date Received</u>	<u>Executed by</u>
unit agreement	April 8, 1963	Tenneco Corporation, overriding royalty owners in Federal unit tracts 15-a and 18
unit agreement	April 8, 1963	The Atchison, Topeka and Santa Fe Railway Company, reported basic royalty owners in fee land tract 43

Copies of the ratifications and joinders are being distributed to the appropriate Federal offices.

Very truly yours,

(Orig Sgd.) JOHN A. ANDERSON

JOHN A. ANDERSON
Regional Oil and Gas Supervisor

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

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

2181

January 17, 1963

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Attention: Mr. W. B. Hopkins

Re: Second Plan of Development
and Operation, January 1,
1963 to June 30, 1963,
Hackberry Hills Unit, Eddy
County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Second Plan of Development and Operation covering the period from January 1, 1963 to June 30, 1963 for the Hackberry Hills 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.

Four approved copies of the plan 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

PLAIN OFFICE 000

1953 JAN 14 AM 9 28

January 11, 1963

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Re: Hackberry Hills Unit
Agreement, Eddy County,
New Mexico

Attention: Mr. W. B. Hopkins

Gentlemen:

The Commissioner of Public Lands has approved as of this date your Second Plan of Development and Operation for the Hackberry Hills Unit Area, Eddy County, New Mexico.

We are handing to the Oil Conservation Commission by copy of this letter, five approved copies of this Plan Of Development and requesting them to forward at least three approved copies to you.

There was a seven (\$7.00) dollar filing fee due, you send us four (\$4.00) dollars, therefore, please send us and additional three (\$3.00) dollars at your earliest convenience.

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
Santa Fe, New Mexico

U.S. Geological Survey
Roswell, New Mexico

Gulf Oil Corporation

MAIN OFFICE OCC PRODUCTION DISTRICT

W. B. Hopkins
DISTRICT MANAGER
F. O. Mortlock
DISTRICT EXPLORATION
MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
H. C. Vivian
DISTRICT SERVICES MANAGER

January 9, 1963

1963 JAN 11 AM 8:25

P. O. Drawer 1938
Roswell, New Mexico

Hackberry Hills Unit
No. 14-08-0001-7348
Eddy County, New Mexico
File No. 3-00259

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

Attention: Mrs. Marian Rhea, Supervisor
Unit Division

Gentlemen:

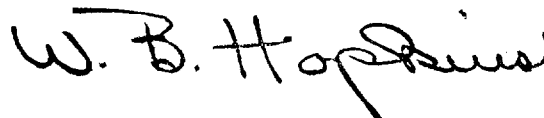
Enclosed please find seven original copies of "Second Plan of Development and Operation for the Hackberry Hills Unit Area, Eddy County, New Mexico" pursuant to Section 10 of the Unit Agreement bearing No. 14-08-0001-7348 which Plan was approved on behalf of the U.S.G.S. on January 7, 1963, as evidenced on all copies enclosed.

After your approval of this Second Plan of Development, we shall appreciate very much your passing the several copies thereof for approval on behalf of the New Mexico Oil Conservation Commission, with the request that after approval of the Commission they retain and return to you such copies as may be required for your respective files. We ask that at least three copies evidencing approval of all authorities be returned to us for our further handling.

We are also enclosing check in the amount of \$4.00 to cover charge for filing and handling this document.

As a matter of information, the well referred to in the fourth paragraph of this Plan of Development, which was provided in the initial Plan of Development, was spudded on December 30, 1962 and is now drilling below 2,030 feet. The location of this well is in the NW/4 NE/4 Section 7, Township 22 South, Range 26 East on State of New Mexico land.

Yours very truly,



W. B. Hopkins

Enclosures
JWE:ers

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



Drawer 1857
Roswell, New Mexico

January 7, 1963

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Attention: Mr. W. B. Hopkins

Gentlemen:

Your plan of development covering the first six months of 1963, for the Hackberry Hills unit agreement, Eddy County, New Mexico, proposing the drilling of no additional wells, has been approved on this date subject to like approval by the appropriate State officials.

Eight approved copies of the plan are enclosed.

Very truly yours,

(ORIGINAL) CARL C. TRAYWICK

CARL C. TRAYWICK
Acting Oil and Gas Supervisor

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

SECOND PLAN OF DEVELOPMENT AND OPERATION
FOR
HACKBERRY HILLS UNIT AREA
EDDY COUNTY, NEW MEXICO

36872

RECEIVED

JAN 11 1963

U. S. GEOLOGICAL SURVEY
ROSWELL, N. M.

To: The Commissioner of Public Lands
Of The State of New Mexico
Santa Fe, New Mexico

The Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico

Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

Gulf Oil Corporation, as Unit Operator for the Hackberry Hills Unit Area, pursuant to the provisions of Section 10 of the Unit Agreement for the Development and Operation of the Hackberry Hills Unit Area (No. 14-08-0001-7348), respectfully submits for the approval of the State Land Commissioner, of the Supervisor, United States Geological Survey, and of the New Mexico Oil Conservation Commission, this Plan of Development and Operation for the unitized land for the period January 1, 1963 to June 30, 1963.

History of Previous Development: Hackberry Hills Unit Well No. 1, located 880 feet from south line and 2130 feet from east line of Section 1, Township 22 South, Range 25 East, Eddy County, New Mexico, was spudded February 20, 1961 and drilled to a total depth of 11,536 feet. The well was completed August 15, 1961 through selective perforations within the interval 9622 - 9654 feet in the Canyon formation of Pennsylvanian age. The well tested 2841 MCFGPD plus 101 barrels condensate (61.5° corrected gravity). The open flow potential was 6800 MCFGPD. Application for a 640-acre participating area was approved.

The well on this Unit has been shut in since completion in the absence of a gas market. Despite the diligent and continuing efforts of Unit Operator to obtain a purchaser for the production, no market therefor now appears probable until late 1963.

Gulf Oil Corporation, as Unit Operator, is now preparing to drill Hackberry Hills Unit Well No. 2, as provided in the initial Plan of Development on State of New Mexico land in the NW/4 NE/4 Section 7, Township 22 South, Range 26 East. This well is projected to 10,000 feet to test the horizon found productive in the discovery well. It is anticipated this well will be completed in March, 1963.

In consideration of the conduct of drilling operations on Hackberry Hills Unit Well No. 2 extending into the first quarter of 1963, Unit Operator does not contemplate additional drilling operations being conducted during the six months period covered by this Plan of Development.

This Plan of Development and Operation shall constitute the further drilling and operating obligations of the Unit Operator under the Hackberry Hills Unit Agreement for the period ending June 30, 1963, and may be modified or supplemented from time to time with the approval of the State Land Commissioner, of the Supervisor U.S.G.S., and of the New Mexico Oil Conservation Commission when necessary to meet changed conditions or to protect all parties to the Unit Agreement.

GULF OIL CORPORATION

By W. B. H. Jones
District Manager

APPROVED: [Signature]
Acting Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico
Subject to like approval by the
appropriate State officials.

DATE JAN 7 1963

APPROVED: [Signature]
Commissioner of Public Lands
Of The State of New Mexico

DATE January 11, 1963

APPROVED: [Signature]
New Mexico Oil Conservation Commission

DATE Jan 12, 1963

RECEIVED
JAN 11 8 22 AM '63
SANTA FE, N. M.

OIL CONSERVATION COMMISSION

P. O. BOX 871

SANTA FE, NEW MEXICO

2181

April 12, 1962

C
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Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Attention: Mr. W. A. Shellshear

Re: Plan of Development and
Operation, Hackberry Hills
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 and Operation for the Hackberry Hills 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.

Two approved copies of the plan are returned herewith.

Very truly yours,

A. L. PORTER, Jr.
Secretary-Director

ALP/JEM/ig

cc: U. S. Geological Survey
Roswell, New Mexico

Commissioner of Public Lands
Santa Fe, New Mexico

2181

March 30, 1962

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Re: Plan of Development
and Operation, Hackberry
Hills Unit Area, Eddy
County, New Mexico

Attention: Mr. W. A. Shellshear

Gentlemen:

The Commissioner of Public Lands has approved, as of this date, the 1962 Plan of Development for the Hackberry Hills Unit, Eddy County, New Mexico.

We are handing by copy of this letter, two approved copies to the New Mexico Oil Conservation Commission for their consideration.

We note the United States Geological Survey, by acting Oil and Gas Supervisor approved this application as of March 19, 1962.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

ESW/mmr/v
cc: Oil Conservation Commission
Santa Fe, New Mexico

U. S. Geological Survey
Roswell, New Mexico

C
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2181

Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. A. Shellshear
DISTRICT MANAGER
F. O. Mortlock
DISTRICT EXPLORATION
MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
H. C. Vivian
DISTRICT SERVICES MANAGER

March 22, 1962

P. O. Drawer 1938
Roswell, New Mexico

Hackberry Hills Unit
No. 14-08-0001-7348
Eddy County, New Mexico
File No. 3-00259

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

Dear Sir:

Enclosed please find duplicate originals of "Plan of Development and Operation for the Hackberry Hills Unit Area, Eddy County, New Mexico", pursuant to Section 10 of the Unit Agreement bearing No. 14-08-0001-7348, which plan was approved on behalf of the U.S.G.S. on March 19, 1962, as evidenced on the copies enclosed.

After your approval of this Plan of Development, we shall appreciate very much your passing both copies thereof for approval on behalf of the New Mexico Oil Conservation Commission with the request that they return the approved copies to us for further handling. We will then furnish your office and that of the Oil Conservation Commission a photostatic copy bearing all approvals for your files.

We are also enclosing for your files a copy of the "Application for Approval of the Initial Participating Area for the Pennsylvanian Formation" applying to this Unit, which copy now includes a reproduction of the approval page evidencing approval by the Acting Director, U.S.G.S.

Yours very truly,



W. A. Shellshear

Enclosures
JWE:dd

cc: Oil Conservation Commission
State of New Mexico
Santa Fe, New Mexico

w/enclosure (Application for Approval
of Participating Area)

VE

GULF OIL CORPORATION

Roswell Production District
Post Office Drawer 1938
Roswell, New Mexico

MAIN OFFICE OCC
1002 PMT 23 AM 8:25

September 12, 1961

Re: Hackberry Hills Unit Area
No. 14-08-0001-7348
Eddy County, New Mexico

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

The Director
United States Geological Survey
Washington 25, D. C.

APPLICATION FOR APPROVAL OF INITIAL PARTICIPATING AREA
FOR THE PENNSYLVANIAN FORMATION

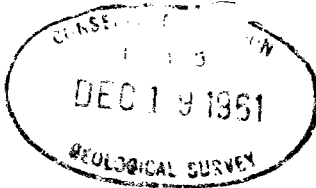
GULF OIL CORPORATION, as Unit Operator for the Hackberry Hills Unit Agreement, approved by the Director of the United States Geological Survey, effective February 27, 1961, and pursuant to the provisions of Section 11 thereof, respectfully submits for approval by the Commissioner of Public Lands of the State of New Mexico, and the Director of the United States Geological Survey, the selection of the following described lands regarded as reasonably proved to be productive of unitized substances in paying quantities to constitute the initial participating area for the Pennsylvanian producing zone or formation, to-wit:

Township 22 South, Range 25 East, N.M.P.M.

Section 1: S/2
Section 12: N/2
Containing 640 acres, more or less

In support of this application, the following numbered items are attached hereto and made a part hereof:

- (1) An ownership map showing the pertinent portion of the Unit Area and the boundaries thereof and showing in red the proposed initial participating area marked Exhibit "A".
- (2) A schedule showing the lands entitled to participate in the unitized substances produced from the Pennsylvanian formation with the percentage of participation of each lease or tract indicated thereon marked Exhibit "B".



The Commissioner of Public Lands

The Director, United States Geological Survey

September 12, 1961

The proposed initial participating area is predicated upon the knowledge and information obtained from the completion of Unit Well No. 1 flowing 2,841 MCFGPD through 17/64" choke with 101 barrels of 61.5° corrected gravity condensate in 21 hours, which, together with a calculated open flow potential of 6,800 MCFGPD, is considered as production in paying quantities under the terms of the Unit Agreement.

An effort is being made by applicant to secure a satisfactory contract for the sale of the gas and the date on which gas sales will be commenced is dependent upon the outcome of said efforts.

WHEREFORE, applicant respectfully requests that the Commissioner of Public Lands of the State of New Mexico and the Director of the United States Geological Survey approve the above selection of lands to constitute the initial Pennsylvanian formation participating area to be effective as of August 15, 1961, which is the date of completion of said Well No. 1.

Date Approved JAN - 4 1962

William R. Bohner
Acting Director, U. S. Geological Survey

GULF OIL CORPORATION

By W. A. Shellshar
Attorney in Fact

Law	<u>COM</u>
Comatr	
Eng	<u>EM</u>
Prod.	

Attachments
WVK:bc

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

Approved November 13, 1961
Esuolker
COMMISSIONER OF PUBLIC LANDS

Operator's Copy

RECEIVED
FEB - 6 1962
U. S. GEOLOGICAL SURVEY
SANTA FE, NEW MEXICO

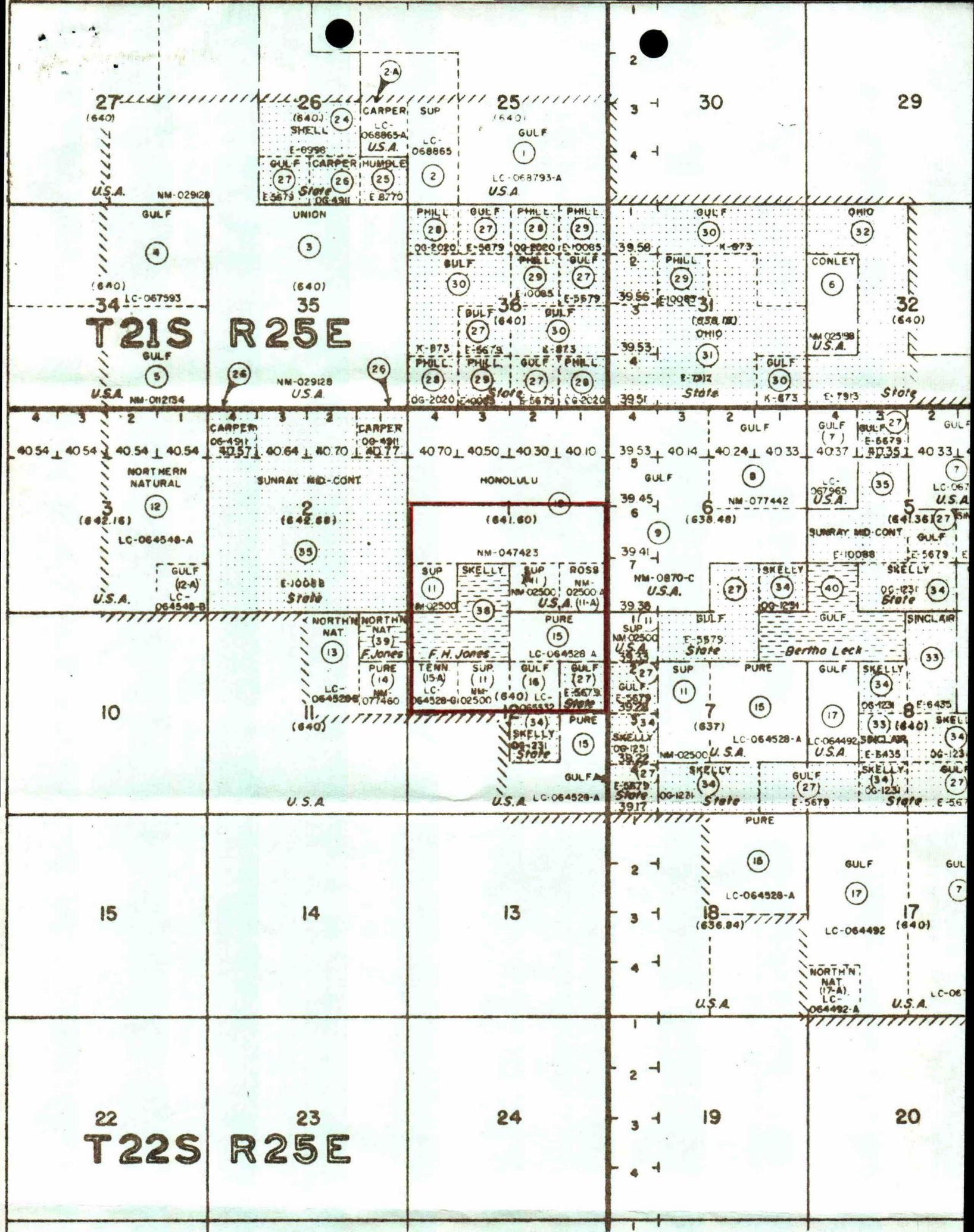


EXHIBIT "A"

ATTACHED TO THE APPLICATION FOR APPROVAL
 OF INITIAL PARTICIPATING AREA FOR THE
 PENNSYLVANIAN FORMATION
 HACKBERRY HILLS UNIT

EXHIBIT "B"

SCHEDULE

Lessee of Record:	Honolulu Oil Corporation
Working Interest Owner:	Honolulu Oil Corporation *
Serial Number and Tract Number:	NM-047423 (Tract No. 10)
Participating Acreage:	160 Acres
Percent of Participation:	160/640 - 25.00%
Description:	N/2 S/2 Section 1, T.22S., R.25E., NMPM
Lessee of Record:	Wm. G. Ross
Working Interest Owner:	Wm. G. Ross *
Serial Number and Tract Number:	NM-02500-A (Tract No. 11-A)
Participating Acreage:	40 Acres
Percent of Participation:	40/640 - 6.25%
Description:	SE/4 SE/4 Section 1, T.22S., R.25E., NMPM
Lessee of Record:	The Superior Oil Company
Working Interest Owner:	The Superior Oil Company *
Serial Number and Tract Number:	NM-02500 (Tract No. 11)
Participating Acreage:	120 Acres
Percent of Participation:	120/640 - 18.75%
Description:	SW/4 SW/4, SW/4 SE/4 Section 1 and SE/4 NW/4 Section 12, T.22S., R.25E., NMPM
Lessee of Record:	The Pure Oil Company
Working Interest Owner:	The Pure Oil Company *
Serial Number and Tract Number:	LC-064528-A (Tract No. 15)
Participating Acreage:	80 Acres
Percent of Participation:	80/640 - 12.50%
Description:	N/2 NE/4 Section 12, T.22S., R.25E., NMPM
Lessee of Record:	Tennessee Gas and Oil Company
Working Interest Owner:	Tennessee Gas and Oil Company *
Serial Number and Tract Number:	LC-064528 (Tract No. 15-A)
Participating Acreage:	40 Acres
Percent of Participation:	40/640 - 6.25%
Description:	SW/4 NW/4 Section 12, T.22S., R.25E., NMPM
Lessee of Record:	Gulf Oil Corporation
Working Interest Owner:	Gulf Oil Corporation *
Serial Number and Tract Number:	LC-065532 (Tract No. 16)
Participating Acreage:	40 Acres
Percent of Participation:	40/640 - 6.25%
Description:	SW/4 NE/4 Section 12, T.22S., R.25E., NMPM
Lessee of Record:	Gulf Oil Corporation
Working Interest Owner:	Gulf Oil Corporation *
Serial Number and Tract Number:	State E-5679 (Tract No. 27)
Participating Acreage:	40 Acres
Percent of Participation:	40/640 - 6.25%
Description:	SE/4 NE/4 Section 12, T.22S., R.25E., NMPM
Lessee of Record:	Skelly Oil Company
Working Interest Owner:	Skelly Oil Company
Serial Number and Tract Number:	Fee Land (Tract No. 38)
Participating Acreage:	120 Acres
Percent of Participation:	120/640 - 18.75%
Description:	SE/4 SW/4 Section 1 and N/2 NW/4 Section 12, T.22S., R.25E., NMPM

	<u>Acres</u>	<u>Percent</u>
Total Federal Lands	480	75.00%
Total State Lands	40	6.25%
Total Fee Lands	<u>120</u>	<u>18.75%</u>
Totals	640	100.00%

* Working Interest Owners and Percentage of Ownership in each Tract
listed in the foregoing Schedule pursuant to Unit Operating Agreement.

Gulf Oil Corporation	60.156018 %
The Pure Oil Company	5.040168 %
Phillips Petroleum Company	4.918420 %
Sunray Mid-Continent Oil Company	4.894550 %
The Ohio Oil Company	4.778135 %
Skelly Oil Company	4.584131 %
Honolulu Oil Corporation	4.116252 %
The Superior Oil Company	2.729325 %
Sinclair Oil & Gas Company	2.051288 %
Northern Natural Gas Producing Company	1.807847 %
Texaco Seaboard Inc.	1.538464 %
Tidewater Oil Company	1.512049 %
Texaco Inc.	1.025643 %
Ernest A. Hanson	0.683763 %
Wm. G. Ross	<u>0.163947 %</u>
	100.000000 %

2181

November 13, 1961

Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico

Re: Hackberry Hills Unit Area
Eddy County, New Mexico

Attention: W. A. Shellshear

Gentlemen:

The Commissioner of Public Lands has of this date approved the initial Participating Area for the Pennsylvanian formation.

We are enclosing five approved copies of this participating area and upon final approval please furnish us a fully approved copy.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

ESW/mmr/v

Encl:

cc: U. S. Geological Survey
Roswell, New Mexico

Oil Conservation Commission
Santa Fe, New Mexico

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Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

2181

W. A. Shellshear
DISTRICT MANAGER
F. O. Mortlock
DISTRICT EXPLORATION
MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
H. C. Vivian
DISTRICT SERVICES MANAGER

November 17, 1961

P. O. Drawer 1938
Roswell, New Mexico

Hackberry Hills Unit No.
14-08-0001-7348, Eddy County,
New Mexico

The Director
United States Geological Survey
The Department of the Interior

Through:
Regional Oil and Gas Supervisor
United States Geological Survey
Roswell, New Mexico

Gentlemen:

Enclosed please find five copies of Application For
Approval of Initial Participating Area For The Pennsylvanian
Formation dated September 12, 1961, in connection with the
subject Unit, bearing approval on November 13, 1961, of the
Commissioner of Public Lands of the State of New Mexico.

Yours very truly,
ORIGINAL SIGNED FOR
F. E. CURTIS, JR.
BY
J. W. EISERLOH
F. E. Curtis, Jr.
District Landman

JWE:ers
Enclosures



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

Commissioner of Public Lands
State of New Mexico
Post Office Box 791
Santa Fe, New Mexico
Attn: Mrs. Marian M. Rhea



Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. A. Shellshear
DISTRICT MANAGER
F. O. Mortlock
DISTRICT EXPLORATION
MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
H. C. Vivian
DISTRICT SERVICES MANAGER

September 21, 1961

P. O. Drawer 838 1938
Roswell, New Mexico

Case 2181

The Commissioner of Public Lands
State Land Office
Post Office Box 971
Santa Fe, New Mexico

Attention: Mrs. Marion Rhea
Unit Division

Re: Hackberry Hills Unit Area
No. 14-08-0001-7348
Eddy County, New Mexico

Gentlemen:

Enclosed herewith are six copies of our Application for Approval of Initial Participating Area for the Pennsylvanian formation, as a result of our successful completion of Well No. 1.

We would appreciate your approval of these instruments, returning five approved copies to our Roswell office for transmittal to the United States Geological Survey office. Upon approval by the Director in Washington, a copy evidencing all approvals will be returned for your file.

We have not yet adopted a formal Plan of Further Development, but at this time it is indicated that the probable location of Well No. 2 will be on or in proximity to State Lands in Section 7-22S-26E.

Yours very truly,

[Signature]
W. A. Shellshear

Enclosure
WVK:sz

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



GULF OIL CORPORATION

Roswell Production District
Post Office Drawer 1938
Roswell, New Mexico

September 12, 1961

Re: Hackberry Hills Unit Area
No. 14-08-0001-7348
Eddy County, New Mexico

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

The Director
United States Geological Survey
Washington 25, D. C.

APPLICATION FOR APPROVAL OF INITIAL PARTICIPATING AREA
FOR THE PENNSYLVANIAN FORMATION

GULF OIL CORPORATION, as Unit Operator for the Hackberry Hills Unit Agreement, approved by the Director of the United States Geological Survey, effective February 27, 1961, and pursuant to the provisions of Section 11 thereof, respectfully submits for approval by the Commissioner of Public Lands of the State of New Mexico, and the Director of the United States Geological Survey, the selection of the following described lands regarded as reasonably proved to be productive of unitized substances in paying quantities to constitute the initial participating area for the Pennsylvanian producing zone or formation, to-wit:

Township 22 South, Range 25 East, N.M.P.M.

Section 1: S/2
Section 12: N/2
Containing 640 acres, more or less

In support of this application, the following numbered items are attached hereto and made a part hereof:

- (1) An ownership map showing the pertinent portion of the Unit Area and the boundaries thereof and showing in red the proposed initial participating area marked Exhibit "A".
- (2) A schedule showing the lands entitled to participate in the unitized substances produced from the Pennsylvanian formation with the percentage of participation of each lease or tract indicated thereon marked Exhibit "B".

The Commissioner of Public Lands

The Director, United States Geological Survey

September 12, 1961

The proposed initial participating area is predicated upon the knowledge and information obtained from the completion of Unit Well No. 1 flowing 2,841 MCFGPD through 17/64" choke with 101 barrels of 61.5° corrected gravity condensate in 21 hours, which, together with a calculated open flow potential of 6,800 MCFGPD, is considered as production in paying quantities under the terms of the Unit Agreement.

An effort is being made by applicant to secure a satisfactory contract for the sale of the gas and the date on which gas sales will be commenced is dependent upon the outcome of said efforts.

WHEREFORE, applicant respectfully requests that the Commissioner of Public Lands of the State of New Mexico and the Director of the United States Geological Survey approve the above selection of lands to constitute the initial Pennsylvanian formation participating area to be effective as of August 15, 1961, which is the date of completion of said Well No. 1.

GULF OIL CORPORATION

By



Attorney in Fact

Attachments

WVK:bc

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

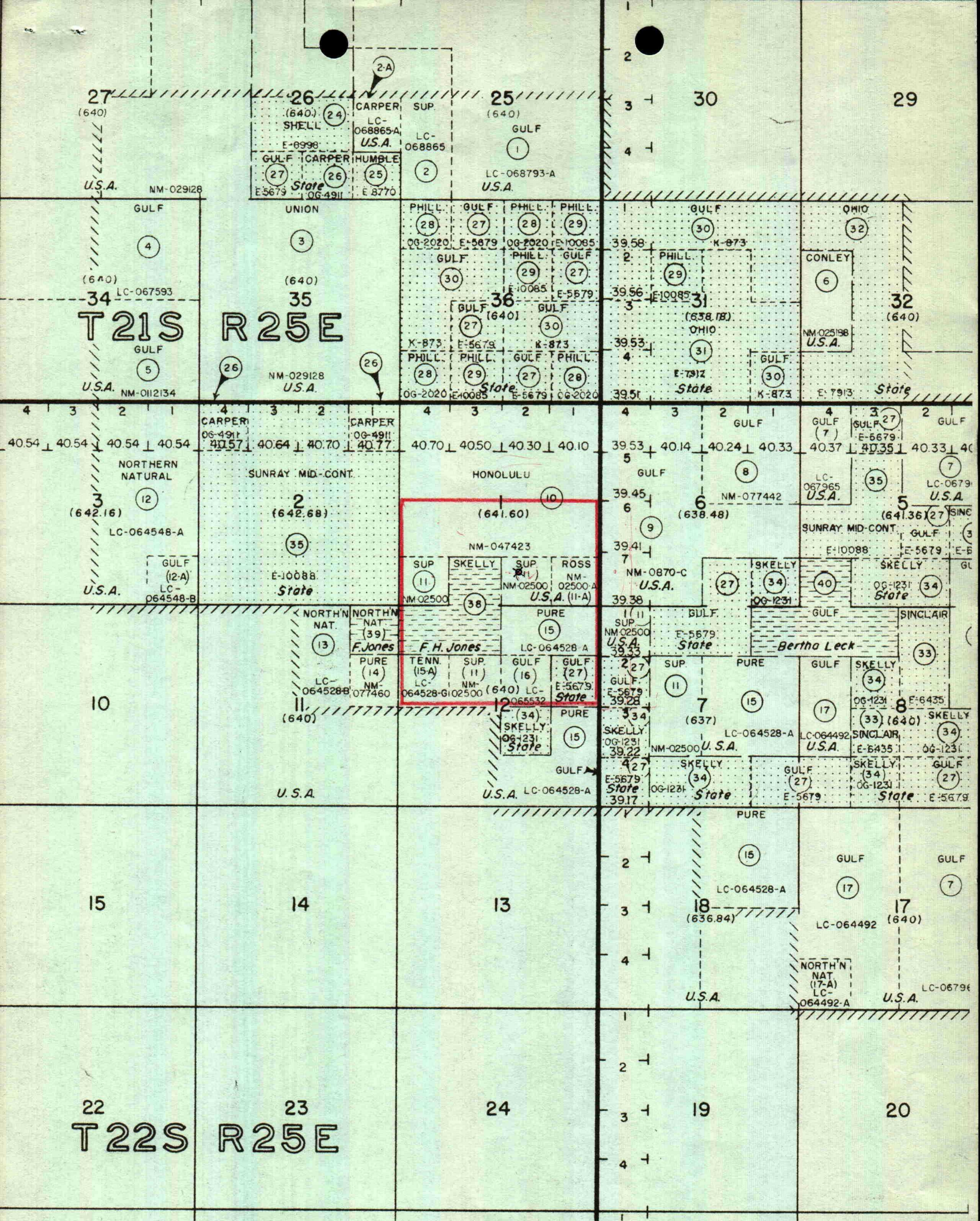


EXHIBIT "A"

ATTACHED TO THE APPLICATION FOR APPROVAL
 OF INITIAL PARTICIPATING AREA FOR THE
 PENNSYLVANIAN FORMATION
 HACKBERRY HILLS UNIT

EXHIBIT "B"

SCHEDULE

Lessee of Record:	Honolulu Oil Corporation
Working Interest Owner:	Honolulu Oil Corporation *
Serial Number and Tract Number:	NM-047423 (Tract No. 10)
Participating Acreage:	160 Acres
Percent of Participation:	160/640 - 25.00%
Description:	N/2 S/2 Section 1, T.22S., R.25E., NMPM
Lessee of Record:	Wm. G. Ross
Working Interest Owner:	Wm. G. Ross *
Serial Number and Tract Number:	NM-02500-A (Tract No. 11-A)
Participating Acreage:	40 Acres
Percent of Participation:	40/640 - 6.25%
Description:	SE/4 SE/4 Section 1, T.22S., R.25E., NMPM
Lessee of Record:	The Superior Oil Company
Working Interest Owner:	The Superior Oil Company *
Serial Number and Tract Number:	NM-02500 (Tract No. 11)
Participating Acreage:	120 Acres
Percent of Participation:	120/640 - 18.75%
Description:	SW/4 SW/4, SW/4 SE/4 Section 1 and SE/4 NW/4 Section 12, T.22S., R.25E., NMPM
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Working Interest Owner:	The Pure Oil Company *
Serial Number and Tract Number:	LC-064528-A (Tract No. 15)
Participating Acreage:	80 Acres
Percent of Participation:	80/640 - 12.50%
Description:	N/2 NE/4 Section 12, T.22S., R.25E., NMPM
Lessee of Record:	Tennessee Gas and Oil Company
Working Interest Owner:	Tennessee Gas and Oil Company *
Serial Number and Tract Number:	LC-064528 (Tract No. 15-A)
Participating Acreage:	40 Acres
Percent of Participation:	40/640 - 6.25%
Description:	SW/4 NW/4 Section 12, T.22S., R.25E., NMPM
Lessee of Record:	Gulf Oil Corporation
Working Interest Owner:	Gulf Oil Corporation *
Serial Number and Tract Number:	LC-065532 (Tract No. 16)
Participating Acreage:	40 Acres
Percent of Participation:	40/640 - 6.25%
Description:	SW/4 NE/4 Section 12, T.22S., R.25E., NMPM
Lessee of Record:	Gulf Oil Corporation
Working Interest Owner:	Gulf Oil Corporation *
Serial Number and Tract Number:	State E-5679 (Tract No. 27)
Participating Acreage:	40 Acres
Percent of Participation:	40/640 - 6.25%
Description:	SE/4 NE/4 Section 12, T.22S., R.25E., NMPM
Lessee of Record:	Skelly Oil Company
Working Interest Owner:	Skelly Oil Company
Serial Number and Tract Number:	Fee Land (Tract No. 38)
Participating Acreage:	120 Acres
Percent of Participation:	120/640 - 18.75%
Description:	SE/4 SW/4 Section 1 and N/2 NW/4 Section 12, T.22S., R.25E., NMPM

	<u>Acres</u>	<u>Percent</u>
Total Federal Lands	480	75.00%
Total State Lands	40	6.25%
Total Fee Lands	<u>120</u>	<u>18.75%</u>
Totals	640	100.00%

* Working Interest Owners and Percentage of Ownership in each Tract listed in the foregoing Schedule pursuant to Unit Operating Agreement.

Gulf Oil Corporation	60.156018 %
The Pure Oil Company	5.040168 %
Phillips Petroleum Company	4.918420 %
Sunray Mid-Continent Oil Company	4.894550 %
The Ohio Oil Company	4.778135 %
Skelly Oil Company	4.584131 %
Honolulu Oil Corporation	4.116252 %
The Superior Oil Company	2.729325 %
Sinclair Oil & Gas Company	2.051288 %
Northern Natural Gas Producing Company	1.807847 %
Texaco Seaboard Inc.	1.538464 %
Tidewater Oil Company	1.512049 %
Texaco Inc.	1.025643 %
Ernest A. Hanson	0.683763 %
Wm. G. Ross	<u>0.163947 %</u>
	100.000000 %

**In Reply: Refer
to Unit Division**

Case 2181

August 1, 1961

**Gulf Oil Corporation
P. O. Box 1938
Roswell, New Mexico**

**Re: Hackberry Hills Unit
Eddy County, New Mexico**

Gentlemen:

This office received a C-101, Intention to Drill on a well No. 1, which was to be located in the Southeast quarter of Section 1, Township-22 South, Range-25 East and was to be the first exploratory well on the Hackberry Unit.

This office has not received any further reports regarding the drilling of this well since February, therefore, we are assuming you did not start this well.

May we hear from you regarding this at your earliest convenience.

Very truly yours,

**E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS**

**BY:
Ted Bilberry, Supervisor
Oil & Gas Department**

**ESW/mmr/v
cc: Oil Conservation Commission, Santa Fe
U. S. Geological Survey, Roswell**

C
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In reply refer to:
Unit Division

FILED

February 13, 1961

Case # 2181

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Gulf Oil Corporation
P. O. Drawer 669
Roswell, New Mexico

Re: Hackberry Unit Agreement
Eddy County, New Mexico

Gentlemen:

The Commissioner of Public Lands has approved the Hackberry Unit Agreement, Eddy County, New Mexico, as of February 13, 1961.

We are handing to Mr. E. S. Greer, Representative for Gulf Oil Corporation, six Certificates of approval for this unit.

Your Official Receipt No. 58403 in the amount of \$145.00 is also enclosed.

Very truly yours,

E. S. JOHNNY WALKER
COMMISSIONER OF PUBLIC LANDS

ESW/mmr/s

cc: US Geological Survey
Roswell, New Mexico

OCC- Santa Fe, New Mexico

Gulf Oil Corporation

LAW DEPARTMENT

David T. Searls
VICE PRESIDENT
AND GENERAL COUNSEL
PITTSBURGH, PA.

David W. Stephens
DIVISIONAL ATTORNEY
MIDLAND, TEXAS

William V. Kastler

P. O. Box 669
Roswell, New Mexico

February 14, 1961

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

Attention: D. S. Nutter
Chief Engineer

Dear Dan:

I am enclosing two copies of our Exhibit No. 1 in our
Case No. 2181 as promised last Thursday.

Best regards.

Very truly yours,



William V. Kastler

WVK:ejl

Enclosures

