

BEFORE THE OIL AND GAS CONSERVATION BOARD

DEPARTMENT OF NATURAL RESOURCES

STATE OF UTAH

IN THE MATTER OF THE APPLI-	:	
CATION OF THE SHAMROCK OIL	:	<u>FINDINGS OF FACT,</u>
& GAS CORPORATION FOR AN	:	
ORDER ESTABLISHING DRILLING	:	<u>CONCLUSIONS AND ORDER</u>
UNITS FOR THE COYOTE BASIN	:	
FIELD, UINTAH COUNTY, UTAH,	:	<u>CAUSE NO. 129-1</u>
AS TO THE KNOWN PRODUCING	:	
ZONES OF THE GREEN RIVER FOR-	:	
MATION.	:	

THIS CAUSE came on regularly for hearing before this Board at 11:00 a.m., Wednesday, September 13, 1967, in the offices of the Board of Oil and Gas Conservation, 348 East South Temple, Suite 301, Salt Lake City, Utah, upon the application of The Shamrock Oil & Gas Corporation.

The following Commissioners were present: Delbert M. Draper Jr., Chairman, C. F. Henderson, G. N. Cardon, R. R. Norman, W. D. Yardley.

Hugh C. Garner, attorney, Salt Lake City, Utah, appeared on behalf of Applicant, The Shamrock Oil & Gas Corporation.

Also present were C. B. Feight and Paul W. Burchell, Division of Oil and Gas Conservation, and Rodney Smith, District Engineer, United States Geological Survey, Salt Lake City, Utah.

Mr. Burke Isbell, Geologist, The Shamrock Oil & Gas Corporation, was qualified and received as an expert witness. His testimony, which was not challenged, described the leasehold ownership pattern within the Coyote Basin Field, the location of oil wells drilled therein, the geology of the Coyote Basin

Field, and correlation between various wells of producing zones in the Green River Formation in demonstration that common accumulations of oil in said known producing zones constituted a pool or pools underlying said lands.

Mr. Curtis O'Rear, Senior Petroleum Engineer, The Shamrock Oil & Gas Corporation, was qualified and received as an expert witness. His testimony, which was not challenged, described the monthly oil production, in barrels, from the Coyote Basin Field, Uintah County, Utah, from wells drilled by said Applicant, The Shamrock Oil & Gas Corporation, and completion costs. In addition, Mr. O'Rear testified with respect to the economics of the development of said Coyote Basin Field on the basis of eighty acre spacing units, the efficiency of such spacing units in effecting the optimum recovery of oil therefrom.

From the testimony adduced at said hearing and from the records and files in this case, which are made a part hereof by reference, this Board now makes the following Findings of Fact and Conclusions, together with its Order herein:

FINDINGS OF FACT

This Board finds that:

1. Due notice of the time, place and purpose of the hearing has been given in all respects as required by law; proof of the publication of such notice in the Salt Lake Tribune, a newspaper of general circulation in the city of Salt Lake, County of Salt Lake, Utah, and the Vernal Express, Vernal, Utah, the only newspaper of general circulation in Uintah County, Utah, is on file with the Board.

2. This Board has jurisdiction over the matter embraced in said Application and over all parties interested therein and has jurisdiction to make and promulgate the Order hereinafter set out.

3. The Applicant, The Shamrock Oil & Gas Corporation, is a corporation authorized to do business in this State and presently is and has been engaged in the drilling and development of various oil and gas properties within this State.

4. The Green River Formation is present and generally underlies the following described area from which production of oil has been obtained or is reasonably believed to be obtainable:

Township 7 South, Range 25 East, S. L. M.

Section 31: S $\frac{1}{2}$
Section 32: S $\frac{1}{2}$
Section 33: S $\frac{1}{2}$

Township 8 South, Range 24 East, S. L. M.

Section 1: NE $\frac{1}{4}$, S $\frac{1}{2}$
Section 12: All
Section 13: All
Section 23: All
Section 24: All

Township 8 South, Range 25 East, S. L. M.

Section 4: All
Section 5: All
Section 6: All
Section 7: All
Section 8: All
Section 9: All
Section 17: All
Section 18: All
Section 19: N $\frac{1}{2}$

5. Various wells have been drilled and completed in the lands above described and have produced or are capable of producing oil from the known producing zones of the Green River Formation.

6. There is available, at this time, sufficient geologic information to demonstrate that the area involved is a stratographic trap and that the several sand lenses identified as the upper and lower sands in the Douglas Creek member of the Green River Formation, which are productive of oil, can be generally correlated over the area and appear to be continuous in nature.

CONCLUSIONS

This Board concludes that it is feasible at this time to establish drilling and spacing units of an approximate eighty (80) acres in size covering the lands heretofore described, that one well will adequately and sufficiently drain, in accordance with good conservation practice, the oil recoverable from the known producing zones of the Green River Formation underlying eighty (80) acres of the spacing area and, by so doing, avoid the drilling of unnecessary wells, prevent waste and protect correlative rights.

ORDER

It is therefore ordered by this Board that:

1. Drilling and spacing units of an approximate eighty (80) acres be and the same are hereby established for the production of oil from the Green River Formation under those lands hereinabove more particularly described.

2. The eighty (80) acre drilling and spacing units (approximate) shall be and the same are formed and designated as follows:

Drilling
Unit No.

Description of
Drilling Unit

Drilling
Unit No.

Description of
Drilling Unit

T. 7 S., R. 25 E., S1M

1 Sec. 33: E₁SE₄
 2 Sec. 33: W₁SE₄
 3 Sec. 33: E₁SW₄
 4 Sec. 33: W₁SW₄
 5 Sec. 32: E₁SE₄
 6 Sec. 32: W₁SE₄
 7 Sec. 32: E₁SW₄
 8 Sec. 32: W₁SW₄
 9 Sec. 31: E₁SE₄
 10 Sec. 31: W₁SE₄
 11 Sec. 31: E₁SW₄
 12 Sec. 31: W₁SW₄

T. 8 S., R. 24 E., S1M

13 Sec. 1: W₁SW₄
 14 Sec. 1: E₁SW₄

T. 8 S., R. 25 E., S1M

15 Sec. 6: W₁SW₄
 16 Sec. 6: E₁SW₄
 17 Sec. 6: W₁SE₄
 18 Sec. 6: E₁SE₄
 19 Sec. 5: W₁SW₄
 20 Sec. 5: E₁SW₄
 21 Sec. 5: W₁SE₄
 22 Sec. 5: E₁SE₄
 23 Sec. 4: W₁SW₄
 24 Sec. 4: E₁SW₄
 25 Sec. 4: W₁SE₄
 26 Sec. 4: E₁SE₄
 27 Sec. 4: W₁SW₄
 28 Sec. 4: E₁SW₄
 29 Sec. 4: W₁SE₄
 30 Sec. 4: E₁SE₄
 31 Sec. 5: E₁SE₄
 32 Sec. 5: W₁SE₄
 33 Sec. 5: E₁SW₄
 34 Sec. 5: W₁SW₄
 35 Sec. 6: E₁SE₄
 36 Sec. 6: W₁SE₄
 37 Sec. 6: E₁SW₄
 38 Sec. 6: W₁SW₄

T. 8 S., R. 24 E., S1M

39 Sec. 1: E₁SE₄
 40 Sec. 1: W₁SE₄
 41 Sec. 1: E₁SW₄

T. 8 S., R. 24 E., S1M

42 Sec. 1: W₁SW₄
 43 Sec. 12: W₁SW₄
 44 Sec. 12: E₁SW₄
 45 Sec. 12: W₁SE₄
 46 Sec. 12: E₁SE₄

T. 8 S., R. 25 E., S1M

47 Sec. 7: W₁SW₄
 48 Sec. 7: E₁SW₄
 49 Sec. 7: W₁SE₄
 50 Sec. 7: E₁SE₄
 51 Sec. 8: W₁SW₄
 52 Sec. 8: E₁SW₄
 53 Sec. 8: W₁SE₄
 54 Sec. 8: E₁SE₄
 55 Sec. 9: W₁SW₄
 56 Sec. 9: E₁SW₄
 57 Sec. 9: W₁SE₄
 58 Sec. 9: E₁SE₄
 59 Sec. 9: W₁SW₄
 60 Sec. 9: E₁SW₄
 61 Sec. 9: W₁SE₄
 62 Sec. 9: E₁SE₄
 63 Sec. 8: E₁SE₄
 64 Sec. 8: W₁SE₄
 65 Sec. 8: E₁SW₄
 66 Sec. 8: W₁SW₄
 67 Sec. 7: E₁SE₄
 68 Sec. 7: W₁SE₄
 69 Sec. 7: E₁SW₄
 70 Sec. 7: W₁SW₄

T. 8 S., R. 24 E., S1M

71 Sec. 12: E₁SE₄
 72 Sec. 12: W₁SE₄
 73 Sec. 12: E₁SW₄
 74 Sec. 12: W₁SW₄
 75 Sec. 13: W₁SW₄
 76 Sec. 13: E₁SW₄
 77 Sec. 13: W₁SE₄
 78 Sec. 13: E₁SE₄

T. 8 S., R. 25 E., S1M

79 Sec. 18: W₁SW₄
 80 Sec. 18: E₁SW₄
 81 Sec. 18: W₁SE₄
 82 Sec. 18: E₁SE₄

<u>Drilling Unit No.</u>	<u>Description of Drilling Unit</u>	<u>Drilling Unit No.</u>	<u>Description of Drilling Unit</u>
<u>T. 8 S., R. 25 E., SLM</u>		<u>T. 8 S., R. 24 E., SLM</u>	
83	Sec. 17: W $\frac{1}{2}$ NW $\frac{1}{4}$	103	Sec. 24: W $\frac{1}{2}$ NW $\frac{1}{4}$
84	Sec. 17: E $\frac{1}{2}$ NW $\frac{1}{4}$	104	Sec. 24: E $\frac{1}{2}$ NW $\frac{1}{4}$
85	Sec. 17: W $\frac{1}{2}$ NE $\frac{1}{4}$	105	Sec. 24: W $\frac{1}{2}$ NE $\frac{1}{4}$
86	Sec. 17: E $\frac{1}{2}$ NE $\frac{1}{4}$	106	Sec. 24: E $\frac{1}{2}$ NE $\frac{1}{4}$
87	Sec. 17: E $\frac{1}{2}$ SE $\frac{1}{4}$		
88	Sec. 17: W $\frac{1}{2}$ SE $\frac{1}{4}$		<u>T. 8 S., R. 25 E., SLM</u>
89	Sec. 17: E $\frac{1}{2}$ SW $\frac{1}{4}$		
90	Sec. 17: W $\frac{1}{2}$ SW $\frac{1}{4}$	107	Sec. 19: W $\frac{1}{2}$ NW $\frac{1}{4}$
91	Sec. 18: E $\frac{1}{2}$ SE $\frac{1}{4}$	108	Sec. 19: E $\frac{1}{2}$ NW $\frac{1}{4}$
92	Sec. 18: W $\frac{1}{2}$ SE $\frac{1}{4}$	109	Sec. 19: W $\frac{1}{2}$ NE $\frac{1}{4}$
93	Sec. 18: E $\frac{1}{2}$ SW $\frac{1}{4}$	110	Sec. 19: E $\frac{1}{2}$ NE $\frac{1}{4}$
94	Sec. 18: W $\frac{1}{2}$ SW $\frac{1}{4}$		
	<u>T. 8 S., R. 24 E., SLM</u>		<u>T. 8 S., R. 24 E., SLM</u>
		111	Sec. 24: E $\frac{1}{2}$ SE $\frac{1}{4}$
95	Sec. 13: E $\frac{1}{2}$ SE $\frac{1}{4}$	112	Sec. 24: W $\frac{1}{2}$ SE $\frac{1}{4}$
96	Sec. 13: W $\frac{1}{2}$ SE $\frac{1}{4}$	113	Sec. 24: E $\frac{1}{2}$ SW $\frac{1}{4}$
97	Sec. 13: E $\frac{1}{2}$ SW $\frac{1}{4}$	114	Sec. 24: W $\frac{1}{2}$ SW $\frac{1}{4}$
98	Sec. 13: W $\frac{1}{2}$ SW $\frac{1}{4}$	115	Sec. 23: E $\frac{1}{2}$ SE $\frac{1}{4}$
99	Sec. 23: W $\frac{1}{2}$ NW $\frac{1}{4}$	116	Sec. 23: W $\frac{1}{2}$ SE $\frac{1}{4}$
100	Sec. 23: E $\frac{1}{2}$ NW $\frac{1}{4}$	117	Sec. 23: E $\frac{1}{2}$ SW $\frac{1}{4}$
101	Sec. 23: W $\frac{1}{2}$ NE $\frac{1}{4}$	118	Sec. 23: W $\frac{1}{2}$ SW $\frac{1}{4}$
102	Sec. 23: E $\frac{1}{2}$ NE $\frac{1}{4}$		

3. No more than one well shall be drilled on any such unit for the production of oil from said known producing zones of the Green River Formation.

4. Except as may hereafter otherwise be ordered by the Commission after notice and hearing, the location of a permitted well for each drilling unit in those instances where a drilling unit is now ^(not) presently drilled, shall be at a location approximating the center of the NE $\frac{1}{4}$ and the SW $\frac{1}{4}$ of each quarter section.

5. The permissible drilling location for any said so-established drilling unit shall be located not closer than 500 feet from the exterior lines of the legal subdivision within which the permitted well is to be located. An exception to the foregoing is hereby allowed in those instances where, upon application filed in due form, it is shown to this Board that the necessity for a

location nearer than 500 feet from the exterior lines of said legal subdivision exists for reasons of topography. Such exception shall be allowed, without notice and hearing, upon a showing of consent from the operators of all other drilling units within said pool adjoining or cornering that drilling unit containing such unorthodox location.

6. The following existing wells are designated the drilling unit wells for the indicated drilling unit:

<u>Drilling Unit</u>	<u>Well No./Designation</u>
19	2-5
20	1
30	Pan American
35	1-6
36	4-6
45	1-12
47	Amerada
76	1-13
95	2-13
73	Belco


7. The wells hereinabove designated as Nos. 1 and 2-5 located, respectively, in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 5, and the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 5, Township 8 South, Range 25 East, are hereby allowed as exceptions to the herein established well spacing program. No wells other than those so designated as Drilling Unit Wells for Drilling Units 19 and 20 shall be drilled therein.

8. This Order shall be in effect until further order of this Board.

9. This Board retains continuing jurisdiction over all matters covered by this Order.

DATED this 13th day of September, 1967.

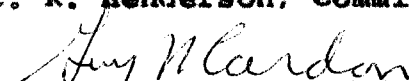
STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
OIL AND GAS CONSERVATION BOARD



D. M. Draper Jr., Chairman



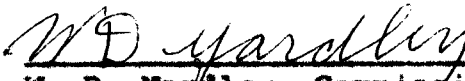
C. R. Henderson, Commissioner



G. N. Cardon, Commissioner



R. R. Norman, Commissioner



W. D. Yardley, Commissioner