

Wmoco. Hobbs

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P. O. Box 3527
Midland, Texas

May 5, 1960

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

Dual Completion and Commingling
TEXACO Inc., C. H. Lockhart (NCT-1)
Well No. 2, Unit "D", Section 18,
T-22-S, R-38-E, Lea County,
New Mexico

Attention: Mr. A. L. Porter, Jr.

Gentlemen:

Administrative approval to dually complete the C. H. Lockhart (NCT-1) Well No. 2 as a Blinbry (Oil) and Tubb (Gas) well was granted TEXACO Inc. by dual completion order DC-900 dated February 8, 1960. Work was completed on this well on April 6, 1960. Tests taken during completion indicated oil gravities ranging from 46.5° API to 45.4° API, with gas-oil ratios ranging from 19,994 to 1 to 4259 to 1, the oil gravities thus defining the well as a gas well. A typical test was shown on the packer leakage test submitted April 4, 1960, wherein 34 barrels of 45.4° API oil was produced from the Tubb in four hours and 45 minutes at a gas-oil ratio of 4259 to 1.

Subsequent testing indicates the Tubb completion in the subject well to be an oil well as defined in Rule 16, Order No. R-586-B, dated September 9, 1957, Tubb Gas Pool rules. Attached are results of a multi-point back pressure test taken by El Paso Natural Gas Company on April 19, 1960, during which the well produced 219 barrels of 40.9° API oil in 34 hours at an average gas-oil ratio of 2000 to 1. Also attached is a Form C-116 showing a test dated May 4, 1960, when the well produced 68 barrels of 40.5° API oil at a gas-oil ratio of 2150 to 1.

In view of the facts recited above, it is respectfully requested that dual completion order DC-900 be applied to the subject dual completion in the Blinbry (Oil) and Tubb (Oil)

Pools. Comparable duals exist, one of which is TEXACO Inc. Mittie Weatherly Well No. 2, located in Unit "E", Section 17, T-21-S, R-37-E, Lea County, New Mexico.

In addition, approval was granted by Administrative Order PC-4 dated April 18, 1960, to commingle oil production on the C. H. Lockhart (NCT-1) Lease from the Blinebry (Oil), Tubb (Gas) and Drinkard Pools. At the time the commingling application was made on March 21, 1960, available data indicated a \$0.24 per day gain would be realized from commingling operations; however, due to the apparent decrease in Tubb oil gravity, the Blinebry, Tubb and Drinkard oils are all within the same price gravity range, and neither a gain nor loss will be realized through commingling. It is, therefore, respectfully requested that Administrative Order PC-4 be continued in effect.

Your early consideration in this matter will be appreciated.

Yours very truly,


J. G. Blevins, Jr.
Assistant District Superintendent

LMP-MAB
KRF, Jr.

cc: NMOCC, Hobbs, New Mexico

Attachments

Pools. Comparative data exist, one of which is TEXACO INC. Well No. 2, located in Unit 2, Section 17, T-2N-2, R-3E-2, Las County, New Mexico.

In addition, approval was granted by Administrative Order 90-4 dated April 10, 1960, to commence oil production on the O. H. Woodhart (NCT-1) Lease from the Blinney (Oil) Lease (see) and Woodhart Pools. At the time the commencing application was made on March 21, 1960, available data indicated a \$0.24 per barrel loss to the applicant from commencing operations. The loss to the applicant decrease in full oil gravity, the Blinney, Woodhart and Woodhart Pools are all within the same price gravity range, and neither a gain nor loss will be realized through commencing. It is therefore respectfully requested that Administrative Order 90-4 be continued in effect.

No further consideration in this matter will be appreciated.

Yours very truly,

J. A. Hawkins, Jr.
Assistant District Superintendent

SAW-142
JAW: jpr.

cc: NMOC, Hobbs, New Mexico

Attorneys

NEW MEXICO OIL CONSERVATION COMMISSION

100 MAY 9 AM 7:47

GAS-OIL RATIO REPORT

OPERATOR **TEXACO Inc.** POOL **Tubb**
ADDRESS **P. O. Box 352, Midland, Texas** MONTH OF **May**, 19**60**
SCHEDULED TEST _____ COMPLETION TEST _____ SPECIAL TEST **X** (Check One)
(See Instructions on Reverse Side)

Lease	Well No.	Date of Test	Producing Method	Choke Size	Test Hours	Daily Allowable Bbls.	Production During Test			GOR Cu. Ft. Per Bbl.
							Water Bbls.	Oil Bbls.	Gas MCF	
C. H. Leekhart (NCT-1)	2	<u>1960</u>	F	24/64	8	-	0	68	146	2150
		5-4								

Gravity of oil produced = 40.5° API @ 60° F.

No well will be assigned an allowable greater than the amount of oil produced on the official test.

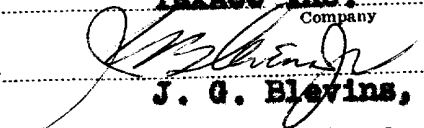
During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in order that well can be assigned increased allowables when authorized by the Commission.

Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60 degrees F. Specific gravity base will be 0.60.

Mail original and one copy of this report to the district office of the New Mexico Oil Conservation Commission. In accordance with Rule 301 and Appropriate Pool Rules.

(I certify that the information given is true and complete to the best of my knowledge.)

Date **May 5, 1960**

TEXACO Inc.
Company
By 
J. G. Blevins, Jr.
Asst. Dist. Supt.

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tubb Gas Formation Tubb County LeaInitial X Annual _____ Special _____ Date of Test 4-19-60Company Texaco, Inc. Lease G. H. Lockhart (MCT-1) Well No. 2Unit D Sec. 18 Twp. 22 Range 38 Purchaser NoneCasing 7 Wt. 23.0 I.D. 6.366 S.C. 6359 Perf. 6128 To 6134Tubing 2 3/8 Wt. 4.7 I.D. 1.995 S.C. 6123 Perf. 6172 To 6183Gas Pay: From 6128 To 6210 L 6128 x Mix 1.65 = GL 4290 Bar. Press. 13.2Producing Thru: Casing _____ Tubing X Type Well Gas - Oil Dual

Single-Bradenhead-G. G. or G. O. Dual

Date of Completion: 4-6-60 Packer: 6055

No.	Flow Data				Temp. °F.	Tubing Data		Casing Data		Duration of Flow Hr.
	Prover Size	x Orifice Size	Press. psia	Choke		Press. psia	Temp. °F.	Press. psia	Temp. °F.	
SI						<u>1536</u>				<u>72</u>
1.	<u>2</u>	<u>X</u>	<u>.750</u>	<u>17</u>	<u>10/64</u>	<u>76</u>	<u>811</u>	<u>50</u>		<u>3</u>
2.	<u>2</u>	<u>X</u>	<u>.750</u>	<u>21</u>	<u>12/64</u>	<u>82</u>	<u>790</u>	<u>54</u>		<u>3</u>
3.	<u>2</u>	<u>X</u>	<u>.750</u>	<u>30</u>	<u>20/64</u>	<u>73</u>	<u>350</u>	<u>53</u>		<u>3</u>
4.	<u>2</u>	<u>X</u>	<u>.750</u>	<u>35</u>	<u>30/64</u>	<u>64</u>	<u>150</u>	<u>58</u>		<u>3</u>
5.	<u>2</u>	<u>X</u>	<u>.750</u>	<u>8</u>	<u>10/64</u>	<u>60</u>	<u>838</u>	<u>56</u>		<u>22</u>

Slope too flat. A slope of 1.000 was drawn through 24 hours point

No.	Coefficient (24-Hour)	$\sqrt{h_w P_w}$	Pressure psia	Flow Temp. Factor °F	Gravity Factor °g	Compress. Factor Fpv	Rate of Flow Q-MCFPD ± 15.025 psia
1.	<u>12.2023</u>		<u>30.2</u>	<u>.9850</u>	<u>.9258</u>		<u>336.1</u>
2.	<u>12.2023</u>		<u>34.2</u>	<u>.9795</u>	<u>.9258</u>		<u>378.4</u>
3.	<u>12.2023</u>		<u>43.2</u>	<u>.9877</u>	<u>.9258</u>		<u>482.0</u>
4.	<u>12.2023</u>		<u>48.2</u>	<u>.9962</u>	<u>.9258</u>		<u>542.4</u>
5.	<u>12.2023</u>		<u>21.2</u>	<u>1.0000</u>	<u>.9258</u>		<u>239.5</u>

Gas Liquid Hydrocarbon Ratio 2.0 Molal L. Specific Gravity Separator Gas .700 (Assumed)Gravity of Liquid Hydrocarbons 40.9 @ 60 deg. Specific Gravity Flowing Fluid .8207F_c 5.866 (1-e^{-S}) .501 P_c 1549.2 P₂ 2400.0

Well made 96 bbls oil on 12 hrs. test and 123 bbls. on 22 hrs. point.

No.	$\frac{P_1}{P_t}$ P _t (psia)	P _t	P _c ² - P _t ²	F _c Q	(F _c Q) ²	(F _c Q) ² (1-e ^{-S})	P _w ²	P _c ² - P _w ²
1.	<u>824.2</u>	<u>679.3</u>	<u>1720.7</u>	<u>1.97</u>	<u>3.88</u>	<u>1.94</u>	<u>681.2</u>	<u>1718.8</u>
2.	<u>803.2</u>	<u>645.1</u>	<u>1754.9</u>	<u>2.22</u>	<u>4.93</u>	<u>2.47</u>	<u>647.6</u>	<u>1752.4</u>
3.	<u>363.2</u>	<u>131.9</u>	<u>2268.1</u>	<u>2.83</u>	<u>8.01</u>	<u>4.01</u>	<u>135.9</u>	<u>2264.1</u>
4.	<u>163.2</u>	<u>26.6</u>	<u>2373.4</u>	<u>3.18</u>	<u>10.11</u>	<u>5.06</u>	<u>31.7</u>	<u>2368.3</u>
5.	<u>851.2</u>	<u>724.5</u>	<u>1675.5</u>	<u>1.40</u>	<u>1.96</u>	<u>.98</u>	<u>725.5</u>	<u>1674.5</u>

Wellhead Potential: 340 MCFPD: 45.0 n_t 1.000 Conducted by: L. D. SouthernPotential: 340 MCFPD: 45.0 n 1.000 Witnessed by: _____Calculated by: L. D. Southern

Texaco, Inc.
 C. H. Lockhart (NCT-1) No. 2
 Sec. 16, Twp. 22, Rge. 38
 Les County, A. M.
 April, 19, 1960

