

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Permian County San Juan
 Initial X Annual _____ Special _____ Date of Test 11-2-60
 Company Texaco, Inc. Lease H. J. Joe Well No. 3
 Unit M Sec. 23 Twp. 29N Rge. 12W Purchaser _____
 Casing 4 1/2 Wt. 9.5 I.D. 4.000 Set at 6219 Perf. 5970 To 6068
 Tubing 2 3/8 Wt. 4.2 I.D. 1.00 Set at 6077 Perf. 0 Perforated To _____
 Gas Pay: From _____ To _____ L _____ XG _____ -GL _____ Bar. Press. _____
 Producing Thru: Casing _____ Tubing X Type Well Single Gas
 Single-Bradenhead-G. G. or G.O. Dual _____
 Date of Completion: 11-2-60 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Choke) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Choke) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.						2103	68	2124	68	7 Days
2.						611	68	1450		3 Hours
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	12.365		623	.9924	.9759	1.057	7886
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 P_c _____ (1-e^{-s})
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 2136 P_c 4562,496

No.	P _w P _t (psia)	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	Cal. P _w	P _w P _c
1.						2079364	2483132		
2.									
3.									
4.									
5.									

Absolute Potential: 12445 MCFPD; n .75
 COMPANY Well Production Company
 ADDRESS N. A. NEELY, OWNER
 AGENT and TITLE 1041 ZUNI DRIVE
 WITNESSED PERMISSION, NEW MEXICO
 COMPANY _____

REMARKS

4562496
4562496 - 2,079,364
1.75
1.8374 = 1.5781



BEFORE THE OIL CONSERVATION COMMISSION
OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW MEXICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 2065
Order No. R-1768

APPLICATION OF TEXACO INC.
FOR A "SLIM-HOLE" OIL-GAS
DUAL COMPLETION IN AN UN-
DESIGNATED GALLUP OIL POOL
AND IN THE DAKOTA PRODUCING
INTERVAL, SAN JUAN COUNTY,
NEW MEXICO.

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on September 7, 1960, at Santa Fe, New Mexico, before Elvis A. Utz, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 16th day of September, 1960, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Elvis A. Utz, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Texaco Inc., is the owner and operator of the H. J. Loe Federal "B" Well No. 3, located in Unit M, Section 23, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico.
- (3) That the applicant proposes to dually complete the said H. J. Loe Federal "B" Well No. 3 in such a manner as to permit the production of oil from an undesignated Gallup oil pool and the production of gas from the Dakota Producing Interval through parallel strings of 2-3/8 inch casing and 4-1/2 inch casing, respectively, cemented in a common well bore. Applicant proposes to produce the Dakota gas through 2-3/8 inch tubing installed within the 4-1/2 inch casing.

(4) That in order to protect the productive horizons, cement should extend from total depth to a point 600 feet above the top of the Gallup formation, and from a depth of 1700 feet to a point 200 feet above the top of the Pictured Cliffs formation.

(5) That centralizers or turbolizers should be installed at 30-foot intervals throughout the Dakota, Gallup, and Pictured Cliffs formations and to a point 100 feet above said formations.

(6) That the mechanics of the proposed dual completion are feasible and in accord with good conservation practices.

(7) That approval of the subject application will neither cause waste nor impair correlative rights.

IT IS THEREFORE ORDERED:

That the applicant, Texaco Inc., be and the same is hereby authorized to dually complete its H. J. Loe Federal "B" Well No. 3, located in Unit M, Section 23, Township 29 North, Range 12 West, NMPM, San Juan County, New Mexico, in such a manner as to permit the production of oil from an undesignated Gallup oil pool through 2-3/8 inch casing and the production of gas from the Dakota Producing Interval through 2-3/8 inch tubing installed within a parallel string of 4-1/2 inch casing cemented in a common well bore.

PROVIDED HOWEVER, That cement shall extend from total depth to a point 600 feet above the top of the Gallup formation, and from a depth of 1700 feet to a point 200 feet above the top of the Pictured Cliffs formation.

PROVIDED FURTHER, That centralizers or turbolizers shall be installed at 30-foot intervals throughout the Dakota, Gallup, and Pictured Cliffs formations and to a point 100 feet above said formations.

PROVIDED FURTHER, That the applicant shall take communication tests upon completion and annually thereafter during the Annual Deliverability Test Period for the Dakota Producing Interval.

IT IS FURTHER ORDERED:

That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or the protection of correlative rights; upon failure of the applicant to comply with any requirement of this order, the Commission may terminate the authority herein granted and require the applicant or its successors and assigns to limit its activities to regular single-zone production in the interest of conservation.

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CASE No. 2065
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DONE at Santa Fe, New Mexico, on the day and year herein-
above designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

JOHN BURROUGHS, Chairman

MURRAY E. MORGAN, Member

A. L. PORTER, Jr., Member & Secretary

S E A L

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