

~~TEST~~

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Unders. Dakota Formation Dakota County San Juan
Initial XX Annual _____ Special _____ Date of Test 8-30-60
Company Delhi-Taylor Oil Corp. Lease Ludrick Well No. 2
Unit NE/4 Sec. 31 Twp. 30-N Rge. 10-W Purchaser _____
Casing 5-1/2" Wt. 17# I.D. 4.893 Set at 7146 Perf. 6896 To 7066
Tubing 2" Wt. 4.70 I.D. 1.993 Set at 7000 Perf. Open ended To _____
Gas Pay: From 6896 To 7066 L _____ xG 0.649 -GL _____ Bar.Press. 12
Producing Thru: Casing _____ Tubing _____ Type Well Single gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 7-19-60 Packer None Reservoir Temp. _____

OBSERVED DATA

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

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.		<u>3/4</u>	<u>247</u>		<u>84°</u>	<u>2005</u> <u>247</u>	<u>84</u>	<u>2014</u> <u>926</u>		<u>8 days</u> <u>3 hours</u>
2.										
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.	<u>12.363</u>		<u>239</u>	<u>0.9777</u>	<u>0.9645</u>	<u>1.021</u>	<u>3083</u>
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 2017 P_c 606300

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.									
2.									
3.									
4.									
5.									

Absolute Potential: 3701 MCFPD; n 0.75

COMPANY Delhi-Taylor Oil Corporation

ADDRESS P. O. Drawer 1188, Farmington, New Mexico

AGENT and TITLE J. F. Berry - Dist. Engineer

WITNESSED Bob Nichol

COMPANY El Paso Natural Gas Company

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if
flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

STATE OF NEW MEXICO	
OIL CONSERVATION COMMISSION	
ALBUQUERQUE DISTRICT OFFICE	
NUMBER OF COPIES RECEIVED	
DATE	
SANTA FE	
FILE	
INDEX	
FIELD OFFICE	
TRANS-PORTER	OIL
PRODUCTION OFFICE	GAS
OPERATOR	