

NEW MEXICO OIL CONSERVATION COMMISSION

Oct 23 3 44 PM '63

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Eumont Formation Penrose County Lea
Initial X Annual _____ Special _____ Date of Test October 3, 1963
Company TEXACO Inc. Lease L. R. Kershaw Well No. 8
Unit D Sec. 13 Twp. 20-S Rge. 37-E Purchaser None
Casing 2-7/8 Wt. 6.40 I.D. 2.441 Set at 4006 Perf. 3626 To 3688
Tubing None Wt. _____ I.D. _____ Set at _____ Perf. _____ To _____
Gas Pay: From 3626 To 3688 L 3626 xG .685 -GL 2484 Bar.Press. 13.2
Producing Thru: Casing X Tubing _____ Type Well Triple Completion
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 10-3-63 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~(Pressure)~~ ~~(Choke)~~ (Meter)Type Taps Flange

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Line) (Choke) Size	(Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.	3.068	1.000	25	17.5	95			561		72
2.	"	1.000	44	44.0	91			534	68	4
3.	"	1.000	62	60.0	88			502	68	4
4.	"	1.500	63	80.0	49			478	69	4
5.	"	1.500	67	17.0	65			285	70	4
								416	69	20

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.	6.182	25.85	38.2	.9680	.9359		144.8
2.	6.182	50.17	57.2	.9715	"		282.0
3.	6.182	67.17	75.2	.9741	"		378.6
4.	14.36	78.08	76.2	1.0107	"		1060
5.	14.36	36.92	80.2	.9952	"		493.6

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio Dry Gas cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c 5.866 (1-e^{-s}) 0.157

Specific Gravity Separator Gas .685
Specific Gravity Flowing Fluid _____
P_c 574.2 P_c 329.7

No.	$\frac{P_w}{P_t}$ 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.	547.2	299.4	.8494	.7215	.1133	299.5	30.2	547.2	.95
2.	515.2	265.4	1.654	2.736	.4295	265.8	63.9	515.2	.90
3.	491.2	241.3	2.221	4.933	.7745	242.1	87.6	492.0	.86
4.	298.2	88.9	6.218	38.66	6.070	95.0	234.7	308.2	.54
5.	429.2	184.2	2.895	8.381	1.316	185.5	144.2	430.7	.75

Absolute Potential: 1050 MCFPD; n .910COMPANY TEXACO Inc.ADDRESS Box 1270, Midland, TexasAGENT and TITLE E. W. Moore District Supervisor (Gas) E. W. Moore

WITNESSED _____

COMPANY _____

REMARKS _____