

NEV. EXICO OIL CONSERVATION COMMISS  
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122  
Revised 9-1-65

RECEIVED

Type Test <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Annual <input type="checkbox"/> Special				Test Date 12-16-80		FEB 9 1981					
Company El Paso Natural Gas Co.			Connection El Paso Natural Gas Co.			U.S. GEOLOGICAL SURVEY					
Pool Langlie Mattix			Formation QUEENS			Unit HOBBS, NEW MEXICO					
Completion Date 12-4-80		Total Depth 4887		Plug Back TD 3107		Elevation 3110					
Farm or Lease Name Langlie		Well No. #1		Unit 14		Sec. Twp. Rge. 25 37					
Csq. Size 7"	Wt. 23.0	d 6,366	Set At 4887	Perforations: From 3075 To 3150		Well No. #1					
Tbg. Size 2 7/8"	Wt. 6.5	d	Set At 3107	Perforations: From OPEN To END		Unit Sec. Twp. Rge. 14 25 37					
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At NONE		County LEA					
Product - Thru TBG		Reservoir Temp. *F 106 @ 3112.5		Mean Annual Temp. *F 60°		Baro. Press. - P <sub>g</sub> 13.2					
State New Mexico		L 3107		H 3107		G <sub>g</sub> .714					
% CO <sub>2</sub> .15		% N <sub>2</sub> 1.87		% H <sub>2</sub> S .01%		Prover 1.250					
Meter Run 4"		Taps FLG									
FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h <sub>w</sub>	Temp. *F	Press. p.s.i.g.	Temp. *F	Press. p.s.i.g.	Temp. *F	Duration of Flow
SI							77		77		72 HRS.
1.	4.000	1.250	7	4.0	62	75	75	75	75	75	30 MIN.
2.	4.000	1.250	8	16.0	65	73	73	73	73	73	30 MIN.
3.	4.000	1.250	9	36.0	65	67	67	71	71	71	30 MIN.
4.	4.000	1.250	12	64.0	67	60	60	67	67	67	45 MIN.
5.											
RATE OF FLOW CALCULATIONS											
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P <sub>m</sub>	Flow Temp. Factor Ft.	Gravity Factor F <sub>g</sub>	Super Compress. Factor, F <sub>pv</sub>	Rate of Flow Q, Mcfd				
1	7.469	8.99	20.2	.9859	1.183	NIL	78				
2	7.469	18.42	21.2	.9877	1.183	NIL	161				
3	7.469	28.27	22.2	.9952	1.183	NIL	249				
4	7.469	40.16	25.2	.9933	1.183	NIL	352				
5											
NO.	P <sub>r</sub>	Temp. *R	T <sub>r</sub>	Z	Gas Liquid Hydrocarbon Ratio <u>NONE</u> Mcf/bbl.						
1	.03	522	1.33	NIL	A.P.I. Gravity of Liquid Hydrocarbons		Deg.				
2	.03	525	1.34	NIL	Specific Gravity Separator Gas		.714				
3	.03	525	1.34	NIL	Specific Gravity Flowing Fluid		X X X X X				
4	.04	527	1.34	NIL	Critical Pressure		667 P.S.I.A.				
5					Critical Temperature		392 R				
P <sub>c</sub> 90.2		P <sub>c</sub> <sup>2</sup> 8.1									
NO.	P <sub>t</sub> <sup>2</sup>	P <sub>w</sub>	R <sub>w</sub> <sup>2</sup>	P <sub>c</sub> <sup>2</sup> - R <sub>w</sub> <sup>2</sup>	(1) $\frac{P_c^2}{P_c^2 - R_w^2} = 4.765$						
1		88.2	7.8	.3	ACCEPTED FOR RECORD 794						
2		86.2	7.4	.7	FEB 11 1981						
3		84.2	7.1	1.0	U.S. GEOLOGICAL SURVEY						
4		80.2	6.4	1.7	WELL, NEW MEXICO						
5					Slope, n .854						
Absolute Open Flow <u>1335</u> Mcfd @ 15.025					Angle of Slope $\theta$ <u>49.5</u>						
Remarks:											
Approved By Commission:			Conducted By: Townley			Calculated By: Townley			Checked By:		