NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
JAN 29 1981
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 1-8-81		
Company: Belco Petro. Corp. ✓		Connection: El Paso			
Pool: North Loving		Unit: Morrow			
Completion Date: 10-28-80	Total Depth: 12,622'	Plug Back TD: 12,581'	Elevation: 3076 K.B.	Farm or Lease Name: Lakey Com	
Csg. Size: 5" 7 5/8"	Wt.: 18#	d: 6.875 4.276	Set At: 9615' 12,621'	Perforations: From 12,408 To 12,505	Well No.: 1
Tbg. Size: 2 3/8"	Wt.: 4.7#	d: 1.995"	Set At: 12,330'	Perforations: From Open Ended To	Unit: L; Sec.: 20; Twp.: 23S; Rge.: 28E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single			Packer Set At: 12,330		County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 195 @ 12,456'	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
12,330	12,330	.5757	1.253	.309	-0-		4"	Flg.

	FLOW DATA						TUBING DATA		CASING DATA		
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	Temp. °F	Duration of Flow
SI							3490		Pkr.	choke	24 hrs
1.	4	X	1.5"	330	6"	63	2912	52		5/64	1 hr
2.	4	X	1.5"	335	9"	61	2660	54		6/64	1 hr
3.	4	X	1.5"	335	14.4"	64	2330	55		8/64	1 hr
4.	4	X	1.5"	338	20.25"	64	1980	55		9.5/64	1 hr
5.											

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	10.84	45.38	343.2	.9971	1.316	1.129	728.76
2.	10.84	55.98	348.2	.9990	1.316	1.136	906.28
3.	10.84	70.81	348.2	.9962	1.316	1.319	1146.17
4.	10.84	84.33	351.2	.9962	1.316	1.134	1359.02
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	4.327	512	1.49	.784
2.	3.954	514	1.49	.775
3.	3.446	515	1.50	.771
4.	2.948	515	1.50	.778
5				

Gas Liquid Hydrocarbon Ratio: T.S.T.M. Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Deg.
Specific Gravity Separator Gas: .5757 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 676 P.S.I.A. P.S.I.A.
Critical Temperature: 344 R R

* P_c 3503.2 P_c^2 12,272.4

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		2945	8673	3599
2		2695	7263	5009
3		2409	5803	6469
4		2098	4401	7871
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.559$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.415$

Absolute Open Flow: 1923 Mcfd @ 15.025
Angle of Slope θ: 51°59'
Slope, n: .7818

Remarks: Bottom Hole Pressures measured with Kuster Gauge
* Calculated from known Bottom Hole Pressures

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	W.S.	M.K.	M.K.