

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
 Revised 9-1-65

NOV 08 1983

O. C. D.

ARTESIA, OFFICE

Type Test 4-POINT ☒ Initial ☐ Annual ☐ Special						Test Date 11-5-83		O. C. D. ARTESIA, OFFICE	
Company STEVENS OPERATING ✓				Connection TO AIR NEW WELL					
Pool PECOS SLOPE <i>U.D. 1150</i>				Formation ABO				Unit #	
Completion Date 10-29-83		Total Depth 4530		Plug Hole L. 4488		Elevation 3707.6		Farm or Lease Name NICHOLS DALE <i>FED.</i>	
Test. Size 4.5	Wt. 10.5	d 4.052	Set At 4526	Perforations: From 4001 To 4319		Well No. #6			
Test. Size 2.375	Wt. 4.7	d 1.995	Set At 3961	Perforations: From 0 To 0		Unit N	Sec. 33	Twp. 7S	Rge. 26E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packoff Gel At 0		County CHAVES	
Producing Thru TUBING		Reservoir Temp. °F 104 @ 4160		Mean Annual Temp. °F 60°		Baro. Press. - P _g 13.2		State NEW MEXICO	
L 4160	H 4160	G _g .663	% CO ₂ 0	% N ₂ 5.190	% H ₂ S 0	Prover 2.000	Motor Run 0	Taps 0	

FLOW DATA						TUBING DATA		B.H.P. DATA		Duration of Flow
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.	
51							820		919	
1.	2.000 X	.219		670	0.00	58	801	58	900	7/32
2.	2.000 X	.313		754	0.00	64	754	64	859	5/16
3.	2.000 X	.438		609	0.00	61	610	61	796	7/16
4.	2.000 X	.500		532	0.00	62	552	62	762	1/2
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	0.84	0.00	683.2	1.0019	1.2281	1.0674	752
2	1.67	0.00	767.2	0.9962	1.2281	1.0723	1678
3	3.40	0.00	622.2	0.9990	1.2281	1.0599	2752
4	4.27	0.00	545.2	0.9981	1.2281	1.0520	3002
5							

NO.	R _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
1	1.03	518	1.42	.878	A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
2	1.16	524	1.44	.870	Specific Gravity Separator Gas _____ .663
3	0.94	521	1.43	.890	Specific Gravity Flowing Fluid _____ XXXXXX .663
4	0.83	522	1.43	.904	Critical Pressure _____ 660 P.S.I.A. _____ 660 P.S.I.A.
5					Critical Temperature _____ 364 °R _____ 364 °R

P _g 835.2	P _c ² 698	$(1) \frac{P_c^2}{P_g^2 - P_w^2} = 3.2776$		$(2) \left[\frac{P_c^2}{P_g^2 - P_w^2} \right]^n = 2.2424$	
1	834	818	670	28	$AOI = Q \left[\frac{P_g^2}{P_g^2 - P_w^2} \right]^n = 6731$
2	761	782	612	86	
3	655	726	528	170	
4	601	696	485	213	
5					

Absolute Open Flow _____ 6731 _____ Mcfd @ 15.025	Angle of Slope θ _____ 55.8	Slope, n _____ .680
---	-----------------------------	---------------------

Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By:	Calculated By:	Checked By:
	RICHARD TOWNLEY	BENNETT & CATHEY	