

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special		Test Date 7-5-67	
Company Tenneco Oil Co.		Connection	
Pool Hospah Wildcat		Formation Dakota	
Completion Date OK 6.6		Plug Back TD 2911	
Elevation		Farm or Lease Name Hospah "A"	
Well No. 7		Unit Sec. Twp. Rge. K 12 17 9	
Csg. Size 4.5	Wt. 2.375	d 2718	Set At 2911
Perforations: From To		Packer Set At	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single Gas		Baro. Press. - P_a 12.0	
Producing Thru Tbg		State New Mexico	
H	Gq	% CO ₂	% N ₂
Prover		Meter Run	
X		Taps	

FLOW DATA						TUBING DATA		CASING 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.	
SI							867		867	
1.	2 x 3/4						230	60	230	
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1	12.2023		242	1.000	.9608	1.025	2904
2.							
3.							
4.							
5.							

NO.	P_t	Temp. °R	T_f	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Mcfd/bbl.	Deg.
1												
2.												
3.												
4.												
5.												

$P_c = 879$ $P_c^2 = 772641$	$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.0820$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.0608$																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>P_t^2</th> <th>P_w</th> <th>P_w^2</th> <th>$P_c^2 - P_w^2$</th> </tr> </thead> <tbody> <tr> <td>1</td> <td></td> <td>242</td> <td>58564</td> <td>714077</td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$	1		242	58564	714077	2					3					4					5					$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 3081$	
NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$																												
1		242	58564	714077																												
2																																
3																																
4																																
5																																

Absolute Open Flow	3081	Mcfd @ 15.025	Angle of Slope θ	Slope, n .75
Remarks:				
Approved By Commission:	Conducted By:	Calculated By: Neil Tefteller	Checked By:	

Company TENNECO OIL COMPANY Lease HOSPAN "A" Well No. 7
 Field HOSPAN DAKOTA County McKINLEY State NEW MEXICO
 Formation DAKOTA Test Date JULY 5, 1967

Status of Well Shut in

DEPTH Feet	PRESSURE Psig	GRADIENT Psi/Ft.
0	867	
1000	897	0.030
2000	927	0.030
2300	937	0.033
2500	943	0.030
2700	950	0.035

Datum Pressure _____ Psig

1600

1400

1200

1000

800

600

400

200

0

500

1000

1500

2000

2500

3000

3500

Elev.	Datum	Ft.
Total Depth 2911	Perf.	Ft.
Tubing 2 3/8	in. to 2718	Ft.
Casing 4 1/2	in. to 2911	Ft.
Casing Press. 867	Tubing Press. 867	
Oil Level None	Water Level	
Temperature	°F @	Ft.
Element No. 15065	Range	
Last Test Date		
Pressure Last Test Date		Psig
B.H.P. Change	Psi	

PRESSURE POUNDS PER SQUARE INCH GAUGE