

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

Form C-122
Revised 9-1-66

RECEIVED

Test Type: ☒ Initial ☐ Annual ☐ Special				Test Date: 3/28/80		APR 10 1980	
Company: Depco, Inc.				Connection: Natural Gas Co. of America		O.C.D.	
Well: Cemetery Wildcat Strawn				Formation: Strawn		ARTESIA OFFICE	
Completion Date: 3/28/80		Total Depth: 9860'		Plug Back To: 9861 94/65		Elevation: 3770' GL	
Csg. Size: 4 1/2"	Wt.: 11.6	ID: 4.000	Set At: 9860'	Perforations: From 8772' To 8976'		Well No.: 1	
Trg. Size: 2 3/8"	Wt.: 4.7	ID: 1.995	Set At: 8672	Perforations: Open Ended		Unit: 6 Sec.: 21s Twp.: 24e	
Type Well - Single - Brokenhead - G.G. or G.O. Multiple				Packer Set At: 8672'		County: Eddy	
Producing Thru: Tubing		Reservoir Temp. °F: 168 @ 8662'		Mean Annual Temp. °F: 60		State: New Mexico	
L: 8874	H: -	Gg: 0.716	% CO ₂ : 0.522	% N ₂ : 1.502	% H ₂ S: -	Prover:	Meter Run: 3"
FLOW DATA				TUBING DATA		CASING DATA	
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Duration of Flow
51							63 HRS.
1.	3"	6/64	1.25"	390	5	61	1.0
2.	3"	8/64	1.25	390	8	64	1.0
3.	3"	10/64	1.25	398	14	67	1.0
4.	3"	12/64	1.25	404	21	68	2.0
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. Comp. Factor, F _{spv}	Rate of Flow Q, Mscf
1	7.577	44.90	403.2	.9990	1.182	1.048	421.0
2	7.577	56.79	403.2	.9962	1.182	1.047	530.5
3	7.577	75.87	411.2	.9933	1.182	1.047	706.7
4	7.577	93.60	417.2	.9924	1.182	1.048	871.8
5							
NO.	P _t	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio: 89.59 Mscf/BBL		
1	0.60	521	1.34	0.910	A.P.I. Gravity of Liquid Hydrocarbons: - Deg.		
2	0.60	524	1.35	0.912	Specific Gravity Separator Gas: 0.716 XXXXXXXXXX		
3	0.61	527	1.36	0.913	Specific Gravity Flowing Fluid: XXXXX		
4	0.62	528	1.36	0.911	Critical Pressure: 669 P.S.I.A.		
5					Critical Temperature: 388 °R		
P _c 3686.2 P _c ² 13588.1					(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 3.127$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.532$		
NO.	P _w *	P _w ²	P _c ² - P _w ²	AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1790$			
1	3354.2	11250.7	2337.4				
2	3253.2	10583.3	3004.8				
3	3040.2	9242.8	4345.3				
4	2826.2	7987.4	5600.1				
5							
Absolute Open Flow: 1790 Mscf @ 15.025					Angle of Slope: 50° 48'		Slope, n: 0.815
Remarks: * BOTTOM HOLE PRESSURE @ (-5104) 8874' USED FOR PRESSURE CALCULATIONS. 10.29 BW & 1.47 BO in 5.0 Hours. 7.06 BO/D							
Approved by Consultant:		Conducted By: JARREL SERVICES, INC.		Calculated By: JOE A. COLEMAN		Checked By: Joe A. Coleman	

Posted
 ID 2 v Book
 4-11-80
 plugback
 NCO/NDP