

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

Form C-122
Revised 5-1-65
RECEIVED

SEP 9 1981

Type Test: ☒ Initial FOUR POINT ☐ Annual ☐ Special				Test Date: 8-24-81		1980 FNL O. C. D.	
Company: DEPCO Inc.				Well Name: AIR - NEW WELL		Location: ARTESIA, OFFICE 660 FEL	
Operator: Diamond Mound Manow				MORROW		Unit: H	
Completion Date: 8-20-81		Flow Rate: 9450		Perforations: From 9100 To 9191		Field or Lease Name: COQUINA FEDERAL	
Well No. 1	Unit H	Sec. 4	Twp. 16S	Rge. 28E			
Flow Rate: 4.5	Wt. 11.6	d 4.000	Set At 9450	Perforations: From 9100 To 9191		Well No. 1	
Flow Rate: 2.375	Wt. 4.7	d 1.995	Set At 9005	Perforations: From OPEN To ENDED		Unit H Sec. 4 Twp. 16S Rge. 28E	
Type Well - Single - Bradenhead - G.G. or G.C. Multiple				Packer Set At 9005		County: EDDY	
Producing Thru TUBING		Reservoir Temp. °F 145.6		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2	
State: NEW MEXICO							
L 9145.5	H 9145.5	g .6652	% CO ₂ 0.480	% N ₂ 1.040	% H ₂ S 0	Prover	Meter Run 2" Taps FLANGE

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	B.H.P. p.s.i.g.	Temp. °F	
SI							2737	82	3805		65 1/2 hr.
1.	2"	x	1.250	550	3.0	80	2515	82	3563		1
2.	2"	x	1.250	560	5.75	80	2295	80	3287		1
3.	2"	x	1.250	567	10.5	80	2012	85	2891		1
4.	2"	x	1.250	570	16.0	80	1617	86	2361		1
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	8.0870	41.10	563.2	.9813	1.2263	1.0518	421
2	8.0870	57.66	573.2	.9813	1.2263	1.0535	591
3	8.0870	78.05	580.2	.9813	1.2263	1.0541	801
4	8.0870	96.60	583.2	.9813	1.2263	1.0541	991
5							

NO.	P _r	Temp. °F	P _r	Temp. °F	Gas Liquid Hydrocarbon Ratio	Mcfd/bbl.
1	.84	540	1.44	.904	A.P.I. Gravity of Liquid Hydrocarbons 56.6	Deg.
2	.86	540	1.44	.901	Specific Gravity Separator Gas .6650	X X X X X X X X
3	.87	540	1.44	.900	Specific Gravity Flowing Fluid .6832	X X X X X
4	.87	540	1.44	.900	Critical Pressure 670	P.S.I.A. P.S.I.A.
5					Critical Temperature 374	R R

NO.	P _r	P _w	P _w ²	P _r ² - P _w ²	(1) $\frac{P_r^2}{P_r^2 - P_w^2} = 1.6304$	(2) $\left[\frac{P_r^2}{P_r^2 - P_w^2} \right]^n = 1.3305$
1	3818.2	3576.2	12789.2	1789		
2		3300.2	10891.3	3687		
3		2904.2	8434.4	6144		
4		2374.2	5636.8	8942		
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