

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPLE POINT AND ONE POINT BACK PRESSURE TEST FOR GAS RECEIVED

Form O-100
 Revised 9-1-65

NOV 5 1982

Type Test: ☒ Initial 4 POINT ☐ Annual ☐ Special						Test Date: 10-3-82		O. C. D.	
Company: GLEN COPE				Connection: EL PASO PIPELINE				ARTESIA, OFFICE	
Pool: WILDCAT				Formation: MORROW				Unit: A	
Completion Date: 4-28-82		Total Depth: 10,180		Plug Bar: 10,025		Elevation: 3767		Farm or Lease Name: GLEN COPE FEDERAL 30	
Well Size: 5.500	Wt.: 17.0	d: 4.892	Set At: 10,058	Perforations: From 9784 To 9790		Well No.: 1			
Tbg. Size: 2.875	Wt.: 6.4	d: 2.441	Set At: 9746	Perforations: From OPEN To ENDED		Unit: A	Sec.: 30	Twp.: 22S	Rge.: 25E
Type Well - Single - Rodenthead - G.O. or G.O. Multiple: SINGLE						Packer Set At: 9746		County: EDDY	
Producing Thru: TUBING		Reservoir Temp. °F: 157 @ 9787		Mean Annual Temp. °F: 60°		Basis. Press. - P _g : 13.2		State: NEW MEXICO	
L: 9787	H: 9787	G _g : 0.590	% CO ₂ : 0.99	% N ₂ : 0.39	% H ₂ S: 0	Prover: 0	Meter Run: 4.0	Tape: FLANGE	

FLOW DATA							TUBING DATA		B.H.P. DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. in. H ₂ O	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	CHOKE	
51							1839	65			50 HRS.
1	4.03	X	1.250	735	1.2	75	1607	62	0	3/64	1 HR
2	4.03	X	1.250	747	2.0	88	1342	69	0	6/64	1 HR
3	4.03	X	1.250	730	2.6	100	1100	70	0	8/64	1 HR
4	4.03	X	1.250	761	54.8	94	1005	73	0	10/64	2-1/2 HR.

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h/P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow O. Mcfd
1	7.47	30.09	748.2	0.9859	1.3016	1.0559	305
2	7.47	38.61	760.4	0.9741	1.3016	1.0516	384
3	7.47	43.61	743.0	0.9636	1.3016	1.0459	427
4	7.47	205.93	774.4	0.9688	1.3016	1.0502	2037

NO.	P ₁	Temp. °F	T ₁	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	1.11	535	1.52	0.897			0.590	XXXXXXX	677	353
2	1.12	548	1.55	0.904				XXXXXX		
3	1.10	560	1.59	0.914						
4	1.14	554	1.57	0.907						

NO.	P ₁ ²	P _w ²	R _w ²	P ₁ ² - R _w ²
1	2625	1620	2626	796
2	1837	1352	1828	1593
3	1239	1111	1233	2188
4	1037	1034	1069	2353

(1) $\frac{P_g^2}{P_1^2 - R_w^2} = 1.4542$

(2) $\left[\frac{P_g^2}{P_1^2 - R_w^2} \right]^n = 1.4542$

AOF = 0 $\left[\frac{P_g^2}{P_1^2 - R_w^2} \right]^n = 2962.$

1849.7 P₁² 3421

Absolute Open Flow: 2962. Mcfd @ 13.023	Angle of Slope: 45.0	Slope, n: 1.000
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Approved By Commission:	Conducted By: DON BENNETT	Calculated By: BENNETT - CATHEY	Checked By:
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