Copy to SF
Form C-122 12-2-
Revised 9-1-65

NEW EXICO OIL CONSERVATION COMMSS

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
DEC - 3 1973
O. C. C.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special			Test Date: 11/28/73	
Company: Corinne Grace	Connection: Transwestern			
Pool: South Carlsbad Strawn	Formation: Strawn			Unit:
Completion Date: 7/30/73	Total Depth: 12,011	Plug Back TD: 11,852	Elevation: 3268 ~~3268~~ DF	Farm or Lease Name: Humble-Grace Com
Csg. Size: 4½" / 7"	Wt: 13.5# / 29#	d: 3.920 / 6.184	Set At: 11,198 / 11,981	Perforations: From 10,544 To 10,590 — Well No.: 1
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1,995	Set At: 10,418	Perforations: From To — Unit: P, Sec.: 2, Twp.: 23S, Rge.: 26E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: G. G. Multiple			Packer Set At: 10408	County: Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 174° @ 10560	Mean Annual Temp. °F: 60°	Baro. Press. – P_a: 13.2	State: New Mexico
L: 10418	H: 10418	G_g est.: 0.652	% CO_2 est.: 0.44	% N_2 est.: 0.74 — % H_2S est.: 0 — Prover: — Meter Run: — Taps: Flg

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size	X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI						2150				
1.	4"	½"	640	4	60	2025	60			1
2.	4"	½"	640	5	61	1975	60			1
3.	4"	½"	640	6	63	1925	60			1
4.	4"	½"	640	7	63	1875	60			1
5.										

RATE OF FLOW CALCULATIONS

NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor Ft.	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	1.183	51.1	653.2	1	1.238	1.069	80
2.	1.183	57.1	653.2	.9990	1.238	1.069	89
3.	1.183	62.6	653.2	.9971	1.238	1.069	98
4.	1.183	67.6	653.2	.9971	1.238	1.069	106
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.97	520	1.39	.875
2.	.97	521	1.39	.875
3.	.97	523	1.39	.875
4.	.97	523	1.39	.875
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure 670 P.S.I.A. _____ P.S.I.A.
Critical Temperature 375 R _____ R

P_c 2162.2 P_c^2 4676.1

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1	4154.3		4154.3	520.8
2	3952.9		3952.9	722.2
3	3756.6		3756.6	918.5
4	3565.3		3565.3	1109.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 4.213$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.717$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 185$

Absolute Open Flow 185 Mcfd @ 15.025 — Angle of Slope θ _____ — Slope, n .388

Remarks: _____

Approved By Commission: — Conducted By: — Calculated By: — Checked By: