

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

Revised 9-1-65

RECEIVED

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 9-5-73		SEP 13 1973	
Company Meadco Properties, Ltd.				Connection None				C. C. C.	
Pool Golden Lane <i>Strawn</i>				Formation Strawn				Unit ARTESIA, OFFICE	
Completion Date 9-5-73		Total Depth 11,571		Plug Back TD		Elevation 3455 Gr.		Farm or Lease Name Harris Bell	
Csg. Size 4 1/2	Wt. 11.60	d	Set At 11,571	Perforations: From 11237 To 249		Well No. 2			
Thg. Size 2 3/8	Wt. 4.7	d	Set At 11,185	Perforations: From Open To End		Unit Sec. Twp. Rge. H 5 21 29			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single						Packer Set At 11,185		County Eddy	
Producing Thru Tubing		Reservoir Temp. °F 164 @ 11,144		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State New Mexico	
L 11244	H 11244	G _g .660	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run 4"	Taps Flg.	

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.		Temp. °F
SI							2700	50			96 hrs.
1.	4	x	21	685	2.5	86	2465	56			1.25 hr.
2.	"		"	710	6.0	78	2290	64			1.00 "
3.	"		"	710	11.5	72	2183	66			1.00 "
4.	"		"	710	16.5	68	2012	68			1.00 "
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	19.81	41.779	698.2	.9759	1.239	1.064	1,058
2.	"	65.873	723.2	.9831	1.231	1.075	1,698
3.	"	91.196	723.2	.9887	1.231	1.077	2,368
4.	"	109.237	723.2	.9924	1.231	1.079	2,852
5.							

NO.	P _t	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio <u>21,000</u> Mcf/bbl.
					A.P.I. Gravity of Liquid Hydrocarbons <u>54 @ 86°</u> Deg.
1.					Specific Gravity Separator Gas <u>.660</u> XXXXXXXXXX
2.					Specific Gravity Flowing Fluid <u>XXXXXX</u>
3.					Critical Pressure <u>723</u> P.S.I.A. P.S.I.A.
4.					Critical Temperature <u>382</u> R R
5.					

$P_c = 2713.2$ $P_c^2 = 736$					$(1) \frac{P_c^2}{P_c^2 - P_w^2} =$	$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
NO	P _t ²	P _w	P _w ²	P _c ² - P _w ²	$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 6.600$	
1		2478.2	6141	1220		
2		2303.2	5305	2056		
3		2196.2	4823	2538		
4		2025.2	4101	3260		
5						

Absolute Open Flow <u>6,600</u> Mcfd @ 15.025		Angle of Slope <u>45</u>	Slope, n <u>1.000</u>
Remarks: <u>Produced 16 bbls. during test.</u>			
Approved By Commission:		Conducted By: C. Allen Dorsey	Calculated By: C. Allen Dorsey
		Checked By:	