

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

Form C-122
 Revised 9-1-65

Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 4-7-84	
Company Enserch Exploration, Inc.				Connection		
Pool Wildcat				Formation Morrow		Unit
Completion Date 4/5/84		Total Depth 12,060'		Plug Back TD 11780'		Elevation 4421' GL
Farm or Lease Name State "13"						
Csg. Size 5 1/2"	Wt. 11.6#	d	Set At 12,060'	Perforations: From 10904 To 10912		Well No. 1
Tng. Size 2 3/8	Wt. 4.7#	d	Set At 10,958'	Perforations: From 10928 To 10946		Unit Sec. Twp. Rye. L 13 12S 31E
Type Well - Single - Bradenhead - G.G. or G.O. Multiple Single				Packer Set At 10830		County Chaves
Producing Thru Tubing		Reservoir Temp. °F 172 @ 10825		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2
State New Mexico						
L	H	Cg 0.7158	% CO ₂	% N ₂	% H ₂ S	Prover
					Meter Run X	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	Press. p.s.i.g.		Temp. °F
SI	55 hours						3003		Pkr.		
1.	4.026	X	1.250	158	3.0	68	2599	68	Pkr.	-	60 min.
2.	4.026	X	1.250	160	11.0	80	2379	68	Pkr.	-	60 min.
3.	4.026	X	1.250	164	28.5	84	2159	67	Pkr.	-	60 min.
4.	4.026	X	1.250	222	65.0	80	1824	66	Pkr.	-	60 min.
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	7.469	22.66	171.2	.9924	1.182	1.019	202.3
2	7.469	43.65	173.2	.9813	1.182	1.018	384.9
3	7.469	71.06	177.2	.9777	1.182	1.018	624.4
4	7.469	123.64	235.2	.9813	1.182	1.024	1096.9
5.							

NO.	P _i	Temp. °R	T _i	Z	Gas Liquid Hydrocarbon Ratio _____ 18.539 Mcf/bbl.
1					A.P.I. Gravity of Liquid Hydrocarbons _____ 52.7 Deg.
2.	USED SIMPLIFIED				Specific Gravity Separator Gas _____ 0.7158
3.	SUPERCOMPRESSIBILITY				Specific Gravity Flowing Fluid _____ X X X X X
4.	TABLES				Critical Pressure _____ 668 P.S.I.A.
5					Critical Temperature _____ 398 R

P _f 4515.2 P _f ² 20387				
NO.	P _i ²	P _s	P _s ²	P _f ² - P _s ²
1	4043.2	16347	4040	
2	3798.2	14426	5961	
3	3558.2	12661	7726	
4	3037.2	9225	11162	
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.82646$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.82646$$

$$AOF = O \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2003.449$$

Absolute Open Flow _____ 2003.449 Mcfd @ 15.025	Angle of Slope @ _____ 45.0°	Slope, n _____ 1.000
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Remarks: _____ BHP measured with Amerada RPG-3 Gauge No. 47504, 0-6000 PSI Range

Approved By Commission:	Conducted By: Tefteller, Inc.	Calculated By: D. A. Warren, Jr.	Checked By:
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APR 23 1984
O.C.D.
HOBBS OFFICE