

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

SF/ file
RECEIVED 6-12-82
Revised 9-1-82

JUN 25 1982

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-7-82		O. C. D. ARTESIA, OFFICE 1	
Company Bass Enterprises ✓				Connection Air					
Pool Lower Morrow				Formation Lower Morrow				Unit	
Completion Date 6-3-82		Total Depth 15530		Plug Back To 15483		Elevation 3390 GL		Farm or Lease Name Poker Lake	
Csg. Size 5"	Wt. d	Set At 15530	Perforations: From 15440 To 15456		Well No. 53				
Tq. Size 2 3/8	Wt. d	Set At 15418	Perforations: From To		Unit 9 25S 31E				
Type well - Single - Prodenhead - G.G. or G.O. Multiple Single Gas						Packer Set At 15390		County Eddy	
Producing Thru Tbg.		Reservoir Temp. °F 228 @ 15418		Mean Annual Temp. °F 60°		Surf. Press. - P _a 13.2		State New Mexico	
L 15418	H 15418	G _g .5862	% CO ₂ 1.993	% N ₂ 2.256	% 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							6600				72 hr.
1.	4 X 1.000			570	11.0	126	5900				1 hr.
2.	4 X 1.000			570	24.0	126	5500				1 hr.
3.	4 X 1.000			570	66.0	120	4600				1 hr.
4.	4 X 1.500			575	19.0	100	3675				1 hr.
5.	4 X 1.500			530	23.0	102	2490				4 hr.

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, Mscf
1	4.753	80.09	583.2	.9420	1.306	1.030	482
2	4.753	118.31	583.2	.9420	1.306	1.030	713
3	4.753	196.19	583.2	.9469	1.306	1.033	1191
4	10.84	105.72	588.2	.9636	1.306	1.038	1497
5	10.84	111.77	543.2	.9619	1.306	1.034	1574

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	dry	Mcf/bbl.
1.	.87	586	1.66	.943	A.P.I. Gravity of Liquid Hydrocarbons		Deq.
2.	.87	586	1.66	.943	Specific Gravity Separator Gas	XXXXXXXXXX	
3.	.87	580	1.64	.938	Specific Gravity Flowing Fluid	XXXXXX	
4.	.88	560	1.58	.929	Critical Pressure	672 P.S.I.A.	P.S.I.A.
5.	.81	562	1.59	.935	Critical Temperature	354 °R	°R

P _c 6613.2 P _c ² 43734.4				$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.480$		$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.412$	
NO.	BHP	P _w	P _w ²	P _c ² - P _w ²	(1)	(2)	
1	7587.2	5948.6	35386.3	8348.1			
2	7147.2	5556.9	30879.1	12855.3			
3	6141.2	4681.6	21917.1	21817.3			
4	5054.2	3767.5	14193.9	29540.5			
5	3643.2	2647.7	7010.4	36724.0			

8334.2 S.I.P.		2,114		Mcf @ 15.025		Angle of Slope ° 48.75°		Slope, n .880	
Remarks:									
Approved By: _____ Conducted By: _____ Calculated By: _____ Checked By: _____									
Davis Services, Inc. Rick Pagan									

Dated 7-2-82
Comp Book
SF