

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

djsf
 REF 12
 RECEIVED

Type Test ☒ Initial 4 POINT ☐ Annual ☐ Special		Test Date 4-13-82		1980 FSL JUN 1 1982	
Company JACK GRYNBERG <i>✓</i>		Connection AIR NEW WELL		660 FWL	
Well UNDESIGNATED <i>Per. 11-82</i>		Formation ABO		Unit ARTESIA <i>CHAVE</i>	
Completion Date 5-11-82 <i>4-13-82</i>		Total Depth 4130		Plug Back TD 3976	
Elevation 4028 KB		Form or Lease Name HOBBS CANYON FEDER		Well No. 3	
Log. Size 4.5	Wt. 10.5	d 4.052	Set At 3976	Perforations: From 3534 To 3788	
Log. Size 2.375	Wt. 4.7	d 1.995	Set At 3486	Perforations: From OPEN To ENDED	
Type well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE				Packer Set At NONE	
Producing Thru TUBING		Reservoir Temp. °F 99 • 3661		Mean Annual Temp. °F 60°	
Baro. Press. - P _a 13.2		State NEW MEXICO		County CHAVES	
L 3661	H 3661	G _g 0.7977	% CO ₂ 13.976	% N ₂ 14.542	% H ₂ S Prover
Meter Run 2"		Flange 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. hw	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	CHOKE
1	2.00	X	.0625	455	.00	69	586	75	649	1/64
2	2.00	X	.09375	405	.00	78	549	76	606	4/64
3	2.00	X	.125	385	.00	74	480	78	539	6/64
4	2.00	X	.1875	210	.00	75	371	77	441	8/64
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RATE OF FLOW CALCULATIONS							
NO	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor - Ft.	Gravity Factor F _g	Super. Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	.0657	.00	468.2	.9915	1.1194	1.0375	35
2	.1446	.00	418.2	.9831	1.1194	1.0309	69
3	.2716	.00	398.2	.9868	1.1194	1.0309	123
4	.6237	.00	223.2	.9859	1.1194	1.0169	156
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NO	P _h	Temp. °F	T _g	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	.67	529	1.48	.929			.7980		701	357
2	.60	538	1.51	.941						
3	.57	534	1.49	.941						
4	.32	535	1.50	.967						
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NO	P _c	P _w	P _c ² - P _w ²	(1) $\frac{P_c^2}{P_c^2 - P_w^2} =$	(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n =$
1	682.2	465.4	27.0	1.7969	1.4734
2	619.2	383.4	82.0		
3	552.2	304.9	160.0		
4	454.2	206.3	259.0		
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Absolute Open Flow <i>229.8</i>		Mold # 13.025	Angle of Slope ° 56.5	Slope, n .6613
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Remarks: BOTTOM HOLE PRESSURE MEASURED WITH AMERADA PRESSURE ELEMENTS.

Approved By Commission:	Conducted By: BENNETT	Calculated By: BENNETT - CATHEY	Checked By:
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