

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: ☒ Initial ☐ Annual ☐ Special						Test Date: 2/4/82																																																																																															
Company: Holly Energy Inc.				Connection: None																																																																																																	
Well: Salt Lake Deep				Formation: Morrow																																																																																																	
Completion Date: 2/2/82		Total Depth: 14465'		Plug Back TD: 14465'		Elevation: 3635																																																																																															
Case Size: 5 1/2"	Wt.: 20.0	d: 4.778	Set At: 14465'	Perforations: From 14120' To 14128'		Well No.: 1																																																																																															
Thq. Size: 2 3/8"	Wt.: 4.7	d: 1.995	Set At: 13915'	Perforations: Open Ended		Unit: H 6 Twp. 21s 32e																																																																																															
Type Well: Single - Bradenhead - G.G. or G.O. Multiple						Packer Set At: 13915'																																																																																															
Producing Thru: Tubing		Reservoir Temp. °F: -		Mean Annual Temp. °F: 60		Buro. Press. - P ₀ : 13.2																																																																																															
L: 14124'		H: -		G _g : 0.6669		% CO ₂ : 1.165																																																																																															
				% N ₂ : 0.656		% H ₂ S: -																																																																																															
				Prover: 2.900		Meter Run: F																																																																																															
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="6">FLOW DATA</th> <th colspan="2">TUBING DATA</th> <th colspan="2">CASING DATA</th> <th rowspan="2">Duration of Flow</th> </tr> <tr> <th>NO.</th> <th>Prover Line Size</th> <th>X</th> <th>Orifice Size</th> <th>Press. p.s.i.g.</th> <th>Diff. h_w</th> <th>Temp. °F</th> <th>Press. p.s.i.g. DWT</th> <th>Temp. °F</th> <th>Press. p.s.i.g.</th> <th>Temp. °F</th> </tr> <tr> <td>SI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>3948</td> <td></td> <td>PACKER</td> <td></td> <td>47.0 hrs</td> </tr> <tr> <td>1.</td> <td>2.900</td> <td>8/64</td> <td>1.50</td> <td>310</td> <td>4</td> <td>63</td> <td>3320</td> <td>60</td> <td></td> <td></td> <td>1.0 hr</td> </tr> <tr> <td>2.</td> <td>2.900</td> <td>10/64</td> <td>1.50</td> <td>320</td> <td>15</td> <td>73</td> <td>2817</td> <td>60</td> <td></td> <td></td> <td>1.0 hr</td> </tr> <tr> <td>3.</td> <td>2.900</td> <td>12.5/64</td> <td>1.50</td> <td>325</td> <td>43</td> <td>75</td> <td>2160</td> <td>60</td> <td></td> <td></td> <td>1.0 hr</td> </tr> <tr> <td>4.</td> <td>2.900</td> <td>15/64</td> <td>1.50</td> <td>330</td> <td>62</td> <td>70</td> <td>1630</td> <td>60</td> <td></td> <td></td> <td></td> </tr> <tr> <td>5.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>								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. DWT	Temp. °F	Press. p.s.i.g.	Temp. °F	SI							3948		PACKER		47.0 hrs	1.	2.900	8/64	1.50	310	4	63	3320	60			1.0 hr	2.	2.900	10/64	1.50	320	15	73	2817	60			1.0 hr	3.	2.900	12.5/64	1.50	325	43	75	2160	60			1.0 hr	4.	2.900	15/64	1.50	330	62	70	1630	60				5.											
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NO.	Coefficient (4 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor F _{sp}	Rate of Flow Q, Mscf/D																																																																																														
1	11.23	35.96	323.2	0.9971	1.225	1.031	508.55																																																																																														
2	11.23	70.70	333.2	0.9877	1.225	1.031	990.42																																																																																														
3	11.23	120.59	338.2	0.9859	1.225	1.031	1686.24																																																																																														
4	11.23	145.87	343.2	0.9905	1.225	1.033	2053.23																																																																																														
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Absolute Open Flow: 2573 Mscf @ 15.025 Angle of Slope: 46° 59' Slope m: 0.933																																																																																																					
Remarks: * BOTTOM HOLE PRESSURE @ (-10489) 14124' USED FOR PRESSURE CALCULATIONS WELL PRODUCED 5.9 BD in 4.0 hours = 35.40 BD/D																																																																																																					
Approved by Division		Conducted By: JARREL WELL TESTING, INC		Calculated By: Joe A. Coleman		Checked By: PE #2208 Joe A. Coleman																																																																																															