

MULTIPLE

NEW MEXICO OIL CONSERVATION COMMISSION
AND ONE POINT BACK PRESSURE TEST FOR GAS WELLREC'D BY
OCT 15 1984Form C-122
Revised 9-1-60

Type Test									
4 POINT ☒ Initial ☐ Annual									
Company HOLLY ENERGY - <i>Calantha Pet Corp</i>					Connection TO AIR				
Pool <i>Cadon Lake Morrow</i>					Formation MORROW				
Completion Date 3-2-84		Total Depth 11650		Plug Back 11563		Elevation 3535		API - 30-015-24737	
Case Size 4.500	Wt. 11.6	d 4.052	Set At 11563	Perforations From 11475 To 11491		Well No. #8		Form or Lease Name NELSON FEDERAL	
Thy. Size 2.375	Wt. 4.7	d 1.995	Set At 11423	Perforations From 0 To 0		Unit C		Sec. 3	Twp. 18S
Type Well - Single - Blindhead - G.C. or G.O. Multiple					Factor Set At 11423		County EDDY		
Producing thru TUBING		Reservoir Temp. °F 196° 11483		Mean Annual Temp. °F 60.0		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 11483	H 11483	G _g 0.682	% CO ₂ 0.51	% N ₂ 0.25	% H ₂ O 0	Provar 0	Motor Run 4.0	Taps 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. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.		CHOKE
51							2055		3336		72.0
1.	4.03 X 1.500			230	6.0	94	1550		2755	7/64	1.0
2.	4.03 X 1.500			230	10.0	96	1645		2565	10/64	1.0
3.	4.03 X 1.500			230	22.0	96	1390		2190	13/64	1.0
4.	4.03 X 1.500			240	34.0	90	940		1766	17/64	1.0
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 _{sp}	Rate of Flow Q, Mcfd
1	10.84	38.20	243.2	.9813	1.2109	1.0273	515.
2	10.84	49.32	243.2	.9671	1.2109	1.0219	640.
3	10.84	73.15	243.2	.9688	1.2109	1.0273	986.
4	10.84	92.78	253.2	.9723	1.2109	1.0284	1253.
5							

NO.	P ₁	Temp. °R	T ₁	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	0.36	520.	1.36	0.948	13.3	60.0	0.682	XXXXXXX	670.	383.
2	0.36	520.	1.36	0.948				XXXXXXX		
3	0.36	520.	1.36	0.948						
4	0.38	520.	1.36	0.945						
5										

NO.	P ₁ ²	P _w ²	P ₁ ² - P _w ²	(1) $\frac{P_c^2}{P_1^2 - P_w^2} = 1.4070$	(2) $\left[\frac{P_c^2}{P_1^2 - P_w^2} \right]^n = 1.4070$
1	7663.	1684.	2835.		
2	6647.	1564.	2445.		
3	4854.	1347.	1815.		
4	3166.	1118.	1251.		
5					

Absolute Open Flow		1763.		Mcf @ 15.025		Angle of Slope °		45.0		Slope, n		1.000	
Remarks: BOTTOM HOLE PRESSURES MEASURED WITH AMERADA PRESSURE ELEMENTS.													
Approved by Commission				Conducted by RICHARD TOWNLEY				Calculated by BENNETT S. GATHEY				Checked by	

