

Threshold Development Company
Flag "TD" State Com #
Eddy County, New Mexico
C-103
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- 15) Swabbed well in.
- 16) Acidized perfs. 10,556-10,574' w/2000 gals. 7-1/2% Morflo w/500
SCF nitrogen/bbl and 36 ball sealers.
- 17) Flowed on 16/64" choke, est. gas rate 600 MCF/D.
- 18) Currently SI for pressure buildup.

6-NMOCC-Artesia
1-J. Conquest
1-File

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

Form C-122
Revised 9-1-65
RECEIVED

Type Test ☒ Initial FOUR POINT ☐ Annual ☐ Special						Test Date 8-3-81		SEP 3 1981	
Company THRESHOLD DEVELOPMENT Co.						Connection AIR - NEW WELL		1980 FNL O. C. D.	
Pool Wildcat Atoka						Formation ATOKA		Well No. 1739 FNL	
Completion Date 7-15-81		Total Depth 11,472		Plug Back TD 11,432 / 10800		Elevation 3398KB		Farm or Lease Name FLAG "TD" STATE Co.	
Csq. Size 5.5	Wt. 17/20	d 4.778	Set At 11,432	Perforations: From 10,556 To 10,574		Well No. 1			
Thq. Size 2 7/8	Wt. 6.5	d 2.441	Set At 10,400	Perforations: From OPEN To ENDED		Unit Soc. Twp. Rge. F 18 19S 29E			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple SINGLE						Packer Set At 10,400		County EDDY	
Producing Thru TUBING		Reservoir Temp. °F 163 @ 10565		Mean Annual Temp. °F 60		Baro. Press. - P _a 13.2		State NEW MEXICO	
L 10,565	H 10,565	G _g .5916	% CO ₂ .343	% N ₂ 1.048	% H ₂ S 0	Prover --	Meter Run 4"	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							3865	95			72 HRS+
1.	4"	X	1.75	490	1.0	99	3445	84			1
2.	4"	X	1.75	497	1.7	93	3175	86			1
3.	4"	X	1.75	495	2.0	82	2890	86			1
4.	4"	X	1.75	497	4.0	78	2450	83			1
5.											

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	15.31	22.43	503.2	.9645	1.2997	1.0309	444
2	15.31	29.45	510.2	.9697	1.2997	1.0331	587
3	15.31	31.88	508.2	.9795	1.2997	1.0353	643
4	15.31	45.18	510.2	.9831	1.2997	1.0364	916
5							

NO.	P _r	Temp. °R	T _r	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	.75	559	1.60	.941		0	.5916	X X X X X X X X	672	350
2	.76	553	1.58	.937				X X X X X		
3	.76	542	1.55	.933						
4	.76	538	1.54	.931						
5										

P _c 4815.6 P _c ² 23190.0				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1		4340.2	18837.3	4353.0
2		4020.2	16162.0	7028.0
3		3678.5	13531.4	9659.0
4		3144.2	988.0	13304.0
5				

$$(1) \frac{P_c^2}{P_c^2 - P_w^2} = 1.7431$$

$$(2) \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.4357$$

$$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1,315.1$$

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Absolute Open Flow 1,315.1	Mcfd @ 15.025	Angle of Slope @ 56.9	Slope, n .6509
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Remarks:

Approved By Commission:	Conducted By: DON BENNETT	Calculated By: WOHLFORD & JENKINS	Checked By:
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