

Submit in duplicate to appropriate district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

RECEIVED

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

JUN 22 1992

O. C. D.
OFFICE

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator VISION ENERGY						Lease or Unit Name STATE					
Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 6-15-92		Well No. 1			
Completion Date		Total Depth 823		Plug Back TD 750		Elevation		Unit Ltr. - Sec. - TWP - Rge. m 20 21 28			
Csg. Size 7"	Wt. 24	d	Set At	Perforations: From: 450 To: 650				County EDDY			
Tbg. Size 2 3/8	Wt. 4.7	d 1.995	Set At 450	Perforations: From: To:				Pool w/c Yates			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single						Packer Set At 450		Formation YATES			
Producing Thru TBG		Reservoir Temp. °F		Mean Annual Temp. °F 60°		Baro. Press - P _a 13.2		Connection			
L 450	H 450	Gg .615	% CO ₂ 1.759	% N ₂ 2.465	% H ₂ S -	Prover		Meter Run 3.068		Taps FLG	

FLOW DATA					TUBING DATA		CASING DATA		Duration of Flow	
NO.	Prover Line Size	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						232		Pkr		48 hrs
1.	3 X 1.250		38.7	12.10	98	179		"		1 hr.
2.	3 X 1.250		40.0	15.70	99	170		"		1 hr.
3.	3 X 1.250		44.5	25.70	99	135		"		1 hr.
4.	3 X 1.250		42.6	43.90	96	90		"		1 hr.
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor Ft.	Gravity Factor Fg.	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1.	7.577	25.06	51.9	.9653	1.275	1.001	234
2.	7.577	28.90	53.2	.9645	1.275	1.001	270
3.	7.577	38.34	57.2	.9645	1.275	1.001	376
4.	7.577	49.49	55.8	.9671	1.275	1.001	463
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	Dry Gas	Mcf/bbl.
1.	.07	558	1.57	.999	A.P. I. Gravity of Liquid Hydrocarbons	Dry	Deg.
2.	.07	559	1.57	.999	Specific Gravity Separator Gas	.615	XXXXXXXXXX
3.	.08	559	1.57	.999	Specific Gravity Flowing Fluid	XXXXXX	
4.	.08	550	1.54	.998	Critical Pressure	*672	P.S.I.A.
5.					Critical Temperature	*355	R

P_c **245.2** P_c² **60.1**

NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.		192.4	37.0	23.1
2.		183.5	33.7	26.4
3.		149.0	22.2	37.9
4.		105.0	11.0	49.1
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.224$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.210$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = .561$

Absolute Open Flow	561	Mcf/d @ 15.025	Angle of Slope θ	46.7	Slope, n	.944
--------------------	------------	----------------	------------------	-------------	----------	-------------

Remarks: ***Corrected to 1.759% Co₂ & 2.465% N₂**

Approved By Division	Conducted By: VISION	Calculated By: BM	Checked By: BM
----------------------	--------------------------------	-----------------------------	--------------------------