

NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOIN ID ONE POINT BACK PRESSURE TEST FOR WELL

Form C-122

451

Type Test ☒ Initial ☐ Annual ☐ Special				Test Date 02/21/2000	
Company Yates Petroleum Corp			Connection Agave Energy Company		
Pool Foor Ranch			Formation Wolfcamp/Pre-Permian		Unit
Completion Date 01/11/2000		Total Depth 6246	Plug Back TD 6183	Elevation 3756	Farm or Lease Name Spear OA Federal
Csg. Size 4.500	Wt. 10.500	d 4.000	Set At 6246	Perforations: From 5020 To 6094	Well No. 3
Tbg. Size 2.375	Wt. 4.700	d 1.995	Set At 4960	Perforations: From 5020 To 6094	Unit Sec. Twp. Rge L 15 9S 26E
Type Well Single				Packer Set At 4965	County Chaves
Producing Thru Tubing		Resv. Temp. °F 120 @ 6100	Mean Temp. °F 62	Baro. Press. - Pa 13.2	State New Mexico
L 6246	H 980	Gg 0.640	%CO ₂ 0.162	%N ₂ 3.844	%H ₂ S 0.000
Prover 0.000		Meter Run 2.000		Taps Flange	

FLOW DATA							TUBING DATA		CASING 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.	Temp. °F	
SI	0.000	x	0.000	0	0.0	0	1280	0			0
1	2.067	x	1.375	770	70.0	60	810	60			24
2	2.067	x	1.375	770	72.0	60	797	60			24
3	2.067	x	1.375	770	74.0	60	783	60			24
4	2.067	x	1.375	770	76.0	60	770	60			24
5		x									

RATE OF FLOW CALCULATIONS

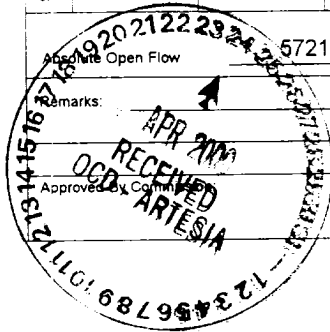
NO	Coefficient (24 Hour)	$\sqrt{\text{hwPm}}$	Pressure Pm	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1	10.200	234.1	783.2	1.0000	1.250	1.072	3200
2	10.200	237.5	783.2	1.0000	1.250	1.072	3245
3	10.200	240.7	783.2	1.0000	1.250	1.072	3290
4	10.200	244.0	783.2	1.0000	1.250	1.072	3334
5							

NO	Pr	Temp °R	Tr	Z	Gas Liquid Hydrocarbon Ratio	Mcf/bbl
1	1.18	520	1.45	0.870	0.000	
2	1.18	520	1.45	0.870	0.640	XXXXXXXXXX
3	1.18	520	1.45	0.870	XXXXXXXXXX	0.640
4	1.18	520	1.45	0.870	665 P.S.I.A.	665 P.S.I.A.
5					358 °R	358 °R

P:	1293.2	Pc:	1672.4	(1) $\frac{Pc^2}{Pc^2 - Pw^2} = 2.145$	(2) $\left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 1.763$
NO	Pt	Pw	Pw ²	Pc ² - Pw ²	
1	677.7	952.4	907.0	765.4	
2	656.4	944.8	892.6	779.7	
3	633.9	936.5	877.1	795.2	
4	613.4	929.3	863.5	808.9	
5					

AOF = Q $\left[\frac{Pc^2}{Pc^2 - Pw^2} \right]^n = 5721$

Approximate Open Flow Mcfd @ 15.025 Angle of Slope 37 Slope, n 0.743



Conducted By: Tom Benedict Calculated By: Katie Brunson Checked By: