EW MEXICO OIL CONSERVATION CO SION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Form C-122
Revised 9-1-65

RECEIVED
5-13-78
AUG - 7 1978
O. C. C.
ARTESIA, OFFICE

~~5-13-78~~

Type Test: [X] Initial [ ] Annual [ ] Special

Company: Texas Pacific Oil Co., Inc.	Connection: No				
Pool: Revelation ~~Morrow~~	Formation: Morrow				Unit: L
Completion Date: 4-5-78	Total Depth: 10,960'	Plug Back TD: 10,876'	Elevation: 3636 GL		Farm or Lease Name: Hackberry Federal
Csg. Size: 5 1/2" / Wt.: 17# / d: / Set At: 10,960'		Perforations: From 10,516' To 10,767'			Well No.: 1
Tbg. Size: 2 3/8" / Wt.: 4.7# / d: / Set At: 9750'		Perforations: From To			Unit: L / Sec.: 3 / Twp.: 22-S / Rge.: 25-E
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single		Packer Set At: 9750'			County: ~~Lea~~ Eddy
Producing Thru: Tubing	Reservoir Temp. °F: 169 @ 10,960'	Mean Annual Temp. °F:	Baro. Press. – P_a: 13.2		State: New Mexico

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
10,642'	10,642'	.62	3.2	.48	0		4.026	

	FLOW DATA					TUBING DATA		CASING DATA		
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	Duration of Flow
SI						2760.5		Packer		
1.	4.026	.75	60	29	99	2479.5		0		60 mins.
2.	4.026	.75	90	35	130	2370		0		60 mins.
3.	4.026	.75	150	53	130	2205.5		0		60 mins.
4.	4.026	.75	200	70	124	1912.5		0		60 mins.
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, Fpv	Rate of Flow Q, Mcfd
1.	2.661	46.07	73.2	.9645	1.27	1	150
2.	2.661	60.09	103.2	.9388	1.27	1	191
3.	2.661	93.00	163.2	.9388	1.27	1.01	298
4.	2.661	122.16	213.2	.9436	1.27	1.012	394
5.							

NO.	P_t	Temp. °R	T_r	Z
1.	.107	559	1.553	1
2.	.151	590	1.639	1
3.	.239	590	1.639	.981
4.	.312	584	1.622	.976
5.				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 0.62 Deg.
Specific Gravity Separator Gas _____ XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX _____
Critical Pressure 683 P.S.I.A. _____ P.S.I.A.
Critical Temperature 360 R _____ R

P_c 3610.2 P_c^2 13033.5

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3364.2	11317.8	1715.7
2		3219.2	10363.2	2670.3
3		2980.2	8881.6	4151.9
4		2666.2	7108.6	5924.9
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{13033.5}{5924.9}$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.85$

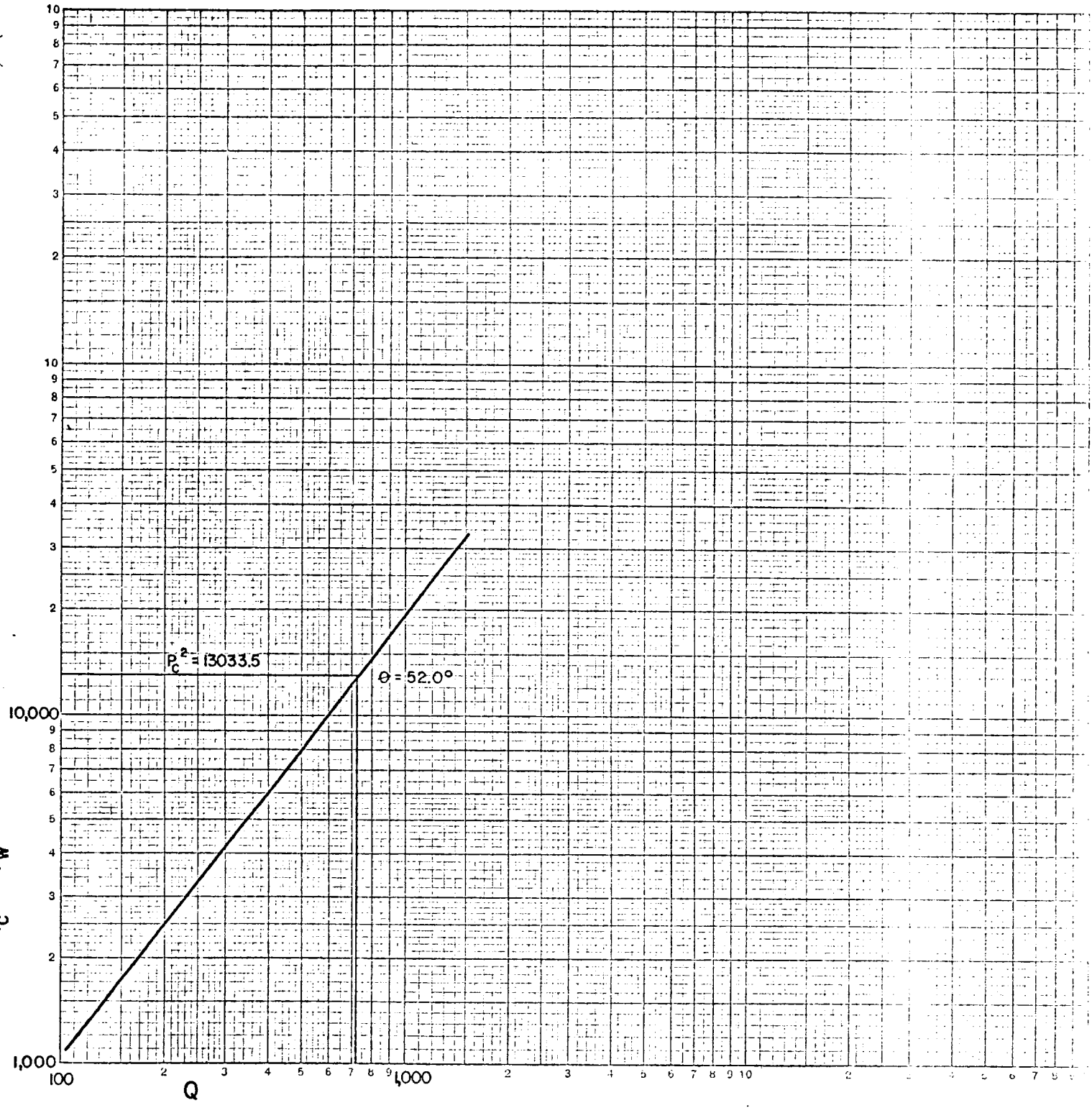
AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 728.70$

Absolute Open Flow ~~728.70~~ Mcfd @ 15.025 Angle of Slope θ 52.0° Slope, n .78

Remarks: Pw submitted for P+ - Measured with Amerada Inst. No. 38116 - Element 5000# @ 10642' (Mid Perf)

Approved By Commission:	Conducted By:	Calculated By:	Checked By:

Texas Pacific Oil Co., Inc.
Hackberry Federal Well No. 1
Unit L, 1980' FWL & 1980' FEL
Sec. 3, T. 22-S, R-25-E, Eddy
Co., New Mexico - Revelation -
Morrow Pool



CAOF = 728.7 MCF/D