

RECEIVED

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Type Test ☒ Initial ☐ Annual

Company Yates Petroleum Corporation

Pool Pecos Slope - Abo Gas
Undesignated Abo

Completion Date 7-9-81

License No. 11-17-81

Service Transwestern Pipeline

Location Abo

Total Depth 4325' KB

Flow, Tank 1 4311'

Flow, Tank 2 4311'

NOV 24 1981

O. C. D.
ARTESIA, OFFICE

Casing Size 4 1/2" Wt. 9.5# d 4.090# Set At 4324'

Tubing Size 2 3/8" Wt. 4.7# d 1.995 Set At 3800'

Perforations: From 3825' To 3800'

Perforations: From 3825' To 3800'

Form or Lease Name Shelby "A" St.

Well No. #1

Unit Sec. 6S Twp. 25E

Type Well - Single - Brdenhead - C.G. or G.O. Multiple Single

Producing Thru Tubing L 3900

Reservoir Temp. °F 99 Mean Annual Temp. °F 62

Baro. Press. 11.7

Prover ---

County New Mexico

State New Mexico

H 3900 Co .651 % CO₂ 0.58 % H₂ 5.5 % H₂S ---

Meter Run 2"

Taps Flanged

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
1	2.067 X 1.250			380.0	83.0	68	770	68			Days
2	2.067 X 1.250			340.0	44.0	70	825	68			24 hrs.
3	2.067 X 1.250			350.0	27.9	70	870	68			24 hrs.
4	2.067 X 1.250			355.0	16.0	71	905	68			24 hrs.
5											24 hrs.

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	6.393	180.65	393.2	.9924	1.239	1.033	1467
2	6.393	124.66	353.2	.9905	1.239	1.030	1007
3	6.393	100.66	363.2	.9905	1.239	1.031	814
4	6.393	76.75	368.2	.9896	1.239	1.030	621
5							

NO.	R _f	Temp. °R	T _f	Z	Gas Liquid Hydrocarbon Ratio	A.P.G. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature
1	.59	528	1.48	.937		67.4			663	357
2	.53	530	1.48	.943						
3	.55	530	1.48	.940						
4	.56	531	1.49	.942						
5										

NO.	P _c ²	P _w ²	R _c ²	P _c ² - P _w ²
1	613.4		643.3	345.1
2	702.8		716.8	271.6
3	790.3		799.4	189.0
4	848.6		853.8	134.6
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = \frac{613.4}{613.4 - 0} = 1.000$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = \frac{613.4}{613.4 - 0} = 1.000$

ACF = $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.000$

Absolute Open Flow 3746

Remarks: _____

Approved By Commission: _____

Conducted By: David Weaver

Checked By: Al ...

COMPANY 1380 Petroleum Co. LEASE Shawnee WELL NO. 20 DATE 11/3/61

LOCATION: Unit 2 Section 2 Township 6S Range 23N

DATE	DESCRIPTION	AMOUNT	CHECK NO.	BANK	REMARKS
12-1-20	CO2	2.50			
12-2-20	CO2	2.50			
12-3-20	CO2	2.50			
12-4-20	CO2	2.50			
12-5-20	CO2	2.50			
12-6-20	CO2	2.50			
12-7-20	CO2	2.50			
12-8-20	CO2	2.50			
12-9-20	CO2	2.50			
12-10-20	CO2	2.50			
12-11-20	CO2	2.50			
12-12-20	CO2	2.50			
12-13-20	CO2	2.50			
12-14-20	CO2	2.50			
12-15-20	CO2	2.50			
12-16-20	CO2	2.50			
12-17-20	CO2	2.50			
12-18-20	CO2	2.50			
12-19-20	CO2	2.50			
12-20-20	CO2	2.50			
12-21-20	CO2	2.50			
12-22-20	CO2	2.50			
12-23-20	CO2	2.50			
12-24-20	CO2	2.50			
12-25-20	CO2	2.50			
12-26-20	CO2	2.50			
12-27-20	CO2	2.50			
12-28-20	CO2	2.50			
12-29-20	CO2	2.50			
12-30-20	CO2	2.50			
12-31-20	CO2	2.50			

1987
CH 2148

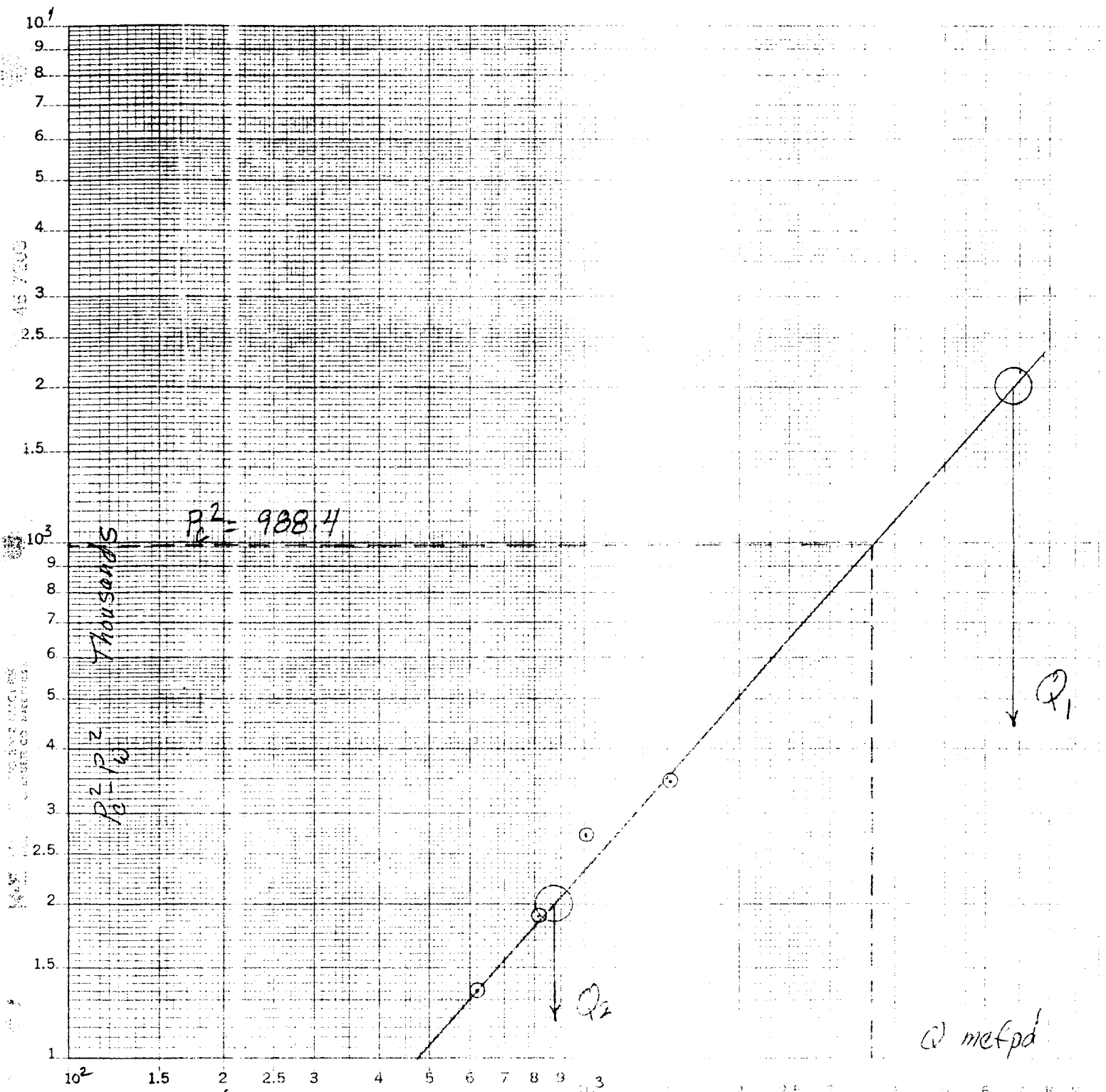
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887

[illegible]

Yates Petroleum Corp.
 Skinny "QC State #1
 Unit 0, Sec 2 - 6S-25E
 Chaves County, New Mexico

11/53/81



$$(P_e^2 - P_w^2)_1 = 2000$$

$$(P_e^2 - P_w^2)_2 = 200$$

$$Q_1 = 6,800 \text{ mcfpd}$$

$$B = 275 \text{ mcfpd}$$

$$\log Q_1 = 3.83251$$

$$\log Q_2 = 2.94201$$

$$n = .89000 = .891$$