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OIL AND GAS DIVISION

Form G-1
Rev. 7/5/66

GAS WELL BACK PRESSURE TEST
COMPLETION OR RECOMPLETION REPORT AND LOG

1. FIELD NAME (as per RRC Records or Wildcat) <i>Wildcat Manow</i>	2. LEASE NAME <i>Federal X</i>	7. RRC District
3. OPERATOR <i>American Quasar Petroleum Company</i>		8. RRC Identification Number
4. ADDRESS <i>600 Vaughn Bldg Midland, Texas 79701</i>		9. Well Number <i>1</i>
5. If Operator has changed within last 60 Days -- Give former Operator		10. County
6. LOCATION (Section, Block, and Survey) <i>19805+660e Sec. 24-20-25</i>		11. Purpose of Test Initial Potential ☒ Retest ☐ Reclass ☐
12. Pipe Line Connection	13. If Workover, give former Field (with Reservoir)	14. Completion Date
15. List of Offset Operators Notified and Date of Notification		14. Completion Date

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SEP 20 1973

U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

Section I

GAS MEASUREMENT DATA

Date of Test			Gas Measurement Method (Check One)							Gas produced during test	
8-7-73			Orifice Meter ☒	Positive Choke ☐	Orifice Vent Meter ☐	Pitot Tube ☐	Critical-flow Prover ☐	71.0 MCF			
Run No.	Line Size	Orifice or Choke Size	24 Hr. Coeff. Orif or Choke	Static P _m or Choke Press	Diff. h _w	Flow Temp. °F	Temp. Factor F _{tt}	Gravity Factor F _g	Compress Factor F _{pv}	Volume MCF/DAY	
1	4	1.000	6292.88	240	14	71	.9896	1.0215	1.018	374	
2	4	1.000	6292.88	390	26	65	.9952	1.0215	1.030	662	
3	4	1.000	6292.88	630	42	64	.9963	1.0215	1.049	1091	
4	4	1.000	6292.88	800	44	60	1.000	1.0215	1.063	1280	

Section II

FIELD DATA AND PRESSURE CALCULATIONS

Gravity (Dry Gas)		Gravity Liquid Hydrocarbon		Gas-Liquid Hydro Ratio		Gravity of Mixture		Avg. Shut-In Temp.		Bottom Hole Temp.		
.576		0		0		G _{mix} = .576		124 °F		163F@ 9931 (Depth)		
D _{eff} ^{8/3} = 8.786		√T _f = √ = 24.18				√GL = √ = 75.63						
C = $\frac{1118 \times (D_{eff})^{8/3}}{\sqrt{T}}$ = 406.3						$\frac{\sqrt{GL}}{C} = \underline{\hspace{2cm}} = .1861$						
Run No.	Time of Run Min.	Choke Size	Wellhead Press P _w PSIA	Wellhead Flow Temp. °F	P _w ² (Thousands)	R	R ² (Thousands)	P ₁	P _w /P ₁			
Shut-In			3014	84	9084							
1	30	4/64	2666	84	7107	69.8	4.9	2666.9	1.000			
2	30	7/64	2476	85	6130	123.4	15.2	2479.1	.999			
3	30	10/64	2016	87	4064	203.2	41.3	2026.2	.995			
4	30	14/64	1477	90	2181	238.4	56.8	1496.1	.987			
Run No.	F	K	S = $\frac{1}{z}$	E _{ks}	P _f and P _s	P _f ² and P _s ²	P _f ² - P _s ²	Angle of Slope				
Shut-In			.1836	1.144	1.234	3718	13829		θ = 53.5°			
1	1.000	.1835	1.164	1.238	3302	10903	2926.4	n = .740				
2	1.000	.1834	1.171	1.240	3073	9443	4386.1	Absolute Open Flow				
3	.998	.1830	1.172	1.239	2510	6304	7525.0	1530 MCF/DAY				
4	.994	.1823	1.146	1.232	1843	3399	10430.1					

OPEN FLOW TEST:

Shut-In Press	Psig
Time Shut In	Hrs.
Producing Through	
In. H ₂ O	In. Hg.
Time	Reading
15	25
20	20

W. J. Harris, Wireline Service Company
REPRESENTATIVE OF COMPANY MAKING TEST

REPRESENTATIVE OF RAILROAD COMMISSION

CERTIFICATE:

I declare under penalties prescribed in Article 6036c, R.C.S., that I am authorized to make this report, that this report was prepared by me or under my supervision and direction, and that data and facts stated therein are true, correct, and complete, to the best of my knowledge.

Agent

8-15-73

DATE

REPRESENTATIVE OF COMPANY

TITLE