

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Blanco Formation Mesa Verde County San Juan
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed _____
Operator El Paso Natural Gas Company Lease Stewart Well No. 4
Unit K Sec. 28 Twp. 30 Rge. 10 Pay Zone: From 4716 To 4802
Casing: OD 5 1/2 WT. 15.5 Set At 5158 Tubing: OD 2" WT. 4.7 T. Perf. 5016
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .655 Estimated _____
Date of Flow Test: From 8-23-56 To 8-31-56 * Date S.I.P. Measured 3-29-56
Meter Run Size 4 Orifice Size _____ Type Chart Sq. Root Type Taps F

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken:
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____)² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.10)² x sp. const. _____ = 504 psia (g)
Corrected seven day avge. meter press. (p_f) (g) + (e) _____ = 504 psia (h)
P_t = (h) + (f) _____ = 504 psia (i)
Wellhead casing shut-in pressure (Dwt) 1065 psig + 12 = 1077 psia (j)
Wellhead tubing shut-in pressure (Dwt) 1066 psig + 12 = 1078 psia (k)
P_c = (j) or (k) whichever well flowed through _____ = 1078 psia (l)
Flowing Temp. (Meter Run) 76 °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = 539 psia (n)

FLOW RATE CALCULATION

$$Q = \frac{346}{(\text{integrated})} \times \left(\frac{\sqrt{(c)}}{\sqrt{(d)}} \right) = \text{_____ MCF/day}$$

DELIVERABILITY CALCULATION

$$D = Q \frac{346}{\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^{.9621}} = \frac{871,563}{905,814}^{.9621} = \frac{.9621}{.9714} = 336 \text{ MCF/day}$$

SUMMARY

P_c = 1078 psia
Q = 346 Mcf/day
P_w = 506 psia
P_d = 539 psia
D = 336 Mcf/day

Company El Paso Natural Gas Company
By H. D. Galloway by Tom Grant
Title Senior Gas Eng.
Witnessed by _____
Company _____

* This is date of completion test.
* Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-s})	(F _c Q) ²	(F _c Q) ² (1-e ^{-s})	P _t ²	P _t ² + R ²	P _w
			R ²	(Column i)		
3285	.213	10582	2254	254,016	256,270	506

D @ 500 = 344

OK



THE UNIVERSITY OF CHICAGO

[illegible]

633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000
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1. The first of the two main parts of the report is a description of the current state of the world's oceans. This section discusses the various threats to marine life, including overfishing, pollution, and climate change. It also highlights the importance of marine ecosystems and the need for sustainable management practices.	100
2. The second part of the report is a detailed analysis of the impact of climate change on the world's oceans. This section examines the rising sea levels, ocean acidification, and the warming of the oceans. It also discusses the potential consequences for marine life and the need for international cooperation to address these challenges.	100
3. The third part of the report is a discussion of the role of the United Nations in addressing the challenges facing the world's oceans. This section highlights the efforts of the United Nations to promote sustainable development and the need for a global framework for the management of the world's oceans.	100
4. The fourth part of the report is a conclusion and a call to action. This section summarizes the key findings of the report and emphasizes the need for urgent action to protect the world's oceans. It also calls for increased international cooperation and the implementation of sustainable management practices.	100

605	012, 015	010, 013	4833	01701	012.	013
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$$10^{-1} \text{ Hz} = 0.0001 \text{ s}^{-1}$$
