ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO

C/SF
C-122
M565

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

RECEIVED
FEB 19 1982
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special — Test Date: 2-9-82

Company: MEADCO, LTD. ✓	Connection: El Paso Natural Gas Company		Unit: N
Pool: Golden Lane Morrow	Formation: Morrow		
Completion Date: 9-8-81	Total Depth: ~~12,800~~ 12796	Plug Back TD: 12776	Elevation:
Farm or Lease Name: Harris Fed			
Csg. Size: 5 1/2" / Wt.: 17 / d: 4.892 / Set At: ~~12,800~~ 12796	Perforations: From 12,310 To 12,775		Well No.: 2
Tbg. Size: 2 3/8" / Wt.: 4.7 / d: 1.995 / Set At: 10,403	Perforations: From Open To end		Unit: N / Sec.: 5 / Twp.: 21 / Rge.: 29
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: Single	Packer Set At: 10,370		County: Eddy
Producing Thru: Tbg.	Reservoir Temp. °F: 199 @12,542.5	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2
State: New Mexcio			

* L	* H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
12,542.5	12,542.5	.605	.90	.68	.12 Gr.		4"	Flg.

FLOW DATA

NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA Press. p.s.i.g.	TUBING DATA Temp. °F	CASING DATA Press. p.s.i.g.	CASING DATA Temp. °F	Duration of Flow
SI							3568				24 hr.
1.	4	x	1.00	149	5.06	52	3357				1 hr.
2.	4	x	1.00	192	9.0	60	3253				1 hr.
3.	4	x	1.00	223	23.04	66	3029				1 hr.
4.	4	x	1.00	234	57.76	64	2660				1 hr.
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	4.753	28.65	162.2	1.008	1.286	1.015	179
2.	4.753	42.97	205.2	1.000	1.286	1.019	268
3	4.753	73.77	236.2	.9943	1.286	1.020	457
4.	4.753	119.49	247.2	.9962	1.286	1.022	744
5.							

NO.	P_r	Temp. °R	T_r	Z
1	.24	512	1.43	.971
2.	.31	520	1.45	.964
3.	.35	526	1.47	.961
4.	.37	524	1.46	.958
5				

Gas Liquid Hydrocarbon Ratio _____ Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons _____ Deg.
Specific Gravity Separator Gas .605 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure 671 P.S.I.A. _____ P.S.I.A.
Critical Temperature 358 R _____ R

P_c 3581.2 P_c^2 12825.0

NO	P_w	P_w^2	$P_c^2 - P_w^2$
1	3370.4	11359.3	1465.7
2	3266.5	10670.3	2154.7
3	3043.2	9261.3	3563.7
4	2676.2	7162.3	5662.7
5			

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 2.265$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2.265$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.685$

Absolute Open Flow 1,685 Mcfd @ 15.025 Angle of Slope θ 45 Slope, n 1.000

Remarks: No fluid made during test.
* Effective diameter is 2.066 calculated to mid-perfs. Friction factor is .016234.

Approved by Division	Conducted by:	Calculated by:	Checked by:
	Bill Rea and Roy McGowen--EP Explor	Roy McGowen	

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