NEW MEXICO OIL CONSERVATION COMMISSION

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

File
Form C-122
Revised 10-1-78
C-122 File

RECEIVED

SEP 25 1980

O. C. D.
ARTESIA, OFFICE

Test: [X] Initial [ ] Annual [ ] Special	Test Date: 9-16-80		
Company: BASS ENTERPRISES ✓	Connection: AIR		
Pool: ~~UNDESIGNATED~~ Bass Morrow	Formation: LOWER MORROW	Unit:	
Completion Date: 09-12-80	Total Depth: 12370	Plug Back TD: 12250	Elevation: 3221 GL
Lease or Lease Name: BIG EDDY Unit			
Csg. Size: 5½	Wt.: 17	d:	Set At: 12370
Perforations: From 11913 To 11991	Well No.: # 79-Y		
Tbg. Size: 2 3/8	Wt.: •	d:	Set At: 11870
Perforations: From To	Unit: J	Sec.: 21	Twp.: 21s
Rge.: 28e			
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: SINGLE GAS	Packer Set At: 11850	County: EDDY	
Producing Thru: TBG.	Reservoir Temp. °F: 192@11849	Mean Annual Temp. °F: 60°	Baro. Press. - P_a: 13.2
State: NEW MEXICO			
L: 11849	H: 11849	Gg: .5961	% CO_2: 1.820
% N_2: .307	% H_2S:	Prover:	Meter Run: 4"
Taps: FLG.			

NO.	FLOW DATA: Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	TUBING DATA: Press. p.s.i.g.	Temp. °F	CASING DATA: Press. p.s.i.g.	Temp. °F	Duration of Flow
SI					3430				64 hr.
1.	4 x 1.250	515	2.0	98	3090				1 hr.
2.	4 x 1.250	525	6.0	116	2810				1 hr.
3.	4 x 1.250	540	12.5	102	2360				1 hr.
4.	4 x 1.250	540	18.0	96	1910				1 hr.
5.	4 x 1.250	545	21.0	96	900				4 hr.

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	7.469	32.50	528.2	.9653	1.295	1.035	314
2	7.469	56.83	538.2	.9501	1.295	1.032	539
3	7.469	83.16	553.2	.9619	1.295	1.036	802
4	7.469	99.79	553.2	.9671	1.295	1.039	970
5	7.469	108.27	558.2	.9671	1.295	1.039	1052

NO.	P_t	Temp. °R	T_r	Z
1	.79	558	1.56	.933
2	.80	576	1.61	.939
3	.82	562	1.57	.931
4	.82	556	1.55	.927
5	.83	556	1.55	.926

Gas Liquid Hydrocarbon Ratio: DRY Mcf/bbl.

API Gravity of Liquid Hydrocarbons: Deg.

Specific Gravity Separator Gas: .5961 XXXXXXXX

Specific Gravity Flowing Fluid: XXXXX

Critical Pressure: 671 P.S.I.A. P.S.I.A.

Critical Temperature: 358 R R

P_c 3443.2 P_c^2 11855.6

NO.	P_w	P_w	P_w^2	$P_c^2 - P_w^2$
1	4209.2	3274.2	10720.1	1135.5
2	3963.2	3070.5	9427.7	2427.9
3	3447.2	2651.5	7030.6	4825.0
4	2877.2	2204.8	4861.2	6994.4
5	2570.2	1217.2	1481.6	10374.0

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.695$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.345$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.305$

S.I.P. 4570.2

Absolute Open Flow: 1305 Mcfd @ 15.025

Angle of Slope θ: 60.75 Slope, n: .562

Remarks: The well procduced ½ bbl. H2o during the test.

Approved by the Commission	Conducted By:	Calculated By:	Checked By:
	DAVIS SERVICES, INC.	RICK PAGAN	