

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator TEXACO EXPLORATION					Lease or Unit Name DOW "B" 33 FED				
Type Test ☒ Initial ☐ Annual ☐ Special					Test Date 3/24/97		Well No. 2		
Completion Date 3-22-97		Total Depth 12100		Plug Back TD 12075		Elevation 5000			
Csg. Size 5 1/2	WL 17#	d 4.892	Set At 12100	Perforations: From: 11242 To: APR 8 8 1337			County EDDY		
Tbg. Size 2-7/8	WL 6.5	d 2.441	Set At 11107	Perforations: From: 11000 To: 11100			Pool Loco Hills Area		
Type Well - Single - Bradenhead - G.G. or G.O. Multiple single				Packer Set At 11107			Formation ATOKA		
Producing Thru TBG		Reservoir Temp. °F 186.4		Mean Annual Temp. °F 60°		Baro. Press. - P _a 13.2		Connection SALES	
L 11242	H 11242	Gg .689	% CO ₂ .12	% N ₂ 2.24	% H ₂ S -0-	Prover -0-	Meter Run 3.068	Taps FLG.	

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.	
SI							3015		PKR	
1.	3.068 X	1.375		485	20	93°	2212	68°	"	
2.	3.068 X	1.375		487	25.5	95°	1954	70°	"	
3.	3.068 X	1.375		487	31	92°	1780	72°	"	
4.	3.068 X	1.375		487	38	91°	1745	72°	"	
5.										

RATE OF FLOW CALCULATIONS							
NO.	COEFFICIENT (24 HOUR)		Pressure P _m	Flow Temp. Factor Ft	Gravity Factor Fg	Super Compress. Factor, Fpv	Rate of Flow Q, Mcfd
1.							1.185
2.		VOLUMS FROM TOTAL FLOW METER					1.322
3.							1.450
4.							1.576
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	20.958	Mcf/bbl.
1.					A.P. I. Gravity of Liquid Hydrocarbons	57°	Deg.
2.					Specific Gravity Separator Gas	.689	XXXXXXXXXX
3.					Specific Gravity Flowing Fluid	XXXXXX	
4.					Critical Pressure	670	P.S.I.A. P.S.I.A.
5.					Critical Temperature	378	R R

P _c 3028.2 - P _w ² 9169.9				
NO.	P _t ²	P _w	P _w ²	P _c ² - P _w ²
1.	4951.5	2229.0	4968.5	4201.5
2.	3869.9	1972.5	3190.9	5279.1
3.	3215.6	1800.2	3240.9	5929.1
4.	3091.3	1766.7	3121.2	6048.8
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.51$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 2.219$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2} \right]^n = 1.408$

Absolute Open Flow	2.219	Mcf/d @ 15.025	Angle of Slope θ	50.5	Slope, n	.822
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Remarks: **WELL MADE 11 BBLS OF 57° GRAVITY CONDENSATE**

Approved By Division	Conducted By: PRO WELL TESTING & WIRELINE MB	Calculated By:	Checked By: BM
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