NEW MEXICO OIL CONSERVATION COMMISSION
MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

C-25
Form C-122
Revised 9-1-65

RECEIVED
JUL 9 1980
O. C. D.
ARTESIA, OFFICE

Type Test: [X] Initial [ ] Annual [ ] Special | Test Date: 07/02/80

Company: MEXCO OIL Co.	Connection: AIR		
Pool: Wildcat	Formation: WOLFCAMP		
Completion Date: - - 80	Total Depth: 14300	Plug Back T.D.	Elevation: 3[illegible]
Unit Letter: H	Section: 34	Township: 25	Range: 29
Lease Name: BISON WALLOW Unit	Well No.: # 1		

Csg. Size	Wt.	d	Set At	Perforations
5½	20		14300	From 11379 To 11449
Tbg. Size	Wt.	d	Set At	Perforations
2 7/8	6.5		11315	From To

Type well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE
Packer Set At: 11315
County: EDDY
Producing Thru: TBG.
Reservoir Temp. °F: 187 @ 11315
Mean Annual Temp. °F: 60
Baro. Press. – P_a: 13.2
State: NEW MEXICO

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
11315	11315	.6426	.414	1.385			4"	FLG.

FLOW DATA / TUBING DATA / CASING DATA

NO.	Prover Line Size X Orifice Size	Press. p.s.i.g.	Diff. h_w	Temp. °F	Tubing Press. p.s.i.g.	Tubing Temp. °F	Casing Press. p.s.i.g.	Casing Temp. °F	Duration of Flow
SI					5940				72 HRS.
1.	4 X 1.750	260	4.0	88	3750				1HR.&30mi
2.	4 X 1.750	450	10.0	80	3455				2HR.&15mi
3.	4 X 1.750	450	30.0	88	3175				1HR.&15m
4.	4 X 2.250	600	9.0	68	2700				2 HRS.
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	14.93	33.06	273.2	.9741	1.247	1.024	614
2	14.93	68.06	463.2	.9813	1.247	1.041	1294
3	14.93	117.88	463.2	.9741	1.247	1.039	2221
4	25.64	74.29	613.2	.9924	1.247	1.060	2499
5							

NO.	P_t	Temp. °R	T_t	Z
1	.41	548	1.47	.954
2	.69	540	1.45	.922
3	.69	548	1.47	.926
4	.92	528	1.42	.890
5				

Gas Liquid Hydrocarbon Ratio 30.531 Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons 61.4 @ 60 Deg.
Specific Gravity Separator Gas .6426 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX .733
Critical Pressure 670 P.S.I.A. 668 P.S.I.A.
Critical Temperature 372 R 401 R

P_c 5953.2 P_c^2 35440.6

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		3763.5	14163.9	21276.7
2		3486.1	12152.9	23287.7
3		3200.0	10240.0	25200.6
4		2728.7	7445.8	27994.8
5				

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.406$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.406$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.123$

Absolute Open Flow: 3,123 Mcfd @ 15.025 Angle of Slope θ: 1.000 Slope, n: 45

Remarks: 15.84 BBLS. OF DISTILLATE WERE PRODUCED

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