OIL CONSERVATION DIVISION

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

P. O. BOX 2088
SANTA FE, NEW MEXICO 87501

Form C-122
Revised 10-1-78

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test: [X] Initial [ ] Annual [ ] Special		Test Date: 6-19-91	
Company: MERIDIAN OIL INCORPORATED	Connection: El Paso Natl Gas ~~SID RICHARDSON CARRON & GASOLINE~~		
Pool: JALMAT	Formation: YATES SEVEN RIVERS		Unit:
Completion Date: 5-10-91	Total Depth: 3,607	Plug Back TD: 2890	Elevation: 2980 GL
Farm or Lease Name: SHEPERD B			
Csg. Size: 5 1/2	Wt.: 15.5	d:	Set At: 3597
Perforations: From 2715 To 2875	Well No.: 7		
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 2733
Perforations: From To	Unit: B	Sec.: 5	Twp.: 26S
Rge.: 37E			
Type Well – Single – Bradenhead – G.G. or G.O. Multiple: SINGLE	Packer Set At: NONE	County: LEA	
Producing Thru: CSG.	Reservoir Temp. °F: 101 @ 2715	Mean Annual Temp. °F: 60	Baro. Press. – P_a: 13.2
State: NEW MEXICO			
L: 2715	H: 2715	Gg: .708	% CO_2: 3.31
% N_2: 1.38	% H_2S:	Prover:	Meter Run: 4.026
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.	Temp. °F	
SI					PUMP JACK		186		24 HRS.
1.	4 X 1.500	18	4.00	87	PUMP JACK		177		1 HR
2.	4 X 1.500	19	9.61	98	PUMP JACK		166		1 HR
3.	4 X 1.500	20	16.00	103	PUMP JACK		155		1 HR
4.	4 X 1.500	23	27.04	108	PUMP JACK		136		1 1/2 HRS
5.	4 X 1.500	24	34.81	108	PUMP JACK		118		1 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	10.84	11.17	31.2	.9750	1.188	1.005	141
2.	10.84	17.59	32.2	.9653	1.188	1.006	220
3.	10.84	23.05	33.2	.9610	1.188	1.006	287
4.	10.84	31.29	36.2	.9568	1.188	1.010	389
5.	10.84	35.99	37.2	.9568	1.188	1.010	448

NO.	P_t	Temp. °R	T_t	Z
1.	.04	547	1.42	.990
2.	.04	558	1.45	.989
3.	.04	563	1.46	.989
4.	.05	568	1.47	.980
5.	.05	568	1.47	.980

Gas Liquid Hydrocarbon Ratio N/A Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons N/A Deg.
Specific Gravity Separator Gas .708 XXXXXXXXX
Specific Gravity Flowing Fluid XXXXX
Critical Pressure *679 P.S.I.A. P.S.I.A.
Critical Temperature *384 R R

P_c 199.2 P_c^2 39.7

NO	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1		190.2	36.2	3.5
2		179.2	32.1	7.6
3		168.3	28.3	11.4
4		149.4	22.3	17.4
5		131.5	17.3	22.4

(1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.772$

(2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.479$

$AOF = Q \left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = .659$

Absolute Open Flow 659 Mcfd @ 15.025 Angle of Slope θ 56 Slope, n .673

Remarks: * CORRECTED TO 3.31% CO2 & 1.30 % N2
WELL MAKES 17 BBLS H2O/DAY & NO OIL

Approved By Division	Conducted By:	Calculated By:	Checked By:
	JOHN WEST ENGINEERING	BM	BM