C/SF

Submit in duplicate to ~~appropriate~~ district office
See Rule 401 & Rule 1122

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-122
Revised 4-1-91

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: Read & Stevens, Inc.						Lease or Unit Name: Bandit State #1			
Type Test: [X] Initial [ ] Annual [ ] Special						Test Date: 4-3-97		Well No.: 1	
Completion Date: 3-31-97		Total Depth: 11841		Plug Back TD: 11500		Elevation:		Unit Ltr. - Sec. - TWP - Rge.: 10 23 26	
Csg. Size: 5½	Wt.: 17#	d:	Set At: 11841	Perforations: From: 10560	To: 10708			County: Eddy	
Tbg. Size: 2 3/8	Wt.: 4.7	d: 1.995	Set At: 10848	Perforations: From:	To:			Pool: Frontier Hills Strawn	
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: Single				Packer Set At: 10848				Formation: Strawn	
Producing Thru: Tbg.	Reservoir Temp. °F: 186.6@10460	Mean Annual Temp. °F: 60		Baro. Press - P_a: 13.2				Connection: Vented	
L: 10460	H: 10460	G_g: .600	% CO_2: .82	% N_2: .47	% H_2S:	Prover:		Meter Run: 3.068	Taps: 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						3200		pkr		72 hrs.
1.	3	x 1.750	150	6.50	110	3040		pkr		1 hr.
2.	3	x 1.750	160	18.00	100	2980		pkr		1 hr.
3.	3	x 1.750	165	30.00	95	2875		pkr		1 hr.
4.	3	x 1.750	205	64.00	80	2460		pkr		1 hr.
5.										

RATE OF FLOW CALCULATIONS

NO.	COEFFICIENT (24 HOUR)	$\sqrt{h_w P_m}$	Pressure P_m	Flow Temp. Factor F_t	Gravity Factor F_g	Super Compress. Factor, F_{pv}	Rate of Flow Q, Mcfd
1.	15.61	32.57	163.2	.9551	1.291	1.010	633
2.	15.61	55.84	173.2	.9636	1.291	1.012	1,097
3.	15.61	73.12	178.2	.9680	1.291	1.012	1,444
4.	15.61	118.17	218.2	.9813	1.291	1,017	2,377
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.24	570	1.59	.981
2.	.25	560	1.56	.977
3.	.26	555	1.55	.977
4.	.32	540	1.50	.967
5.				

Gas Liquid Hydrocarbon Ratio: Dry Gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: Dry Deg.
Specific Gravity Separator Gas: .600 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 671 P.S.I.A. P.S.I.A.
Critical Temperature: 358 R R

** P_c 3234.4 P_c^2 10461.3

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.	**	3216.9	10348.5	112.8
2.	**	3153.3	9943.3	518.0
3.	**	3078.4	9476.6	984.7
4.	**	2962.9	8778.8	1682.5
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 6.218$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 3.625$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 8.616$

Absolute Open Flow: 8,616 Mcfd @ 15.025 | Angle of Slope θ: 54.8 | Slope, n: .7047

Remarks: * = BHP Instr. Set @ This Depth.
** = Cal. From Known BHP'S Corrected Back To Surface Press.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	Guardian	B.M.	B.M.