WELL NAME & NUMBER Apache "25" Fed. #1

LOCATION Sec. 25, T22S, R30E
(Give Unit, Section, Township and Range)

OPERATOR Mitchell Energy Corp. 400 W. Illinois, Ste. 1000 Midland, Tx. 79701

DRILLING CONTRACTOR Grace Drilling Company P.O. Box 13480 Odessa, Tx. 79768

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above-described well and that he has conducted deviation tests and obtained the following results:

DEGREES @ DEPTH	DEGREES @ DEPTH	DEGREES @ DEPTH	DEGREES @ DEPTH
0.25 375	1.25 7326		
0.50 550	1.25 7731		
0.50 1026	2.00 8199		
0.75 1520	1.75 8691		
1.00 2005	1.00 9228		
1.00 2532	1.25 9702		
0.50 3032	1.25 10523		
1.00 3255	2.25 11013		
1.00 3800	1.75 11529		
0.75 4299	1.25 12516		
0.50 4800	1.25 12663		
0.50 5300	1.50 12951		
0.25 5800	1.50 13068		
1.00 6335	2.00 13625		
1,50 6821	1.75 14191		

Drilling Contractor Grace Drilling Company

By _____
L. V. Bohannon, Drlg. Supt.

Subscribed and sworn to before me this 13 day of July, 19 93

Joann McMahon
Notary Public

My Commission Expires _____ Ector County TX

REGINAL [illegible]
NOTARY PUBLIC
STATE OF TEXAS
My Comm Expires 5-26-96

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

c/S.F. File

OIL CONSERVATION DIVISION

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

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Operator: MITCHELL ENERGY				Lease or Unit Name: Apache 25	
Type Test: [X] Initial [ ] Annual [ ] Special				Test Date: 10-15-93	Well No.: 1
Completion Date: 10-13-93	Total Depth: 14430		Plug Back TD: 13635	Elevation:	Unit Ltr. - Sec. - TWP - Rge.: 25-22S-30E
Csg. Size: 4½	Wt.: 13.5	d: 3.920	Set At: 14430	Perforations: From: 12982 To: 12992	County: Eddy
Tbg. Size: 2 7/8 / 2 3/8	Wt.: 6.5 / 4.7	d: 2.441 / 1.995	Set At: 11950 / 12920	Perforations: From: To:	Pool: Los Medanos Atoka
Type Well - Single - Bradenhead - G.G. or G.O. Multiple: single			Packer Set At: 12900'		Formation: ATOKA
Producing Thru: TBG.	Reservoir Temp. °F: 206	Mean Annual Temp. °F: 60°	Baro. Press - P_a: 13.2		Connection: AIR

L	H	Gg	% CO_2	% N_2	% H_2S	Prover	Meter Run	Taps
12987	12987	.666	5.96	1.13			3.826	flng.

	FLOW DATA				TUBING DATA		CASING DATA		
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	Duration of Flow
SI					1563.2				
1.	3.826 X 1.000	540	6	96	1433.2		PKR.		1 hr.
2.	3.826 X 1.000	550	15	105	1313.2				1 hr.
3.	3.826 X 1.000	600	50	115	1093.2				1 hr.
4.	3.826 X 1.000	520	40	120	533.2				1 hr.
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, F pv.	Rate of Flow Q, Mcfd
1.	4.758	57.61	553.2	.9671	1.225	1.043	339
2.	4.758	91.91	563.2	.9594	1.225	1.043	536
3.	4.758	175.1	613.2	.951	1.225	1.035	1005
4.	10.88	146.04	533.2	.9469	1.225	1.031	1900
5.							

NO.	P_r	Temp. °R	T_r	Z
1.	.80	556	1.53	.920
2.	.81	565	1.55	.919
3.	.88	575	1.58	.933
4.	.77	580	1.59	.940
5.				

Gas Liquid Hydrocarbon Ratio: dry gas Mcf/bbl.
A.P.I. Gravity of Liquid Hydrocarbons: dry Deg.
Specific Gravity Separator Gas: .666 XXXXXXXXX
Specific Gravity Flowing Fluid: XXXXX
Critical Pressure: 694 P.S.I.A. P.S.I.A.
Critical Temperature: 364 R R

P_c *1588.9 P_c^2 2524.6

NO.	P_t^2	P_w	P_w^2	$P_c^2 - P_w^2$
1.		1444.9	2087.7	436.9
2.		1319.0	1739.8	784.8
3.		1069.1	1143.0	1381.6
4.		574.4	329.9	2194.7
5.				

1) $\frac{P_c^2}{P_c^2 - P_w^2} = 1.150$ (2) $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 1.150$

AOF = Q $\left[\frac{P_c^2}{P_c^2 - P_w^2}\right]^n = 2186$

Absolute Open Flow: 2186 Mcfd @ 15.025 Angle of Slope θ: 45° Slope, n: 1.0

Remarks: *CALCULATED FROM KNOWN BHP
NO LIQUID PRODUCED DURING TEST.

Approved By Division	Conducted By:	Calculated By:	Checked By:
	PRO WELL TESTERS	KS	KS