

BASS ENTERPRISES PRODUCTION CO.
DIVISION PRODUCTION OFFICE
P. O. BOX 2760
MIDLAND, TEXAS 79702

June 12, 1981

RECEIVED

JUN 18 1981

O. C. D.
ARTESIA, OFFICE

800 VAUGHN BUILDING
(915) 684-5723

Re: Gas Analyses Comparison for
Production Identification
Poker Lake Unit No. 50
B 4-25-31
Eddy County, N. M.
File: 400-WF

New Mexico Oil Conservation Division
District II
Drawer DD
Artesia, N. M. 88210

ATTN: Mr. W. A. Gressett, Supervisor

Gentlemen:

With respect to our recent conversation concerning the possibility of identifying by gas analysis the zone of completion in the captioned well, Bass respectfully submits the following table:

GAS ANALYSES COMPARISON TABLE
POKER LAKE AREA

	POKER LAKE 50 ?	COTTON DRAW 68 WOLFCAMP	(WOLF LABS) ? ATOKA	(WOLF LABS) ? STRAWN
CO ₂	0.22	0.630	0.17	0.58
N ₂	0.49	0.535	0.58	1.08
CH ₂	88.58	89.834	88.64	87.32
(1) C ₂ H ₄	7.07	5.574	6.20	7.12
(2) C ₃ H ₆	1.98	2.008	2.50	2.29
(3) iC ₄ H ₈	0.39	0.366	0.30	0.44
(4) nC ₄ H ₈	0.53	0.589	0.70	0.60
(5) iC ₅ H ₁₀	0.16	0.140	0.15	0.20
(6) nC ₅ H ₁₀	0.14	0.152	0.15	0.15
+	0.44	0.074	0.61	0.22
BTU (dry)	1133	1111	1146*	1127*
BTU (wet)	1113	1091		
Gravity	0.642	0.632	0.6524**	0.6518**