

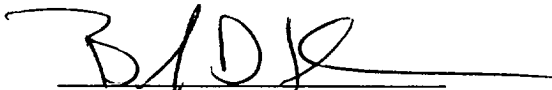
N. M. OIL FIELD
3110 17TH ST
ARTESIA, NM 88203-4001

Texaco Exploration & Production, Inc.
No. 1-1 Texmack 1 Federal Com.
1650' FNL & 330' FWL sec. 1, T. 17 S., R. 31 E.
Federal Lease LC-049998(b)

State of Texas
County of Midland

cls P

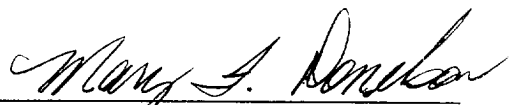
I, Boyd D. Schaneman, certify that; I am employed by Texaco E & P Inc; that I did on the days of 7-19-99 through 9-5-99 conduct or supervise the taking of magnetic single shot surveys from a depth of 212' to a depth of 12,447' feet; that the data is true, correct, complete to the best of my knowledge, and within the limitations of the tool; that I am authorized and qualified to make this report; that this survey was conducted by and for Texaco E & P Inc. for the **Texmack 1 Federal Com #1 well, API # 30-015-30512 in Eddy County, New Mexico**; and that I have reviewed this report and find that it conforms to the principals and procedures as set forth by Texaco E & P Inc.

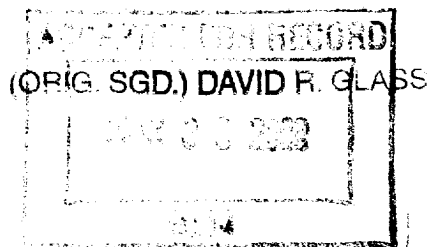

Drilling Engineer


Witness


Witness




Notary Signature



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WELL NAME	MEASURED DEPTH	INCLINATION degrees
TEXMACK "1" FEDERAL COM #1	212	0.50
TEXMACK "1" FEDERAL COM #1	425	0.50
TEXMACK "1" FEDERAL COM #1	920	0.50
TEXMACK "1" FEDERAL COM #1	1,383	0.50
TEXMACK "1" FEDERAL COM #1	1,866	0.75
TEXMACK "1" FEDERAL COM #1	2,353	1.00
TEXMACK "1" FEDERAL COM #1	2,848	0.50
TEXMACK "1" FEDERAL COM #1	3,336	1.25
TEXMACK "1" FEDERAL COM #1	3,832	1.25
TEXMACK "1" FEDERAL COM #1	4,048	0.25
TEXMACK "1" FEDERAL COM #1	4,498	0.50
TEXMACK "1" FEDERAL COM #1	4,969	0.50
TEXMACK "1" FEDERAL COM #1	5,461	0.50
TEXMACK "1" FEDERAL COM #1	5,950	1.00
TEXMACK "1" FEDERAL COM #1	6,448	0.50
TEXMACK "1" FEDERAL COM #1	6,697	0.75
TEXMACK "1" FEDERAL COM #1	7,166	0.50
TEXMACK "1" FEDERAL COM #1	7,867	0.25
TEXMACK "1" FEDERAL COM #1	8,160	0.00
TEXMACK "1" FEDERAL COM #1	8,415	0.50
TEXMACK "1" FEDERAL COM #1	8,906	0.25
TEXMACK "1" FEDERAL COM #1	9,402	0.25
TEXMACK "1" FEDERAL COM #1	9,900	0.75
TEXMACK "1" FEDERAL COM #1	10,394	0.75
TEXMACK "1" FEDERAL COM #1	10,874	1.75
TEXMACK "1" FEDERAL COM #1	11,258	2.00
TEXMACK "1" FEDERAL COM #1	11,715	2.00
TEXMACK "1" FEDERAL COM #1	12,213	2.75
TEXMACK "1" FEDERAL COM #1	12,447	2.75

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