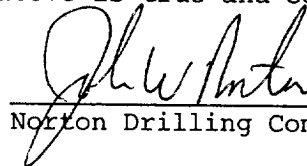


Deviation surveys taken on Texaco E&P Inc.'s C. Vacuum Unit #286 well
in Lea County, New Mexico:

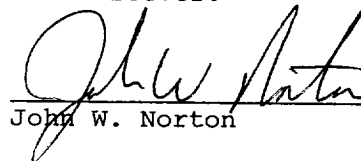
<u>Depth</u>	<u>Degree</u>
248	1.25
480	.75
985	2.25
1111	2.50
1204	2.25
1329	1.75
1454	1.75
1550	1.75
1584	1.25
2082	.75
2578	.75
3013	1.00
3263	.50
3761	.25
4258	.75
4650	2.25
4850	2.00

Unit 9 31-17s-35e
584-634/S & 1333/E 1383
3D-025-34943

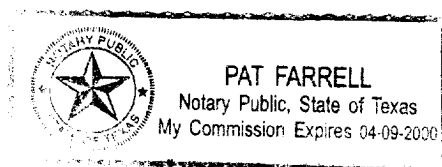
I hereby certify that I have personal knowledge of the facts placed on this
sheet and that such information given above is true and complete.

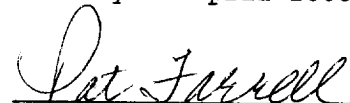

Norton Drilling Company

Before me, the undersigned authority, on this day personally appeared John W.
Norton, known to me to be the person whose name is subscribed hereto, who,
after being duly sworn, on oath states that he is the drilling contractor
of the well identified in this instrument and that such well was not
intentionally deviated from the vertical whatsoever.


John W. Norton

SWORN AND SUBSCRIBED TO before me this 5th day of April 2000.




Notary Public in and for
Lubbock County, Texas.



Lateral: 1		Proposed Direction: 0				Dog Leg Severity per: 100 feet		
Measured Depth	Inclination	Azimuth	True Vertical Depth	North/South Coordinate	East/West Coordinate	Vertical Section	Dog Leg Severity	Survey Tool
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
248	1.25	0.00	247.98	2.71	0.00	2.71	0.50	
480	0.75	0.00	479.94	6.75	0.00	6.75	0.22	
985	2.25	0.00	984.76	19.97	0.00	19.97	0.30	
1111	2.50	0.00	1110.65	25.19	0.00	25.19	0.20	
1204	2.25	0.00	1203.57	29.05	0.00	29.05	0.27	
1329	1.75	0.00	1328.49	33.41	0.00	33.41	0.40	
1454	1.75	0.00	1453.43	37.23	0.00	37.23	0.00	
1550	1.75	0.00	1549.39	40.16	0.00	40.16	0.00	
1584	1.25	0.00	1583.38	41.05	0.00	41.05	1.47	
2082	0.75	0.00	2081.30	49.74	0.00	49.74	0.10	
2578	0.75	0.00	2577.26	56.23	0.00	56.23	0.00	
3013	1.00	0.00	3012.21	62.88	0.00	62.88	0.06	
3263	0.50	0.00	3262.18	66.15	0.00	66.15	0.20	
3761	0.25	0.00	3760.17	69.41	0.00	69.41	0.05	
4258	0.75	0.00	4257.15	73.75	0.00	73.75	0.10	
4650	2.25	0.00	4649.01	84.01	0.00	84.01	0.38	
4850	2.00	0.00	4848.87	91.42	0.00	91.42	0.13	