

Operator: HEC Petroleum, Inc
 Well: Catclaw Draw Unit #19
 County: Eddy, New Mexico

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 OGD-ARTES/2

State of New Mexico
 Deviation Report

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MD (ftKB)	Incl (°)	Azm (°)	Method	Date	Survey Company	Bad Data
248	1			2/21/2005 13:15	TOTCO	0
405	0.75			3/22/2005 20:15		0
479	5.28		MWD	3/10/2005 5:00	PATHFINDER	0
720	5					-1
808	5					-1
1,042.00	6.07			3/10/2005 5:00		0
1,129.00	6			2/28/2005 10:30		-1
1,459.00	6			2/28/2005 10:30		-1
1,542.00	4.92			3/10/2005 5:00		0
1,808.00	3.78	222.93		3/5/2005 10:30	PATHFINDER	0
1,849.00	3.61	310.56		3/5/2005 10:30		0
1,902.00	3.52	0.48		3/5/2005 10:30		0
1,965.00	3.17	1.1		3/6/2005 5:00		0
2,090.00	2.81	357.58		3/6/2005 5:00		0
2,215.00	2.55	351.69		3/6/2005 5:00		0
2,339.00	2.55	347.56		3/6/2005 5:00		0
2,463.00	2.55	350.9		3/6/2005 5:00		0
2,586.00	2.64	348.97		3/6/2005 5:00		0
2,711.00	2.64	332.97		3/6/2005 5:00		0
2,836.00	2.46	326.73		3/8/2005 5:00		0
2,961.00	2.37	324.01		3/8/2005 5:00		0
3,086.00	2.46	316.71		3/8/2005 5:00		0
3,180.00	2.11	317.15		3/8/2005 5:00		0
3,305.00	0.7	327.7		3/8/2005 5:00		0
3,399.00	0.44	322.34		3/8/2005 5:00		0
3,494.00	0.62	315.57		3/8/2005 5:00		0
3,588.00	0.53	310.91		3/8/2005 5:00		0
3,682.00	0.53	319.26		3/8/2005 5:00		0
3,776.00	0.18	298.96		3/8/2005 5:00		0
3,870.00	0.09	286.48		3/8/2005 5:00		0
3,963.00	0.18	292.45		3/8/2005 5:00		0
4,057.00	0.35	318.65		3/8/2005 5:00		0
4,244.00	0.26	140.05		3/8/2005 5:00		0
4,338.00	0.7	189.54		3/8/2005 5:00		0
4,432.00	0.88	202.89		3/8/2005 5:00		0
4,525.00	0.78	188.48		3/10/2005 5:00	PATHFINDER	0
4,619.00	0.79	170.55		3/10/2005 5:00		0
4,713.00	0.7	180.66		3/10/2005 5:00		0
4,807.00	0.35	186.63		3/10/2005 5:00		0

4,901.00	0.35	214.32		3/10/2005 5:00		0
4,995.00	0.44	252.55		3/10/2005 5:00		0
5,058.00	0.35	248.86		3/10/2005 5:00		0
5,601.00	1			3/11/2005 5:00		0
6,500.00	0.75			3/12/2005 10:30	RIG	0
6,984.00	1.5			3/13/2005 2:00	RIG	0
7,008.00	1			3/14/2005 9:00	TELEDIFT	0
7,513.00	1			3/14/2005 9:00	TELEDIFT	0
7,939.00	3			3/15/2005 13:15	TELEDIFT	-1
8,137.00	1			3/15/2005 18:15	TELEDIFT	0
8,628.00	4			3/16/2005 19:30	TELEDIFT	0
8,659.00	4.5			3/16/2005 22:15	TELEDIFT	0
8,690.00	3			3/17/2005 4:15	TELEDIFT	0
8,784.00	3			3/17/2005 11:30	TELEDIFT	0
9,047.00	3			3/18/2005 5:15	TELEDIFT	0
9,482.00	2			3/19/2005 5:15	TELEDIFT	0
9,588.00	1.5			3/19/2005 5:15	TOTCO	0
10,042.00	1			3/22/2005 2:30	TELEDIFT	0
10,509.00	1			3/23/2005 18:45	TELEDIFT	0
10,710.00	1.5			3/27/2005 6:00	TOTCO	0
				3/22/2005 2:30		

By: Anna M. Schelling

State of Texas
County of Midland

The foregoing instrument was acknowledged before me July 14, 2005 by Anna M. Schelling on behalf of HEC Petroleum, Inc.

Dovie Stark 7/14/05
Notary Public for Midland County, Texas

