

PATTERSON-UTI DRILLING COMPANY

A LIMITED PARTNERSHIP

1512 Larimer Street, Suite 730, Denver, Colorado 80202
303-542-1900 • Fax: 303-542-1903

June 21, 2005

Rig#744
Black Hills Exploration
350 Indiana Street, Suite 400
Golden, CO 80401

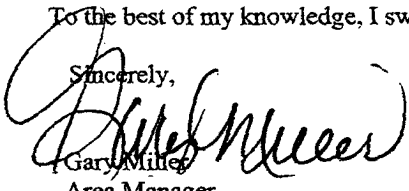
30-039-29318

This is to certify that Patterson UTI Drilling, did run deviation surveys at the listed depth on your Jicarilla 28-02-9 #21 in Sec.9T28NR2W.

Depth	Deviation	Depth	Deviation
752'	1°	2325'	1 1/4°
1257'	1 1/2°	2847'	2 1/4°
1757'	1 1/4°		

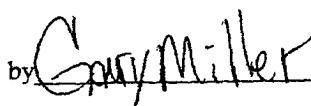
To the best of my knowledge, I swear this information to be true.

Sincerely,

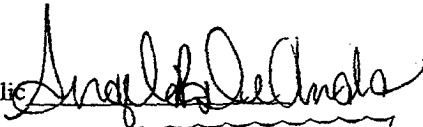

Gary Miller
Area Manager

State of New Mexico county San Juan

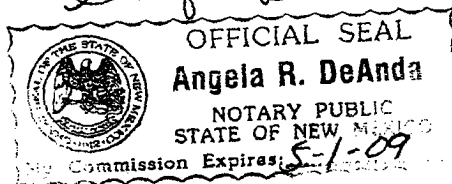
This instrument was acknowledged before me

by 

Notary public



My commission expire 5-1-09



BLACK HILLS E&P

Deviation Summary Report

Well: JIC 28-02-09 #21H
 Wellbore: JIC 28-02-09 #21H/OH **30-039-29318** Spud Date: 2/19/2005
 Project: SAN JUAN DISTRICT Site: EAST BLANCO FIELD
 Vertical Section Azimuth: 90.00 (°) Origin N/S: 0.0 (ft) Origin E/W: 0.0 (ft) North Reference: True
 Active Datum: DRILLING @7,356.0ft (KEY RIG - 44) UWI: SW-NW-9-28N-2W-0-0
 Survey Name: 4-3/4" LATERAL Company: NEVIS
 Started: 2/28/2005 Ended: Survey Tool: MWD DIR Engineer:

Tie On Point

MD (ft)	Incl (°)	Az (°)	TVD (ft)	N/S (ft)	E/W (ft)
4,040.0	90.12	97.20	3,718.4	-16.0	544.0

Survey Stations

Date	Type	MD (ft)	Incl (°)	Az (°)	TVD (ft)	N/S (ft)	E/W (ft)	VS East (ft)	Dleg (°/100ft)	Buid (°/100ft)	Turn (°/100ft)	TFace (°)
2/28/2005	Tie On	4,040.0	90.12	97.20	3,718.4	-16.0	544.0	544.0	12.13	12.12	-0.48	-2.32
3/2/2005	Normal	4,303.0	94.30	88.00	3,708.3	-27.9	806.1	806.1	3.84	1.59	-3.50	-65.42
3/4/2005	Normal	5,400.0	90.40	96.10	3,663.2	-67.2	1,900.4	1,900.4	0.82	-0.36	0.74	115.52
3/6/2005	Normal	6,064.0	86.00	96.10	3,684.1	-137.7	2,560.1	2,560.1	0.66	-0.66	0.00	180.00
	Normal	6,127.0	85.70	96.10	3,688.6	-144.4	2,622.6	2,622.6	0.48	-0.48	0.00	180.00
	Normal	6,190.0	87.40	95.40	3,692.4	-150.7	2,685.2	2,685.2	2.92	2.70	-1.11	-22.37
	Normal	6,253.0	86.20	95.00	3,695.9	-156.4	2,747.8	2,747.8	2.01	-1.90	-0.63	-161.60
	Normal	6,316.0	89.60	91.50	3,698.3	-160.0	2,810.7	2,810.7	7.74	5.40	-5.56	-45.89
	Normal	6,379.0	89.90	90.80	3,698.5	-161.2	2,873.7	2,873.7	1.21	0.48	-1.11	-66.80
	Normal	6,442.0	91.50	90.50	3,697.8	-162.0	2,936.6	2,936.6	2.58	2.54	-0.48	-10.62
	Normal	6,505.0	92.00	89.80	3,695.8	-162.1	2,999.6	2,999.6	1.37	0.79	-1.11	-54.44
	Normal	6,568.0	91.80	89.80	3,693.7	-161.9	3,062.6	3,062.6	0.32	-0.32	0.00	180.00
	Normal	6,631.0	92.90	90.80	3,691.2	-162.2	3,125.5	3,125.5	2.36	1.75	1.59	42.23
3/6/2005	Normal	7,040.0	92.90	90.80	3,670.5	-167.9	3,534.0	3,534.0	0.00	0.00	0.00	0.00

Surface 1980/N 660/W
 Lateral BHL orig. 1996/N 1204/W
 BHL end 2148/N 1079/E

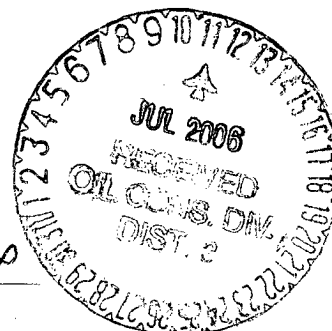
28-02-09 #21

SURF: 1980 FN 660 FW
 168 FN 3534 FW
 2148 FN 4194 FW
 -5273 F
 1079 FE

origin md 4040
 TVd 3718
 end md 7040
 TVd 3671.

SECTION
 2640'
 2633'
 5273'

PMP



BLACK HILLS E&P

Deviation Summary Report

Well: JIC 28-02-09 #21H

Wellbore: JIC 28-02-09 #21H/OH

Spud Date: 2/19/2005

Project: SAN JUAN DISTRICT

Site: EAST BLANCO FIELD

Vertical Section Azimuth: 90.00 (°)

Origin N/S: 0.0 (ft)

Origin E/W: 0.0 (ft)

North Reference: True

Active Datum: DRILLING @7,356.0ft (KEY RIG - 44)

UWI: SW-NW-9-28N-2W-0-0

Survey Name: 7-7/8" RADIUS

Company: NEVIS

Started: 2/22/2005

Ended:

Survey Tool: MWD DIR

Engineer:

Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,847.0	2.25	259.00	2,846.1	-12.2	-62.6

Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	VS East (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/22/2005	Tie On	2,847.0	2.25	259.00	2,846.1	-12.2	-62.6	-62.6	0.05	0.05	0.00	0.00
2/22/2005	Normal	3,177.0	1.80	259.00	3,175.9	-14.4	-74.1	-74.1	0.14	-0.14	0.00	180.00
	Normal	3,209.0	0.50	183.00	3,207.9	-14.6	-74.6	-74.6	5.46	-4.06	-237.50	-163.88
	Normal	3,271.0	8.30	98.20	3,269.7	-15.5	-70.1	-70.1	13.34	12.58	-136.77	-88.23
	Normal	3,303.0	11.80	96.10	3,301.2	-16.2	-64.6	-64.6	11.00	10.94	-6.56	-7.01
	Normal	3,335.0	15.70	96.40	3,332.3	-17.0	-57.0	-57.0	12.19	12.19	0.94	1.19
2/23/2005	Normal	3,367.0	20.10	96.10	3,362.8	65.6	21.7	21.7	13.75	13.75	-0.94	-1.34
	Normal	3,398.0	24.10	95.70	3,391.5	64.4	33.3	33.3	12.91	12.90	-1.29	-2.34
	Normal	3,460.0	32.40	95.00	3,446.1	61.7	62.5	62.5	13.40	13.39	-1.13	-2.60
	Normal	3,523.0	39.60	96.80	3,497.0	57.8	99.3	99.3	11.55	11.43	2.86	9.10
	Normal	3,585.0	45.60	100.00	3,542.7	51.6	140.8	140.8	10.29	9.68	5.16	21.04
2/24/2005	Normal	3,647.0	51.90	101.00	3,583.5	43.1	186.6	186.6	10.23	10.16	1.61	7.14
	Normal	3,709.0	59.80	101.00	3,618.3	33.3	236.9	236.9	12.74	12.74	0.00	0.00
	Normal	3,771.0	63.50	102.10	3,647.7	22.4	290.4	290.4	6.17	5.97	1.77	14.93
	Normal	3,834.0	65.60	100.30	3,674.8	11.3	346.2	346.2	4.21	3.33	-2.86	-38.13
2/25/2005	Normal	3,874.0	70.00	98.00	3,689.9	5.5	382.7	382.7	12.22	11.00	-5.75	-26.27
	Normal	4,040.0	90.12	97.20	3,718.4	-16.0	544.0	544.0	12.13	12.12	-0.48	-2.32

Survey Name: VERTICAL SECTION

Company: KEY

Started: 2/19/2005

Ended:

Survey Tool: GSS

Engineer:

Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
0.0	0.00	259.00	0.0	0.0	0.0

Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	VS East (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
2/19/2005	Tie On	0.0	0.00	259.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
2/19/2005	Normal	243.0	0.50	259.00	243.0	-0.2	-1.0	-1.0	0.21	0.21	0.00	259.00
2/20/2005	Normal	1,257.0	1.25	259.00	1,256.9	-3.4	-17.3	-17.3	0.05	0.05	0.00	0.00
2/20/2005	Normal	757.0	1.00	259.00	757.0	-1.5	-7.6	-7.6	0.10	0.10	0.00	0.00
2/20/2005	Normal	1,759.0	1.25	259.00	1,758.7	-5.4	-28.0	-28.0	0.00	0.00	0.00	0.00
2/20/2005	Normal	2,345.0	2.00	259.00	2,344.5	-8.6	-44.3	-44.3	0.13	0.13	0.00	0.00
2/21/2005	Normal	2,847.0	2.25	259.00	2,846.1	-12.2	-62.6	-62.6	0.05	0.05	0.00	0.00