

DEVIATION REPORT

Name of Company	Address
Energen Resources Corporation	2198 BLOOMFIELD HWY, FARMINGTON, NM 87401

Lease Name & Number	Unit Letter	Section	Township	Range
HART CANYON 3 #2S (Upper Lateral)	L	03	30N	10W

Pool and Formation	API Number	County
Basin Fruitland Coal (71629)	30-045-33112	San Juan

<u>Depth (Ft.)</u>	<u>Deviation (Degrees)</u>
3785	63.76
3800	68.32
3832	72.39
3864	76.92
3895	81.74
3937	87.07
3958	90.67
3990	90.94
4054	89.70
4086	90.71
4117	90.81
4149	88.52
4181	88.79
4276	88.22
4308	89.76
4339	90.44
4371	87.28
4402	86.54
4434	89.83
4466	90.81
4497	90.64
4529	90.44
4561	89.46
4593	89.40
4624	89.26
7989	89.19
4688	89.19
4720	89.46
4751	87.85
4783	87.71
4815	90.47
4847	89.70
4878	90.00
4910	91.48
4942	91.21

Surface 1710/s 1120/W
BHL 1791/s 1140/E

DEVIATION REPORT

4973	91.65
5001	91.51
5033	91.55
5665	91.44
5097	90.91
5129	91.81
5161	91.21
5192	91.81

I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer for Energen Resources Corporation, am authorized by said Company to make this report; and that this report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.

Nathan Selt

Subscribed and sworn to before me this 16th day of August, 2005.

Vicki Donaghey
Notary Public in and for San Juan County, New Mexico.
My commission expires: September 18th, 2008.





Scientific Drilling

Field: NEW MEXICO
Site: HART CANYON 3
Well: WELL NO. 2S
Wellpath: UPPER LATERAL
Survey: MWD

ENERGEN

WELL DETAILS

Name	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Spot
WELL NO. 2S	0.00	0.00	2128322.66	24379.37	36°50'17.000"N	107°52'31.000"W	N/A

TARGET DETAILS

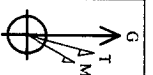
Name	TVD	+N/S	+E/W	Shape
LI	0.00	0.00	0.00	Polygon
V.H.L.	0.00	30.88	1546.75	Circle (Radius: 0)
HL	0.00	0.00	0.00	Polygon
New UPPER BHL	2881.00	71.70	3991.35	Point
New Lower BHL	3012.50	71.70	3991.35	Point

FORMATION TOP DETAILS

No.	TVDPATH	MDPATH	FORMATION
1	2876.00	3896.20	Top of Coal
2	2884.00	4381.60	Base of Coal

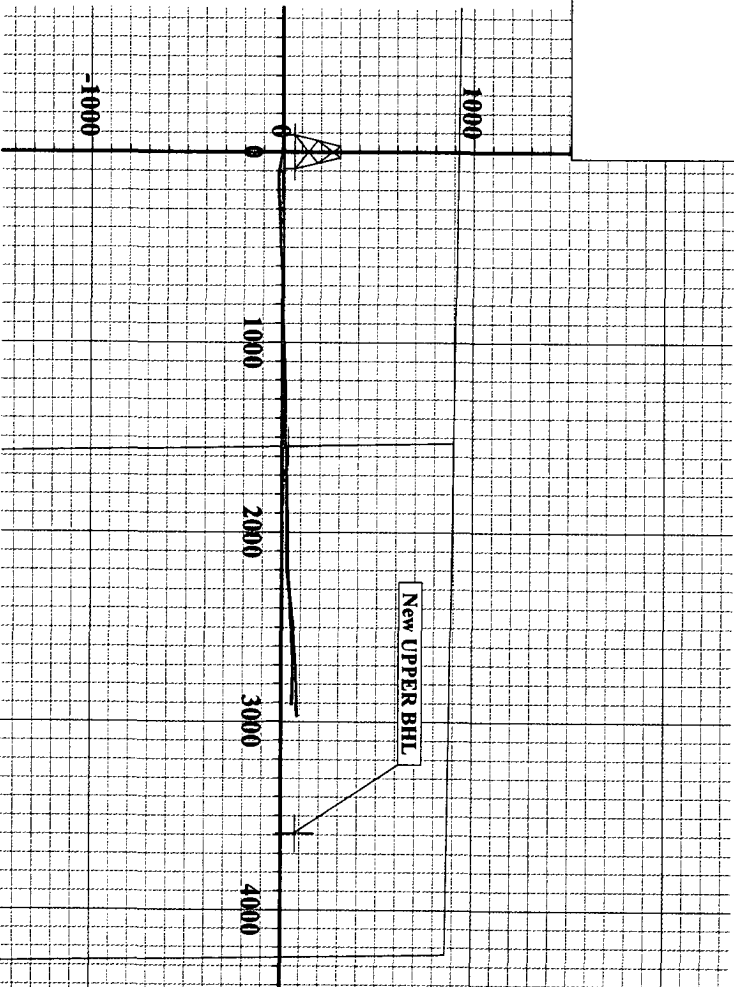
LEGEND

WELL NO. 2S (LOWER LATERAL)
WELL NO. 2S (MOTHERBORE)
UPPER LATERAL
MWD

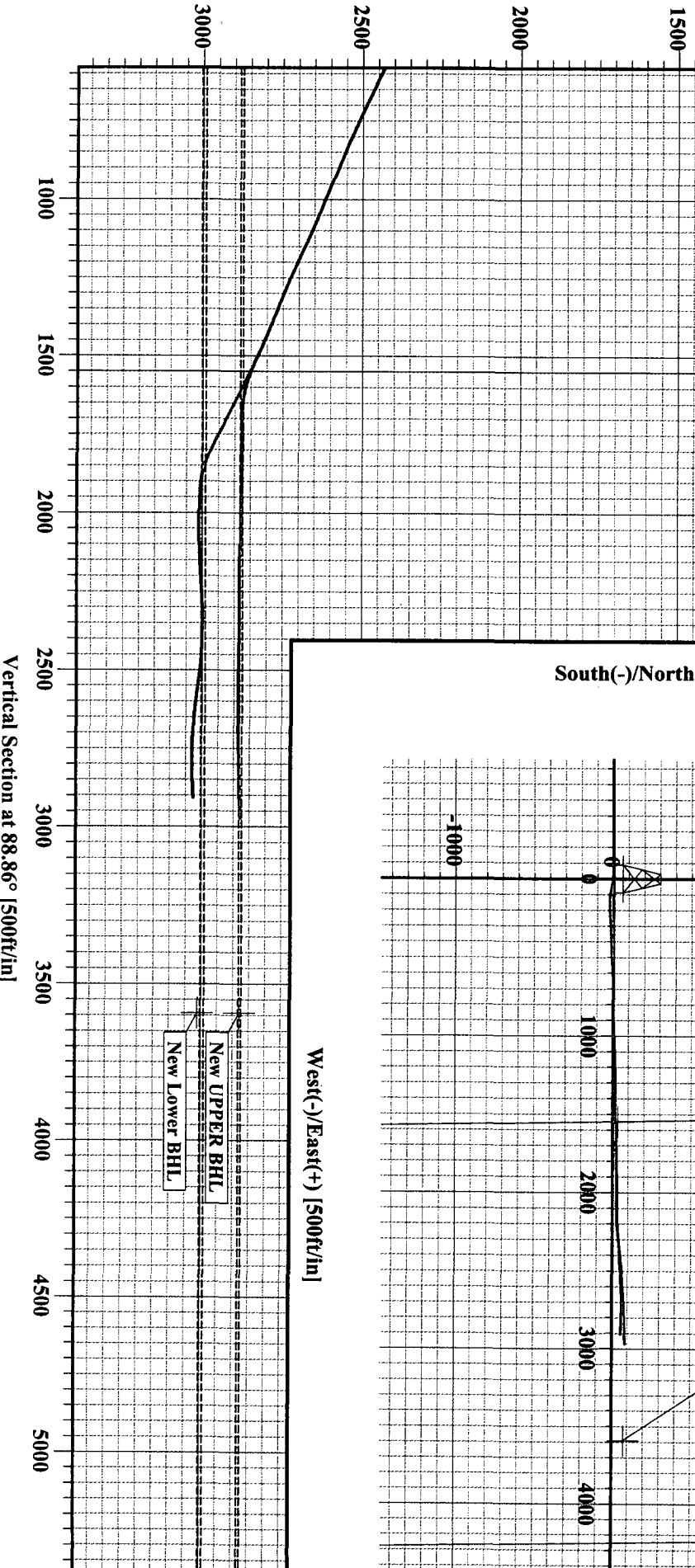


Azimuths to Grid North
True North: 0.97°
Magnetic North: 11.65°
Magnetic Field
Strength: 51434nT
Dip Angle: 63.67°
Date: 2005-06-07
Model: jrc2005

South(-)/North(+) [500ft/in]



True Vertical Depth [500ft/in]



Vertical Section at 88.86° [500ft/in]



Scientific Drilling Survey

Company: ENERGEN	Date: 2005-08-08	Time: 08:39:57	Page: 1
Field: NEW MEXICO	Co-ordinate(NE) Reference:	Well: WELL NO. 2S, Grid North	
Site: HART CANYON 3	Vertical (TVD) Reference:	SITE 6349.0	
Well: WELL NO. 2S	Section (VS) Reference:	Well (0.00N,0.00E,88.86Azi)	
Wellpath: UPPER LATERAL	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Field: NEW MEXICO	
USA	
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Central Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf2005

Site: HART CANYON 3 SAN JUAN, NM SECTION 3, T30N-R10W	
Site Position:	Northing: 2128322.66 ft
From: Geographic	Easting: 24379.37 ft
Position Uncertainty: 0.00 ft	Latitude: 36 50 17.000 N
Ground Level: 6334.00 ft	Longitude: 107 52 31.000 W
	North Reference: Grid
	Grid Convergence: -0.97 deg

Well: WELL NO. 2S	Slot Name:
Well Position: +N/-S 0.00 ft	Northing: 2128322.66 ft
+E/-W 0.00 ft	Easting: 24379.37 ft
Position Uncertainty: 0.00 ft	Latitude: 36 50 17.000 N
	Longitude: 107 52 31.000 W

Wellpath: UPPER LATERAL	Drilled From: MOTHERBORE
Current Datum: SITE	Tie-on Depth: 3813.00 ft
Magnetic Data: 2005-06-07	Above System Datum: Mean Sea Level
Field Strength: 51434 nT	Declination: 10.68 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 63.67 deg
ft	+N/-S
	+E/-W
	Direction
	deg
0.00	0.00
	0.00
	88.86

Survey Program for Definitive Wellpath			Version: 2	
Date: 2005-08-08	Validated: No		Toolcode	Tool Name
Actual From	To	Survey		
ft	ft			

Survey												
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	ClsA deg	ClsD ft	Tool
3785.00	63.76	87.91	2844.77	16.22	1529.75	1529.77	0.00	0.00	0.00	89.39	1529.83	MWD
3800.00	68.32	88.00	2850.86	16.71	1543.44	1543.47	30.40	30.40	0.60	89.38	1543.53	MWD
3832.00	72.39	86.92	2861.62	18.04	1573.54	1573.59	13.11	12.72	-3.37	89.34	1573.65	MWD
3864.00	76.92	92.08	2870.09	18.30	1604.38	1604.43	21.02	14.16	16.12	89.35	1604.49	MWD
3895.00	81.74	90.97	2875.83	17.49	1634.83	1634.85	15.94	15.55	-3.58	89.39	1634.92	MWD
3937.00	87.07	90.48	2879.92	16.96	1676.61	1676.61	12.74	12.69	-1.17	89.42	1676.69	MWD
3958.00	90.67	91.79	2880.34	16.55	1697.60	1697.59	18.24	17.14	6.24	89.44	1697.68	MWD
3990.00	90.94	91.76	2879.89	15.56	1729.58	1729.54	0.85	0.84	-0.09	89.48	1729.65	MWD
4054.00	89.70	90.26	2879.53	14.43	1793.56	1793.49	3.04	-1.94	-2.34	89.54	1793.62	MWD
4086.00	90.71	89.23	2879.41	14.57	1825.56	1825.49	4.51	3.16	-3.22	89.54	1825.62	MWD
4117.00	90.81	88.91	2879.00	15.07	1856.55	1856.49	1.08	0.32	-1.03	89.53	1856.62	MWD
4149.00	88.52	89.43	2879.19	15.54	1888.55	1888.48	7.34	-7.16	1.62	89.53	1888.61	MWD
4181.00	88.79	89.93	2879.94	15.72	1920.54	1920.47	1.78	0.84	1.56	89.53	1920.60	MWD
4212.00	88.39	90.30	2880.70	15.65	1951.53	1951.45	1.76	-1.29	1.19	89.54	1951.59	MWD
4244.00	88.79	87.31	2881.49	16.32	1983.51	1983.44	9.42	1.25	-9.34	89.53	1983.58	MWD
4276.00	88.22	87.08	2882.33	17.89	2015.46	2015.42	1.92	-1.78	-0.72	89.49	2015.54	MWD
4308.00	89.76	88.33	2882.89	19.17	2047.43	2047.40	6.20	4.81	3.91	89.46	2047.52	MWD
4339.00	90.44	88.16	2882.84	20.12	2078.41	2078.40	2.26	2.19	-0.55	89.45	2078.51	MWD
4371.00	87.28	87.59	2883.47	21.30	2110.38	2110.38	10.03	-9.87	-1.78	89.42	2110.49	MWD
4402.00	86.54	87.11	2885.14	22.73	2141.30	2141.33	2.84	-2.39	-1.55	89.39	2141.42	MWD
4434.00	89.83	86.82	2886.16	24.43	2173.24	2173.29	10.32	10.28	-0.91	89.36	2173.37	MWD
4466.00	90.81	86.41	2885.98	26.32	2205.18	2205.27	3.32	3.06	-1.28	89.32	2205.34	MWD
4497.00	90.64	85.82	2885.59	28.42	2236.11	2236.23	1.98	-0.55	-1.90	89.27	2236.29	MWD



Scientific Drilling Survey

Company: ENERGEN
Field: NEW MEXICO
Site: HART CANYON 3
Well: WELL NO. 2S
Wellpath: UPPER LATERAL

Date: 2005-08-08 Time: 08:39:57 Page: 2
Co-ordinate(NE) Reference: Well: WELL NO. 2S, Grid North
Vertical (TVD) Reference: SITE 6349.0
Section (VS) Reference: Well (0.00N,0.00E,88.86Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	ClsA deg	ClsD ft	Tool
4529.00	90.44	85.36	2885.29	30.88	2268.01	2268.17	1.57	-0.62	-1.44	89.22	2268.22	MWD
4561.00	89.46	84.02	2885.31	33.84	2299.87	2300.09	5.19	-3.06	-4.19	89.16	2300.12	MWD
4593.00	89.40	83.53	2885.63	37.31	2331.68	2331.96	1.54	-0.19	-1.53	89.08	2331.98	MWD
4624.00	89.26	83.59	2885.99	40.78	2362.48	2362.83	0.49	-0.45	0.19	89.01	2362.83	MWD
4656.00	89.19	83.21	2886.43	44.46	2394.27	2394.68	1.21	-0.22	-1.19	88.94	2394.68	MWD
4688.00	89.19	83.16	2886.88	48.26	2426.04	2426.52	0.16	0.00	-0.16	88.86	2426.52	MWD
4720.00	89.46	84.85	2887.26	51.60	2457.86	2458.40	5.35	0.84	5.28	88.80	2458.40	MWD
4751.00	87.85	83.55	2887.98	54.73	2488.69	2489.29	6.67	-5.19	-4.19	88.74	2489.29	MWD
4783.00	87.71	83.42	2889.22	58.36	2520.46	2521.12	0.60	-0.44	-0.41	88.67	2521.14	MWD
4815.00	90.47	85.96	2889.73	61.32	2552.31	2553.03	11.72	8.62	7.94	88.62	2553.05	MWD
4847.00	89.70	85.97	2889.68	63.57	2584.23	2584.99	2.41	-2.41	0.03	88.59	2585.02	MWD
4878.00	90.00	86.63	2889.77	65.57	2615.17	2615.96	2.34	0.97	2.13	88.56	2615.99	MWD
4910.00	91.48	86.66	2889.35	67.45	2647.11	2647.93	4.63	4.62	0.09	88.54	2647.97	MWD
4942.00	91.21	86.95	2888.60	69.23	2679.05	2679.90	1.24	-0.84	0.91	88.52	2679.95	MWD
4973.00	91.65	87.45	2887.83	70.74	2710.01	2710.88	2.15	1.42	1.61	88.50	2710.93	MWD
5001.00	91.51	87.30	2887.06	72.02	2737.97	2738.86	0.73	-0.50	-0.54	88.49	2738.91	MWD
5033.00	91.55	87.13	2886.20	73.58	2769.92	2770.83	0.55	0.12	-0.53	88.48	2770.89	MWD
5065.00	91.44	87.57	2885.37	75.06	2801.87	2802.81	1.42	-0.34	1.37	88.47	2802.88	MWD
5097.00	90.91	87.72	2884.71	76.37	2833.84	2834.80	1.72	-1.66	0.47	88.46	2834.87	MWD
5129.00	91.34	87.83	2884.08	77.61	2865.81	2866.79	1.39	1.34	0.34	88.45	2866.86	MWD
5161.00	91.21	88.27	2883.37	78.70	2897.78	2898.77	1.43	-0.41	1.37	88.44	2898.85	MWD
5192.00	91.81	88.05	2882.55	79.70	2928.75	2929.76	2.06	1.94	-0.71	88.44	2929.84	MWD
5234.00	91.81	88.05	2881.23	81.13	2970.71	2971.74	0.00	0.00	0.00	88.44	2971.82	MWD

DEVIATION REPORT

Name of Company	Address
Energen Resources Corporation	2198 BLOOMFIELD HWY, FARMINGTON, NM 87401

Lease Name & Number	Unit Letter	Section	Township	Range
HART CANYON 3 #2S (Lower Lateral)	L	03	30N	10W

Pool and Formation	API Number	County
Basin Fruitland Coal (71629)	30-045-33112	San Juan

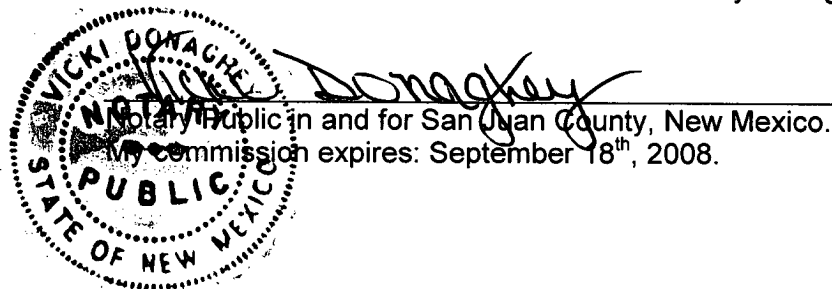
Depth (Ft.)	Deviation (Degrees)
4100	67.54
4143	72.94
4174	80.99
4206	85.96
4295	88.96
4326	89.66
4358	90.47
4384	92.52
4420	92.01
4451	93.29
4485	93.06
4515	93.53
4548	93.39
4563	92.69
4603	90.71
4640	88.49
4672	88.45
4703	89.33
4735	87.38
4767	85.02
4798	82.59
4830	81.98
4862	82.72
4888	83.20

Surf. 1710/S 1120/W
BHL 1769/S 1570/E

I, the undersigned, certify that I, acting in my capacity as Petroleum Engineer for Energen Resources Corporation, am authorized by said Company to make this report; and that this report was prepared under my supervision and directions, and that the facts stated herein are true to the best of my knowledge and belief.



Subscribed and sworn to before me this 16th day of August, 2005.





Field: NEW MEXICO
Site: HART CANYON 3#2S
Well: WELL NO. 2
Wellpath: LOWER LATERAL (66)
Survey: MWD

ENERGEN

SECTION DETAILS

There are no section details

LEGEND

- WELL NO. 2 (MOTHERBORE (66))
- LOWER LATERAL (66)
- MWD

Azimuths to Grid North
True North: 0.97°
Magnetic North: 1.65°
Magnetic Field
Strength: 5143aT
Dip Angle: 63.67°
Date: 2005-06-07
Model: kcr2005

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
WELL NO. 2	0.00	0.00	2128322.66	24379.37	36°50'17.00"N	107°52'31.00"W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
LL	0.00	0.00	0.00	Polygon
HL	0.00	0.00	0.00	Polygon
V HL	0.00	30.88	1546.75	Circle (Radius: 0)
New UPPER BHL	2880.00	71.70	3591.35	Point
New Lower BHL	3012.50	71.70	3591.35	Point

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	3005.00	4179.23	Top of Coal
2	3020.00	4880.81	Base of Coal

South(-)/North(+) [1000ft/in]

New Lower BHL

West(-)/East(+) [1000ft/in]

True Vertical Depth [100ft/in]

Vertical Section at 88.86° [100ft/in]



Scientific Drilling Survey

Company: ENERGEN	Date: 2005-07-27	Time: 09:13:17	Page: 1
Field: NEW MEXICO	Co-ordinate(NE) Reference:	Well: WELL NO. 2, Grid North	
Site: HART CANYON 3#2S	Vertical (TVD) Reference:	SITE 6349.0	
Well: WELL NO. 2	Section (VS) Reference:	Well (0.00N,0.00E,88.86Azi)	
Wellpath: LOWER LATERAL (66)	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Field: NEW MEXICO

USA

Map System: US State Plane Coordinate System 1927

Geo Datum: NAD27 (Clarke 1866)

Sys Datum: Mean Sea Level

Map Zone:

New Mexico, Central Zone

Coordinate System:

Well Centre

Geomagnetic Model:

igrf2005

Site: HART CANYON 3#2S
SAN JUAN, NM
SECTION 3, T30N-R10W

Site Position:
From: Geographic
Position Uncertainty: 0.00 ft
Ground Level: 6334.00 ft

Northing: 2128322.66 ft
Easting: 24379.37 ft

Latitude: 36 50 17.000 N
Longitude: 107 52 31.000 W
North Reference: Grid
Grid Convergence: -0.97 deg

Well: WELL NO. 2

Slot Name:

Well Position: +N/-S 0.00 ft
+E/-W 0.00 ft
Position Uncertainty: 0.00 ft

Northing: 2128322.66 ft
Easting: 24379.37 ft

Latitude: 36 50 17.000 N
Longitude: 107 52 31.000 W

Wellpath: LOWER LATERAL (66)

Drilled From: MOTHERBORE (66)

Current Datum: SITE
Magnetic Data: 2005-06-07
Field Strength: 51434 nT
Vertical Section: Depth From (TVD)
ft

Height 6349.00 ft

Tie-on Depth: 4100.00 ft
Above System Datum: Mean Sea Level
Declination: 10.68 deg
Mag Dip Angle: 63.67 deg

+N/-S
ft
+E/-W
ft
Direction
deg

0.00

0.00

0.00

88.86

Survey Program for Definitive Wellpath

Date: 2005-07-27
Actual From ft
To ft
Validated: No
Survey

Version: 3
Toolcode

Tool Name

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	ClsA deg	ClsD ft	Tool
4100.00	67.54	90.90	2982.70	25.83	1812.71	1812.86	0.00	0.00	0.00	89.18	1812.89	MWD
4143.00	72.94	88.53	2997.23	26.04	1853.16	1853.31	13.59	12.56	-5.51	89.19	1853.34	MWD
4174.00	80.99	88.01	3004.22	26.96	1883.32	1883.48	26.02	25.97	-1.68	89.18	1883.51	MWD
4206.00	85.96	87.11	3007.85	28.31	1915.07	1915.26	15.78	15.53	-2.81	89.15	1915.28	MWD
4295.00	88.96	90.72	3011.80	29.99	2003.95	2004.15	5.27	3.37	4.06	89.14	2004.17	MWD
4326.00	89.66	90.22	3012.17	29.74	2034.94	2035.13	2.77	2.26	-1.61	89.16	2035.16	MWD
4358.00	90.47	90.04	3012.14	29.66	2066.94	2067.12	2.59	2.53	-0.56	89.18	2067.15	MWD
4384.00	92.52	90.27	3011.46	29.59	2092.93	2093.11	7.93	7.88	0.88	89.19	2093.14	MWD
4420.00	92.01	90.24	3010.03	29.43	2128.90	2129.07	1.42	-1.42	-0.08	89.21	2129.11	MWD
4451.00	93.29	89.78	3008.60	29.43	2159.87	2160.03	4.39	4.13	-1.48	89.22	2160.07	MWD
4485.00	93.06	87.78	3006.72	30.15	2193.81	2193.97	5.91	-0.68	-5.88	89.21	2194.01	MWD
4515.00	93.53	87.34	3004.99	31.43	2223.73	2223.91	2.14	1.57	-1.47	89.19	2223.95	MWD
4548.00	93.39	85.98	3003.00	33.35	2256.61	2256.83	4.14	-0.42	-4.12	89.15	2256.86	MWD
4563.00	92.69	85.72	3002.21	34.43	2271.55	2271.79	4.98	-4.67	-1.73	89.13	2271.81	MWD
4603.00	90.71	85.37	3001.02	37.53	2311.41	2311.70	5.03	-4.95	-0.87	89.07	2311.72	MWD
4640.00	88.49	85.76	3001.28	40.40	2348.30	2348.64	6.09	-6.00	1.05	89.01	2348.65	MWD
4672.00	88.45	85.96	3002.13	42.70	2380.20	2380.58	0.64	-0.12	0.62	88.97	2380.59	MWD
4703.00	89.33	86.57	3002.73	44.72	2411.13	2411.54	3.45	2.84	1.97	88.94	2411.55	MWD
4735.00	87.38	85.95	3003.65	46.81	2443.05	2443.50	6.39	-6.09	-1.94	88.90	2443.50	MWD
4767.00	85.02	85.33	3005.77	49.24	2474.88	2475.37	7.62	-7.37	-1.94	88.86	2475.37	MWD
4798.00	82.59	84.49	3009.12	51.97	2505.58	2506.12	8.29	-7.84	-2.71	88.81	2506.12	MWD
4830.00	81.98	85.59	3013.41	54.71	2537.17	2537.76	3.90	-1.91	3.44	88.76	2537.76	MWD
4862.00	82.72	86.25	3017.67	56.97	2568.80	2569.43	3.09	2.31	2.06	88.73	2569.44	MWD



Scientific Drilling Survey

Company: ENERGEN
Field: NEW MEXICO
Site: HART CANYON 3#2S
Well: WELL NO. 2
Wellpath: LOWER LATERAL (66)

Date: 2005-07-27 Time: 09:13:17 Page: 2
Co-ordinate(NE) Reference: Well: WELL NO. 2, Grid North
Vertical (TVD) Reference: SITE 6349.0
Section (VS) Reference: Well (0.00N,0.00E,88.86Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	ClsA deg	ClsD ft	Tool
4888.00	83.20	86.19	3020.86	58.67	2594.55	2595.21	1.86	1.85	-0.23	88.70	2595.21	MWD