

DEVIATION REPORT

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

Lease Name & Number	Unit Letter	Section	Township	Range
CARSON #203	N	06	30N	04W

Pool and Formation	API Number	County
Basin Fruitland Coal (71629)	30-039-27477	San Juan County

30-039-27477

Deviation
(Degrees)

Depth (Ft.)

Surface 105/S 1755/W
B/L 2539/S 1263/W

H

213	.75
507	1.00
808	1.00
1108	.75
1407	.75
1674	1.50
1905	.75
2185	.75
2497	1.50
2622	1.00
2839	1.00
3055	1.50
3185	2.00
3203	1.77
3234	3.60
3264	5.91
3294	9.06
3325	12.09
3356	15.52
3384	18.82
3414	21.89
3446	25.54
3478	28.94
3509	32.61
3539	35.77
3570	39.06
3601	41.11
3632	42.23
3663	44.97
3693	48.06
3724	51.37
3756	54.13
3787	57.08
3818	59.93
3849	63.17
3880	65.99
3912	68.10

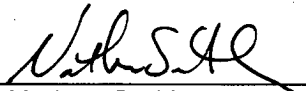


DEVIATION REPORT

3943	68.89
3974	71.76
4006	74.87
4038	78.13
4069	81.11
4100	81.17
4130	80.44
4161	81.04
4192	79.82
4222	81.64
4246	84.11
4340	91.62
4370	91.92
4402	89.97
4434	90.00
4465	90.34
4497	90.30
4524	90.44
4561	89.46
4592	89.70
4624	89.76
4655	90.00
4687	89.43
4719	89.83
4751	89.83
4783	89.70
4815	90.03
4846	90.60
4878	91.99
4910	92.66
4941	91.81
4989	91.81
5005	89.66
5037	90.87
5069	90.94
5101	88.99
5133	89.06
5164	88.40
5196	88.69
5228	86.54
5260	86.26
5292	86.13
5323	85.82
5355	86.74
5384	86.93
5432	86.93

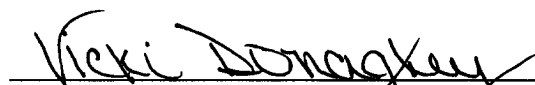
DEVIATION REPORT

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 Smith

Subscribed and sworn to before me this 07th day of September, 2005.



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





Field: Rio Arriba, NM
Site: Carson (203)
Well: Well #203
Wellpath: Lateral
Plan: Plan #1

ENERGEN.

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	3230.00	0.00	0.00	3230.00	0.00	0.00	0.00	0.00	0.00	
3	4131.64	90.00	344.97	3804.00	554.36	-148.85	9.98	344.97	574.00	
4	7778.95	90.00	344.97	3804.00	4076.50	-1094.69	0.00	0.00	4221.31	#203 BHL

WELL DETAILS

Name	+N/S	+E/W	Northing	Easting	Latitude	Longitude	Spot
Well #203	0.00	0.00	2123744.39	657215.79	36°50'07.008"N	107°17'45.996"W	N/A

TARGET DETAILS

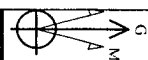
Name	TVD	+N/S	+E/W	Shape
L.L.	0.00	0.00	0.00	Polygon
#203 BHL	3804.00	4076.52	-1095.00	Point

FORMATION TOP DETAILS

No.	TVDPath	MDPath	Formation
1	3797.00	4041.90	Top of Coal

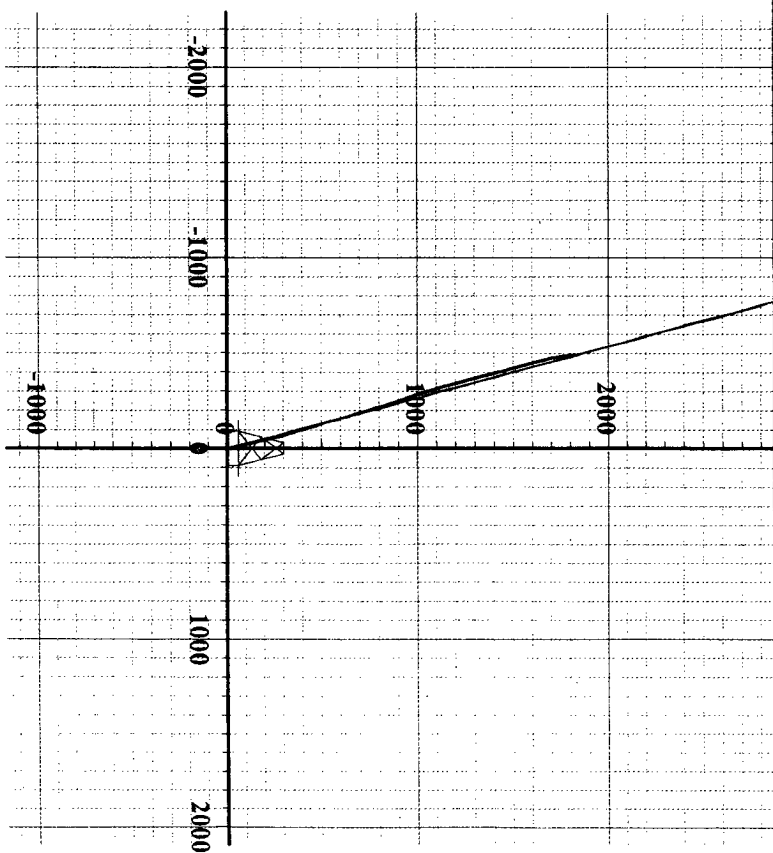
LEGEND

— Lateral
— Plan #1



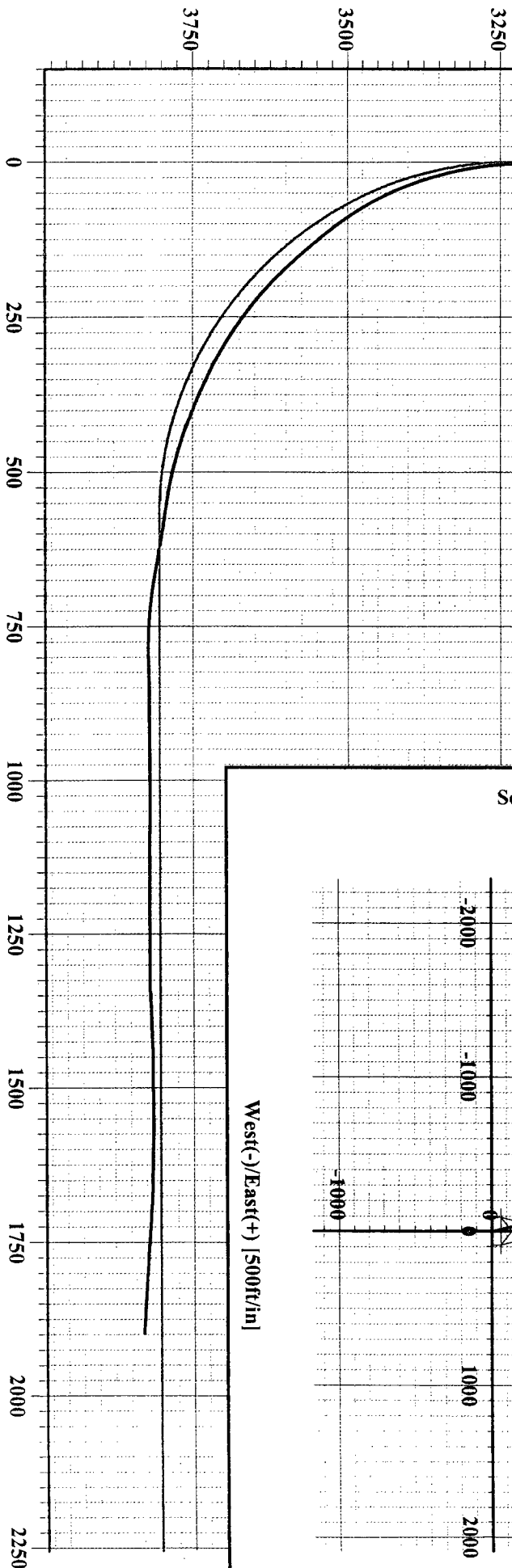
Azimuths to Grid North
True North: 0.32°
Magnetic North: 10.11°
Magnetic Field
Strength: 51513nT
Dir. Angle: 63.78°
Date: 2005-06-14
Model: IGR2005

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



West(-)/East(+) [500ft/in]

True Vertical Depth [250ft/in]



Vertical Section at 344.97° [250ft/in]



Scientific Drilling Survey

Company: ENERGEN.	Date: 2005-08-29	Time: 10:48:02	Page: 1
Field: Rio Arriba, NM	Co-ordinate(NE) Reference: Well: Well #203, Grid North		
Site: Carson (203)	Vertical (TVD) Reference: GL 7063.0		
Well: Well #203	Section (VS) Reference: Well (0.00N,0.00E,344.97Azi)		
Wellpath: Lateral	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Field: Rio Arriba, NM

Map System: US State Plane Coordinate System 1927
Geo Datum: NAD27 (Clarke 1866)
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Western Zone
Coordinate System: Well Centre
Geomagnetic Model: igrf2005

Site: Carson (203)

Section 6 T30N R4W

Site Position:		Northing:	ft	Latitude:	
From: Lease Line		Easting:	ft	Longitude:	
Position Uncertainty:	0.00 ft			North Reference:	Grid
Ground Level:	0.00 ft			Grid Convergence:	0.32 deg

Well: Well #203

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	2123744.39 ft	Latitude:	36 50 7.008 N
	+E/-W	0.00 ft	Easting:	657215.79 ft	Longitude:	107 17 45.996 W
Position Uncertainty:		0.00 ft				

Wellpath: Lateral

Drilled From:	Surface
Tie-on Depth:	0.00 ft
Above System Datum:	Mean Sea Level
Declination:	10.43 deg
Mag Dip Angle:	63.78 deg
+E/-W	Direction
ft	deg

Current Datum: GL	Height 7063.00 ft
Magnetic Data: 2005-06-14	
Field Strength: 51513 nT	
Vertical Section: Depth From (TVD)	+N/-S
ft	ft
0.00	0.00

0.00	344.97
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Survey Program for Definitive Wellpath
Date: 2005-08-29 **Validated:** No
Actual From **To** **Survey**

Version: 0
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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	MWD
3171.00	1.86	344.88	3170.99	1.11	-0.30	1.15	2.62	2.62	0.00	344.88	1.15	MWD
3203.00	1.77	353.16	3202.97	2.10	-0.49	2.16	0.87	-0.28	25.87	346.77	2.16	MWD
3234.00	3.01	350.94	3233.94	3.38	-0.68	3.44	4.01	4.00	-7.16	348.64	3.45	MWD
3264.00	5.91	346.56	3263.85	5.66	-1.16	5.77	9.73	9.67	-14.60	348.39	5.78	MWD
3294.00	9.06	346.27	3293.59	9.46	-2.08	9.68	10.50	10.50	-0.97	347.58	9.69	MWD
3325.00	12.09	346.36	3324.06	14.99	-3.43	15.37	9.77	9.77	0.29	347.12	15.38	MWD
3356.00	15.52	345.64	3354.16	22.16	-5.22	22.76	11.08	11.06	-2.32	346.74	22.77	MWD
3384.00	18.82	345.58	3380.91	30.17	-7.28	31.02	11.79	11.79	-0.21	346.44	31.03	MWD
3414.00	21.89	345.45	3409.03	40.27	-9.89	41.46	10.23	10.23	-0.43	346.20	41.47	MWD
3446.00	25.54	345.90	3438.33	52.74	-13.07	54.32	11.42	11.41	1.41	346.08	54.33	MWD
3478.00	28.94	346.16	3466.77	66.95	-16.60	68.97	10.63	10.62	0.81	346.07	68.98	MWD
3509.00	32.61	345.70	3493.40	82.33	-20.46	84.82	11.86	11.84	-1.48	346.04	84.84	MWD
3539.00	35.77	346.28	3518.21	98.69	-24.54	101.68	10.59	10.53	1.93	346.04	101.69	MWD
3570.00	39.06	346.48	3542.83	116.99	-28.97	120.50	10.62	10.61	0.65	346.09	120.53	MWD
3601.00	41.11	347.47	3566.55	136.44	-33.47	140.45	6.93	6.61	3.19	346.22	140.48	MWD
3632.00	42.23	346.76	3589.71	156.53	-38.06	161.05	3.92	3.61	-2.29	346.33	161.09	MWD
3663.00	44.97	346.38	3612.15	177.32	-43.03	182.41	8.88	8.84	-1.23	346.36	182.47	MWD
3693.00	48.06	346.72	3632.80	198.49	-48.09	204.17	10.33	10.30	1.13	346.38	204.23	MWD
3724.00	51.37	346.98	3652.84	221.51	-53.47	227.80	10.70	10.68	0.84	346.43	227.88	MWD
3756.00	54.13	346.84	3672.21	246.32	-59.24	253.26	8.63	8.62	-0.44	346.48	253.34	MWD
3787.00	57.08	345.98	3689.72	271.18	-65.25	278.82	9.79	9.52	-2.77	346.47	278.92	MWD



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Vertical (TVD) Reference: GL 7063.0
Section (VS) Reference: Well (0.00N,0.00E,344.97Azi)
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
3818.00	59.93	344.27	3705.91	296.72	-72.04	305.25	10.33	9.19	-5.52	346.35	305.34	MWD
3849.00	63.17	343.76	3720.68	322.92	-79.55	332.50	10.55	10.45	-1.65	346.16	332.57	MWD
3880.00	65.99	343.39	3733.98	349.77	-87.46	360.49	9.16	9.10	-1.19	345.96	360.54	MWD
3912.00	68.10	343.54	3746.46	378.02	-95.85	389.94	6.61	6.59	0.47	345.77	389.98	MWD
3943.00	68.89	342.77	3757.82	405.62	-104.21	418.77	3.44	2.55	-2.48	345.59	418.80	MWD
3974.00	71.76	341.99	3768.26	433.44	-113.04	447.93	9.56	9.26	-2.52	345.38	447.94	MWD
4006.00	74.87	342.73	3777.45	462.65	-122.33	478.55	9.97	9.72	2.31	345.19	478.55	MWD
4038.00	78.13	343.78	3784.92	492.44	-131.29	509.64	10.68	10.19	3.28	345.07	509.64	MWD
4069.00	81.11	344.81	3790.50	521.79	-139.54	540.13	10.15	9.61	3.32	345.03	540.13	MWD
4100.00	81.17	344.65	3795.28	551.34	-147.61	570.76	0.55	0.19	-0.52	345.01	570.76	MWD
4130.00	80.44	344.79	3800.07	579.91	-155.42	600.37	2.48	-2.43	0.47	345.00	600.37	MWD
4161.00	81.04	344.97	3805.06	609.45	-163.40	630.97	2.02	1.94	0.58	344.99	630.97	MWD
4192.00	79.82	344.97	3810.21	638.97	-171.32	661.54	3.94	-3.94	0.00	344.99	661.54	MWD
4222.00	81.64	343.89	3815.05	667.49	-179.27	691.14	7.03	6.07	-3.60	344.97	691.14	MWD
4246.00	84.11	343.64	3818.02	690.35	-185.93	714.95	10.34	10.29	-1.04	344.93	714.95	MWD
4340.00	91.62	343.02	3821.52	780.27	-212.86	808.78	8.02	7.99	-0.66	344.74	808.78	MWD
4370.00	91.92	343.07	3820.59	808.95	-221.60	838.75	1.01	1.00	0.17	344.68	838.76	MWD
4402.00	89.87	343.45	3820.09	839.59	-230.82	870.73	6.52	-6.41	1.19	344.63	870.74	MWD
4434.00	90.00	343.24	3820.13	870.25	-239.99	902.71	0.77	0.41	-0.66	344.58	902.73	MWD
4465.00	90.34	341.83	3820.04	899.82	-249.29	933.69	4.68	1.10	-4.55	344.51	933.71	MWD
4497.00	90.30	340.69	3819.86	930.12	-259.57	965.62	3.56	-0.12	-3.56	344.41	965.66	MWD
4529.00	90.44	340.84	3819.65	960.34	-270.11	997.53	0.64	0.44	0.47	344.29	997.60	MWD
4561.00	89.46	342.13	3819.68	990.68	-280.27	1029.47	5.06	-3.06	4.03	344.20	1029.56	MWD
4592.00	89.70	341.93	3819.91	1020.17	-289.84	1060.43	1.01	0.77	-0.65	344.14	1060.54	MWD
4624.00	89.76	343.00	3820.06	1050.68	-299.48	1092.40	3.35	0.19	3.34	344.09	1092.53	MWD
4655.00	90.00	341.89	3820.12	1080.23	-308.83	1123.37	3.66	0.77	-3.58	344.05	1123.51	MWD
4687.00	89.43	344.43	3820.28	1110.86	-318.10	1155.35	8.13	-1.78	7.94	344.02	1155.51	MWD
4719.00	89.83	344.68	3820.49	1141.70	-326.62	1187.35	1.47	1.25	0.78	344.04	1187.50	MWD
4751.00	89.83	344.55	3820.59	1172.56	-335.11	1219.35	0.41	0.00	-0.41	344.05	1219.50	MWD
4783.00	89.70	345.32	3820.72	1203.45	-343.43	1251.35	2.44	-0.41	2.41	344.07	1251.50	MWD
4815.00	90.03	344.68	3820.79	1234.36	-351.71	1283.35	2.25	1.03	-2.00	344.10	1283.49	MWD
4846.00	90.60	344.65	3820.62	1264.26	-359.91	1314.34	1.84	1.84	-0.10	344.11	1314.49	MWD
4878.00	91.99	345.79	3819.90	1295.19	-368.07	1346.33	5.62	4.34	3.56	344.14	1346.48	MWD
4910.00	92.66	345.40	3818.60	1326.16	-376.02	1378.31	2.42	2.09	-1.22	344.17	1378.44	MWD
4941.00	91.81	345.17	3817.39	1356.12	-383.89	1409.28	2.84	-2.74	-0.74	344.19	1409.41	MWD
4989.00	91.28	344.77	3816.10	1402.46	-396.33	1457.26	1.38	-1.10	-0.83	344.22	1457.39	MWD
5005.00	89.66	344.34	3815.97	1417.88	-400.60	1473.26	10.48	-10.12	-2.69	344.22	1473.39	MWD
5037.00	90.87	345.01	3815.82	1448.74	-409.05	1505.26	4.32	3.78	2.09	344.23	1505.38	MWD
5069.00	90.94	344.94	3815.31	1479.65	-417.35	1537.26	0.31	0.22	-0.22	344.25	1537.38	MWD
5101.00	88.99	345.74	3815.33	1510.60	-425.45	1569.25	6.59	-6.09	2.50	344.27	1569.37	MWD
5133.00	89.06	345.52	3815.88	1541.60	-433.39	1601.25	0.72	0.22	-0.69	344.30	1601.36	MWD
5164.00	88.40	345.52	3816.56	1571.60	-441.14	1632.24	2.13	-2.13	0.00	344.32	1632.34	MWD
5196.00	88.69	344.20	3817.38	1602.48	-449.49	1664.23	4.22	0.91	-4.12	344.33	1664.33	MWD
5228.00	86.54	345.73	3818.71	1633.36	-457.78	1696.20	8.24	-6.72	4.78	344.34	1696.30	MWD
5260.00	86.26	345.89	3820.72	1664.32	-465.61	1728.13	1.01	-0.87	0.50	344.37	1728.22	MWD
5292.00	86.13	347.94	3822.84	1695.42	-472.84	1760.04	6.41	-0.41	6.41	344.42	1760.12	MWD
5323.00	85.82	349.36	3825.02	1725.74	-478.93	1790.90	4.68	-1.00	4.58	344.49	1790.96	MWD
5355.00	86.74	352.60	3827.09	1757.27	-483.93	1822.65	10.50	2.87	10.12	344.60	1822.69	MWD
5384.00	86.93	354.04	3828.69	1786.03	-487.30	1851.30	5.00	0.66	4.97	344.74	1851.31	MWD
5432.00	86.93	354.04	3831.27	1833.70	-492.28	1898.63	0.00	0.00	0.00	344.97	1898.63	MWD