

2-4-07

Energen Resources

SG Interests

Allison Unit Com #135S

Final Drilling Survey

API No: 30-045-34055

Plan: Actual Drill Path ~~BA~~

Surface: 1215/S 660/W

Lateral 1 BHL 1 2541/S 1298/W

* BHL 2 1604/N 1862/W

md 1384 TVD 12640m ± 2765

Lateral 2 BHL 1 2330/S 1220/W

BHL 2 1612/N 1904/W

Energen Resources - Survey

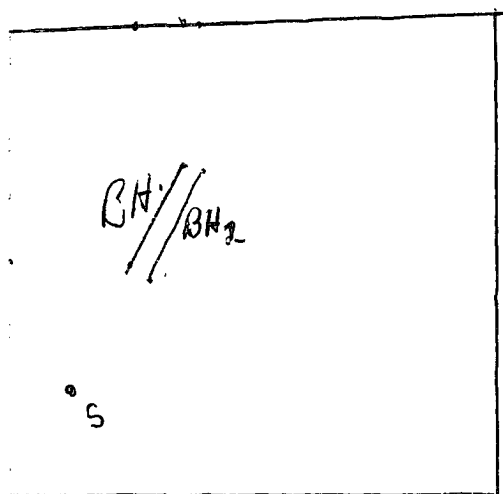
01 February, 2007

md 3194

TVD 12625

md 24700

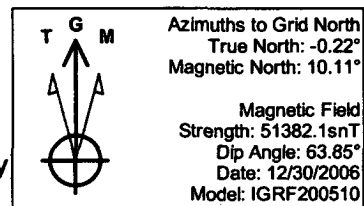
TVD 22629



2/5/07

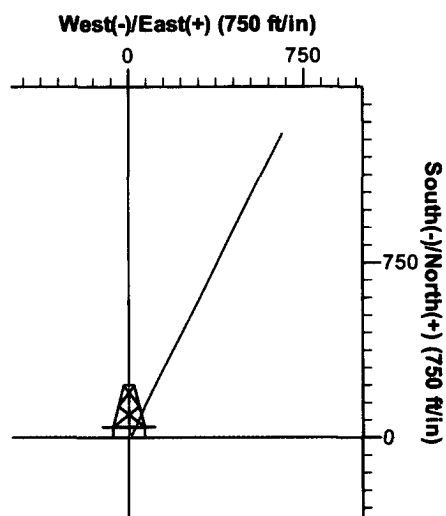
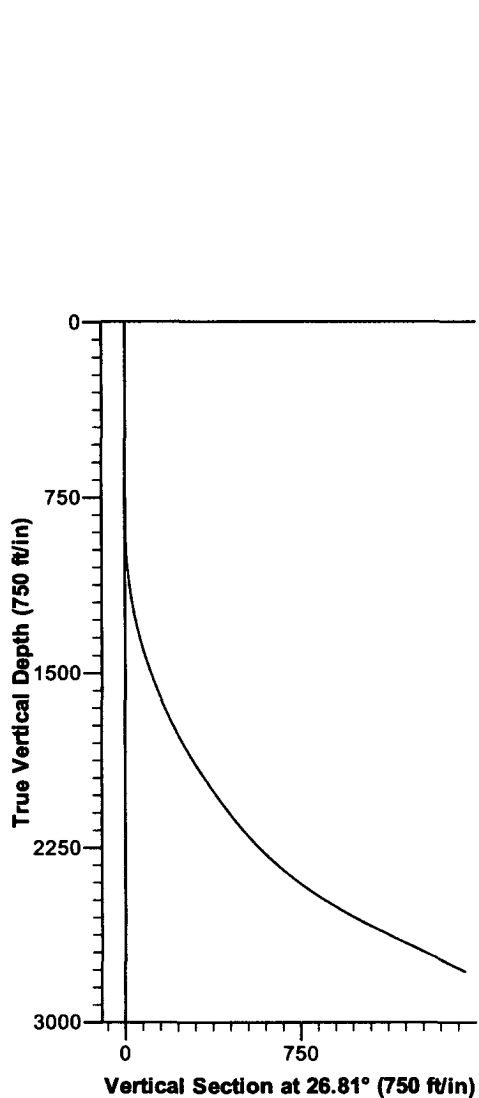


Project: Allison Unit Com #135S
Site: SG Interests
Well: Allison Unit Com #135S
Wellbore: Motherbore Survey
Plan: Actual Drill Path (Allison Unit Com #135S/Motherbore Survey)



PROJECT DETAILS: Allison Unit Com #135S	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Western Zone
System Datum:	Mean Sea Level

SURFACE LOCATION	
Easting:	2829256.28
Northing:	2180351.13



Energen

Energen Resources - Survey



Company: Energen Resources	Local Co-ordinate Reference: Well Allison Unit Com #135S	
Project: Allison Unit Com #135S	TVD Reference: Rig Floor @ 6176.0ft (AWS 289)	
Site: SG Interests	MD Reference: Rig Floor @ 6176.0ft (AWS 289)	
Well: Allison Unit Com #135S	North Reference: Grid	
Wellbore: Motherbore Survey	Survey Calculation Method: Minimum Curvature	
Design: Actual Drill Path	Database: EDM 2003.16 Single User Db	

Project	Allison Unit Com #135S, San Juan County, Dual Lateral		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	SG Interests				
Site Position:		Northing:	2,180,351.13 ft	Latitude:	36° 59' 28.512 N
From:	Lat/Long	Easting:	2,829,256.28 ft	Longitude:	107° 28' 11.310 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.22 °

Well	Allison Unit Com #135S					
Well Position	+N/-S	0.0 ft	Northing:	2,180,351.13 ft	Latitude:	36° 59' 28.512 N
	+E/-W	0.0 ft	Easting:	2,829,256.28 ft	Longitude:	107° 28' 11.310 W
Position Uncertainty	0.0 ft		Wellhead Elevation:	6,161.0 ft	Ground Level:	6,161.0 ft

Wellbore	Motherbore Survey				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/30/2006	10.33	63.85	51,382

Design	Actual Drill Path				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	26.81	

Survey Tool Program	Date	1/30/2007			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	3,440.0	Actual Drill Path (Motherbore Survey)	MWD	MWD - Standard	

Planned Survey						
MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
0.0	0.0	0.00	0.00	0.0	0.0	0.0
100.0	100.0	0.05	44.08	0.0	0.0	0.0
200.0	200.0	0.10	44.08	0.2	0.1	0.1
300.0	300.0	0.15	44.08	0.4	0.3	0.3
400.0	400.0	0.21	44.08	0.7	0.5	0.5
504.0	504.0	0.26	44.08	1.1	0.8	0.8
600.0	600.0	0.26	48.12	1.5	1.1	1.1
700.0	700.0	0.26	52.36	1.9	1.4	1.5
806.0	806.0	0.26	56.82	2.3	1.7	1.8
907.0	907.0	0.53	56.47	2.9	2.1	2.4
997.0	996.9	3.69	48.91	6.0	4.2	5.0
1,000.0	999.9	3.78	48.10	6.2	4.3	5.1

Energen

Energen Resources - Survey



Company:	Energen Resources	Local Co-ordinate Reference:	Well Allison Unit Com #135S
Project:	Allison Unit Com #135S	TVD Reference:	Rig Floor @ 6176.0ft (AWS 289)
Site:	SG Interests	MD Reference:	Rig Floor @ 6176.0ft (AWS 289)
Well:	Allison Unit Com #135S	North Reference:	Grid
Wellbore:	Motherbore Survey	Survey Calculation Method:	Minimum Curvature
Design:	Actual Drill Path	Database:	EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
1,086.0	1,085.5	6.68	35.11	13.8	10.3	10.1
1,100.0	1,099.4	6.98	33.70	15.4	11.7	11.0
1,177.0	1,175.7	8.71	27.73	25.9	20.8	16.3
1,200.0	1,198.4	9.41	27.86	29.5	24.0	18.0
1,269.0	1,266.3	11.52	28.17	42.0	35.0	23.9
1,300.0	1,296.6	12.73	26.87	48.6	40.8	26.9
1,361.0	1,355.8	15.12	24.92	63.2	54.0	33.3
1,400.0	1,393.3	16.29	24.01	73.8	63.6	37.7
1,452.0	1,443.1	17.85	22.98	89.0	77.6	43.8
1,500.0	1,488.6	19.27	22.79	104.3	91.7	49.7
1,547.0	1,532.7	20.66	22.63	120.3	106.5	55.9
1,600.0	1,582.1	21.90	23.66	139.5	124.2	63.5
1,641.0	1,620.0	22.86	24.39	155.0	138.4	69.8
1,700.0	1,674.0	24.84	26.46	178.9	160.0	80.1
1,735.0	1,705.6	26.03	27.55	193.9	173.4	86.9
1,800.0	1,763.5	27.93	26.80	223.4	199.6	100.4
1,828.0	1,788.2	28.75	26.50	236.7	211.5	106.3
1,900.0	1,850.7	30.64	26.91	272.4	243.3	122.4
1,922.0	1,869.6	31.22	27.02	283.7	253.4	127.5
2,000.0	1,935.6	33.19	26.66	325.2	290.5	146.3
2,016.0	1,948.9	33.59	26.59	334.0	298.4	150.2
2,100.0	2,018.3	35.08	27.22	381.4	340.6	171.6
2,110.0	2,026.5	35.26	27.29	387.2	345.7	174.3
2,142.0	2,052.5	35.61	27.29	405.7	362.2	182.8
2,199.0	2,098.5	36.84	27.82	439.4	392.1	198.4
2,200.0	2,099.3	36.88	27.83	440.0	392.6	198.7
2,292.0	2,171.3	40.10	28.26	497.3	443.1	225.6
2,300.0	2,177.4	40.42	28.15	502.4	447.7	228.0
2,386.0	2,241.2	43.88	27.02	560.1	498.9	254.7
2,400.0	2,251.2	44.41	27.12	569.9	507.5	259.2
2,481.0	2,307.5	47.48	27.64	628.1	559.2	285.9
2,500.0	2,320.3	48.30	27.38	642.2	571.7	292.4
2,575.0	2,368.6	51.53	26.41	699.5	622.9	318.4
2,600.0	2,384.0	52.36	26.36	719.2	640.5	327.1
2,668.0	2,424.4	54.61	26.23	773.9	689.5	351.3
2,700.0	2,442.7	55.75	25.99	800.1	713.1	362.9
2,762.0	2,476.6	57.95	25.53	852.0	759.9	385.4
2,800.0	2,496.5	58.84	25.82	884.4	789.0	399.5
2,856.0	2,525.0	60.15	26.23	932.6	832.4	420.6
2,900.0	2,546.5	61.22	26.32	971.0	866.8	437.6
2,950.0	2,570.1	62.43	26.41	1,015.1	906.3	457.2
3,000.0	2,593.0	63.03	26.73	1,059.5	946.0	477.1
3,045.0	2,613.2	63.58	27.02	1,099.7	981.9	495.2
3,076.0	2,627.0	63.75	27.20	1,127.5	1,006.6	507.9

Energen

Energen Resources - Survey



Company: Energen Resources Project: Allison Unit Com #135S Site: SG Interests Well: Allison Unit Com #135S Wellbore: Motherbore Survey Design: Actual Drill Path	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well Allison Unit Com #135S Rig Floor @ 6176.0ft (AWS 289) Rig Floor @ 6176.0ft (AWS 289) Grid Minimum Curvature EDM 2003.16 Single User Db
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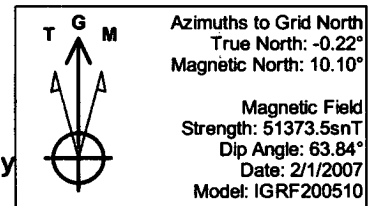
Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
3,107.0	2,640.6	64.19	27.11	1,155.4	1,031.4	520.6
3,138.0	2,654.0	64.46	27.02	1,183.3	1,056.3	533.3
3,170.3	2,667.8	65.07	26.67	1,212.5	1,082.4	546.5
3,201.0	2,680.8	64.90	26.67	1,240.3	1,107.2	559.0
3,231.0	2,693.5	64.72	26.76	1,267.5	1,131.5	571.2
3,263.0	2,707.2	64.72	26.76	1,296.4	1,157.3	584.2
3,295.0	2,720.8	64.90	26.41	1,325.4	1,183.2	597.2
3,300.0	2,723.0	64.77	26.44	1,329.9	1,187.2	599.2
3,327.0	2,734.6	64.10	26.59	1,354.2	1,209.0	610.1
3,357.0	2,747.8	63.49	27.29	1,381.2	1,233.0	622.3
3,388.0	2,761.7	63.40	27.38	1,408.9	1,257.7	635.0
3,400.0	2,767.1	63.40	27.38	1,419.6	1,267.2	640.0
3,440.0	2,785.0	63.40	27.38	1,455.4	1,299.0	656.4

Checked By: _____	Approved By: _____	Date: _____
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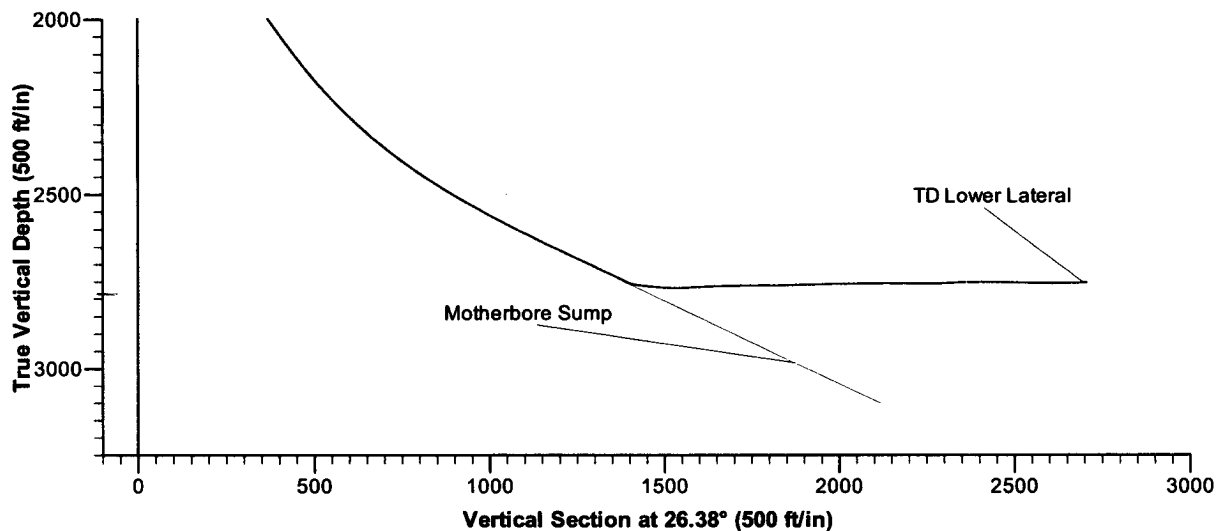
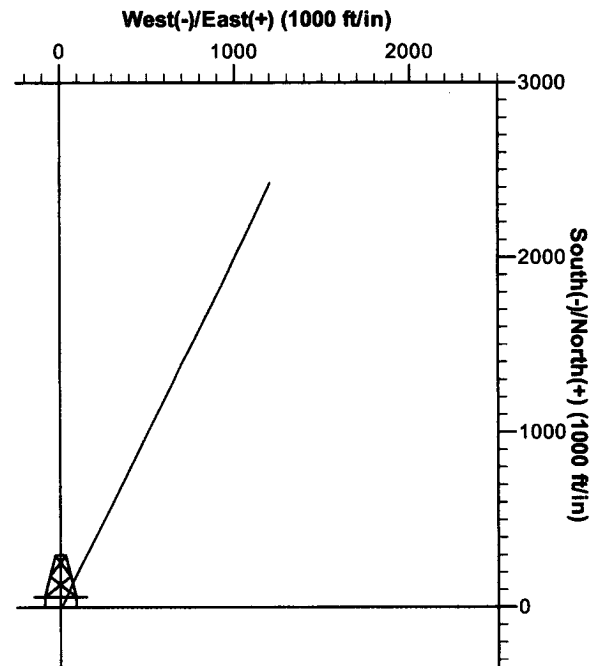


Project: Allison Unit Com #135S
Site: SG Interests
Well: Allison Unit Com #135S
Wellbore: Lower Lateral Survey
Plan: Actual Drill Path (Allison Unit Com #135S/Lower Lateral Survey)



PROJECT DETAILS: Allison Unit Com #135S	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Western Zone
System Datum:	Mean Sea Level

SURFACE LOCATION	
Easting:	2829256.28
Northing:	2180351.13



Energen

Energen Resources - Survey



Company: Energen Resources	Local Co-ordinate Reference: Well Allison Unit Com #135S	
Project: Allison Unit Com #135S	TVD Reference: Rig Floor @ 6176.0ft (AWS 289)	
Site: SG Interests	MD Reference: Rig Floor @ 6176.0ft (AWS 289)	
Well: Allison Unit Com #135S	North Reference: Grid	
Wellbore: Lower Lateral Survey	Survey Calculation Method: Minimum Curvature	
Design: Actual Drill Path	Database: EDM 2003.16 Single User Db	

Project	Allison Unit Com #135S, San Juan County, Dual Lateral		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	SG Interests				
Site Position:		Northing:	2,180,351.13 ft	Latitude:	36° 59' 28.512 N
From:	Lat/Long	Easting:	2,829,256.28 ft	Longitude:	107° 28' 11.310 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.22 °

Well	Allison Unit Com #135S					
Well Position	+N/-S	0.0 ft	Northing:	2,180,351.13 ft	Latitude:	36° 59' 28.512 N
	+E/-W	0.0 ft	Easting:	2,829,256.28 ft	Longitude:	107° 28' 11.310 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	6,161.0 ft	Ground Level:	6,161.0 ft

Wellbore	Lower Lateral Survey				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	2/1/2007	10.32	63.85	51,373

Design	Actual Drill Path				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	3,366.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	26.38	

Survey Tool Program	Date	2/1/2007			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	3,366.0	Actual Drill Path (Motherbore Survey)	MWD	MWD - Standard	
3,366.0	4,686.0	Actual Drill Path (Lower Lateral Survey)			

Planned Survey						
MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
0.0	0.0	0.00	0.00	0.0	0.0	0.0
100.0	100.0	0.05	44.08	0.0	0.0	0.0
200.0	200.0	0.10	44.08	0.2	0.1	0.1
300.0	300.0	0.15	44.08	0.4	0.3	0.3
400.0	400.0	0.21	44.08	0.7	0.5	0.5
504.0	504.0	0.26	44.08	1.1	0.8	0.8
600.0	600.0	0.26	48.12	1.5	1.1	1.1
700.0	700.0	0.26	52.36	1.9	1.4	1.5
806.0	806.0	0.26	56.82	2.3	1.7	1.8
907.0	907.0	0.53	56.47	2.9	2.1	2.4
997.0	996.9	3.69	48.91	6.0	4.2	5.0

Energen

Energen Resources - Survey



Company: Energen Resources
Project: Allison Unit Com #135S
Site: SG Interests
Well: Allison Unit Com #135S
Wellbore: Lower Lateral Survey
Design: Actual Drill Path

Local Co-ordinate Reference: Well Allison Unit Com #135S
TVD Reference: Rig Floor @ 6176.0ft (AWS 289)
MD Reference: Rig Floor @ 6176.0ft (AWS 289)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
1,000.0	999.9	3.78	48.10	6.2	4.3	5.1
1,086.0	1,085.5	6.68	35.11	13.7	10.3	10.1
1,100.0	1,099.4	6.98	33.70	15.4	11.7	11.0
1,177.0	1,175.7	8.71	27.73	25.9	20.8	16.3
1,200.0	1,198.4	9.41	27.86	29.5	24.0	18.0
1,269.0	1,266.3	11.52	28.17	42.0	35.0	23.9
1,300.0	1,296.6	12.73	26.87	48.5	40.8	26.9
1,361.0	1,355.8	15.12	24.92	63.2	54.0	33.3
1,400.0	1,393.3	16.29	24.01	73.7	63.6	37.7
1,452.0	1,443.1	17.85	22.98	89.0	77.6	43.8
1,500.0	1,488.6	19.27	22.79	104.2	91.7	49.7
1,547.0	1,532.7	20.66	22.63	120.2	106.5	55.9
1,600.0	1,582.1	21.90	23.66	139.4	124.2	63.5
1,641.0	1,620.0	22.86	24.39	155.0	138.4	69.8
1,700.0	1,674.0	24.84	26.46	178.9	160.0	80.1
1,735.0	1,705.6	26.03	27.55	193.9	173.4	86.9
1,800.0	1,763.5	27.93	26.80	223.4	199.6	100.4
1,828.0	1,788.2	28.75	26.50	236.7	211.5	106.3
1,900.0	1,850.7	30.64	26.91	272.4	243.3	122.4
1,922.0	1,869.6	31.22	27.02	283.7	253.4	127.5
2,000.0	1,935.6	33.19	26.66	325.2	290.5	146.3
2,016.0	1,948.9	33.59	26.59	334.0	298.4	150.2
2,100.0	2,018.3	35.08	27.22	381.4	340.6	171.6
2,110.0	2,026.5	35.26	27.29	387.2	345.7	174.3
2,142.0	2,052.5	35.61	27.29	405.7	362.2	182.8
2,199.0	2,098.5	36.84	27.82	439.4	392.1	198.4
2,200.0	2,099.3	36.88	27.83	440.0	392.6	198.7
2,292.0	2,171.3	40.10	28.26	497.2	443.1	225.6
2,300.0	2,177.4	40.42	28.15	502.4	447.7	228.0
2,386.0	2,241.2	43.88	27.02	560.1	498.9	254.7
2,400.0	2,251.2	44.41	27.12	569.8	507.5	259.2
2,481.0	2,307.5	47.48	27.64	628.0	559.2	285.9
2,500.0	2,320.3	48.30	27.38	642.1	571.7	292.4
2,575.0	2,368.6	51.53	26.41	699.5	622.9	318.4
2,600.0	2,384.0	52.36	26.36	719.2	640.5	327.1
2,668.0	2,424.4	54.61	26.23	773.8	689.5	351.3
2,700.0	2,442.7	55.75	25.99	800.1	713.1	362.9
2,762.0	2,476.6	57.95	25.53	852.0	759.9	385.4
2,800.0	2,496.5	58.84	25.82	884.4	789.0	399.5
2,856.0	2,525.0	60.15	26.23	932.6	832.4	420.6
2,900.0	2,546.5	61.22	26.32	971.0	866.8	437.6
2,950.0	2,570.1	62.43	26.41	1,015.0	906.3	457.2
3,000.0	2,593.0	63.03	26.73	1,059.5	946.0	477.1
3,045.0	2,613.2	63.58	27.02	1,099.7	981.9	495.2

Energen

Energen Resources - Survey



Company: Energen Resources
Project: Allison Unit Com #135S
Site: SG Interests
Well: Allison Unit Com #135S
Wellbore: Lower Lateral Survey
Design: Actual Drill Path

Local Co-ordinate Reference: Well Allison Unit Com #135S
TVD Reference: Rig Floor @ 6176.0ft (AWS 289)
MD Reference: Rig Floor @ 6176.0ft (AWS 289)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
3,076.0	2,627.0	63.75	27.20	1,127.5	1,006.6	507.9
3,107.0	2,640.6	64.19	27.11	1,155.3	1,031.4	520.6
3,138.0	2,654.0	64.46	27.02	1,183.3	1,056.3	533.3
3,170.3	2,667.8	65.07	26.67	1,212.5	1,082.4	546.5
3,201.0	2,680.8	64.90	26.67	1,240.3	1,107.2	559.0
3,231.0	2,693.5	64.72	26.76	1,267.4	1,131.5	571.2
3,263.0	2,707.2	64.72	26.76	1,296.4	1,157.3	584.2
3,295.0	2,720.8	64.90	26.41	1,325.3	1,183.2	597.2
3,300.0	2,723.0	64.77	26.44	1,329.9	1,187.2	599.2
3,327.0	2,734.6	64.10	26.59	1,354.2	1,209.0	610.1
3,357.0	2,747.8	63.49	27.29	1,381.1	1,233.0	622.3
3,366.0	2,751.9	63.46	27.32	1,389.2	1,240.2	626.0
3,370.0	2,753.6	65.89	27.05	1,392.8	1,243.4	627.6
3,375.0	2,755.5	68.93	26.73	1,397.4	1,247.5	629.7
3,380.0	2,757.2	71.97	26.42	1,402.1	1,251.7	631.8
3,385.0	2,758.6	75.01	26.12	1,406.9	1,256.0	633.9
3,390.0	2,759.8	78.05	25.83	1,411.8	1,260.4	636.1
3,395.0	2,760.7	81.09	25.55	1,416.7	1,264.8	638.2
3,397.0	2,760.9	82.31	25.44	1,418.7	1,266.6	639.1
3,400.0	2,761.3	82.41	25.42	1,421.6	1,269.3	640.3
3,429.0	2,764.9	83.36	25.18	1,450.4	1,295.3	652.6
3,460.0	2,768.1	84.94	24.74	1,481.2	1,323.3	665.6
3,492.0	2,770.2	87.49	25.00	1,513.2	1,352.3	679.1
3,500.0	2,770.5	88.35	25.00	1,521.2	1,359.5	682.5
3,524.0	2,770.7	90.92	25.00	1,545.1	1,381.2	692.6
3,525.0	2,770.6	91.00	25.09	1,546.1	1,382.2	693.0
3,550.0	2,769.8	93.06	27.43	1,571.1	1,404.6	704.1
3,556.0	2,769.4	93.55	27.99	1,577.1	1,409.9	706.9
3,588.0	2,767.4	93.65	28.78	1,609.0	1,438.0	722.0
3,600.0	2,766.7	93.38	28.78	1,621.0	1,448.5	727.8
3,619.0	2,765.6	92.95	28.78	1,640.0	1,465.1	736.9
3,651.0	2,764.5	91.19	27.82	1,671.9	1,493.2	752.1
3,683.0	2,763.9	90.75	26.50	1,703.9	1,521.7	766.7
3,700.0	2,763.7	90.46	26.16	1,720.9	1,536.9	774.2
3,714.0	2,763.7	90.22	25.88	1,734.9	1,549.5	780.4
3,745.0	2,763.4	90.57	25.44	1,765.9	1,577.5	793.8
3,777.0	2,763.4	89.60	25.71	1,797.9	1,606.3	807.6
3,800.0	2,763.3	90.99	26.28	1,820.9	1,627.0	817.7
3,809.0	2,763.1	91.54	26.50	1,829.9	1,635.1	821.7
3,841.0	2,762.1	91.89	27.55	1,861.9	1,663.5	836.2
3,873.0	2,761.1	91.80	27.82	1,893.9	1,691.9	851.1
3,905.0	2,760.3	91.10	27.38	1,925.8	1,720.2	865.9
3,937.0	2,759.7	90.92	26.41	1,957.8	1,748.8	880.4
3,968.0	2,759.0	91.63	25.71	1,988.8	1,776.6	894.0
4,000.0	2,758.2	91.45	26.59	2,020.8	1,805.3	908.1

Energen

Energen Resources - Survey



Company: Energen Resources
Project: Allison Unit Com #135S
Site: SG Interests
Well: Allison Unit Com #135S
Wellbore: Lower Lateral Survey
Design: Actual Drill Path

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:
Database:

Well Allison Unit Com #135S
 Rig Floor @ 6176.0ft (AWS 289)
 Rig Floor @ 6176.0ft (AWS 289)
 Grid
 Minimum Curvature
 EDM 2003.16 Single User Db

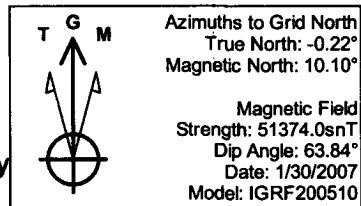
Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
4,032.0	2,757.5	90.84	26.06	2,052.8	1,834.0	922.3
4,064.0	2,757.3	90.13	26.23	2,084.8	1,862.7	936.4
4,096.0	2,757.3	89.69	24.83	2,116.8	1,891.6	950.2
4,100.0	2,757.3	89.70	24.90	2,120.8	1,895.2	951.9
4,128.0	2,757.5	89.78	25.36	2,148.8	1,920.6	963.8
4,159.0	2,757.7	89.25	25.71	2,179.8	1,948.5	977.1
4,191.0	2,758.2	88.90	24.65	2,211.8	1,977.5	990.7
4,200.0	2,758.4	89.18	24.86	2,220.8	1,985.7	994.5
4,222.0	2,758.6	89.87	25.36	2,242.8	2,005.6	1,003.8
4,254.0	2,758.1	91.89	25.79	2,274.7	2,034.4	1,017.6
4,286.0	2,757.0	92.07	26.06	2,306.7	2,063.2	1,031.6
4,300.0	2,756.5	92.03	26.37	2,320.7	2,075.8	1,037.8
4,318.0	2,755.8	91.98	26.76	2,338.7	2,091.8	1,045.8
4,350.0	2,754.8	91.71	27.02	2,370.7	2,120.4	1,060.3
4,381.0	2,753.7	92.40	26.41	2,401.7	2,148.0	1,074.2
4,400.0	2,753.3	90.06	25.57	2,420.7	2,165.1	1,082.6
4,413.0	2,753.5	88.46	25.00	2,433.7	2,176.9	1,088.1
4,445.0	2,754.4	88.29	24.21	2,465.6	2,206.0	1,101.4
4,477.0	2,755.4	88.11	24.48	2,497.6	2,235.1	1,114.6
4,508.0	2,756.5	87.85	24.48	2,528.6	2,263.3	1,127.5
4,540.0	2,757.3	89.08	24.56	2,560.5	2,292.4	1,140.7
4,572.0	2,757.6	89.78	24.12	2,592.5	2,321.5	1,153.9
4,603.0	2,757.4	91.01	25.18	2,623.5	2,349.7	1,166.8
4,635.0	2,756.7	91.63	25.44	2,655.5	2,378.6	1,180.5
4,686.0	2,755.1	92.00	25.44	2,706.4	2,424.7	1,202.4

Checked By: _____	Approved By: _____	Date: _____
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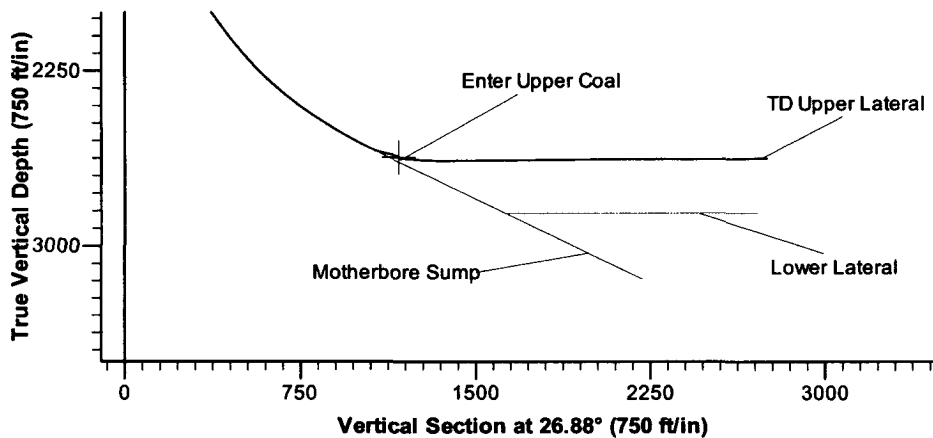
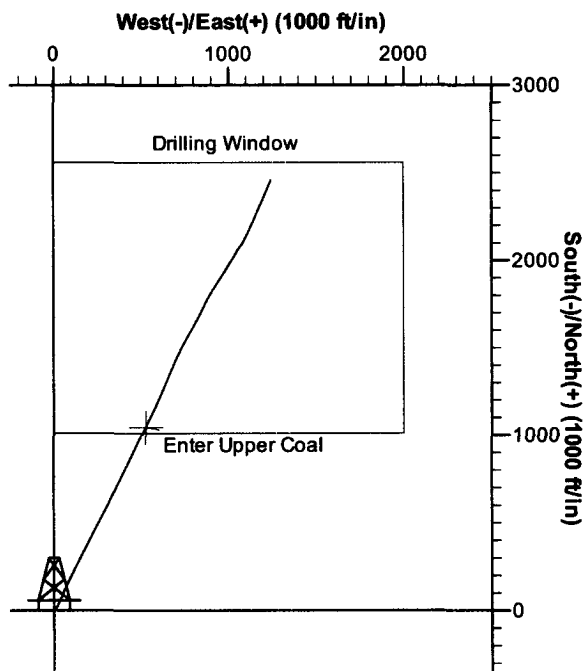


Project: Allison Unit Com #135S
Site: SG Interests
Well: Allison Unit Com #135S
Wellbore: Upper Lateral Survey
Plan: Actual Drill Path (Allison Unit Com #135S/Upper Lateral Survey)



PROJECT DETAILS: Allison Unit Com #135S	
Geodetic System:	US State Plane 1983
Datum:	North American Datum 1983
Ellipsoid:	GRS 1980
Zone:	New Mexico Western Zone
System Datum:	Mean Sea Level

SURFACE LOCATION	
Easting:	2829256.28
Northing:	2180351.13



Energen

Energen Resources - Survey



Company: Energen Resources	Local Co-ordinate Reference: Well Allison Unit Com #135S	
Project: Allison Unit Com #135S	TVD Reference: Rig Floor @ 6176.0ft (AWS 289)	
Site: SG Interests	MD Reference: Rig Floor @ 6176.0ft (AWS 289)	
Well: Allison Unit Com #135S	North Reference: Grid	
Wellbore: Upper Lateral Survey	Survey Calculation Method: Minimum Curvature	
Design: Actual Drill Path	Database: EDM 2003.16 Single User Db	

Project	Allison Unit Com #135S, San Juan County, Dual Lateral		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	SG Interests		
Site Position:		Northing:	2,180,351.13 ft
From:	Lat/Long	Easting:	2,829,256.28 ft
Position Uncertainty:	0.0 ft	Slot Radius:	"
		Latitude:	36° 59' 28.512 N
		Longitude:	107° 28' 11.310 W
		Grid Convergence:	0.22 °

Well	Allison Unit Com #135S		
Well Position	+N/-S	0.0 ft	Northing: 2,180,351.13 ft
	+E/-W	0.0 ft	Easting: 2,829,256.28 ft
Position Uncertainty	0.0 ft	Wellhead Elevation:	6,161.0 ft
		Ground Level:	6,161.0 ft

Wellbore	Upper Lateral Survey				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	1/30/2007	10.32	63.85	51,374

Design	Actual Drill Path				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	2,982.0	
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.0	0.0	0.0	26.88	

Survey Tool Program		Date	1/30/2007		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
0.0	2,982.0	Actual Drill Path (Motherbore Survey)	MWD	MWD - Standard	
2,982.0	4,700.0	Actual Drill Path (Upper Lateral Survey)			

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
0.0	0.0	0.00	0.00	0.0	0.0	0.0
100.0	100.0	0.05	44.08	0.0	0.0	0.0
200.0	200.0	0.10	44.08	0.2	0.1	0.1
300.0	300.0	0.15	44.08	0.4	0.3	0.3
400.0	400.0	0.21	44.08	0.7	0.5	0.5
504.0	504.0	0.26	44.08	1.1	0.8	0.8
600.0	600.0	0.26	48.12	1.5	1.1	1.1
700.0	700.0	0.26	52.36	1.9	1.4	1.5
806.0	806.0	0.26	56.82	2.3	1.7	1.8
907.0	907.0	0.53	56.47	2.9	2.1	2.4
997.0	996.9	3.69	48.91	6.0	4.2	5.0

Energen

Energen Resources - Survey



Company: Energen Resources
Project: Allison Unit Com #135S
Site: SG Interests
Well: Allison Unit Com #135S
Wellbore: Upper Lateral Survey
Design: Actual Drill Path

Local Co-ordinate Reference: Well Allison Unit Com #135S
TVD Reference: Rig Floor @ 6176.0ft (AWS 289)
MD Reference: Rig Floor @ 6176.0ft (AWS 289)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
1,000.0	999.9	3.78	48.10	6.2	4.3	5.1
1,086.0	1,085.5	6.68	35.11	13.8	10.3	10.1
1,100.0	1,099.4	6.98	33.70	15.4	11.7	11.0
1,177.0	1,175.7	8.71	27.73	25.9	20.8	16.3
1,200.0	1,198.4	9.41	27.86	29.5	24.0	18.0
1,269.0	1,266.3	11.52	28.17	42.1	35.0	23.9
1,300.0	1,296.6	12.73	26.87	48.6	40.8	26.9
1,361.0	1,355.8	15.12	24.92	63.2	54.0	33.3
1,400.0	1,393.3	16.29	24.01	73.8	63.6	37.7
1,452.0	1,443.1	17.85	22.98	89.0	77.6	43.8
1,500.0	1,488.6	19.27	22.79	104.3	91.7	49.7
1,547.0	1,532.7	20.66	22.63	120.3	106.5	55.9
1,600.0	1,582.1	21.90	23.66	139.5	124.2	63.5
1,641.0	1,620.0	22.86	24.39	155.0	138.4	69.8
1,700.0	1,674.0	24.84	26.46	178.9	160.0	80.1
1,735.0	1,705.6	26.03	27.55	193.9	173.4	86.9
1,800.0	1,763.5	27.93	26.80	223.4	199.6	100.4
1,828.0	1,788.2	28.75	26.50	236.7	211.5	106.3
1,900.0	1,850.7	30.64	26.91	272.4	243.3	122.4
1,922.0	1,869.6	31.22	27.02	283.7	253.4	127.5
2,000.0	1,935.6	33.19	26.66	325.2	290.5	146.3
2,016.0	1,948.9	33.59	26.59	334.0	298.4	150.2
2,100.0	2,018.3	35.08	27.22	381.4	340.6	171.6
2,110.0	2,026.5	35.26	27.29	387.2	345.7	174.3
2,142.0	2,052.5	35.61	27.29	405.7	362.2	182.8
2,199.0	2,098.5	36.84	27.82	439.4	392.1	198.4
2,200.0	2,099.3	36.88	27.83	440.0	392.6	198.7
2,292.0	2,171.3	40.10	28.26	497.3	443.1	225.6
2,300.0	2,177.4	40.42	28.15	502.4	447.7	228.0
2,386.0	2,241.2	43.88	27.02	560.1	498.9	254.7
2,400.0	2,251.2	44.41	27.12	569.9	507.5	259.2
2,481.0	2,307.5	47.48	27.64	628.1	559.2	285.9
2,500.0	2,320.3	48.30	27.38	642.2	571.7	292.4
2,575.0	2,368.6	51.53	26.41	699.5	622.9	318.4
2,600.0	2,384.0	52.36	26.36	719.2	640.5	327.1
2,668.0	2,424.4	54.61	26.23	773.9	689.5	351.3
2,700.0	2,442.7	55.75	25.99	800.1	713.1	362.9
2,762.0	2,476.6	57.95	25.53	852.0	759.9	385.4
2,800.0	2,496.5	58.84	25.82	884.4	789.0	399.5
2,856.0	2,525.0	60.15	26.23	932.6	832.4	420.6
2,900.0	2,546.5	61.22	26.32	971.0	866.8	437.6
2,950.0	2,570.1	62.43	26.41	1,015.1	906.3	457.2
2,982.0	2,584.8	62.82	26.62	1,043.5	931.7	469.9
3,000.0	2,592.5	66.55	26.17	1,059.7	946.3	477.1

Energen

Energen Resources - Survey



Company: Energen Resources Project: Allison Unit Com #135S Site: SG Interests Well: Allison Unit Com #135S Wellbore: Upper Lateral Survey Design: Actual Drill Path	Local Co-ordinate Reference: Well Allison Unit Com #135S TVD Reference: Rig Floor @ 6176.0ft (AWS 289) MD Reference: Rig Floor @ 6176.0ft (AWS 289) North Reference: Grid Survey Calculation Method: Minimum Curvature Database: EDM 2003.16 Single User Db	
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Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
3,025.0	2,601.4	71.73	25.59	1,083.1	967.3	487.3
3,048.0	2,607.7	76.50	25.09	1,105.2	987.3	496.8
3,050.0	2,608.2	76.91	25.17	1,107.2	989.0	497.6
3,075.0	2,612.7	82.09	26.09	1,131.7	1,011.2	508.2
3,079.0	2,613.2	82.92	26.23	1,135.7	1,014.8	510.0
3,080.0	2,613.4	82.34	26.25	1,136.7	1,015.6	510.4
3,085.0	2,614.2	79.42	26.34	1,141.6	1,020.1	512.6
3,090.0	2,615.2	76.50	26.43	1,146.5	1,024.4	514.8
3,095.0	2,616.5	73.58	26.52	1,151.3	1,028.8	516.9
3,100.0	2,618.0	70.66	26.62	1,156.1	1,033.0	519.0
3,105.0	2,619.8	67.74	26.72	1,160.8	1,037.2	521.1
3,110.0	2,621.8	64.82	26.83	1,165.3	1,041.3	523.2
3,111.0	2,622.3	64.24	26.85	1,166.2	1,042.1	523.6
3,115.0	2,623.9	66.79	26.86	1,169.9	1,045.3	525.3
3,120.0	2,625.8	69.99	26.88	1,174.5	1,049.5	527.4
3,125.0	2,627.3	73.18	26.89	1,179.3	1,053.7	529.5
3,130.0	2,628.6	76.38	26.91	1,184.1	1,058.0	531.7
3,135.0	2,629.7	79.57	26.92	1,189.0	1,062.4	533.9
3,140.0	2,630.5	82.76	26.93	1,193.9	1,066.8	536.1
3,143.0	2,630.8	84.68	26.94	1,196.9	1,069.4	537.5
3,175.0	2,633.8	84.33	26.94	1,228.8	1,097.8	551.9
3,206.0	2,636.7	85.12	25.79	1,259.6	1,125.5	565.6
3,238.0	2,638.7	87.58	25.27	1,291.6	1,154.3	579.4
3,269.0	2,639.7	88.90	24.12	1,322.5	1,182.5	592.3
3,301.0	2,640.1	89.52	22.98	1,354.5	1,211.8	605.1
3,333.0	2,640.1	90.66	22.98	1,386.4	1,241.3	617.6
3,365.0	2,639.9	90.04	22.37	1,418.3	1,270.8	629.9
3,396.0	2,639.7	90.57	22.45	1,449.2	1,299.4	641.8
3,400.0	2,639.7	90.59	22.57	1,453.2	1,303.1	643.3
3,428.0	2,639.3	90.75	23.42	1,481.1	1,328.9	654.2
3,460.0	2,639.1	90.22	24.12	1,513.1	1,358.2	667.1
3,492.0	2,639.0	90.13	22.98	1,545.0	1,387.5	679.9
3,500.0	2,639.0	90.22	23.27	1,553.0	1,394.9	683.1
3,523.0	2,638.8	90.48	24.12	1,576.0	1,415.9	692.3
3,555.0	2,638.7	90.04	25.44	1,607.9	1,445.0	705.7
3,587.0	2,638.5	90.40	26.23	1,639.9	1,473.8	719.7
3,600.0	2,638.4	90.65	26.66	1,652.9	1,485.4	725.4
3,619.0	2,638.2	91.01	27.29	1,671.9	1,502.4	734.1
3,651.0	2,637.8	90.40	28.26	1,703.9	1,530.7	749.0
3,683.0	2,637.5	90.48	29.66	1,735.9	1,558.7	764.5
3,700.0	2,637.3	90.92	29.76	1,752.9	1,573.4	772.9
3,714.0	2,637.0	91.28	29.84	1,766.9	1,585.6	779.9
3,746.0	2,636.5	90.48	30.10	1,798.8	1,613.3	795.8
3,778.0	2,636.5	89.60	28.78	1,830.8	1,641.2	811.6
3,800.0	2,636.7	89.72	27.82	1,852.8	1,660.5	822.0

Energen

Energen Resources - Survey



Company: Energen Resources Project: Allison Unit Com #135S Site: SG Interests Well: Allison Unit Com #135S Wellbore: Upper Lateral Survey Design: Actual Drill Path	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well Allison Unit Com #135S Rig Floor @ 6176.0ft (AWS 289) Rig Floor @ 6176.0ft (AWS 289) Grid Minimum Curvature EDM 2003.16 Single User Db
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Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	N/S (ft)	E/W (ft)
3,810.0	2,636.7	89.78	27.38	1,862.8	1,669.4	826.6
3,842.0	2,636.6	90.40	26.67	1,894.8	1,697.9	841.2
3,873.0	2,636.4	90.66	26.41	1,925.8	1,725.6	855.0
3,905.0	2,635.8	91.19	27.38	1,957.8	1,754.2	869.5
3,937.0	2,635.1	91.54	29.22	1,989.7	1,782.3	884.7
3,969.0	2,634.5	90.66	30.80	2,021.7	1,810.0	900.7
4,000.0	2,634.3	89.87	31.68	2,052.6	1,836.5	916.7
4,032.0	2,634.1	90.75	32.39	2,084.5	1,863.7	933.7
4,063.0	2,633.8	90.48	33.27	2,115.3	1,889.7	950.5
4,095.0	2,633.7	90.04	33.44	2,147.1	1,916.5	968.1
4,100.0	2,633.7	90.03	33.34	2,152.1	1,920.6	970.9
4,127.0	2,633.7	89.96	32.83	2,178.9	1,943.2	985.6
4,159.0	2,633.6	90.13	31.95	2,210.8	1,970.3	1,002.7
4,190.0	2,633.6	90.22	31.86	2,241.6	1,996.6	1,019.1
4,200.0	2,633.5	89.97	31.69	2,251.6	2,005.1	1,024.4
4,222.0	2,633.6	89.43	31.33	2,273.5	2,023.8	1,035.9
4,254.0	2,633.8	90.13	30.10	2,305.5	2,051.4	1,052.2
4,260.0	2,633.8	90.06	31.70	2,311.4	2,056.5	1,055.3
4,280.0	2,633.8	89.85	37.01	2,331.3	2,073.0	1,066.6
4,286.0	2,633.8	89.78	38.61	2,337.2	2,077.7	1,070.3
4,290.0	2,633.8	89.82	37.08	2,341.1	2,080.9	1,072.7
4,300.0	2,633.8	89.94	33.26	2,351.0	2,089.1	1,078.5
4,310.0	2,633.8	90.05	29.44	2,360.9	2,097.6	1,083.7
4,317.0	2,633.8	90.13	26.76	2,367.9	2,103.8	1,087.0
4,349.0	2,633.7	90.31	25.53	2,399.9	2,132.5	1,101.1
4,381.0	2,633.4	90.75	24.92	2,431.9	2,161.5	1,114.7
4,400.0	2,633.2	90.54	24.87	2,450.9	2,178.7	1,122.7
4,413.0	2,633.1	90.40	24.83	2,463.9	2,190.5	1,128.2
4,445.0	2,633.0	89.96	24.21	2,495.9	2,219.6	1,141.5
4,476.0	2,633.1	89.60	24.04	2,526.8	2,247.9	1,154.1
4,508.0	2,633.2	89.96	24.12	2,558.8	2,277.1	1,167.2
4,540.0	2,633.2	89.96	23.51	2,590.7	2,306.4	1,180.1
4,572.0	2,633.1	90.57	22.98	2,622.7	2,335.8	1,192.7
4,604.0	2,632.5	91.54	23.07	2,654.6	2,365.2	1,205.3
4,635.0	2,631.5	92.07	23.60	2,685.5	2,393.7	1,217.5
4,700.0	2,628.9	92.50	23.60	2,750.4	2,453.2	1,243.5

Energen

Energen Resources - Survey



Company: Energen Resources Project: Allison Unit Com #135S Site: SG Interests Well: Allison Unit Com #135S Wellbore: Upper Lateral Survey Design: Actual Drill Path	Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:	Well Allison Unit Com #135S Rig Floor @ 6176.0ft (AWS 289) Rig Floor @ 6176.0ft (AWS 289) Grid Minimum Curvature EDM 2003.16 Single User Db
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Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target - Shape									
Enter Upper Coal	0.00	0.00	2,625.0	1,045.5	529.7	2,181,396.60	2,829,785.98	36° 59' 38.830 N	107° 28' 4.731 W
- plan misses by 3.9ft at 3117.4ft MD (2624.8 TVD, 1047.3 N, 526.2 E)									
- Point									
Drill Block	0.00	0.00	0.0	0.0	0.0	2,180,351.13	2,829,256.28	36° 59' 28.512 N	107° 28' 11.310 W
- plan hits target									
- Rectangle (sides W1,544.0 H2,000.0 D0.0)									

Checked By: _____	Approved By: _____	Date: _____
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