

District I
1625 N French Dr , Hobbs, NM 88240

District II
1301 W. Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd , Aztec, NM 87410

District IV
1220 S. St. Francis Dr , Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-102
Revised October 12, 2005

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30534	² Pool Code 72319	³ Pool Name Blanco Mesaverde
⁴ Property Code 21996	⁵ Property Name San Juan 32-5 Unit	⁶ Well Number 21
⁷ OGRID No. 162928	⁸ Operator Name Energen Resources Corporation	⁹ Elevation 6340'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
K	23	32N	06W		1840'	South	1565'	West	Rio Arriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no .	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	22	32N	06W		1704'	South	765'	West	Rio Arriba

12 Dedicated Acres 20 S/2	13 Joint or Infill	14 Consolidation Code	15 Order No.	RCVD OCT 29 '08 TOLSON, D.V.
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SECRET

[illegible]

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division <u>Vicki Donaghey</u> Signature <u>10/28/08</u> Date <u>Vicki Donaghey</u> Printed Name
	18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief <u>09/26/2007</u> Date of Survey <u>original survey conducted and recorded by David R. Hulse</u> Signature and Seal of Professional Surveyor <u>10301</u> Certificate Number

RCUD OCT 29 '08

OIL CONS. DIV.

DIST. 3

SJ BR

S/2 Sec.22, T32N, R6W

Eul Canyon

San Juan 32-5 Unit #21

EOW Report

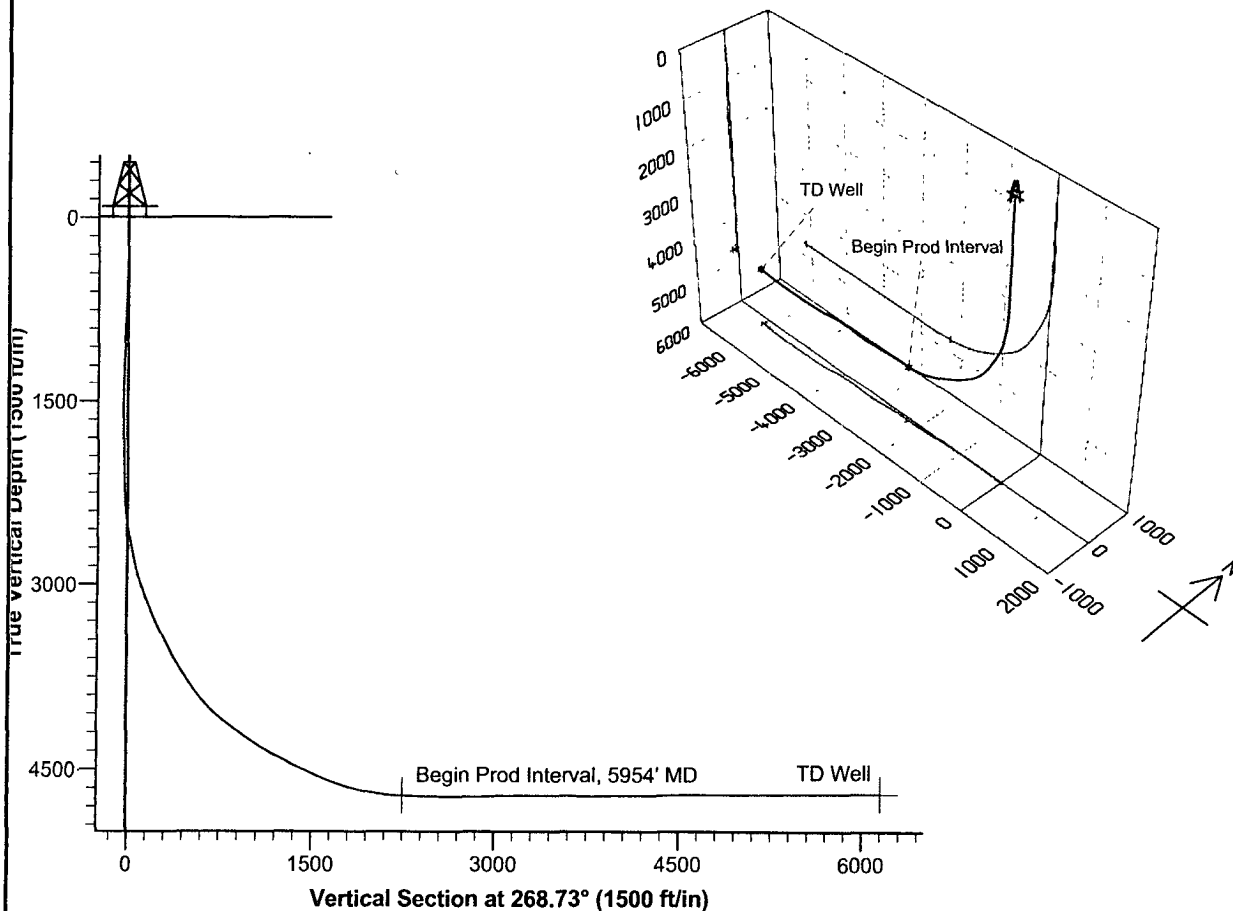
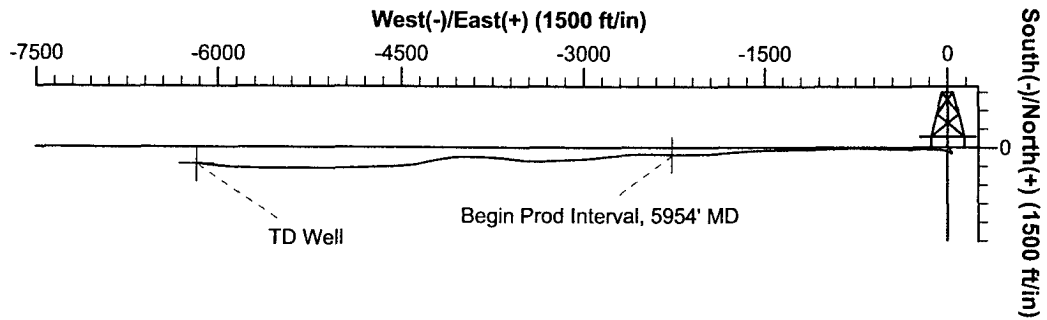
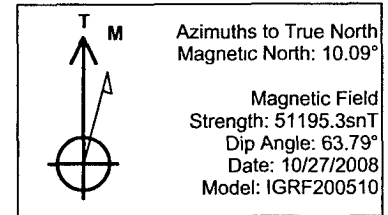
Plan: Final Survey

Final Survey

27 October, 2008

Project: S/2 Sec.22, T32N, R6W
 Site: Eul Canyon
 Well: San Juan 32-5 Unit #21
 Wellbore: EOW Report
 Plan: Final Survey (San Juan 32-5 Unit #21/EOW Report)

PROJECT DETAILS: S/2 Sec.22, T32N, R6W
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone
System Datum: Mean Sea Level



Energen

Final Survey

Company: SJ BR
 Project: S/2 Sec.22, T32N, R6W
 Site: Eul Canyon
 Well: San Juan 32-5 Unit #21
 Wellbore: EOW Report
 Design: Final Survey

Local Co-ordinate Reference: Well San Juan 32-5 Unit #21
 TVD Reference: KB @ 6352.0ft (D&J #2)
 MD Reference: KB @ 6352.0ft (D&J #2)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.16 Single User Db

Project: S/2 Sec.22, T32N, R6W

Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: New Mexico Central Zone

System Datum: Mean Sea Level

Site: Eul Canyon

Site Position: Northing: 2,172,215.70 ft Latitude: 36° 57' 49.284 N
 From: Lat/Long Easting: 1,295,395.92 ft Longitude: 107° 25' 51.528 W
 Position Uncertainty: 0.0 ft Slot Radius: " Grid Convergence: -0.71 °

Well: San Juan 32-5 Unit #21

Well Position: +N/-S 0.0 ft Northing: 2,172,215.70 ft Latitude: 36° 57' 49.284 N
 +E/-W 0.0 ft Easting: 1,295,395.92 ft Longitude: 107° 25' 51.528 W
 Position Uncertainty: 0.0 ft Wellhead Elevation: 6,340.0 ft Ground Level: 6,340.0 ft

Wellbore: EOW Report

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/27/2008	10.09	63.79	51,195

Design: Final Survey

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	268.73

Survey Tool Program Date: 10/27/2008

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
0.0	9,869.0	Final Survey (EOW Report)		

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	+FSL/-FNL (ft)	+FWL/-FEL (ft)
0.0	0.0	0.00	0.00	0.0	1,840.0	1,565.0
100.0	100.0	0.44	145.71	-0.2	1,839.7	1,565.2
200.0	200.0	0.87	145.71	-0.8	1,838.7	1,565.9
300.0	300.0	1.31	145.71	-1.9	1,837.2	1,566.9
383.0	382.9	1.67	145.71	-3.0	1,835.4	1,568.1
400.0	399.9	1.73	144.78	-3.3	1,835.0	1,568.4
500.0	499.9	2.12	140.43	-5.3	1,832.3	1,570.5
600.0	599.8	2.51	137.43	-7.9	1,829.3	1,573.1
659.0	658.7	2.74	136.06	-9.7	1,827.3	1,575.0
700.0	699.7	3.01	136.67	-11.1	1,825.8	1,576.4
800.0	799.5	3.67	137.78	-15.0	1,821.5	1,580.4
899.0	898.3	4.33	138.54	-19.4	1,816.4	1,585.0

Energen

Final Survey

Company: SJ BR
Project: S/2 Sec.22, T32N, R6W
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Wellbore: EOW Report
Design: Final Survey

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MD Reference: KB @ 6352.0ft (D&J #2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	+FSL/-FNL (ft)	+FWL/-FEL (ft)
900.0	899.3	4.32	138.56	-19.5	1,816.3	1,585.0
1,000.0	999.0	3.72	140.99	-23.9	1,811.0	1,589.6
1,100.0	1,098.8	3.12	144.35	-27.4	1,806.3	1,593.2
1,140.0	1,138.8	2.89	146.08	-28.6	1,804.5	1,594.4
1,200.0	1,198.7	2.52	146.92	-30.1	1,802.2	1,595.9
1,300.0	1,298.6	1.90	149.05	-32.1	1,798.9	1,598.0
1,380.0	1,378.6	1.41	152.10	-33.2	1,796.9	1,599.1
1,400.0	1,398.6	1.34	154.07	-33.4	1,796.5	1,599.4
1,500.0	1,498.6	1.02	167.76	-34.0	1,794.5	1,600.1
1,600.0	1,598.6	0.81	190.74	-34.1	1,793.0	1,600.1
1,620.0	1,618.6	0.79	196.56	-34.0	1,792.7	1,600.1
1,700.0	1,698.6	0.57	228.52	-33.5	1,791.9	1,599.6
1,800.0	1,798.6	0.68	278.65	-32.6	1,791.7	1,598.6
1,860.0	1,858.6	0.91	295.31	-31.8	1,791.9	1,597.9
1,900.0	1,898.6	1.06	303.96	-31.2	1,792.3	1,597.3
2,000.0	1,998.5	1.52	317.00	-29.6	1,793.8	1,595.6
2,100.0	2,098.5	2.01	323.87	-27.7	1,796.2	1,593.7
2,200.0	2,198.4	2.50	317.88	-25.2	1,799.2	1,591.2
2,243.0	2,241.4	2.72	315.98	-23.9	1,800.6	1,589.8
2,273.0	2,271.3	2.78	314.61	-22.9	1,801.6	1,588.8
2,304.0	2,302.3	2.91	309.68	-21.8	1,802.7	1,587.7
2,335.0	2,333.2	3.87	297.41	-20.3	1,803.7	1,586.1
2,396.0	2,394.0	6.91	283.64	-15.0	1,805.5	1,580.7
2,400.0	2,397.9	6.97	283.65	-14.5	1,805.6	1,580.3
2,458.0	2,455.4	7.81	283.78	-7.3	1,807.4	1,573.0
2,500.0	2,497.0	8.19	284.41	-1.7	1,808.8	1,567.3
2,519.0	2,515.8	8.36	284.68	1.0	1,809.5	1,564.7
2,581.0	2,577.1	8.94	285.16	9.9	1,811.9	1,555.7
2,600.0	2,595.9	9.20	284.85	12.8	1,812.6	1,552.8
2,642.0	2,637.3	9.76	284.21	19.5	1,814.4	1,546.1
2,703.0	2,697.3	11.29	281.99	30.3	1,816.9	1,535.3
2,765.0	2,758.0	12.37	276.72	42.7	1,818.9	1,522.7
2,800.0	2,792.1	12.82	273.98	50.3	1,819.6	1,515.1
2,826.0	2,817.5	13.18	272.06	56.2	1,819.9	1,509.3
2,887.0	2,876.7	14.47	271.29	70.7	1,820.4	1,494.7
2,900.0	2,889.3	15.08	271.29	74.0	1,820.4	1,491.4
2,947.0	2,934.4	17.29	271.31	87.1	1,820.7	1,478.3
3,008.0	2,992.4	18.87	272.19	106.0	1,821.3	1,459.4
3,069.0	3,049.9	19.99	273.36	126.3	1,822.3	1,439.1
3,100.0	3,079.0	20.80	272.77	137.0	1,822.9	1,428.3
3,129.0	3,106.0	21.56	272.26	147.5	1,823.3	1,417.9
3,189.0	3,161.6	22.48	272.37	169.9	1,824.2	1,395.4
3,200.0	3,171.8	22.52	271.96	174.1	1,824.4	1,391.2
3,249.0	3,217.0	22.69	270.16	192.9	1,824.8	1,372.3

Energen

Final Survey

Company: SJ BR
Project: S/2 Sec.22, T32N, R6W
Site: Eul Canyon
Well: San Juan 32-5 Unit #21
Wellbore: EOW Report
Design: Final Survey

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North Reference: True
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Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	+FSL/-FNL (ft)	+FWL/-FEL (ft)
3,308.0	3,271.3	23.73	267.87	216.2	1,824.3	1,349.1
3,369.0	3,326.8	25.30	267.41	241.5	1,823.3	1,323.8
3,400.0	3,354.7	26.00	268.47	254.9	1,822.8	1,310.4
3,428.0	3,379.8	26.64	269.38	267.3	1,822.6	1,298.0
3,488.0	3,433.2	27.45	270.62	294.6	1,822.6	1,270.7
3,500.0	3,443.9	27.41	270.85	300.1	1,822.7	1,265.2
3,549.0	3,487.4	27.27	271.80	322.6	1,823.2	1,242.7
3,600.0	3,532.6	27.81	271.89	346.2	1,823.9	1,219.1
3,610.0	3,541.5	27.92	271.91	350.8	1,824.1	1,214.4
3,670.0	3,594.2	28.93	270.07	379.4	1,824.6	1,185.9
3,700.0	3,620.5	29.33	269.99	394.0	1,824.6	1,171.3
3,732.0	3,648.3	29.75	269.91	409.7	1,824.6	1,155.5
3,792.0	3,700.0	31.17	270.57	440.1	1,824.7	1,125.1
3,800.0	3,706.8	31.43	270.59	444.3	1,824.7	1,120.9
3,853.0	3,751.6	33.16	270.70	472.6	1,825.1	1,092.6
3,900.0	3,790.8	34.00	271.38	498.6	1,825.5	1,066.6
3,913.0	3,801.6	34.23	271.56	505.8	1,825.7	1,059.3
3,943.0	3,826.1	35.91	272.73	523.1	1,826.4	1,042.1
4,002.0	3,873.1	38.59	273.87	558.6	1,828.4	1,006.5
4,063.0	3,920.1	40.60	273.41	597.4	1,830.9	967.7
4,100.0	3,948.1	40.94	271.84	621.5	1,832.0	943.5
4,125.0	3,967.0	41.18	270.79	637.9	1,832.4	927.1
4,185.0	4,011.2	43.68	270.31	678.3	1,832.8	886.6
4,200.0	4,022.0	44.90	270.25	688.8	1,832.8	876.2
4,245.0	4,052.8	48.55	270.07	721.6	1,832.9	843.4
4,250.0	4,056.1	48.87	269.90	725.3	1,832.9	839.7
4,300.0	4,087.9	52.13	268.32	763.9	1,832.3	801.1
4,307.0	4,092.2	52.59	268.11	769.4	1,832.1	795.5
4,369.0	4,129.4	53.56	269.42	819.0	1,831.1	746.0
4,400.0	4,148.0	52.83	269.13	843.8	1,830.8	721.2
4,431.0	4,166.9	52.11	268.83	868.4	1,830.3	696.6
4,494.0	4,204.6	54.26	267.25	918.8	1,828.6	646.2
4,500.0	4,208.1	54.22	267.42	923.7	1,828.4	641.3
4,556.0	4,241.1	53.81	269.01	969.0	1,826.9	596.0
4,600.0	4,266.6	55.25	269.18	1,004.8	1,826.4	560.2
4,617.0	4,276.2	55.80	269.25	1,018.8	1,826.2	546.2
4,680.0	4,310.7	57.88	268.93	1,071.6	1,825.3	493.5
4,700.0	4,321.2	58.31	268.70	1,088.6	1,825.0	476.5
4,740.0	4,342.0	59.17	268.25	1,122.8	1,824.1	442.3
4,799.0	4,371.2	61.49	268.02	1,174.0	1,822.4	391.1
4,800.0	4,371.7	61.50	268.03	1,174.9	1,822.4	390.2
4,862.0	4,400.9	62.35	268.59	1,229.6	1,820.8	335.5
4,900.0	4,418.4	62.52	268.69	1,263.3	1,820.0	301.9
4,923.0	4,429.0	62.62	268.75	1,283.7	1,819.5	281.4

Energen

Final Survey

Company: SJ BR
 Project: S/2 Sec.22, T32N, R6W
 Site: Eul Canyon
 Well: San Juan 32-5 Unit #21
 Wellbore: EOW Report
 Design: Final Survey

Local Co-ordinate Reference: Well San Juan 32-5 Unit #21
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 MD Reference: KB @ 6352.0ft (D&J #2)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	+FSL/-FNL (ft)	+FWL/-FEL (ft)
4,985.0	4,457.1	63.56	269.60	1,339.0	1,818.7	226.2
5,000.0	4,463.7	64.11	269.53	1,352.4	1,818.6	212.7
5,047.0	4,483.6	65.84	269.32	1,395.0	1,818.2	170.1
5,110.0	4,509.2	66.15	270.39	1,452.6	1,818.0	112.6
5,172.0	4,534.4	66.03	268.12	1,509.2	1,817.3	55.9
5,200.0	4,545.8	65.93	267.74	1,534.8	1,816.4	30.3
5,234.0	4,559.7	65.80	267.27	1,565.8	1,815.0	-0.7
5,250.0	4,566.1	66.57	266.73	1,580.5	1,814.3	-15.3
5,297.0	4,583.9	68.86	265.16	1,623.9	1,811.2	-58.7
5,300.0	4,585.0	68.92	265.19	1,626.7	1,810.9	-61.4
5,357.0	4,605.0	70.00	265.71	1,680.0	1,806.7	-114.6
5,400.0	4,619.1	71.80	264.60	1,720.5	1,803.3	-155.1
5,419.0	4,624.9	72.60	264.12	1,738.6	1,801.5	-173.1
5,480.0	4,641.9	75.02	264.21	1,797.0	1,795.5	-231.4
5,500.0	4,647.0	75.18	265.02	1,816.2	1,793.7	-250.7
5,541.0	4,657.4	75.51	266.67	1,855.8	1,790.9	-290.2
5,575.0	4,665.6	76.52	266.97	1,888.8	1,789.0	-323.2
5,606.0	4,672.6	77.38	268.35	1,919.0	1,787.8	-353.3
5,637.0	4,679.2	78.33	268.68	1,949.3	1,787.0	-383.6
5,669.0	4,685.4	79.17	268.87	1,980.7	1,786.3	-415.0
5,700.0	4,691.0	79.90	268.71	2,011.2	1,785.7	-445.5
5,731.0	4,696.2	80.88	268.18	2,041.7	1,784.9	-476.0
5,762.0	4,700.8	81.90	268.29	2,072.4	1,783.9	-506.7
5,791.0	4,704.7	82.90	268.54	2,101.1	1,783.1	-535.4
5,800.0	4,705.8	83.23	268.64	2,110.1	1,782.9	-544.3
5,822.0	4,708.2	84.04	268.90	2,131.9	1,782.4	-566.2
5,853.0	4,711.1	85.08	268.94	2,162.8	1,781.9	-597.0
5,884.0	4,713.3	86.77	269.23	2,193.7	1,781.4	-628.0
5,900.0	4,714.2	87.43	269.44	2,209.7	1,781.2	-643.9
5,915.0	4,714.8	88.04	269.63	2,224.7	1,781.1	-658.9
5,954.0	4,716.0	88.37	270.96	2,263.7	1,781.3	-697.9
Begin Prod Interval						
5,979.0	4,716.6	88.59	271.82	2,288.6	1,781.9	-722.9
6,010.0	4,717.4	88.45	270.32	2,319.6	1,782.4	-753.9
6,041.0	4,718.1	88.97	271.15	2,350.6	1,782.8	-784.9
6,072.0	4,718.8	88.42	270.99	2,381.5	1,783.4	-815.8
6,102.0	4,719.7	88.21	270.07	2,411.5	1,783.7	-845.8
6,133.0	4,720.7	88.04	270.60	2,442.5	1,783.9	-876.8
6,164.0	4,721.8	88.01	269.78	2,473.4	1,784.0	-907.8
6,195.0	4,722.9	88.00	269.14	2,504.4	1,783.7	-938.8
6,200.0	4,723.1	88.11	269.22	2,509.4	1,783.6	-943.8
6,226.0	4,723.8	88.66	269.63	2,535.4	1,783.4	-969.8
6,250.0	4,724.4	88.57	268.05	2,559.4	1,782.9	-993.7
6,256.0	4,724.5	88.55	267.65	2,565.4	1,782.6	-999.7
6,287.0	4,725.3	88.69	266.85	2,596.4	1,781.2	-1,030.7

Energen

Final Survey

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Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	+FSL/-FNL (ft)	+FWL/-FEL (ft)
6,300.0	4,725.6	88.78	266.44	2,609.4	1,780.4	-1,043.7
6,318.0	4,725.9	88.90	265.87	2,627.3	1,779.2	-1,061.6
6,349.0	4,726.3	89.86	265.99	2,658.3	1,777.0	-1,092.5
6,379.0	4,726.1	90.69	266.86	2,688.3	1,775.1	-1,122.5
6,410.0	4,725.8	90.38	265.68	2,719.2	1,773.1	-1,153.4
6,441.0	4,725.6	90.58	264.55	2,750.2	1,770.5	-1,184.3
6,472.0	4,725.3	90.52	264.07	2,781.1	1,767.4	-1,215.2
6,502.0	4,725.1	90.07	262.84	2,811.0	1,764.0	-1,245.0
6,533.0	4,725.1	89.93	263.26	2,841.8	1,760.2	-1,275.7
6,595.0	4,724.3	91.65	263.12	2,903.5	1,752.9	-1,337.3
6,600.0	4,724.1	91.83	263.30	2,908.5	1,752.3	-1,342.2
6,656.0	4,721.3	93.89	265.28	2,964.2	1,746.7	-1,397.9
6,700.0	4,718.8	92.74	265.32	3,008.1	1,743.1	-1,441.7
6,718.0	4,718.0	92.27	265.33	3,026.0	1,741.6	-1,459.6
6,780.0	4,716.1	91.10	267.84	3,088.0	1,738.0	-1,521.4
6,800.0	4,715.8	90.77	267.86	3,107.9	1,737.2	-1,541.4
6,841.0	4,715.5	90.10	267.90	3,148.9	1,735.7	-1,582.4
6,901.0	4,715.3	90.21	267.21	3,208.9	1,733.1	-1,642.3
6,963.0	4,715.2	90.00	266.25	3,270.9	1,729.6	-1,704.2
7,000.0	4,715.2	89.98	266.63	3,307.9	1,727.3	-1,741.2
7,024.0	4,715.2	89.97	266.88	3,331.8	1,725.9	-1,765.1
7,050.0	4,715.2	90.06	268.66	3,357.8	1,724.9	-1,791.1
7,085.0	4,715.2	90.17	271.06	3,392.8	1,724.8	-1,826.1
7,100.0	4,715.1	90.10	271.96	3,407.8	1,725.2	-1,841.1
7,147.0	4,715.2	89.86	274.76	3,454.7	1,728.0	-1,888.0
7,208.0	4,715.2	90.03	277.57	3,515.1	1,734.5	-1,948.7
7,270.0	4,715.2	89.97	276.53	3,576.5	1,742.1	-2,010.2
7,300.0	4,715.5	88.99	275.85	3,606.2	1,745.4	-2,040.0
7,331.0	4,716.3	87.97	275.15	3,637.0	1,748.4	-2,070.9
7,393.0	4,719.3	86.52	273.15	3,698.6	1,752.8	-2,132.6
7,400.0	4,719.7	86.88	273.13	3,705.6	1,753.2	-2,139.6
7,454.0	4,721.3	89.62	273.01	3,759.4	1,756.1	-2,193.5
7,500.0	4,720.8	91.87	273.11	3,805.3	1,758.6	-2,239.4
7,516.0	4,720.1	92.65	273.15	3,821.2	1,759.4	-2,255.4
7,577.0	4,717.8	91.76	271.44	3,882.1	1,761.9	-2,316.3
7,600.0	4,717.1	91.53	271.21	3,905.0	1,762.4	-2,339.3
7,637.0	4,716.2	91.17	270.84	3,942.0	1,763.1	-2,376.3
7,650.0	4,716.0	90.98	270.03	3,955.0	1,763.2	-2,389.3
7,696.0	4,715.5	90.31	267.16	4,001.0	1,762.0	-2,435.2
7,700.0	4,715.5	90.31	267.01	4,005.0	1,761.8	-2,439.2
7,759.0	4,715.1	90.31	264.84	4,063.9	1,757.7	-2,498.1
7,800.0	4,714.9	90.38	262.82	4,104.7	1,753.2	-2,538.8
7,819.0	4,714.8	90.41	261.88	4,123.6	1,750.7	-2,557.7
7,881.0	4,714.3	90.41	259.58	4,185.0	1,740.7	-2,618.8

Energen

Final Survey

Company: SJ BR
Project: S/2 Sec.22, T32N, R6W
Site: Eul Canyon
Well: San Juan 32-5 Unit #21
Wellbore: EOW Report
Design: Final Survey

Local Co-ordinate Reference: Well San Juan 32-5 Unit #21
TVD Reference: KB @ 6352.0ft (D&J #2)
MD Reference: KB @ 6352.0ft (D&J #2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	+FSL/-FNL (ft)	+FWL/-FEL (ft)
7,900.0	4,714.2	90.41	259.20	4,203.8	1,737.2	-2,637.5
7,941.0	4,713.9	90.41	258.39	4,244.2	1,729.3	-2,677.7
8,001.0	4,713.5	90.31	257.33	4,303.1	1,716.6	-2,736.4
8,064.0	4,713.0	90.55	258.13	4,364.9	1,703.3	-2,798.0
8,100.0	4,712.3	91.87	261.61	4,400.5	1,696.9	-2,833.4
8,133.0	4,710.9	93.07	264.80	4,433.3	1,693.0	-2,866.1
8,186.0	4,708.0	93.03	265.61	4,486.1	1,688.6	-2,918.9
8,200.0	4,707.4	92.29	266.09	4,500.1	1,687.6	-2,932.8
8,245.0	4,706.5	89.90	267.62	4,545.0	1,685.1	-2,977.7
8,306.0	4,707.1	89.10	268.28	4,606.0	1,682.9	-3,038.7
8,366.0	4,707.7	89.69	267.89	4,666.0	1,680.9	-3,098.6
8,400.0	4,707.9	89.73	267.87	4,700.0	1,679.7	-3,132.6
8,425.0	4,708.0	89.76	267.86	4,725.0	1,678.7	-3,157.6
8,487.0	4,707.9	90.31	267.85	4,787.0	1,676.4	-3,219.6
8,500.0	4,707.9	90.35	267.95	4,800.0	1,676.0	-3,232.5
8,548.0	4,707.5	90.52	268.31	4,848.0	1,674.4	-3,280.5
8,610.0	4,706.9	90.62	268.72	4,910.0	1,672.8	-3,342.5
8,673.0	4,706.3	90.38	268.96	4,973.0	1,671.5	-3,405.5
8,700.0	4,706.1	90.42	268.99	5,000.0	1,671.0	-3,432.5
8,735.0	4,705.9	90.48	269.04	5,035.0	1,670.4	-3,467.5
8,797.0	4,705.3	90.65	269.11	5,097.0	1,669.4	-3,529.5
8,800.0	4,705.2	90.64	269.17	5,100.0	1,669.4	-3,532.5
8,859.0	4,704.6	90.52	270.36	5,159.0	1,669.1	-3,591.5
8,900.0	4,704.3	90.45	270.32	5,200.0	1,669.4	-3,632.4
8,921.0	4,704.1	90.41	270.30	5,220.9	1,669.5	-3,653.4
8,983.0	4,703.6	90.52	269.86	5,282.9	1,669.6	-3,715.4
9,000.0	4,703.5	90.47	269.77	5,299.9	1,669.5	-3,732.4
9,044.0	4,703.2	90.34	269.54	5,343.9	1,669.3	-3,776.4
9,106.0	4,702.7	90.55	270.04	5,405.9	1,669.0	-3,838.4
9,168.0	4,702.1	90.45	269.34	5,467.9	1,668.7	-3,900.4
9,200.0	4,701.9	90.45	269.17	5,499.9	1,668.3	-3,932.4
9,229.0	4,701.7	90.45	269.01	5,528.9	1,667.8	-3,961.4
9,289.0	4,701.1	90.52	270.00	5,588.9	1,667.3	-4,021.4
9,300.0	4,701.0	90.54	270.10	5,599.9	1,667.3	-4,032.4
9,349.0	4,700.5	90.65	270.52	5,648.9	1,667.6	-4,081.4
9,409.0	4,699.9	90.55	271.96	5,708.8	1,668.9	-4,141.4
9,469.0	4,699.4	90.48	272.68	5,768.7	1,671.3	-4,201.3
9,500.0	4,699.1	90.66	273.01	5,799.6	1,672.8	-4,232.3
9,530.0	4,698.7	90.83	273.33	5,829.5	1,674.5	-4,262.3
9,591.0	4,697.9	90.52	274.23	5,890.3	1,678.5	-4,323.1
9,600.0	4,697.9	90.48	274.37	5,899.2	1,679.2	-4,332.1
9,654.0	4,697.5	90.24	275.20	5,952.9	1,683.7	-4,385.9
9,700.0	4,697.5	89.84	275.44	5,998.6	1,688.0	-4,431.7
9,718.0	4,697.6	89.69	275.54	6,016.5	1,689.7	-4,449.6

Energen

Final Survey

Company: SJ BR
Project: S/2 Sec.22, T32N, R6W
Site: Eul Canyon
Well: San Juan 32-5 Unit #21
Wellbore: EOW Report
Design: Final Survey

Local Co-ordinate Reference: Well San Juan 32-5 Unit #21
TVD Reference: KB @ 6352.0ft (D&J #2)
MD Reference: KB @ 6352.0ft (D&J #2)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	V. Sec (ft)	+FSL/-FNL (ft)	+FWL/-FEL (ft)
9,781.0	4,698.1	89.28	275.28	6,079.0	1,695.6	-4,512.3
9,800.0	4,698.2	90.06	275.22	6,097.9	1,697.4	-4,531.3
9,812.0	4,698.2	90.55	275.19	6,109.8	1,698.5	-4,543.2
9,869.0	4,697.6	90.55	275.19	6,166.5	1,703.6	-4,600.0

TD Well

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Begin Prod Interval - plan hits target - Point	0.00	0.00	4,716.0	-58.7	-2,262.9	2,172,185.05	1,293,132.47	36° 57' 48.703 N	107° 26' 19.409 W
TD Well - plan hits target - Point	0.00	0.00	4,697.6	-136.4	-6,165.0	2,172,155.73	1,289,229.71	36° 57' 47.929 N	107° 27' 7.487 W

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
5,954.0	4,716.0	-58.7	-2,262.9	Begin Prod Interval
9,869.0	4,697.6	-136.4	-6,165.0	TD Well

Checked By: _____ Approved By: _____ Date: _____