

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

RECEIVED

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

NOV 12 2009

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well ☐ Oil Well ☒ Gas Well ☐ Other		5. Lease Serial No. NMSF-079011
2. Name of Operator Energen Resources Corporation		6. If Indian, Allottee or Tribe Name
3a. Address 2010 Afton Place, Farmington, NM 87401	3b. Phone No. (include area code) 505-325-6800	7. If Unit or CA/Agreement, Name and/or No. San Juan 32-5 Unit
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SHL: 705' FSL, 525' FEL BHL: 2500' FSL 2500' FEL Sec.24 T32N, R06W		8. Well Name and No. San Juan 32-5 Unit 103S
		9. API Well No. 30-039-27269
		10. Field and Pool, or Exploratory Area Basin Fruitland Coal
		11. County or Parish, State Rio Arriba NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☒ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

Energen Resources would like to recompleate the San Juan 32-5 Unit #103S by drilling a horizontal lateral off of the existing vertical wellbore as indicated on the revised attached C-102 and directional wellplan. A whipstock will be set at 2784'+/- (TVD) and a window milled in the existing 7" casing from 2772'-2778'+/- (TVD). The lateral will be drilled to 5563'MD, 2986'TVD. A 4.5" 11.6 ppf, J-55, LT&C pre drilled liner will be ran and set from 2774'-5563'MD.

RCVD NOV 16 '09

OIL CONS. DIV.

DIST. 3

NOTIFY AZTEC JCD 24 HRS ATTACHED FOR
PRIOR TO CASING & CEMENT

Hold C104
for Directional Survey
and "As Drilled" plat

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) Stephen Byers	Title Drilling Engineer
Signature <i>Stephen Byers</i>	Date 11/11/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by <i>Jim Lovato</i>	Title <i>Petr. Eng.</i>	Date 11/13/09
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-27269	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 21996	⁵ Property Name San Juan 32-5 Unit	⁶ Well Number #103S
⁷ OGRID No. 162928	⁸ Operator Name ENERGEN RESOURCES CORPORATION	⁹ Elevation 6307'

¹⁰ Surface Location

UL or lot no. P	Section 24	Township 32N	Range 6W	Lot Idn	Feet from the 705	North/South line SOUTH	Feet from the 525	East/West line EAST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. J	Section 24	Township 32N	Range 6W	Lot Idn	Feet from the 2500	North/South line SOUTH	Feet from the 2500	East/West line EAST	County RIO ARriba
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¹² Dedicated Acres 320 $\frac{1}{2}$ E $\frac{1}{2}$	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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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. Signature: <u>Stephen Byers</u> Date: <u>11/11/2009</u> Printed Name: <u>STEPHEN BYERS</u>
	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. JULY 21, 1988 Date of Survey Original Survey Conducted and Recorded By: Neale C. Edwards 6857 Certificate Number

Energen Resources

SJBR Sec. 24-T32N-R06W

Eul Canyon

San Juan 32-5 Unit #103S

Re-Entry Sidetrack OPE FTC

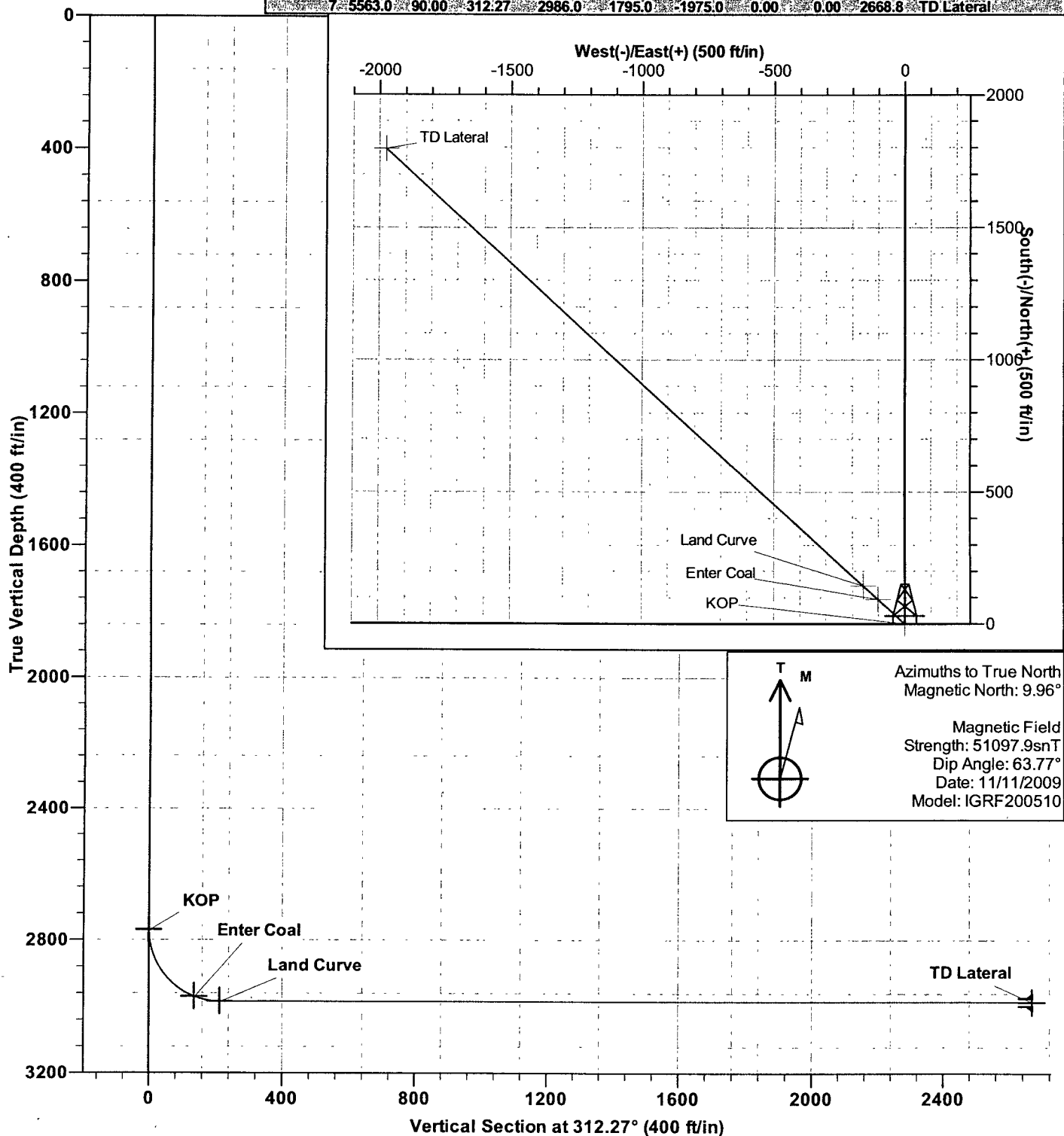
Plan: Plan #1

DIRECTIONAL PLAN

11 November, 2009

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2772.0	0.00	0.00	2772.0	0.0	0.0	0.00	0.00	0.0	KOP
3	3030.3	69.17	312.24	2972.0	92.7	-102.1	26.78	312.24	137.9	Enter Coal
4	3069.2	79.54	312.31	2982.4	117.8	-129.7	26.74	0.41	175.2	
5	3069.2	79.54	312.31	2982.5	117.8	-129.7	0.00	0.00	175.2	
6	3108.1	90.00	312.27	2986.0	143.9	-158.4	26.80	-0.24	214.0	Land Curve
7	5563.0	90.00	312.27	2986.0	-1795.0	-1975.0	0.00	0.00	2668.8	TD Lateral



Energen

DIRECTIONAL PLAN

Company: Energen Resources	Local Co-ordinate Reference: Well San Juan 32-5 Unit #103S
Project: SJBR Sec. 24-T32N-R06W	TVD Reference: KB @ 6322.0ft (KB)
Site: Eul Canyon	MD Reference: KB @ 6322.0ft (KB)
Well: San Juan 32-5 Unit #103S	North Reference: True
Wellbore: Re-Entry Sidetrack OPE FTC	Survey Calculation Method: Minimum Curvature
Design: Plan #1	Database: EDM 2003.16 Single User Db

Project SJBR Sec. 24-T32N-R06W		
Map System: US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum: North American Datum 1983		
Map Zone: New Mexico Central Zone		

Site Eul Canyon			
Site Position:	Northing: 2,173,184.73 ft	Latitude: 36° 57' 59.000 N	
From: Lat/Long	Easting: 1,296,505.93 ft	Longitude: 107° 25' 38.000 W	
Position Uncertainty: 0.0 ft	Slot Radius: "	Grid Convergence: -0.71 °	

Well San Juan 32-5 Unit #103S			
Well Position	Northing: 2,173,184.73 ft	Latitude: 36° 57' 59.000 N	
+N/-S 0.0 ft	Easting: 1,296,505.93 ft	Longitude: 107° 25' 38.000 W	
+E/-W 0.0 ft			
Position Uncertainty 0.0 ft	Wellhead Elevation: 6,307.0 ft	Ground Level: 6,307.0 ft	

Wellbore Re-Entry Sidetrack OPE FTC				
Magnetics	Model Name	Sample Date	Declination	Dip Angle
			(°)	(°)
	IGRF200510	11/11/2009	9.96	63.77
				Field Strength
				(nT)
				51,098

Design Plan #1				
Audit Notes:				
Version:	Phase: PROTOTYPE	Tie On Depth: 0.0		
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	
	(ft)	(ft)	(ft)	
	0.0	0.0	0.0	
			Direction	
			(°)	
			312.27	

Survey Tool Program		Date 11/11/2009	
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
0.0	5,563.0	Plan #1 (Re-Entry Sidetrack OPE FTC)	MWD
			Description
			MWD - Standard

Planned Survey							
MD	TVD	Inc	Azi	Build	N/S	E/W	V. Sec
(ft)	(ft)	(°)	(°)	(°/100ft)	(ft)	(ft)	(ft)
0.0	0.0	0.00	0.00	0.00	0.0	0.0	0.0
100.0	100.0	0.00	0.00	0.00	0.0	0.0	0.0
200.0	200.0	0.00	0.00	0.00	0.0	0.0	0.0
300.0	300.0	0.00	0.00	0.00	0.0	0.0	0.0
400.0	400.0	0.00	0.00	0.00	0.0	0.0	0.0
500.0	500.0	0.00	0.00	0.00	0.0	0.0	0.0
600.0	600.0	0.00	0.00	0.00	0.0	0.0	0.0
700.0	700.0	0.00	0.00	0.00	0.0	0.0	0.0
800.0	800.0	0.00	0.00	0.00	0.0	0.0	0.0
900.0	900.0	0.00	0.00	0.00	0.0	0.0	0.0
1,000.0	1,000.0	0.00	0.00	0.00	0.0	0.0	0.0
1,100.0	1,100.0	0.00	0.00	0.00	0.0	0.0	0.0

Energen

DIRECTIONAL PLAN

Company: Energen Resources
Project: SJBR Sec. 24-T32N-R06W
Site: Eul Canyon
Well: San Juan 32-5 Unit #103S
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Plan #1

Local Co-ordinate Reference: Well San Juan 32-5 Unit #103S
TVD Reference: KB @ 6322.0ft (KB)
MD Reference: KB @ 6322.0ft (KB)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	Build (°/100ft)	N/S (ft)	E/W (ft)	V. Sec (ft)
1,200.0	1,200.0	0.00	0.00	0.00	0.0	0.0	0.0
1,300.0	1,300.0	0.00	0.00	0.00	0.0	0.0	0.0
1,400.0	1,400.0	0.00	0.00	0.00	0.0	0.0	0.0
1,500.0	1,500.0	0.00	0.00	0.00	0.0	0.0	0.0
1,600.0	1,600.0	0.00	0.00	0.00	0.0	0.0	0.0
1,700.0	1,700.0	0.00	0.00	0.00	0.0	0.0	0.0
1,800.0	1,800.0	0.00	0.00	0.00	0.0	0.0	0.0
1,900.0	1,900.0	0.00	0.00	0.00	0.0	0.0	0.0
2,000.0	2,000.0	0.00	0.00	0.00	0.0	0.0	0.0
2,100.0	2,100.0	0.00	0.00	0.00	0.0	0.0	0.0
2,200.0	2,200.0	0.00	0.00	0.00	0.0	0.0	0.0
2,300.0	2,300.0	0.00	0.00	0.00	0.0	0.0	0.0
2,400.0	2,400.0	0.00	0.00	0.00	0.0	0.0	0.0
2,500.0	2,500.0	0.00	0.00	0.00	0.0	0.0	0.0
2,600.0	2,600.0	0.00	0.00	0.00	0.0	0.0	0.0
2,700.0	2,700.0	0.00	0.00	0.00	0.0	0.0	0.0
2,772.0	2,772.0	0.00	0.00	0.00	0.0	0.0	0.0
KOP							
2,780.0	2,780.0	2.14	312.24	26.78	0.1	-0.1	0.1
2,800.0	2,799.9	7.50	312.24	26.78	1.2	-1.4	1.8
2,820.0	2,819.6	12.85	312.24	26.78	3.6	-4.0	5.4
2,840.0	2,838.9	18.21	312.24	26.78	7.2	-7.9	10.7
2,860.0	2,857.5	23.56	312.24	26.78	12.0	-13.2	17.8
2,880.0	2,875.5	28.92	312.24	26.78	17.9	-19.8	26.7
2,900.0	2,892.5	34.27	312.24	26.78	25.0	-27.5	37.2
2,920.0	2,908.5	39.63	312.24	26.78	33.1	-36.4	49.2
2,940.0	2,923.3	44.98	312.24	26.78	42.1	-46.4	62.6
2,960.0	2,936.7	50.34	312.24	26.78	52.0	-57.3	77.4
2,980.0	2,948.8	55.69	312.24	26.78	62.8	-69.1	93.4
3,000.0	2,959.2	61.05	312.24	26.78	74.2	-81.7	110.4
3,020.0	2,968.1	66.41	312.24	26.78	86.3	-95.0	128.3
3,030.3	2,972.0	69.17	312.24	26.78	92.7	-102.1	137.9
Enter Coal							
3,040.0	2,975.2	71.76	312.26	26.74	98.8	-108.8	147.0
3,060.0	2,980.6	77.11	312.30	26.74	111.8	-123.1	166.3
3,069.2	2,982.5	79.54	312.31	26.57	117.8	-129.7	175.2
3,080.0	2,984.1	82.45	312.30	26.80	125.0	-137.6	185.9
3,100.0	2,985.8	87.81	312.28	26.80	138.4	-152.4	205.9
3,108.1	2,986.0	90.00	312.27	26.94	143.9	-158.4	214.0
Land Curve							
3,200.0	2,986.0	90.00	312.27	0.00	205.7	-226.4	305.9
3,300.0	2,986.0	90.00	312.27	0.00	272.9	-300.4	405.9
3,400.0	2,986.0	90.00	312.27	0.00	340.2	-374.4	505.9
3,500.0	2,986.0	90.00	312.27	0.00	407.5	-448.4	605.9
3,600.0	2,986.0	90.00	312.27	0.00	474.7	-522.4	705.9

Energen

DIRECTIONAL PLAN

Company: Energen Resources
Project: SJBR Sec. 24-T32N-R06W
Site: Eul Canyon
Well: San Juan 32-5 Unit #103S
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Plan #1

Local Co-ordinate Reference: Well San Juan 32-5 Unit #103S
TVD Reference: KB @ 6322.0ft (KB)
MD Reference: KB @ 6322.0ft (KB)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Planned Survey

MD (ft)	TVD (ft)	Inc (°)	Azi (°)	Build (°/100ft)	N/S (ft)	E/W (ft)	V. Sec (ft)
3,700.0	2,986.0	90.00	312.27	0.00	542.0	-596.4	805.9
3,800.0	2,986.0	90.00	312.27	0.00	609.3	-670.4	905.9
3,900.0	2,986.0	90.00	312.27	0.00	676.5	-744.4	1,005.9
4,000.0	2,986.0	90.00	312.27	0.00	743.8	-818.4	1,105.9
4,100.0	2,986.0	90.00	312.27	0.00	811.0	-892.4	1,205.9
4,200.0	2,986.0	90.00	312.27	0.00	878.3	-966.4	1,305.9
4,300.0	2,986.0	90.00	312.27	0.00	945.6	-1,040.4	1,405.9
4,400.0	2,986.0	90.00	312.27	0.00	1,012.8	-1,114.4	1,505.9
4,500.0	2,986.0	90.00	312.27	0.00	1,080.1	-1,188.3	1,605.9
4,600.0	2,986.0	90.00	312.27	0.00	1,147.4	-1,262.3	1,705.9
4,700.0	2,986.0	90.00	312.27	0.00	1,214.6	-1,336.3	1,805.9
4,800.0	2,986.0	90.00	312.27	0.00	1,281.9	-1,410.3	1,905.9
4,900.0	2,985.9	90.00	312.27	0.00	1,349.1	-1,484.3	2,005.9
5,000.0	2,985.9	90.00	312.27	0.00	1,416.4	-1,558.3	2,105.9
5,100.0	2,985.9	90.00	312.27	0.00	1,483.7	-1,632.3	2,205.9
5,200.0	2,985.9	90.00	312.27	0.00	1,550.9	-1,706.3	2,305.9
5,300.0	2,985.9	90.00	312.27	0.00	1,618.2	-1,780.3	2,405.9
5,400.0	2,985.9	90.00	312.27	0.00	1,685.5	-1,854.3	2,505.9
5,500.0	2,985.9	90.00	312.27	0.00	1,752.7	-1,928.3	2,605.9
5,563.0	2,986.0	90.00	312.27	-0.01	1,795.0	-1,975.0	2,668.8

TD Lateral

Energen

DIRECTIONAL PLAN

Company: Energen Resources
Project: SJBR Sec. 24-T32N-R06W
Site: Eul Canyon
Well: San Juan 32-5 Unit #103S
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Plan #1

Local Co-ordinate Reference: Well San Juan 32-5 Unit #103S
TVD Reference: KB @ 6322.0ft (KB)
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North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

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
TD Lateral - plan hits target - Point	0.00	0.00	2,986.0	1,795.0	-1,975.0	2,175,004.00	1,294,553.27	36° 58' 16.747 N	107° 26' 2.337 W
Enter Coal - plan hits target - Point	0.00	0.00	2,972.0	92.7	-102.1	2,173,278.68	1,296,404.99	36° 57' 59.917 N	107° 25' 39.258 W
KOP - plan hits target - Point	0.00	0.00	2,772.0	0.0	0.0	2,173,184.73	1,296,505.93	36° 57' 59.000 N	107° 25' 38.000 W
Land Curve - plan hits target - Point	0.00	0.00	2,986.0	143.9	-158.4	2,173,330.57	1,296,349.32	36° 58' 0.423 N	107° 25' 39.952 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
5,563.0	2,986.0	Liner	4-1/2	6-1/4

Checked By: _____ Approved By: _____ Date: _____