Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
AUG 02 2011
Farmington Field Office
Bureau of Land Management

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

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.

SUBMIT IN TRIPLICATE - *Other instructions on page 2*

5. Lease Serial No.
NMSF-081181

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
San Juan 32-5 Unit

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
San Juan 32-5 Unit 105S

2. Name of Operator
Energen Resources Corporation

9. API Well No.
30-039-27265

3a. Address
2010 Afton Place, Farmington, NM 87401

3b. Phone No. (*include area code*)
505-325-6800

10. Field and Pool, or Exploratory Area
Basin Fruitland Coal

4. Location of Well (*Footage, Sec., T., R., M., or Survey Description*)
SHL: 1670' FSL, 1340' FEL
BHL: 600' FNL 100' FEL
Sec.25 T32N, R06W

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	

Hold C104 for Directional Survey and "As Drilled" plat

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 recomplete 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 recompletion 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 recomplete the San Juan 32-5 Unit #105S 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 2965'+/- (TVD) and a window milled in the existing 7" casing from 2950'-2962'+/- (TVD). The lateral will be drilled to 6436'MD, 3195'TVD. A 4.5" 11.6 ppf, J-55, LT&C pre drilled liner will be ran and set from 2950'-6436'MD.

RCVD AUG 4'11
OIL CONS. DIV.
DIST. 3

* Hold C-104 for SD order and approval from SF (30-039-24270 in UL(B))

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 Stephen Byers
Date 7/26/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Original Signed: Stephen Mason
Title
Date AUG 03 2011

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

Office
NMOCD

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 July 16, 2010
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-039-27265	71629	Basin Fruitland Coal

[4] Property Code	[5] Property Name	[6] Well Number
21996	San Juan 32-5 Unit	105S

[7] OGRID No.	[8] Operator Name	[9] Elevation
162928	Energen Resources Corporation	6511'

[10] Surface Location

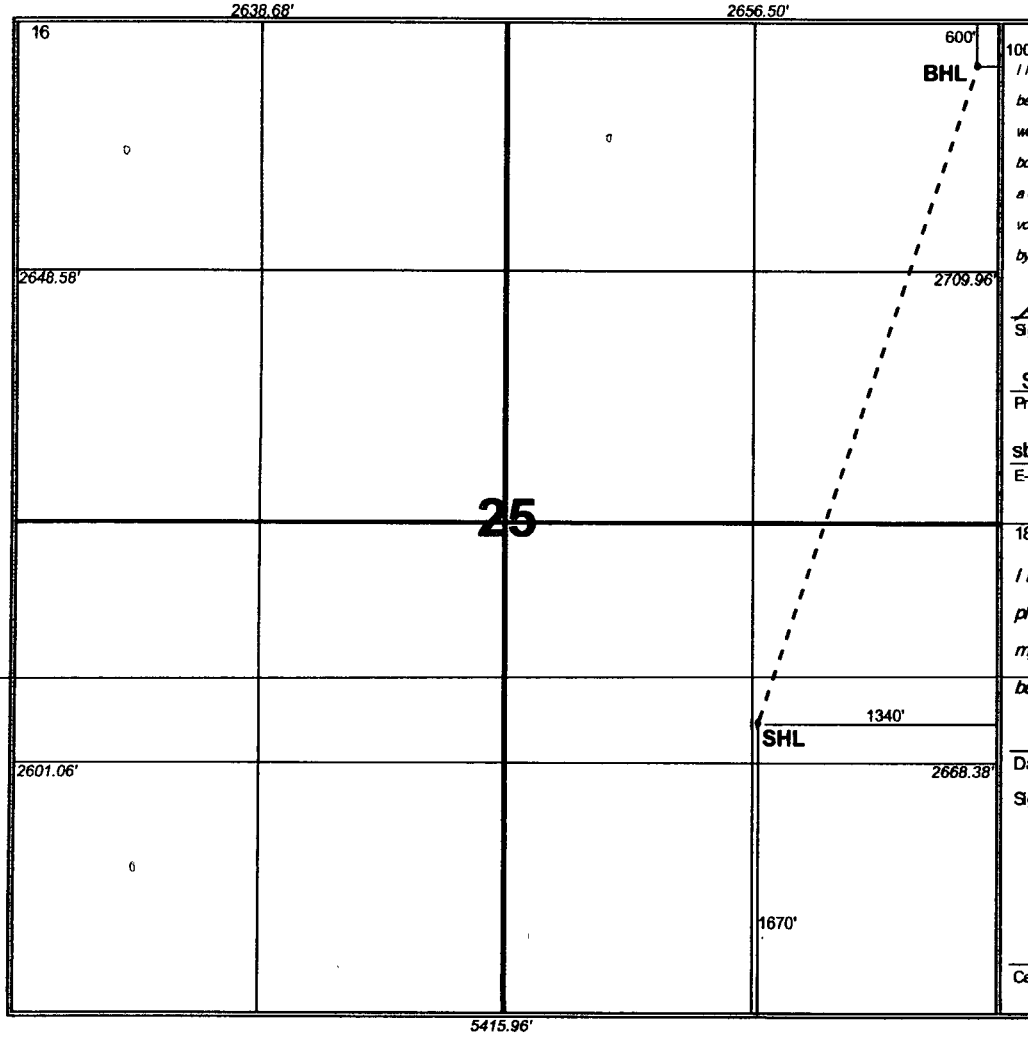
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	25	32N	6W		1670'	South	1340'	East	Rio Arriba

[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
A	25	32N	6W		600'	North	100'	East	Rio Arriba

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
320 E/2			

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.



[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 — Date: 10/8/2010

Stephen Byers
Printed Name

sbyers@energen.com
E-mail Address

[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.

October 3, 2002
Date of Survey

Signature and Seal of Professional Surveyor

Jason C. Edwards
Certificate Number 15269

7/26/2011

ENERGEN RESOURCES

OPERATIONS PLAN

WELL NAME.....San Juan 32-5 Unit #105S
JOB TYPE.....Re-entry Sidetrack
DEPT.....Drilling and Completions
RIG.....D & J #1
PREPARED BY.....Stephen Byers

General Information

Surface Location	1670 FSL 1340 FEL
S-T-R	(I) Sec.25, T32N, R6W
Bottom Hole Location	600 FNL 100 FEL
S-T-R	(A) Sec.25, T32N, R6W
County, State	Rio Arriba, New Mexico
Elevations	6511' GL
Total Depth	6436' +/- (MD); 3195' (TVD)
Formation Objective	Basin Fruitland Coal

Formation Tops

Top Target Coal	3185' (TVD)
Base Target Coal	3208' (TVD)
Total Depth	**3195' (TVD), 6436' +/- (MD)**

Drilling

1. Set whipstock on top of the composite bridge plug left by the workover rig.
2. Orientate the whipstock at an azimuth of 21.75°. KOP is 2950'.
3. Run in hole with a 6-1/4" milling assembly and mill window and 15' of formation
4. Pick up 6-1/4" directional tools and follow attached directional plan
    a. The build section will be drilled with and LSND or polymer and water as directed by the mud engineer.
    b. The mud density range for the lateral section should range from 8.5-8.6 ppg, based on offset data.
5. Pull out of hole. If problems are encountered before reaching the window run back to bottom and condition well for casing run. If problems are encountered continue pulling out and pick up a cleanout assembly.
6. Prior to running liner and hook hanger system, trip in hole and retrieve whipstock.
7. Run 4-1/2" 11.6# J-55, 6 shot/ft pre-drilled liner and Baker B-hook hanger system and through window.

Blowout Control Specifications:

~~A 3000 psi minimum double ram or annulus BOP stack will be used following nipple up of~~ casing head. A 2" nominal, 2000 psi minimum choke manifold will also be used. An upper Kelly Cock valve handle and drill string valve should be available to fit each drill string and be available on the rig floor during drilling operations. **Pressure test BOP to 250 psi for 15 min and 2000 psi for 15 min.**

7/26/2011

ENERGEN RESOURCES

Logging Program:

Open hole logs: None
Mudlogs: From KOP to TD.
Coring: None
Surveys: Every 250' while directional drilling to TD.

Casing, Tubing, & Casing Equipment

String	Interval	Wellbore	Size	Wt	Grade
Production	2950'-6436' MD 3195' TVD	6 ¼"	4 ½"	11.6 lb/ft	J-55 LT&C
Tubing	0'- 2900'MD	7"	2 3/8"	4.7 lb/ft	J-55

Casing Equipment:

Production Liner: Bull nose guide shoe on the bottom of the first joint. Perforated liner to be run in producing interval. Blank or non-perforated joints from the landing point up to the milled window.

Wellhead

3000 psi 11" x 9 5/8" casing head. 9 5/8" x 7" x 2 3/8" 5000psi Flanged wellhead.

Cementing

Production: Open Hole Completion – NO CEMENT

Other Information

1) This well will be an open hole completion
2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control.
3) No abnormal temperatures or pressures for the region are anticipated. BHP can be as high as 1500 psi.
4) This gas is dedicated.

ENERGEN
RESOURCES

Energen Resources Corp.

SJBR Sec. 25-T32N-R06W
Eul Canyon
San Juan 32-5 Unit #105S ST
Re-Entry Sidetrack OPE FTC

Plan: Sidetrack Plan #1

DIRECTIONAL PLAN

02 May, 2011

Prepared By: Stephen Byers

ENERGEN RESOURCES

Project: SJBR Sec. 25-T32N-R06W
Site: Eul Canyon
Well: San Juan 32-5 Unit #105S ST
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Sidetrack Plan #1

PROJECT DETAILS: SJBR Sec. 25-T32N-R06W

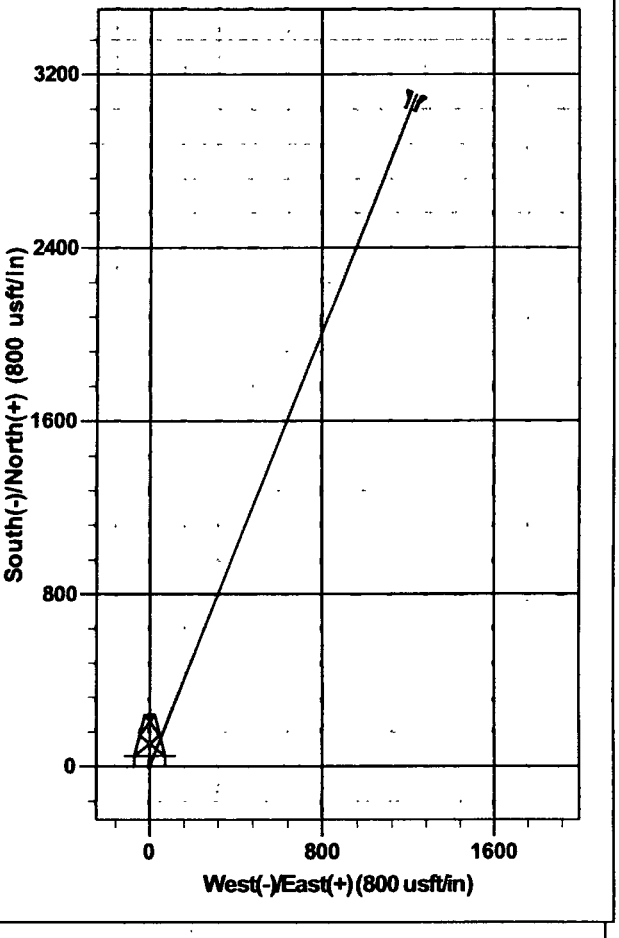
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2950.0	0.00	0.00	2950.0	0.0	0.0	0.00	0.00	0.0	KOP
3	3142.4	45.02	21.75	3123.2	66.7	26.6	23.39	21.75	71.8	
4	3142.5	45.02	21.75	3123.3	66.7	26.6	0.00	0.00	71.8	
5	3334.9	90.00	21.75	3195.0	227.6	90.8	23.39	0.00	245.0	Land Curve
6	6436.4	90.00	21.75	3195.0	3108.3	1240.0	0.00	-90.00	3346.5	TD Lateral

Azimuths to Grid North
True North: 0.69°
Magnetic North: 10.62°

Magnetic Field
Strength: 51076.3snT
Dip Angle: 63.76°
Date: 12/31/2009
Model: IGRF200510



Energen

DIRECTIONAL PLAN

Company:	Energen Resources	**Local Co-ordinate Reference:**	Site Eul Canyon
Project:	SJBR Sec. 25-T32N-R06W	**TVD Reference:**	KB @ 6526.0usft (KB)
Site:	Eul Canyon	**MD Reference:**	KB @ 6526.0usft (KB)
Well:	San Juan 32-5 Unit #105S ST	**North Reference:**	Grid
Wellbore:	Re-Entry Sidetrack OPE FTC	**Survey Calculation Method:**	Minimum Curvature
Design:	Sidetrack Plan #1	**Database:**	EDM 5000.1 Single User Db

Project	SJBR Sec. 25-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:**	2,166,708.33 usft	**Latitude:**	36° 56' 55.788 N
From:	Lat/Long	**Easting:**	1,303,256.68 usft	**Longitude:**	107° 24' 13.860 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	-0.69 °

Well	San Juan 32-5 Unit #105S ST					
Well Position	**+N/-S**	0.0 usft	**Northing:**	2,166,708.33 usf	**Latitude:**	36° 56' 55.788 N
	+E/-W	0.0 usft	**Easting:**	1,303,256.68 usf	**Longitude:**	107° 24' 13.860 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	6,511.0 usf	**Ground Level:**	6,511.0 usft

Wellbore	Re-Entry Sidetrack OPE FTC				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	12/31/2009	9.93	63.76	51,076

Design	Sidetrack Plan #1				
Audit Notes:					
Version:		**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.0	0.0	0.0	21.75	

Survey Tool Program	**Date** 5/2/2011			
From (usft)	**To (usft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
0.0	6,436.4	Sidetrack Plan #1 (Re-Entry Sidetrack OP	MWD	MWD - Standard

Planned Survey

MD (usft)	TVD (usft)	Inc (°)	Azi (°)	Build (°/100usft)	N/S (usft)	E/W (usft)	V. Sec (usft)
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	**Local Co-ordinate Reference:**	Site Eul Canyon
Project:	SJBR Sec. 25-T32N-R06W	**TVD Reference:**	KB @ 6526.0usft (KB)
Site:	Eul Canyon	**MD Reference:**	KB @ 6526.0usft (KB)
Well:	San Juan 32-5 Unit #105S ST	**North Reference:**	Grid
Wellbore:	Re-Entry Sidetrack OPE FTC	**Survey Calculation Method:**	Minimum Curvature
Design:	Sidetrack Plan #1	**Database:**	EDM 5000.1 Single User Db

Planned Survey

MD (usft)	TVD (usft)	Inc (°)	Azi (°)	Build (°/100usft)	N/S (usft)	E/W (usft)	V. Sec (usft)
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
2,800.0	2,800.0	0.00	0.00	0.00	0.0	0.0	0.0
2,900.0	2,900.0	0.00	0.00	0.00	0.0	0.0	0.0
2,950.0	2,950.0	0.00	0.00	0.00	0.0	0.0	0.0
			KOP				
2,960.0	2,960.0	2.34	21.75	23.39	0.2	0.1	0.2
2,980.0	2,979.9	7.02	21.75	23.39	1.7	0.7	1.8
3,000.0	2,999.7	11.70	21.75	23.39	4.7	1.9	5.1
3,020.0	3,019.1	16.38	21.75	23.39	9.2	3.7	9.9
3,040.0	3,038 0	21.05	21.75	23.39	15.2	6.1	16.4
3,060.0	3,056.3	25.73	21.75	23.39	22.6	9.0	24.3
3,080.0	3,074.0	30.41	21.75	23.39	31.3	12.5	33.7
3,100.0	3,090.8	35.09	21.75	23.39	41.3	16.5	44.5
3,120.0	3,106.7	39.77	21.75	23.39	52.6	21.0	56.7
3,140 0	3,121.5	44.45	21.75	23.39	65.1	26.0	70.1
3,142.4	3,123.2	45.02	21.75	23.60	66.7	26.6	71.8
3,142.5	3,123.3	45.02	21.75	0.00	66.7	26.6	71.8
3,160.0	3,135.2	49.11	21.75	23.39	78.6	31.4	84.6
3,180.0	3,147.7	53.79	21.75	23.39	93.1	37.2	100.3
3,200.0	3,158.8	58.46	21.75	23.39	108.6	43.3	116.9
3,220.0	3,168.6	63.14	21.75	23.39	124.8	49.8	134.3
3,240.0	3,176.9	67.82	21.75	23.39	141.7	56.5	152.5
3,260.0	3,183.6	72.50	21.75	23.39	159.1	63.5	171.3
3,264.6	3,185.0	73.58	21.75	23.39	163.3	65.1	175.8
			Top Target Coal				
3,280.0	3,188.9	77.17	21.75	23.39	177.1	70.6	190.6
3,300.0	3,192.5	81.85	21.75	23.39	195.3	77.9	210.3
3,320.0	3,194.5	86.53	21.75	23.39	213.8	85.3	230.2
3,334.9	3,195.0	90.00	21.75	23.35	227.6	90.8	245.0
			Land Curve				

Energen

DIRECTIONAL PLAN

Company:	Energen Resources	**Local Co-ordinate Reference:**	Site Eul Canyon
Project:	SJBR Sec. 25-T32N-R06W	**TVD Reference:**	KB @ 6526.0usft (KB)
Site:	Eul Canyon	**MD Reference:**	KB @ 6526.0usft (KB)
Well:	San Juan 32-5 Unit #105S ST	**North Reference:**	Grid
Wellbore:	Re-Entry Sidetrack OPE FTC	**Survey Calculation Method:**	Minimum Curvature
Design:	Sidetrack Plan #1	**Database:**	EDM 5000.1 Single User Db

Planned Survey

MD (usft)	TVD (usft)	Inc (°)	Azi (°)	Build (°/100usft)	N/S (usft)	E/W (usft)	V. Sec (usft)
3,400.0	3,195.0	90.00	21.75	0.00	288.1	114.9	310.2
3,500.0	3,195.0	90.00	21.75	0.00	381.0	152.0	410.2
3,600.0	3,195.0	90.00	21.75	0.00	473.9	189.0	510.2
3,700.0	3,195.0	90.00	21.75	0.00	566.7	226.1	610.2
3,800.0	3,195.0	90.00	21.75	0.00	659.6	263.2	710.2
3,900.0	3,195.0	90.00	21.75	0.00	752.5	300.2	810.2
4,000.0	3,195.0	90.00	21.75	0.00	845.4	337.3	910.2
4,100.0	3,195.0	90.00	21.75	0.00	938.3	374.3	1,010.2
4,200.0	3,195.0	90.00	21.75	0.00	1,031.1	411.4	1,110.2
4,300.0	3,195.0	90.00	21.75	0.00	1,124.0	448.4	1,210.2
4,400.0	3,195.0	90.00	21.75	0.00	1,216.9	485.5	1,310.2
4,500.0	3,195.0	90.00	21.75	0.00	1,309.8	522.5	1,410.2
4,600.0	3,195.0	90.00	21.75	0.00	1,402.7	559.6	1,510.2
4,700.0	3,195.0	90.00	21.75	0.00	1,495.6	596.6	1,610.2
4,800.0	3,195.0	90.00	21.75	0.00	1,588.4	633.7	1,710.2
4,900.0	3,195.0	90.00	21.75	0.00	1,681.3	670.8	1,810.2
5,000.0	3,195.0	90.00	21.75	0.00	1,774.2	707.8	1,910.2
5,100.0	3,195.0	90.00	21.75	0.00	1,867.1	744.9	2,010.2
5,200.0	3,195.0	90.00	21.75	0.00	1,960.0	781.9	2,110.2
5,300.0	3,195.0	90.00	21.75	0.00	2,052.9	819.0	2,210.2
5,400.0	3,195.0	90.00	21.75	0.00	2,145.7	856.0	2,310.2
5,500.0	3,195.0	90.00	21.75	0.00	2,238.6	893.1	2,410.2

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
6,436.0	3,195.0	Liner	4-1/2	6-1/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,527.0	3,208.0	Base Target Coal		0.00	
3,264.6	3,185.0	Top Target Coal		0.00	

Checked By: _____ Approved By: _____ Date: _____