

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 17 2011

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, or to abandon, an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Energen Resources Corporation

3a. Address

2010 Afton Place, Farmington, NM 87401

3b. Phone No. (include area code)

(505) 325-6800

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SHL: 2300' FSL, 950' FEL, Sec. 30, T32N, R5W, N.M.P.M. (I) NESE

BHL: 157' FSL, 843' FEL Sec. 30, T32N, R5W, N.M.P.M. (P) SESE

5. Lease Serial No.

NM02850B

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

San Juan 32-5 Unit

8. Well Name and No.

San Juan 32-5 Unit 111S

9. API Well No.

30-039-27700

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

- ☐ Notice of Intent
- ☒ Subsequent Report
- ☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other <u>set horiz.</u> |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | <u>liner & production</u> |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | <u>tubing</u> |

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.)

This subsequent report for the San Juan 32-5 Unit #111S is being submitted in follow up to the Intent to Recomplete filed on 03/15/11 - approved by BLM 03/17/11.

04/30/11 TIH with whipstock. Mill window from 2962' - 2975'. Drill 6.25" horizontal sidetrack hole in the Fruitland Coal to a MD of 5263'. (see attached drill survey).
TIH with 4.50" 11.6# J-55 LT&C casing, set @ 5141' TOL:2954'. Perforations in the FRC are from 3350'-3435' & 3618' - 5093' Original vertical perms from 3265'-3284' and 3326'-3332' are isolated by a composite bridge at 2980'.

file new CIDY with BHL location

05/6/11 TIH with 2.375" 4.7# J-55 production tubing, set @ 2930' MD. ND BOP. RMD 5/7/2011.

See attachment for production liner specifications.

RCVD MAY 20 '11
OIL CONS. DIV.
DIST. 3

file Subsequent Report of Liner to Work

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Anna Stotts

Title Regulatory Analyst

Signature

Date 5/9/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date MAY 20 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

FARMINGTON FIELD OFFICE

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.

NMOCB

San Juan 32-5 Unit #111S

*Energen Resources has set 2 Baker Hughes Swell Packers for the isolation per NMOCD requirements.

*The swell packers were spaced out on the 4-1/2" 11.6# liner to be placed as follows:

The lower swell packer was placed at the Fruitland formation/Kirtland shale interface from 3010' – 3023' MD.

The upper swell packer was placed right below the T-lock swivel on the Baker hook hanger from 2991'- 3005' MD, roughly 10-15 feet outside the milled window.

*Per NMOCD requirements, a Noise Log will be run in the sidetrack to determine if there is a seal behind the swell packers.

*A minimum of 10 days must be given for the swell packers to expand and seal the wellbore. The NMOCD will be contacted 20 hours in advance of running the Noise Log in the San Juan 32-5 Unit #111S.

"AS DRILLED"

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 30-039-27700	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 111 S
⁷ OGRID No. 162928	⁸ Operator Name Energen Resources Corporation	⁹ Elevation 6522'

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	30	32N	5W	3	2300	South	950	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
P	30	32N	5W	4	157	South	843	East	Rio Arriba

¹² Dedicated Acres 345.59 acres All of Sec. 30 & 31	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSP 1847
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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 Producing Interval: From the lower isolating swell packer set at 3,018' MD @ 2258' FSL, 937' FEL to the BHL @ 157' FSL, 843' FEL	1469.82' 2639.34' SHL 30 950' 2300' 2640' BHL 843' 157' 1428.90' 2640' 31 5280' 2640' 1413.06'	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. <i>Stephen Byers</i> 05/15/2011 Signature Date 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. August 25, 2003 Date of Survey Signature and Seal of Professional Surveyor Jason C. Edwards Certificate Number 10201
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Energen Resources

SJBR Sec 30-T32N-R05W

Eul Canyon

San Juan 32-5 Unit #111S

Re-Entry Sidetrack OPE FTC

Design: Re-Entry Sidetrack OPE FTC

Energen Planning Report

05 May, 2011



A Schlumberger Company

Company: Energen Resources
Project: SJBR Sec 30-T32N-R05W
Site: Eul Canyon
Well: San Juan 32-5 Unit #111S
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Re-Entry Sidetrack OPE FTC

Local Co-ordinate Reference: Site Eul Canyon
TVD Reference: RKB-16' @ 6538.00usft (D&J #1)
MD Reference: RKB-16' @ 6538.00usft (D&J #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	SJBR Sec 30-T32N-R05W		
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:	2,167,213.14 usft
From:	Lat/Long	Easting:	1,305,118.60 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	36° 57' 1.001 N
		Longitude:	107° 23' 51.000 W
		Grid Convergence:	-0.69 °

Well	San Juan 32-5 Unit #111S		
Well Position	+N/-S	0.00 usft	Northing: 2,167,213.14 usft
	+E/-W	0.00 usft	Easting: 1,305,118.60 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	36° 57' 1.001 N
		Longitude:	107° 23' 51.000 W
		Ground Level:	6,522.00 usft

Wellbore	Re-Entry Sidetrack OPE FTC				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/26/11	9.78	63.71	50,917

Design	Re-Entry Sidetrack OPE FTC			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	260.77

Survey Program	Date 05/05/11			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	2,950.00	GYRO (Re-Entry Sidetrack OPE FTC)	NS-GYRO-MS	North sensing gyrocompassing m/s
2,962.29	5,263.00	MWD (Re-Entry Sidetrack OPE FTC)	MWD	MWD - Standard

Survey	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	100.00	0.31	74.44	100.00	0.07	0.26	0.31	-0.27
	200.00	0.47	157.95	200.00	-0.24	0.68	0.53	-0.63
	300.00	0.33	190.45	300.00	-0.90	0.78	0.26	-0.62
	400.00	0.38	183.50	399.99	-1.51	0.70	0.07	-0.45
	500.00	0.53	186.97	499.99	-2.30	0.63	0.15	-0.25
	600.00	0.65	179.49	599.99	-3.33	0.58	0.14	-0.04
	700.00	0.70	189.62	699.98	-4.50	0.48	0.13	0.25
	800.00	0.55	209.71	799.97	-5.52	0.14	0.26	0.75
	900.00	0.26	276.60	899.97	-5.91	-0.32	0.51	1.27
	1,000.00	0.59	266.63	999.97	-5.91	-1.06	0.34	2.00

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North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)
1,100.00	0.46	272.08	1,099.96	-5.93	-1.98	0.14	2.90
1,200.00	0.29	241.72	1,199.96	-6.03	-2.60	0.26	3.54
1,300.00	0.08	346.36	1,299.96	-6.09	-2.84	0.32	3.78
1,400.00	0.16	58.42	1,399.96	-5.94	-2.74	0.16	3.66
1,500.00	0.34	342.59	1,499.96	-5.59	-2.71	0.34	3.57
1,600.00	0.42	244.28	1,599.96	-5.46	-3.13	0.58	3.96
1,700.00	0.43	239.54	1,699.96	-5.81	-3.78	0.04	4.66
1,800.00	0.43	269.84	1,799.95	-6.00	-4.48	0.22	5.38
1,900.00	0.35	284.00	1,899.95	-5.93	-5.15	0.12	6.04
2,000.00	0.29	279.75	1,999.95	-5.82	-5.70	0.06	6.56
2,100.00	0.54	275.77	2,099.95	-5.73	-6.42	0.25	7.25
2,200.00	0.83	265.81	2,199.94	-5.73	-7.61	0.31	8.43
2,300.00	0.62	263.22	2,299.93	-5.85	-8.87	0.21	9.69
2,400.00	0.68	315.52	2,399.93	-5.49	-9.82	0.58	10.57
2,500.00	0.67	285.09	2,499.92	-4.91	-10.80	0.35	11.45
2,600.00	0.79	282.34	2,599.91	-4.61	-12.04	0.12	12.62
2,700.00	0.78	299.44	2,699.90	-4.13	-13.30	0.23	13.79
2,800.00	0.48	309.73	2,799.90	-3.53	-14.22	0.32	14.60
2,900.00	0.82	302.54	2,899.89	-2.88	-15.14	0.35	15.41
2,950.00	0.55	306.36	2,949.88	-2.54	-15.64	0.55	15.84
2,962.29	0.55	307.05	2,962.17	-2.47	-15.73	0.05	15.93
3,022.03	10.64	168.56	3,021.58	-7.72	-14.87	18.51	15.91
3,052.79	17.85	176.22	3,051.38	-15.22	-13.99	24.18	16.25
3,083.57	25.59	178.84	3,079.95	-26.59	-13.54	25.34	17.63
3,114.36	33.50	180.38	3,106.72	-41.76	-13.47	25.81	19.99
3,145.11	40.80	179.84	3,131.21	-60.32	-13.49	23.76	22.99
3,176.15	47.92	178.06	3,153.39	-82.00	-13.08	23.28	26.06
3,206.87	53.73	177.83	3,172.79	-105.79	-12.22	18.92	29.03
3,237.55	59.71	176.66	3,189.62	-131.39	-10.98	19.75	31.91
3,268.17	65.42	176.54	3,203.72	-158.51	-9.37	18.65	34.67
3,298.85	71.58	176.46	3,214.96	-186.99	-7.62	20.08	37.52
3,330.00	76.33	175.84	3,223.57	-216.85	-5.61	15.37	40.32
3,337.00	77.05	175.72	3,225.18	-223.64	-5.11	10.42	40.92
Top of Coal @3337.00'MD;3225.18'TVD;40.92'VS							
3,360.00	79.40	175.31	3,229.87	-246.09	-3.35	10.37	42.78
3,390.00	81.78	174.95	3,234.77	-275.57	-0.84	8.02	45.03
3,420.00	84.33	174.89	3,238.40	-305.23	1.80	8.50	47.18
3,450.00	87.41	175.03	3,240.56	-335.04	4.43	10.28	49.37
3,481.00	89.78	174.80	3,241.32	-365.90	7.17	7.68	51.61
3,511.00	92.24	176.26	3,240.79	-395.81	9.51	9.53	54.10
3,542.00	93.65	176.91	3,239.20	-426.71	11.36	5.01	57.23
3,572.00	93.47	177.00	3,237.34	-456.61	12.95	0.67	60.46
3,603.00	92.68	176.69	3,235.68	-487.52	14.65	2.74	63.73
3,633.00	92.68	176.82	3,234.27	-517.44	16.35	0.43	66.86
3,664.00	92.68	176.99	3,232.82	-548.36	18.02	0.55	70.17

Company: Energen Resources
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Design: Re-Entry Sidetrack OPE FTC

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MD Reference: RKB-16' @ 6538.00usft (D&J #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000 1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)
3,695.00	93.56	176.92	3,231.14	-579.27	19.66	2.85	73.50
3,725.00	93.12	176.53	3,229.39	-609.17	21.37	1.96	76.61
3,757.00	93.03	176.09	3,227.67	-641.05	23.43	1.40	79.69
3,787.00	93.56	175.74	3,225.95	-670.93	25.56	2.12	82.38
3,818.00	93.21	175.53	3,224.12	-701.78	27.92	1.32	85.00
3,848.00	92.51	175.39	3,222.62	-731.65	30.29	2.38	87.45
3,879.00	92.42	175.27	3,221.29	-762.52	32.81	0.48	89.91
3,909.00	92.07	175.27	3,220.11	-792.40	35.28	1.17	92.27
3,940.00	90.84	176.18	3,219.32	-823.30	37.59	4.93	94.94
3,971.00	90.57	178.16	3,218.94	-854.26	39.12	6.45	98.40
4,001.00	90.04	179.49	3,218.78	-884.25	39.74	4.77	102.60
4,032.00	89.78	180.01	3,218.83	-915.25	39.87	1.88	107.44
4,063.00	89.96	180.13	3,218.90	-946.25	39.84	0.70	112.45
4,094.00	90.75	179.85	3,218.71	-977.25	39.84	2.70	117.41
4,124.00	91.10	179.94	3,218.23	-1,007.24	39.90	1.20	122.17
4,155.00	91.36	179.34	3,217.56	-1,038.24	40.09	2.11	126.95
4,186.00	90.92	178.57	3,216.94	-1,069.22	40.66	2.86	131.36
4,218.00	91.10	178.62	3,216.38	-1,101.21	41.44	0.58	135.72
4,250.00	91.63	178.98	3,215.62	-1,133.19	42.11	2.00	140.19
4,282.00	93.12	179.66	3,214.29	-1,165.16	42.49	5.12	144.94
4,313.00	92.42	179.17	3,212.79	-1,196.12	42.81	2.76	149.59
4,345.00	93.12	179.12	3,211.25	-1,228.08	43.28	2.19	154.25
4,377.00	92.33	179.57	3,209.73	-1,260.04	43.65	2.84	159.01
4,409.00	92.51	179.56	3,208.37	-1,292.02	43.89	0.56	163.90
4,440.00	92.15	179.01	3,207.11	-1,322.99	44.28	2.12	168.49
4,472.00	92.15	179.36	3,205.91	-1,354.96	44.73	1.09	173.17
4,504.00	91.01	177.83	3,205.03	-1,386.94	45.52	5.96	177.52
4,536.00	90.40	177.35	3,204.64	-1,418.91	46.86	2.43	181.32
4,567.00	90.57	176.97	3,204.37	-1,449.87	48.40	1.34	184.77
4,599.00	90.66	176.57	3,204.03	-1,481.82	50.20	1.28	188.12
4,631.00	90.66	176.09	3,203.66	-1,513.75	52.25	1.50	191.22
4,663.00	90.22	175.40	3,203.42	-1,545.66	54.62	2.56	193.99
4,694.00	90.66	174.59	3,203.18	-1,576.54	57.33	2.97	196.27
4,726.00	90.31	173.54	3,202.91	-1,608.37	60.64	3.46	198.11
4,758.00	90.66	173.77	3,202.64	-1,640.17	64.17	1.31	199.72
4,790.00	90.75	173.85	3,202.24	-1,671.98	67.62	0.38	201.42
4,821.00	90.13	173.77	3,202.01	-1,702.80	70.97	2.02	203.06
4,852.00	89.43	173.21	3,202.12	-1,733.60	74.48	2.89	204.53
4,884.00	89.08	174.06	3,202.54	-1,765.40	78.03	2.87	206.13
4,916.00	89.69	174.65	3,202.88	-1,797.24	81.18	2.65	208.13
4,947.00	89.60	175.28	3,203.08	-1,828.12	83.90	2.05	210.40
4,979.00	89.43	174.77	3,203.35	-1,860.00	86.67	1.68	212.78
5,011.00	89.25	175.03	3,203.72	-1,891.87	89.52	0.99	215.08
5,043.00	88.99	175.27	3,204.21	-1,923.75	92.22	1.11	217.52

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Database: EDM 5000.1 Single User Db

Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)
5,075.00	88.46	175.40	3,204.92	-1,955.64	94.82	1.71	220.07
5,107.00	88.46	175.79	3,205.78	-1,987.53	97.28	1.22	222.76
5,138.00	88.64	176.63	3,206.56	-2,018.45	99.33	2.77	225.70
5,170.00	88.99	176.88	3,207.23	-2,050.39	101.14	1.34	229.03
5,198.00	88.29	176.58	3,207.89	-2,078.34	102.74	2.72	231.94
5,263.00	88.29	176.58	3,209.83	-2,143.20	106.61	0.00	238.52

Projection to Bit @5263.00'MD;3209.83'TVD;238.52'VS

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,337.00	3,225.18	-223.64	-5.11	Top of Coal @3337.00'MD;3225.18'TVD;40.92'VS
5,263.00	3,209.83	-2,143.20	106.61	Projection to Bit @5263.00'MD;3209.83'TVD;238.52'VS

Checked By: _____ Approved By: _____ Date: _____

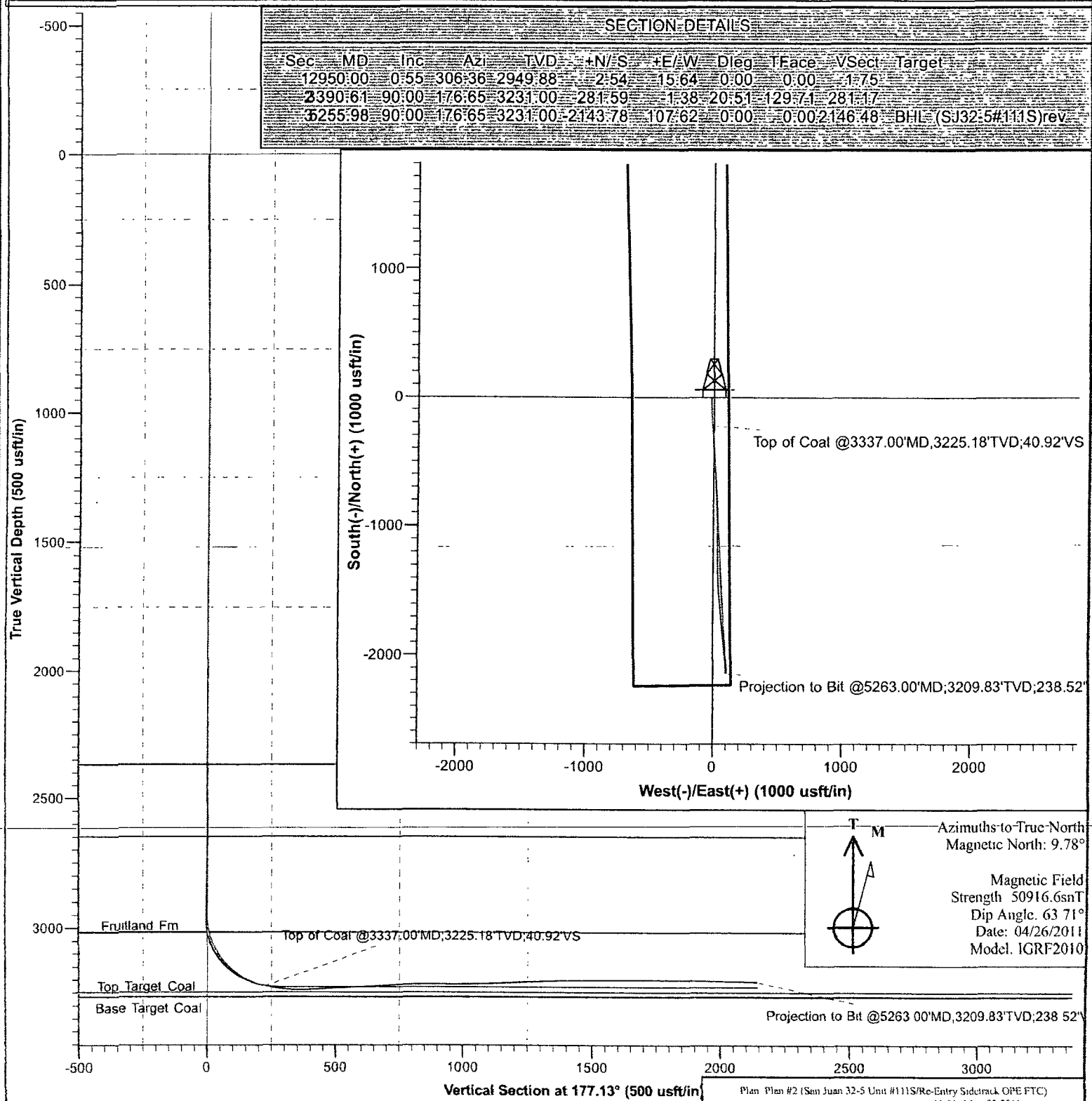
WELL DETAILS: San Juan 32-5 Unit #111S

EOW

Ground Elevation: 6522.00
 RKB Elevation: RKB-16' @ 6538.00usft (D&J #1)
 Rig Name: D&J #1

NO H.L. CROSSED

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	2167213.14	1305118.60	36° 57' 1.001 N	107° 23' 51.000 W



Re-Entry Sidetrack OPE FTC.txt

H HEADER INFORMATION

H COMPANY : Energen Resources
H FIELD : SJBR Sec 30-T32N-R05W
H SITE : Eul Canyon
H WELL : San Juan 32-5 Unit #111S
H WELLPATH: Re-Entry Sidetrack OPE FTC
H DEPTHUNT: usft
H SURVDATE: 04/26/2011

H WELL INFORMATION

H WELL EW MAP : 1305118.60
H WELL NS MAP : 2167213.14
H DATUM ELEV : 6538.00
H VSECT ANGLE : 260.77
H VSECT NORTH : 0.00
H VSECT EAST : 0.00

H SURVEY TYPE INFORMATION

H 100.00 - 2950.00 GYRO : NS-GYRO-MS
H 2962.29 - 5263.00 MWD : MWD

H SURVEY LIST

H MD	INC	AZI	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.31	74.44	100.00	0.07	0.26
200.00	0.47	157.95	200.00	-0.24	0.68
300.00	0.33	190.45	300.00	-0.90	0.78
400.00	0.38	183.50	399.99	-1.51	0.70
500.00	0.53	186.97	499.99	-2.30	0.63
600.00	0.65	179.49	599.99	-3.33	0.58
700.00	0.70	189.62	699.98	-4.50	0.48
800.00	0.55	209.71	799.97	-5.52	0.14
900.00	0.26	276.60	899.97	-5.91	-0.32
1000.00	0.59	266.63	999.97	-5.91	-1.06
1100.00	0.46	272.08	1099.96	-5.93	-1.98
1200.00	0.29	241.72	1199.96	-6.03	-2.60
1300.00	0.08	346.36	1299.96	-6.09	-2.84
1400.00	0.16	58.42	1399.96	-5.94	-2.74
1500.00	0.34	342.59	1499.96	-5.59	-2.71
1600.00	0.42	244.28	1599.96	-5.46	-3.13
1700.00	0.43	239.54	1699.96	-5.81	-3.78
1800.00	0.43	269.84	1799.95	-6.00	-4.48
1900.00	0.35	284.00	1899.95	-5.93	-5.15
2000.00	0.29	279.75	1999.95	-5.82	-5.70
2100.00	0.54	275.77	2099.95	-5.73	-6.42
2200.00	0.83	265.81	2199.94	-5.73	-7.61
2300.00	0.62	263.22	2299.93	-5.85	-8.87
2400.00	0.68	315.52	2399.93	-5.49	-9.82
2500.00	0.67	285.09	2499.92	-4.91	-10.80
2600.00	0.79	282.34	2599.91	-4.61	-12.04
2700.00	0.78	299.44	2699.90	-4.13	-13.30
2800.00	0.48	309.73	2799.90	-3.53	-14.22
2900.00	0.82	302.54	2899.89	-2.88	-15.14
2950.00	0.55	306.36	2949.88	-2.54	-15.64
2962.29	0.55	307.05	2962.17	-2.47	-15.73
3022.03	10.64	168.56	3021.58	-7.72	-14.87
3052.79	17.85	176.22	3051.38	-15.22	-13.99
3083.57	25.59	178.84	3079.95	-26.59	-13.54
3114.36	33.50	180.38	3106.72	-41.76	-13.47
3145.11	40.80	179.84	3131.21	-60.32	-13.49
3176.15	47.92	178.06	3153.39	-82.00	-13.08
3206.87	53.73	177.83	3172.79	-105.79	-12.22
3237.55	59.71	176.66	3189.62	-131.39	-10.98

Re-Entry Sidetrack OPE FTC.txt

3268.17	65.42	176.54	3203.72	-158.51	-9.37
3298.85	71.58	176.46	3214.96	-186.99	-7.62
3330.00	76.33	175.84	3223.57	-216.85	-5.61
3337.00	77.05	175.72	3225.18	-223.64	-5.11
3360.00	79.40	175.31	3229.87	-246.09	-3.35
3390.00	81.78	174.95	3234.77	-275.57	-0.84
3420.00	84.33	174.89	3238.40	-305.23	1.80
3450.00	87.41	175.03	3240.56	-335.04	4.43
3481.00	89.78	174.80	3241.32	-365.90	7.17
3511.00	92.24	176.26	3240.79	-395.81	9.51
3542.00	93.65	176.91	3239.20	-426.71	11.36
3572.00	93.47	177.00	3237.34	-456.61	12.95
3603.00	92.68	176.69	3235.68	-487.52	14.65
3633.00	92.68	176.82	3234.27	-517.44	16.35
3664.00	92.68	176.99	3232.82	-548.36	18.02
3695.00	93.56	176.92	3231.14	-579.27	19.66
3725.00	93.12	176.53	3229.39	-609.17	21.37
3757.00	93.03	176.09	3227.67	-641.05	23.43
3787.00	93.56	175.74	3225.95	-670.93	25.56
3818.00	93.21	175.53	3224.12	-701.78	27.92
3848.00	92.51	175.39	3222.62	-731.65	30.29
3879.00	92.42	175.27	3221.29	-762.52	32.81
3909.00	92.07	175.27	3220.11	-792.40	35.28
3940.00	90.84	176.18	3219.32	-823.30	37.59
3971.00	90.57	178.16	3218.94	-854.26	39.12
4001.00	90.04	179.49	3218.78	-884.25	39.74
4032.00	89.78	180.01	3218.83	-915.25	39.87
4063.00	89.96	180.13	3218.90	-946.25	39.84
4094.00	90.75	179.85	3218.71	-977.25	39.84
4124.00	91.10	179.94	3218.23	-1007.24	39.90
4155.00	91.36	179.34	3217.56	-1038.24	40.09
4186.00	90.92	178.57	3216.94	-1069.22	40.66
4218.00	91.10	178.62	3216.38	-1101.21	41.44
4250.00	91.63	178.98	3215.62	-1133.19	42.11
4282.00	93.12	179.66	3214.29	-1165.16	42.49
4313.00	92.42	179.17	3212.79	-1196.12	42.81
4345.00	93.12	179.12	3211.25	-1228.08	43.28
4377.00	92.33	179.57	3209.73	-1260.04	43.65
4409.00	92.51	179.56	3208.37	-1292.02	43.89
4440.00	92.15	179.01	3207.11	-1322.99	44.28
4472.00	92.15	179.36	3205.91	-1354.96	44.73
4504.00	91.01	177.83	3205.03	-1386.94	45.52
4536.00	90.40	177.35	3204.64	-1418.91	46.86
4567.00	90.57	176.97	3204.37	-1449.87	48.40
4599.00	90.66	176.57	3204.03	-1481.82	50.20
4631.00	90.66	176.09	3203.66	-1513.75	52.25
4663.00	90.22	175.40	3203.42	-1545.66	54.62
4694.00	90.66	174.59	3203.18	-1576.54	57.33
4726.00	90.31	173.54	3202.91	-1608.37	60.64
4758.00	90.66	173.77	3202.64	-1640.17	64.17
4790.00	90.75	173.85	3202.24	-1671.98	67.62
4821.00	90.13	173.77	3202.01	-1702.80	70.97
4852.00	89.43	173.21	3202.12	-1733.60	74.48
4884.00	89.08	174.06	3202.54	-1765.40	78.03
4916.00	89.69	174.65	3202.88	-1797.24	81.18
4947.00	89.60	175.28	3203.08	-1828.12	83.90
4979.00	89.43	174.77	3203.35	-1860.00	86.67
5011.00	89.25	175.03	3203.72	-1891.87	89.52
5043.00	88.99	175.27	3204.21	-1923.75	92.22
5075.00	88.46	175.40	3204.92	-1955.64	94.82
5107.00	88.46	175.79	3205.78	-1987.53	97.28
5138.00	88.64	176.63	3206.56	-2018.45	99.33
5170.00	88.99	176.88	3207.23	-2050.39	101.14

			Re-Entry	Sidetrack	OPE	FTC.txt
5198.00	88.29	176.58	3207.89	-2078.34	102.74	
5263.00	88.29	176.58	3209.83	-2143.20	106.61	