

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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

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: 710' FSL, 780' FEL (P) Sec. 23-T32N-R06W

BHL: 1496' FSL, 2503' FEL (J) Sec. 23-T32N-R06W

5. Lease Serial No.

NMSF 079011

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 101S

9. API Well No.

30-039-27263

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 #101S is being submitted in follow up to the Intent to recomplete filed on 11/16/09 - approved by NMCD on 11/20/09.

4/10/11 Set Whipstock. Mill window from 2715'-2737'. Drill 6.25" horizontal sidetrack hole in the Fruitland Coal to a MD of 4745'. (see attached drilling survey). TTH with 4.50" 11.6# J-55 LIF&C perforated liner, set @ 4619'. TOL 2708'. Perforations in the FRC are from 3134'-4492'. Original perfs from 2972-02', 3029-32', 3060-64' are isolated by a composite bridge plug @ 2735'.

4/17/11 TTH with 2.375" 4.7# J-55 kill string, set at 2706'' MD. ND BOP. Rig released 4/17/11.

See attachment for production liner specifications.

file AS drilled PLAT(C-102)

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Anna Stotts

Title Regulatory Analyst

Signature

Date 4/27/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

MAY 11 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 fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

any department or agency of the United States, any false,

NMCD

San Juan 32-5 Unit #101S ST:

*Energen Resources has set 2 Baker Hughes Swell Packers for 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 2770' – 2782' MD.
- The upper swell packer was placed right below the T-Lock swivel on the Baker hook hanger from 2742' – 2756' 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 24 hours in advance of running the noise log in the San Juan 32-5 Unit #101S ST.



Energen Resources

Rio Arriba County
Eul Canyon (True North)
San Juan 32-5 Unit #101S
Re-Entry Sidetrack OPE FTC

Design: Re-Entry Sidetrack OPE FTC

Energen Planning Report

16 April, 2011



PATHFINDER

A Schlumberger Company

Company: Energen Resources
Project: Rio Arriba County
Site: Eul Canyon (True North)
Well: San Juan 32-5 Unit #101S
Wellbore: Re-Entry Sidetrack OPE FTC
Design: Re-Entry Sidetrack OPE FTC

Local Co-ordinate Reference: Well San Juan 32-5 Unit #101S
TVD Reference: RKB-15' @ 6346.00usft (Original Well Elev)
MD Reference: RKB-15' @ 6346.00usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project Rio Arriba County

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 (True North)

Site Position:	Northing: 2,171,070.210 usft	Latitude: 36° 57' 38.340 N
From: Map	Easting: 1,298,517.200 usft	Longitude: 107° 25' 12.900 W
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16"	Grid Convergence: -0.70 °

Well San Juan 32-5 Unit #101S

Well Position +N/-S	0.00 usft	Northing: 2,171,070.210 usft	Latitude: 36° 57' 38.340 N
+E/-W	0.00 usft	Easting: 1,298,517.200 usft	Longitude: 107° 25' 12.900 W
Position Uncertainty	0.00 usft	Wellhead Elevation: usft	Ground Level: 6,331.00 usft

Wellbore Re-Entry Sidetrack OPE FTC

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/05/11	9.80	63.72	50,927

Design Re-Entry Sidetrack OPE FTC

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 2,600.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	294.52

Survey Program Date 04/16/11

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
200.00	2,600.00	GYRO (OH)	CB-GYRO-MS	Camera based gyro multishot
2,714.00	4,745.00	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
200.00	0.12	145.41	200.00	-0.17	0.12	0.06	-0.18
400.00	0.35	136.57	400.00	-0.79	0.66	0.12	-0.93
600.00	0.34	106.81	599.99	-1.40	1.65	0.09	-2.08
800.00	0.34	75.00	799.99	-1.42	2.79	0.09	-3.13
1,000.00	0.52	348.00	999.99	-0.38	3.17	0.30	-3.04
1,200.00	0.64	336.48	1,199.98	1.53	2.54	0.08	-1.67
1,400.00	0.68	359.77	1,399.96	3.74	2.09	0.13	-0.34
1,600.00	0.43	11.25	1,599.95	5.67	2.23	0.14	0.32
1,800.00	0.78	346.94	1,799.94	7.73	2.07	0.21	1.33
2,000.00	1.11	350.77	1,999.92	10.97	1.45	0.17	3.23

Company: Energen Resources
Project: Rio Arriba County
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Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)
2,200.00	0.74	311.79	2,199.89	13.74	0.17	0.35	5.54
2,400.00	0.83	268.74	2,399.87	14.57	-2.24	0.29	8.08
2,600.00	0.68	296.54	2,599.86	15.07	-4.75	0.20	10.57
2,714.00	0.74	330.80	2,713.85	16.01	-5.71	0.37	11.84
2,743.77	5.63	292.00	2,743.57	16.73	-7.16	17.05	13.46
2,774.56	12.66	290.17	2,773.95	18.46	-11.73	22.85	18.34
2,805.31	19.79	297.50	2,803.45	22.03	-19.52	24.08	26.91
2,835.56	27.00	297.82	2,831.20	27.60	-30.15	23.84	38.89
2,865.82	34.29	299.12	2,857.22	34.97	-43.69	24.19	54.27
2,896.14	41.42	299.74	2,881.14	44.11	-59.88	23.55	72.79
2,926.94	48.63	298.97	2,902.90	54.78	-78.87	23.48	94.49
2,957.27	55.93	298.65	2,921.44	66.33	-99.88	24.08	118.40
2,988.07	62.26	296.94	2,937.25	78.63	-123.25	21.10	144.77
3,018.82	66.65	292.45	2,950.51	90.20	-148.45	19.42	172.49
3,049.00	72.63	294.24	2,961.01	101.41	-174.41	20.58	200.77
3,074.67	75.76	293.86	2,968.00	111.48	-196.96	12.27	225.46
Top of Coal-3074.67°MD,75.76°INC,293.86°AZI,2968.00°TVD							
3,076.00	75.92	293.84	2,968.33	112.00	-198.14	12.27	226.75
3,080.00	76.41	293.78	2,969.28	113.57	-201.69	12.34	230.64
3,110.00	80.11	294.74	2,975.39	125.63	-228.47	12.72	260.00
3,140.00	84.15	293.92	2,979.49	137.87	-255.54	13.74	289.71
3,171.00	88.90	293.77	2,981.37	150.38	-283.83	15.33	320.65
3,201.00	91.19	291.70	2,981.35	161.97	-311.50	10.29	350.63
3,232.00	90.48	289.73	2,980.90	172.94	-340.49	6.75	381.55
3,263.00	91.01	290.48	2,980.49	183.59	-369.60	2.96	412.46
3,293.00	90.48	292.35	2,980.10	194.54	-397.52	6.48	442.41
3,324.00	90.92	293.81	2,979.72	206.69	-426.04	4.92	473.40
3,354.00	90.40	293.92	2,979.38	218.83	-453.47	1.77	503.39
3,385.00	91.10	294.13	2,978.97	231.45	-481.78	2.36	534.39
3,416.00	90.75	294.09	2,978.47	244.11	-510.08	1.14	565.39
3,446.00	90.84	295.08	2,978.06	256.59	-537.35	3.31	595.38
3,477.00	91.10	295.67	2,977.53	269.88	-565.36	2.08	626.37
3,508.00	91.54	295.92	2,976.82	283.36	-593.26	1.63	657.36
3,538.00	91.19	294.76	2,976.10	296.20	-620.37	4.04	687.35
3,569.00	89.34	294.66	2,975.96	309.16	-648.53	5.98	718.34
3,599.00	87.93	293.73	2,976.67	321.45	-675.88	5.63	748.33
3,630.00	88.55	294.09	2,977.63	334.00	-704.21	2.31	779.32
3,661.00	88.37	294.17	2,978.46	346.67	-732.49	0.64	810.31
3,690.00	87.85	293.80	2,979.42	358.46	-758.97	2.20	839.29
3,721.00	88.11	294.50	2,980.51	371.13	-787.24	2.41	870.27
3,751.00	88.29	293.32	2,981.45	383.28	-814.65	3.98	900.25
3,782.00	88.20	292.18	2,982.40	395.27	-843.23	3.69	931.22
3,812.00	88.46	291.65	2,983.27	406.46	-871.05	1.97	961.18
3,843.00	88.20	291.08	2,984.18	417.75	-899.90	2.02	992.12
3,874.00	87.67	291.14	2,985.29	428.90	-928.80	1.72	1,023.04

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Survey

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)
3,904.00	88.29	291.95	2,986.35	439.91	-956.69	3.40	1,052.98
3,935.00	89.34	293.37	2,986.99	451.85	-985.29	5.70	1,083.96
3,965.00	91.28	294.46	2,986.83	464.01	-1,012.71	7.42	1,113.95
3,997.00	91.10	295.14	2,986.17	477.43	-1,041.75	2.20	1,145.95
4,029.00	90.84	294.86	2,985.62	490.96	-1,070.75	1.19	1,177.94
4,061.00	89.87	294.11	2,985.43	504.22	-1,099.87	3.83	1,209.94
4,092.00	91.28	295.15	2,985.12	517.14	-1,128.05	5.65	1,240.94
4,124.00	91.28	294.14	2,984.40	530.48	-1,157.13	3.16	1,272.93
4,156.00	89.96	293.60	2,984.05	543.42	-1,186.39	4.46	1,304.92
4,188.00	90.66	294.47	2,983.88	556.46	-1,215.61	3.49	1,336.92
4,219.00	91.45	295.75	2,983.31	569.61	-1,243.68	4.85	1,367.91
4,251.00	91.89	295.81	2,982.38	583.52	-1,272.48	1.39	1,399.89
4,283.00	92.24	295.56	2,981.22	597.38	-1,301.30	1.34	1,431.86
4,315.00	90.22	292.56	2,980.54	610.42	-1,330.51	11.30	1,463.85
4,347.00	89.25	288.88	2,980.69	621.74	-1,360.43	11.89	1,495.77
4,378.00	89.60	289.27	2,981.00	631.87	-1,389.73	1.69	1,526.63
4,410.00	88.81	289.14	2,981.44	642.40	-1,419.94	2.50	1,558.49
4,442.00	89.87	291.35	2,981.81	653.47	-1,449.96	7.66	1,590.40
4,474.00	90.40	292.98	2,981.73	665.54	-1,479.60	5.36	1,622.37
4,506.00	90.22	293.18	2,981.56	678.09	-1,509.04	0.84	1,654.36
4,537.00	90.57	294.69	2,981.35	690.66	-1,537.37	5.00	1,685.35
4,568.00	90.13	295.87	2,981.16	703.90	-1,565.40	4.06	1,716.35
4,600.00	90.84	298.83	2,980.89	718.60	-1,593.82	9.51	1,748.31
4,632.00	89.60	297.94	2,980.76	733.81	-1,621.97	4.77	1,780.23
4,663.00	88.29	297.49	2,981.33	748.23	-1,649.41	4.47	1,811.18
4,686.00	88.20	297.21	2,982.04	758.79	-1,669.83	1.28	1,834.14
4,745.00	88.20	297.21	2,983.89	785.75	-1,722.27	0.00	1,893.05

Projection to Bit-4745.00°MD,88.20°INC,297.21°AZI,2983.89°TVD

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
3,074.67	2,968.00	111.48	-196.96	Top of Coal-3074.67°MD,75.76°INC,293.86°AZI,2968.00°TVD
4,745.00	2,983.89	785.75	-1,722.27	Projection to Bit-4745.00°MD,88.20°INC,297.21°AZI,2983.89°TVD

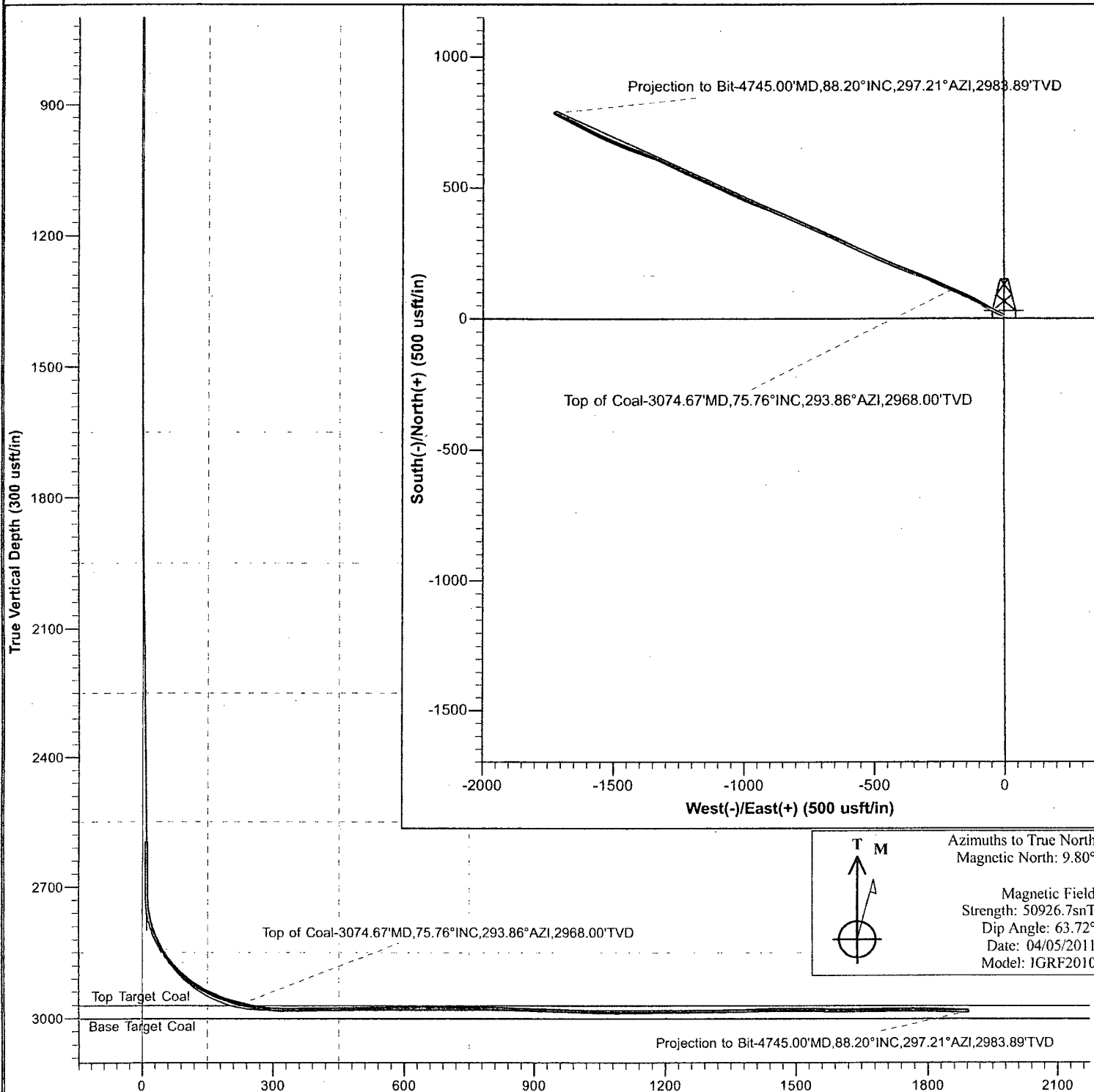
Checked By: _____ Approved By: _____ Date: _____

EOW

WELL DETAILS: San Juan 32-5 Unit #101S

Ground Elevation: 6331.00
 RKB Elevation: RKB-15' @ 6346.00usft (Original Well Elev)
 Rig Name: Original Well Elev

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	2171070.210	-1298517.200	-36° 57' 38.340 N	-107° 25' 12.900 W



Azimuths to True North
 Magnetic North: 9.80°

Magnetic Field
 Strength: 50926.7snT
 Dip Angle: 63.72°
 Date: 04/05/2011
 Model: IGRF2010

Vertical Section at 294.71° (300 usft/in)

Plan: Plan #2 (San Juan 32-5 Unit #101S/Re-Entry Sidetrack OPE F
 Created By: Nate Bingham Date: 14:14, April 16 2011