Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUN 30 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 079485-B

6. If Indian, Allottee or Tribe Name

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

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

8. Well Name and No
San Juan 30-4 Unit #106H

2. Name of Operator
Energen Resources Corporation

9 API Well No
30-039-31005

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*)
SH: 931' FNL 1,055' FEL Sec. 17-T30N-R04W (A)
BHL: 950' FNL 1,800' FEL Sec. 17-T30N-R04W (C)

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 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 intends to drill the subject well as a S-shape directional well according to the attached reports.

Hold C104 for Directional Survey and "As Drilled" plat

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

SEE ATTACHED FOR CONDITIONS OF APPROVAL

CONDITIONS OF APPROVAL
Adhere to previously issued stipulations.

Hold C104 for Directional Survey and "As Drilled" plat

RECEIVED
JUL 2011
OIL CONS. DIV. DIST. 3

14. I hereby certify that the foregoing is true and correct
Name (*Printed/Typed*) Andrew Soto
Title Drilling Engineer
Signature
Date 6/27/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by Troy L. Salyers
Title Petroleum Engineer
Date 7/11/2011
Office FFO

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

NMOCD

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 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
30-039-31005	71629	FRUITLAND COAL

[4] Property Code	[5] Property Name	[6] Well Number
21994	SAN JUAN 30-4 UNIT	106H

[7] OGRID No.	[8] Operator Name	[9] Elevation
162928	ENERGEN RESOURCES CORPORATION	7321'

[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
A	17	30N	4W		931'	NORTH	1055'	EAST	RIO ARRIBA

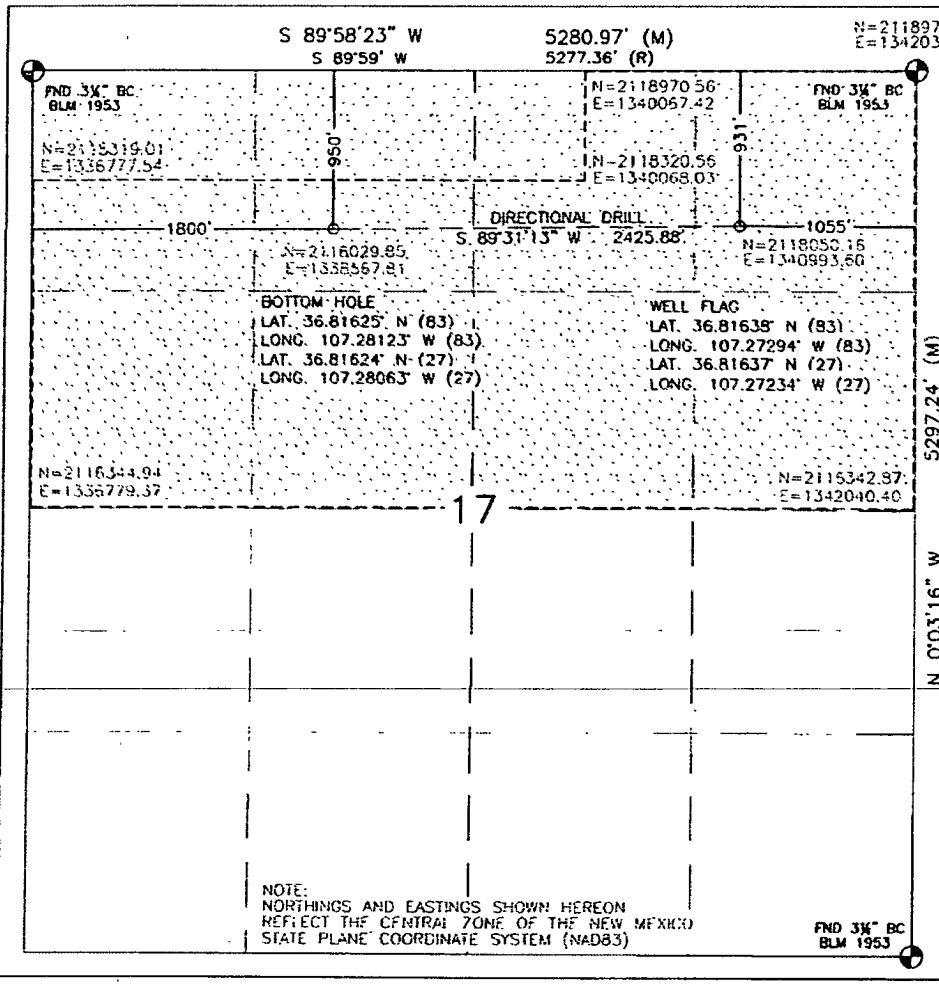
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	17	30N	4W		950'	NORTH	1800'	WEST	RIO ARRIBA

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

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 — Date: 6-22-09

Andrew Soto
Printed Name

asoto@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

MARCH 24, 2009
Date of Survey

Signature and Seal of Professional Surveyor:

DAVID RUSSELL
Certificate Number 10201

6/28/2011

ENERGEN RESOURCES

OPERATIONS PLAN

WELL NAME.....San Juan 30-4 Unit #106H
JOB TYPE.....S-Shape OPE FTC
DEPT.....Drilling and Completions
PREPARED BY.....Andrew Soto

GENERAL INFORMATION

Surface Location	931 FNL 1055 FEL
S-T-R	(A) Sec. 17, T30N, R04W
Bottom Hole Location	950' FNL 1,800' FWL
S-T-R	(C) Sec. 17, T30N, R04W
County, State	Rio Arriba, New Mexico
Elevations	7321' GL
Total Depth	5,208' +/- (MD); 4,192' (TVD)
Formation Objective	Basin Fruitland Coal

FORMATION TOPS

San Jose	Surface
Nacimiento	2,699' (TVD), 3,156' MD
Ojo Alamo Ss	3,436' (TVD), 4,270' MD
Kirtland Sh	3,679' (TVD), 4,636' MD
Fruitland Fm	3,857' (TVD), 4,860' MD
Top Target Coal	4,026' (TVD), 5,041' MD
Base Target Coal	4,042' (TVD), 5,057' MD
Total Depth	**4,192' (TVD), 5,209' MD**

DRILLING

Surface: 12 1/4" wellbore will be drilled with a fresh water mud system (spud mud).
Production: 8 3/4" wellbore will be drilled with a LSD mud system. Weighting materials will be drill cuttings and if needed barite. Mud density is expected to range from 8.4 ppg to 9.0 ppg. Only acid soluble LCM may be used in production section. Anticipated BHP can be as high as 1,100 psi.

Projected KOP is 1,406' TVD with 8.0°/100' doglegs.

Blowout Control Specifications:
A 3,000 psi minimum double ram or annulus BOP stack will be used following nipple up of casing head. A 2" nominal, 2,000 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 2,000 psi for 15 min.**

Logging Program:
Open hole logs: Schlumberger Platform Express
Mudlogs: 3,389' TVD, 4,200' MD to TD
Surveys: Surface to KOP every 500' and a minimum of every 200' for directional.

6/28/2011

ENERGEN RESOURCES

CASING, TUBING & CASING EQUIPMENT

String	Start Depth	End Depth	Wellbore	Size	Wt	Grade
Surface	0	500	12 1/4"	9 5/8"	32.3 lb/ft	H-40 ST&C
Production TVD	0 0	5,209' 4,192'	8 3/4"	7"	23 lb/ft	J-55 LT&C
Tubing	0	5,100'	None	2 3/8"	4.7 lb/ft	J-55

Surface Casing: Texas Pattern Guide Shoe on bottom of first joint and an insert float valve on top of first joint. Casing centralization with a minimum of 3 standard bow spring centralizers to achieve optimal standoff.

Production Casing: Self fill float shoe with self fill float collar on bottom and top of first joint. Casing centralization with double bow spring centralizers to optimize standoff. DV tool set at 3,400' MD for cement operations!

WELLHEAD

~~11" 3,000 x 9 5/8" weld/slip on casing head. 9 5/8" x 7"x 2 3/8" 5,000 psi Flanged Wellhead .~~

CEMENTING

Surface Casing: 266 sks Type V with 2.0 % $CaCl_2$ and ¼ #/sk Flocele (15.6 ppg, 1.18 ft^3/sk 314 ft^3 of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test surface casing to 750 psi for 30 min.

Production Casing: Circulate hole at least 1-1/2 hole volumes of mud and reduce funnel viscosity to aid in hole cleanout. Stage 1 to begin at 3,400' – 5,209' MD.

First Stage: Pre-flush with 5 bbls H20 + 20 bbls Mud Flush + 5 bbls H20 and follow with Lead with 170 sks San Juan PRB II with 5#/sk Gilsonite and ¼ #/sk Flocele (12.3 ppg, 2.24 ft^3/sk, 381 ft^3) and a tail of 50 sks San Juan PRB II with 5#/sk Gilsonite and ¼ #/sk Flocele (13.5 ppg, 1.81 ft^3/sk, 90.5 ft^3). Circulate 100% excess lead off of stage tool. Circulated 4-5 hours between stages at time plug down on first stage.

Second Stage: 456 sks of San Juan PRB II with 5#/sk Gilsonite and ¼ #/sk Flocele (12.3 ppg, 2.24 ft^3/sk, 1,021 ft^3) of slurry. Circulate 100% excess to surface.

Set slips with full string weight. Completions will test casing to 1,200 psi for 30 min. (See COA)
If cement does not circulate, run temperature survey in 8 hrs. to determine TOC.

OTHER INFORMATION

1) This well will be hydraulically fractured.
2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control.
3) If high reservoir pressures or water flows are encountered slurry design may need to be deviated to from those listed above to satisfy wellbore and formation conditions. The 30-4 Unit #62 well in the NW/4 of section 18 will be shut in during drilling operations.
4) No abnormal temperatures or pressures are anticipated.
5) This gas is dedicated.

Energen Resources

Rio Arriba County
Sec17 T30N-R04W
San Juan 30-4 Unit #106H

Wellbore #1

Plan: Design #3

Standard Planning Report

27 June, 2011

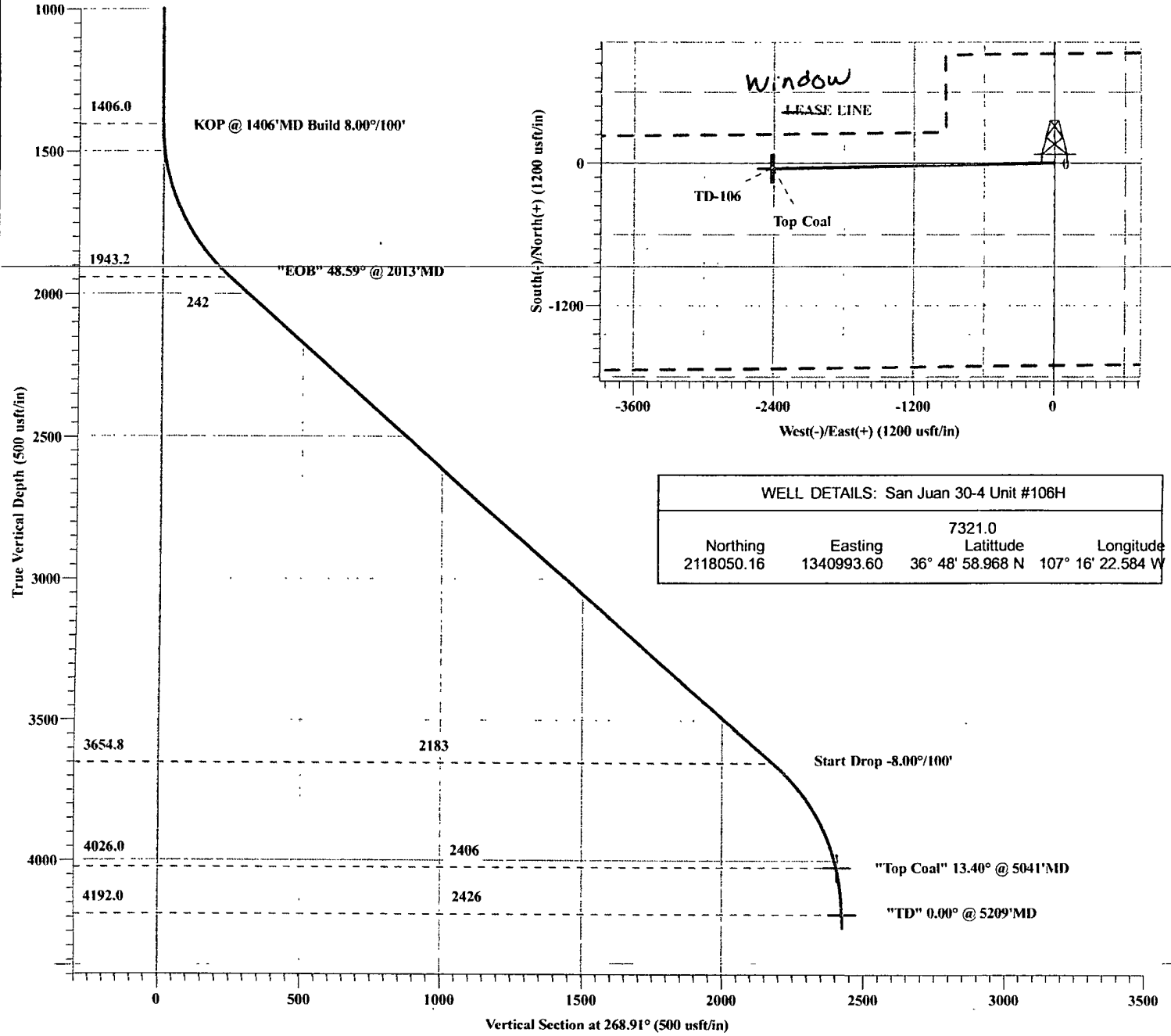
Energen Resources

San Juan 30-4 Unit #106H
Sec17 T30N-R04W
Rio Arriba, New Mexico
GL: 7321' KB: 13'

PATHFINDER®
A Schlumberger Company

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Top Coal	4026.0	-45.9	-2405.9	2118030 01	1338587.31	Point
TD-106	4192.0	-46.3	-2425.4	2118029.85	1338567.81	Point



WELL DETAILS: San Juan 30-4 Unit #106H			
		7321.0	
Northing	Easting	Latittude	Longitude
2118050.16	1340993.60	36° 48' 58.968 N	107° 16' 22.584 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0 0	0 00	0.00	0.0	0 0	0 0	0 00	0.00	0.0	
1406 0	0 00	0.00	1406 0	0.0	0 0	0 00	0 00	0.0	
2013 4	48 59	268.91	1943.2	-4.6	-242.4	8 00	268 91	242 5	
4601 3	48 59	268 91	3654.8	-41.6	-2183 0	0 00	0.00	2183 4	
5208.6	0 00	0.00	4192 0	-46 3	-2425 4	8.00	180.00	2425.9	TD-106

Plan: Design #3 (San Juan 30-4 Unit #106H/Wellbore #1)

Created By: Frank C. Scardino Date: 6/27/2011

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well San Juan 30-4 Unit #106H
Company:	Energen Resources	**TVD Reference:**	WELL @ 7334.0usft (Original Well Elev)
Project:	Rio Arriba County	**MD Reference:**	WELL @ 7334.0usft (Original Well Elev)
Site:	Sec17 T30N-R04W	**North Reference:**	True
Well:	San Juan 30-4 Unit #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Project	Rio Arriba County		
Map System:	US State Plane 1983	**System Datum:**	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	Sec17 T30N-R04W				
Site Position:		**Northing:**	2,118,050 16 usft	**Latitude:**	36° 48' 58 968 N
From:	Map	**Easting:**	1,340,993 60 usft	**Longitude:**	107° 16' 22.584 W
Position Uncertainty:	0 0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	-0 61 °

Well	San Juan 30-4 Unit #106H					
Well Position	**+N/-S**	0 0 usft	**Northing:**	2,118,050 16 usft	**Latitude:**	36° 48' 58 968 N
	+E/-W	0 0 usft	**Easting:**	1,340,993 60 usft	**Longitude:**	107° 16' 22.584 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	7,321 0 usft

Wellbore	Wellbore #1				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	06/27/11	9 69	63 62	50,834

Design	Design #3				
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	268.91	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0 0	0 00	0.00	0.0	0 0	0 0	0.00	0.00	0.00	0 00	
1,406 0	0.00	0.00	1,406 0	0.0	0 0	0 00	0 00	0.00	0.00	
2,013 4	48.59	268.91	1,943 2	-4.6	-242 4	8 00	8 00	0 00	268.91	
4,601 3	48 59	268 91	3,654 8	-41 6	-2,183 0	0 00	0 00	0 00	0 00	
5,208.6	0.00	0 00	4,192.0	-46.3	-2,425 4	8 00	-8 00	0 00	180.00	TD-106

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well San Juan 30-4 Unit #106H
Company:	Energen Resources	**TVD Reference:**	WELL @ 7334.0usft (Original Well Elev)
Project:	Rio Arriba County	**MD Reference:**	WELL @ 7334.0usft (Original Well Elev)
Site:	Sec17 T30N-R04W	**North Reference:**	True
Well:	San Juan 30-4 Unit #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,406 0	0 00	0 00	1,406 0	0 0	0 0	0 0	0 00	0 00	0 00
KOP @ 1406'MD Build 8.00°/100'									
1,450.0	3.52	268 91	1,450 0	0 0	-1 4	1.4	8 00	8.00	0 00
1,500 0	7 52	268 91	1,499 7	-0 1	-6 2	6 2	8 00	8 00	0 00
1,550.0	11.52	268 91	1,549 0	-0.3	-14 4	14.4	8 00	8 00	0 00
1,600 0	15.52	268 91	1,597 6	-0 5	-26 1	26 1	8 00	8 00	0 00
1,650 0	19 52	268 91	1,645 3	-0 8	-41 2	41.2	8.00	8 00	0 00
1,700 0	23.52	268 91	1,691 8	-1.1	-59.5	59.5	8.00	8.00	0 00
1,750 0	27 52	268 91	1,736 9	-1.5	-81 0	81.0	8 00	8.00	0.00
1,800 0	31 52	268.91	1,780 4	-2 0	-105 7	105.7	8 00	8 00	0.00
1,850.0	35.52	268.91	1,822 1	-2.5	-133 3	133.3	8.00	8.00	0 00
1,900 0	39 52	268 91	1,861.8	-3 1	-163.7	163.7	8.00	8 00	0.00
1,950 0	43 52	268.91	1,899 2	-3 8	-196 8	196 9	8 00	8 00	0 00
2,000 0	47 52	268 91	1,934.2	-4 4	-232 5	232.5	8.00	8 00	0 00
2,013 4	48 59	268 91	1,943.2	-4 6	-242 4	242.5	8 00	8 00	0 00
"EOB" 48.59° @ 2013'MD									
2,100 0	48.59	268 91	2,000 4	-5 9	-307 4	307 4	0 00	0 00	0 00
2,200 0	48 59	268.91	2,066.6	-7 3	-382 4	382 4	0.00	0 00	0 00
2,300 0	48 59	268 91	2,132 7	-8 7	-457.4	457.4	0 00	0.00	0 00
2,400 0	48 59	268 91	2,198 9	-10.2	-532 3	532 4	0 00	0 00	0 00
2,500 0	48.59	268 91	2,265.0	-11.6	-607 3	607 4	0 00	0 00	0 00
2,600 0	48 59	268.91	2,331.2	-13 0	-682 3	682.4	0.00	0 00	0.00
2,700 0	48.59	268 91	2,397 3	-14 4	-757 3	757 4	0.00	0 00	0 00
2,800 0	48 59	268 91	2,463 4	-15.9	-832 3	832 4	0 00	0 00	0 00
2,900.0	48.59	268.91	2,529.6	-17.3	-907.3	907.4	0.00	0.00	0 00
3,000 0	48 59	268.91	2,595.7	-18 7	-982 3	982 4	0 00	0 00	0 00
3,100 0	48.59	268 91	2,661 9	-20.2	-1,057 3	1,057 4	0 00	0 00	0 00
3,200 0	48 59	268 91	2,728 0	-21.6	-1,132 2	1,132 4	0 00	0 00	0 00
3,300 0	48 59	268.91	2,794 2	-23.0	-1,207 2	1,207 4	0 00	0 00	0.00
3,400.0	48 59	268 91	2,860 3	-24 5	-1,282.2	1,282.4	0 00	0 00	0.00
3,500.0	48.59	268.91	2,926 4	-25.9	-1,357 2	1,357 5	0 00	0 00	0 00
3,600 0	48 59	268 91	2,992.6	-27.3	-1,432 2	1,432 5	0 00	0 00	0 00
3,700 0	48 59	268.91	3,058 7	-28 7	-1,507.2	1,507 5	0 00	0 00	0.00
3,800 0	48 59	268 91	3,124 9	-30 2	-1,582 2	1,582 5	0 00	0 00	0 00
3,900 0	48 59	268.91	3,191.0	-31.6	-1,657 2	1,657.5	0 00	0 00	0.00
4,000 0	48.59	268.91	3,257.2	-33.0	-1,732 1	1,732.5	0 00	0 00	0 00
4,100 0	48.59	268 91	3,323.3	-34 5	-1,807.1	1,807 5	0 00	0 00	0 00
4,200 0	48 59	268 91	3,389 4	-35 9	-1,882 1	1,882 5	0 00	0.00	0 00
4,300 0	48 59	268.91	3,455 6	-37.3	-1,957 1	1,957.5	0.00	0.00	0 00
4,400 0	48 59	268.91	3,521 7	-38 8	-2,032 1	2,032 5	0.00	0 00	0 00
4,500 0	48 59	268 91	3,587.9	-40 2	-2,107 1	2,107.5	0 00	0 00	0.00
4,601 3	48 59	268.91	3,654 8	-41.6	-2,183 0	2,183 4	0 00	0 00	0.00
Start Drop -8.00°/100'									
4,650 0	44 69	268 91	3,688 3	-42 3	-2,218.4	2,218.8	8 00	-8 00	0.00
4,700.0	40 69	268.91	3,725.1	-43 0	-2,252 3	2,252.7	8 00	-8.00	0.00
4,750.0	36.69	268 91	3,764.1	-43 6	-2,283 6	2,284 0	8.00	-8.00	0 00
4,800 0	32.69	268.91	3,805 2	-44.1	-2,312 0	2,312.4	8.00	-8 00	0 00
4,850 0	28 69	268.91	3,848 2	-44 6	-2,337 5	2,337 9	8 00	-8 00	0 00
4,900.0	24 69	268 91	3,892.8	-45.0	-2,360 0	2,360 4	8 00	-8.00	0 00
4,950 0	20 69	268 91	3,938 9	-45.4	-2,379.2	2,379.7	8 00	-8.00	0.00
5,000.0	16 69	268 91	3,986 3	-45.7	-2,395.3	2,395 7	8 00	-8 00	0 00
5,041 1	13 40	268 91	4,026 0	-45.9	-2,405 9	2,406.4	8 00	-8 00	0.00
"Top Coal" 13.40° @ 5041'MD									

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well San Juan 30-4 Unit #106H
Company:	Energen Resources	**TVD Reference:**	WELL @ 7334.0usft (Onginal Well Elev)
Project:	Rio Arriba County	**MD Reference:**	WELL @ 7334 0usft (Original Well Elev)
Site:	Sec17 T30N-R04W	**North Reference:**	True
Well:	San Juan 30-4 Unit #106H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,050 0	12.69	268 91	4,034 7	-45 9	-2,407.9	2,408 4	8 00	-8.00	0.00
5,100 0	8 69	268 91	4,083 8	-46 1	-2,417 2	2,417 7	8 00	-8.00	0.00
5,150.0	4 69	268 91	4,133 4	-46 2	-2,423 0	2,423 5	8.00	-8 00	0.00
5,200 0	0 69	268 91	4,183 4	-46.3	-2,425 4	2,425.8	8 00	-8 00	0 00
5,208.6	0 00	268.91	4,192 0	-46 3	-2,425 4	2,425 9	8 00	-8 00	0 00
"TD" 0.00° @ 5209'MD									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Top Coal - plan hits target center - Point	0.00	0 00	4,026.0	-45.9	-2,405 9	2,118,030 01	1,338,587.31	36° 48' 58 513 N	107° 16' 52 172 W
TD-106 - plan hits target center - Point	0.00	0.00	4,192 0	-46 3	-2,425 4	2,118,029 85	1,338,567 81	36° 48' 58 510 N	107° 16' 52 412 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,406 0	1,406 0	0 0	0 0	KOP @ 1406'MD Build 8.00°/100'
2,013 4	1,943 2	-4 6	-242 4	"EOB" 48 59° @ 2013'MD
4,601 3	3,654 8	-41 6	-2,183.0	Start Drop -8 00°/100'
5,041 1	4,026 0	-45 9	-2,405.9	"Top Coal" 13 40° @ 5041'MD
5,208 6	4,192 0	-46 3	-2,425 4	"TD" 0 00° @ 5209'MD

DRILLING CONDITIONS OF APPROVAL

Operator:	**Energen Resources**
Lease No.:	**NMSF-079485-B**
Well Name:	**San Juan 30-4 Unit #106H**
Well Location:	**Sec.17, T30N, R4W; 931' FNL & 1055' FEL**

Refer to Onshore Order 2 III.B.1.h

Pressure test the 7" production casing to a minimum of 1500 psi for 30 minutes.

After hour contact: Troy Salyers 505-360-9815