

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

MAY 16 2011

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.

5. Lease Serial No.

NMSF 079483

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.

San Juan 30-4 Unit #102H

9. API Well No.

30-039-31006

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

11. County or Parish, State

Rio Arriba NM

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)

939' FNL 979' FEL Sec. 17-T30N-R04W (A)

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

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☐ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☒ Other Change of Plans

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 change the plans of the subject well. Drilling operations were halted when the drill pipe got stuck at 5,523'. Several attempts were made to unstuck the pipe, until the drill string parted in the open hole at 4,967'. A CIBP has been set in the 7" casing at 4,792'. It is now intended to perf and frac the coal behind the 7" casing string down a frac string.

Verbal from Wayne Townsend (BLM) 5/9/2011

Verbal from Charlie Perrin (OCD) 5/11/2011

RCVD MAY 27 '11

OIL CONS. DIV.

DIST. 3

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

CONDITIONS OF APPROVAL

Adhere to previously issued stipulations.

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

Name (Printed/Typed)

Andrew Soto

Title - Drilling Engineer

Signature

Date 5/16/11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Troy L. Salyers

Title

Petroleum Engineer

Date

5/23/2011

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

EFO

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

RECEIVED

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

Armington Field Office
Bureau of Land Management

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31006	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 21994	⁵ Property Name San Juan 30-4	⁶ Well Number 102H
⁷ OGRID No. 162928	⁸ Operator Name ENERGEN RESOURCES CORPORATION	⁹ Elevation 7,319'

¹⁰ Surface Location

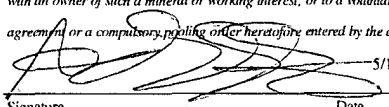
UL or lot no. A	Section 17	Township 30N	Range 04W	Lot Idn	Feet from the 939'	North/South line North	Feet from the 979'	East/West line East	County Rio Arriba
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	-----------------------	------------------------	----------------------

¹¹ Bottom Hole Location If Different From Surface

UL or lot no. P	Section 17	Township 30N	Range 04W	Lot Idn	Feet from the 501'	North/South line NORTH	Feet from the 845'	East/West line East	County Rio Arriba
--------------------	---------------	-----------------	--------------	---------	-----------------------	---------------------------	-----------------------	------------------------	----------------------

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
-------------------------------	-------------------------------	----------------------------------	-------------------------

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.

8	BHL 501' 329'	845' 825'	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 5/16/11
			Andrew Soto Printed Name Top of Coal
17	SHL 939'	979'	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 Original Survey Conducted and Recorded By: David R. Russell
			10201 Certificate Number



Energen Resources

Carson Nat'l Forest - S17, T30N, R4W

American Mesa

San Juan 30-4 Unit #102H

OH

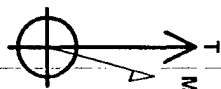
Survey: MWD

Energen Planning Report

10 May, 2011



A Schlumberger Company



Azinuths to True North
Magnetic North: 9.72°
Magnetic Field
Strength: 50866.8nT
Dip Angle: 63.62°
Date: 2011/04/03
Model: IGRF2010

PROJECT DETAILS: Carson Nat'l Forest - S17, T30N, R4W
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Central Zone
System Datum: Mean Sea Level
Local North: True

A Schlumberger Company

Project: Carson Nat'l Forest - S17, T30N, R4W
Site: American Mesa
Well: San Juan 30-4 Unit #102H
Wellbore: OH
Plan: Plan #1 (San Juan 30-4 Unit #102H/OH)

EOW

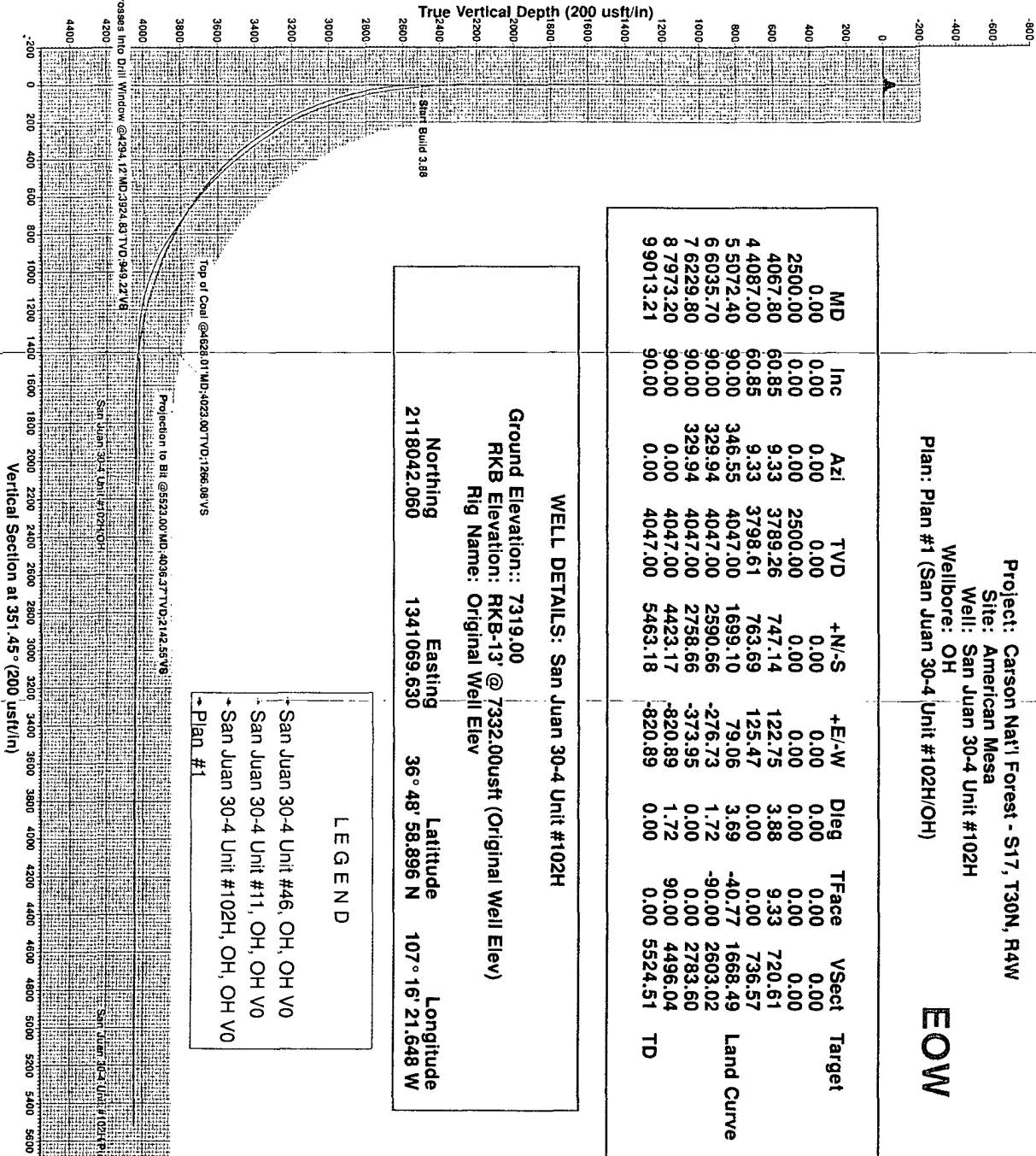
MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	Vsect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	
4067.80	60.85	9.33	3799.26	747.14	0.00	3.88	720.61		
44087.00	60.85	9.33	3798.61	763.69	125.47	0.00	736.57		
55072.40	90.00	346.55	4047.00	1699.10	79.06	3.69	-40.77	1668.49	Land Curve
66035.70	90.00	329.94	4047.00	2590.66	-276.73	1.72	-90.00	2603.02	
76229.80	90.00	329.94	4047.00	2758.66	-373.95	0.00	0.00	2783.60	
87973.20	90.00	0.00	4047.00	4423.17	-820.89	1.72	90.00	4496.04	
99013.21	90.00	0.00	4047.00	5463.18	-820.89	0.00	0.00	5524.51	TD

WELL DETAILS: San Juan 30-4 Unit #102H

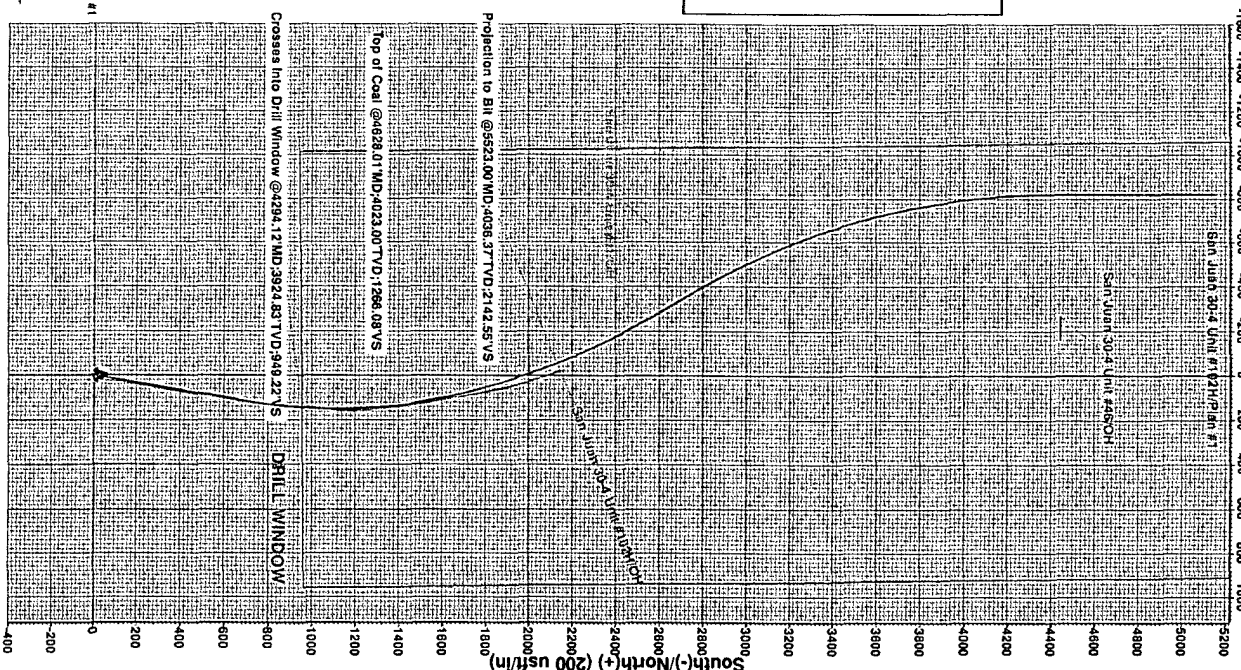
Ground Elevation:: 7319.00
RKB Elevation: RKB-13' @ 7332.00ustf (Original Well Elev)
Rig Name: Original Well Elev
Northing 2118042.060 Easting 1341069.630
Latitude 36° 48' 58.896 N Longitude 107° 16' 21.648 W

LEGEND

- San Juan 30-4 Unit #46, OH, OH VO
- San Juan 30-4 Unit #11, OH, OH VO
- San Juan 30-4 Unit #102H, OH, OH VO
- Plan #1



West(-)/East(+) (200 usft/in)



Company: Energen Resources
Project: Carson Nat'l Forest - S17, T30N, R4W
Site: American Mesa
Well: San Juan 30-4 Unit #102H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well San Juan 30-4 Unit #102H
TVD Reference: RKB-13' @ 7332.00usft (Original Well Elev)
MD Reference: RKB-13' @ 7332.00usft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project	Carson Nat'l Forest - S17, T30N, R4W		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Central Zone		

Site	American Mesa		
Site Position:		Northing:	2,118,042.06usft
From:	Map	Easting:	1,341,069.63usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	36° 48' 58.896 N
		Longitude:	107° 16' 21.648 W
		Grid Convergence:	-0.61 °

Well	San Juan 30-4 Unit #102H		
Well Position	+N/-S	0.00 usft	Northing: 2,118,042.06 usft
	+E/-W	0.00 usft	Easting: 1,341,069.63 usft
Position Uncertainty		3.00 usft	Wellhead Elevation: usft
			Latitude: 36° 48' 58.896 N
			Longitude: 107° 16' 21.648 W
			Ground Level: 7,319.00usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	04/03/11	9.72	63.62	50,857

Design	OH				
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	359.45	

Survey Program	Date 05/10/11				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
277.00	5,523.00	MWD (OH)	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	0.00
277.00	0.09	48.84	277.00	0.14	0.16	0.03	0.14	0.14
370.00	0.00	96.24	370.00	0.19	0.22	0.10	0.19	0.19
462.00	0.09	264.16	462.00	0.18	0.15	0.10	0.18	0.18
553.00	0.26	1.76	553.00	0.38	0.08	0.31	0.38	0.38
647.00	0.09	279.70	647.00	0.61	0.02	0.28	0.61	0.61
738.00	0.09	139.53	738.00	0.57	-0.01	0.19	0.57	0.57
829.00	0.18	162.67	829.00	0.38	0.08	0.11	0.37	0.37
919.00	0.26	227.14	919.00	0.10	-0.03	0.27	0.10	0.10
1,007.00	0.44	106.26	1,007.00	-0.13	0.15	0.70	-0.13	-0.13
1,097.00	0.18	169.45	1,097.00	-0.36	0.51	0.44	-0.37	-0.37
1,187.00	0.09	113.99	1,187.00	-0.53	0.60	0.17	-0.54	-0.54

Company: Energen Resources
Project: Carson Nat'l Forest - S17, T30N, R4W
Site: American Mesa
Well: San Juan 30-4 Unit #102H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well San Juan 30-4 Unit #102H
TVD Reference: RKB-13' @ 7332.00usft (Original Well Elev)
MD Reference: RKB-13' @ 7332.00usft (Original Well Elev)
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)
1,279.00	0.09	101.86	1,279.00	-0.58	0.74	0.02	-0.58
1,371.00	0.00	209.18	1,371.00	-0.59	0.81	0.10	-0.60
1,466.00	0.09	292.82	1,466.00	-0.56	0.74	0.09	-0.57
1,562.00	0.09	233.13	1,562.00	-0.58	0.61	0.09	-0.58
1,656.00	0.18	152.80	1,656.00	-0.75	0.62	0.20	-0.76
1,751.00	0.09	214.68	1,751.00	-0.95	0.64	0.17	-0.95
1,847.00	0.09	297.91	1,847.00	-0.97	0.53	0.12	-0.98
1,942.00	0.09	104.72	1,942.00	-0.96	0.54	0.19	-0.96
2,037.00	0.09	18.68	2,036.99	-0.91	0.64	0.13	-0.91
2,133.00	0.09	220.38	2,132.99	-0.89	0.61	0.18	-0.90
2,230.00	1.49	111.28	2,229.98	-1.41	1.74	1.57	-1.43
2,261.00	2.99	109.63	2,260.96	-1.83	2.87	4.84	-1.85
2,294.00	3.52	90.29	2,293.91	-2.12	4.70	3.67	-2.17
2,325.00	3.78	61.95	2,324.85	-1.65	6.55	5.82	-1.71
2,357.00	4.31	38.15	2,356.77	-0.20	8.22	5.46	-0.28
2,389.00	4.84	26.45	2,388.67	1.95	9.57	3.35	1.86
2,420.00	5.10	23.29	2,419.55	4.39	10.70	1.22	4.29
2,452.00	5.54	21.52	2,451.41	7.13	11.83	1.47	7.02
2,484.00	6.24	20.70	2,483.24	10.19	13.01	2.20	10.07
2,516.00	6.86	21.83	2,515.04	13.60	14.33	1.98	13.46
2,548.00	7.21	20.36	2,546.79	17.25	15.74	1.23	17.10
2,579.00	7.39	19.41	2,577.54	20.96	17.08	0.70	20.79
2,611.00	7.74	16.91	2,609.26	24.96	18.39	1.50	24.78
2,643.00	8.18	14.18	2,640.96	29.23	19.58	1.81	29.04
2,675.00	8.53	9.24	2,672.62	33.78	20.51	2.49	33.58
2,706.00	9.06	3.93	2,703.25	38.48	21.05	3.13	38.28
2,738.00	9.94	1.83	2,734.81	43.76	21.31	2.96	43.55
2,770.00	10.90	1.32	2,766.29	49.54	21.47	3.01	49.33
2,802.00	11.96	1.29	2,797.65	55.88	21.61	3.31	55.67
2,834.00	13.10	2.32	2,828.89	62.82	21.84	3.63	62.61
2,866.00	14.68	4.39	2,859.95	70.49	22.29	5.18	70.27
2,898.00	16.18	5.78	2,890.80	78.97	23.05	4.83	78.74
2,929.00	17.06	6.71	2,920.50	87.78	24.02	2.97	87.55
2,961.00	17.76	6.71	2,951.04	97.29	25.14	2.19	97.04
2,993.00	18.73	7.17	2,981.43	107.23	26.35	3.06	106.98
3,025.00	19.61	7.91	3,011.65	117.65	27.73	2.85	117.38
3,057.00	20.49	8.00	3,041.71	128.51	29.25	2.75	128.23
3,089.00	21.63	7.62	3,071.57	139.91	30.81	3.59	139.61
3,121.00	23.04	7.60	3,101.17	151.96	32.42	4.41	151.64
3,152.00	24.89	7.83	3,129.50	164.44	34.11	5.98	164.10
3,184.00	26.64	8.21	3,158.32	178.21	36.05	5.49	177.86
3,214.00	27.96	8.77	3,184.97	191.82	38.09	4.48	191.45
3,246.00	29.02	9.30	3,213.10	206.89	40.48	3.41	206.50
3,277.00	30.60	9.45	3,240.00	222.10	42.99	5.10	221.68

Company: Energen Resources
Project: Carson Nat'l Forest - S17, T30N, R4W
Site: American Mesa
Well: San Juan 30-4 Unit #102H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well San Juan 30-4 Unit #102H
TVD Reference: RKB-13' @ 7332.00usft (Original Well Elev)
MD Reference: RKB-13' @ 7332.00usft (Original Well Elev)
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)
3,309.00	32.01	9.30	3,267.34	238.50	45.70	4.41	238.06
3,341.00	33.24	9.00	3,294.29	255.53	48.44	3.88	255.06
3,373.00	35.26	9.50	3,320.74	273.31	51.34	6.37	272.81
3,405.00	37.37	9.54	3,346.52	292.00	54.48	6.59	291.47
3,437.00	37.64	9.19	3,371.91	311.22	57.65	1.07	310.66
3,469.00	37.81	9.58	3,397.22	330.54	60.84	0.92	329.94
3,501.00	38.16	9.41	3,422.44	349.96	64.09	1.14	349.34
3,533.00	38.51	9.47	3,447.54	369.54	67.34	1.10	368.88
3,564.00	39.22	9.42	3,471.68	388.73	70.54	2.29	388.04
3,596.00	39.83	8.74	3,496.36	408.84	73.75	2.34	408.12
3,628.00	40.54	8.72	3,520.81	429.25	76.88	2.22	428.50
3,660.00	41.68	8.30	3,544.92	450.06	79.99	3.67	449.27
3,692.00	43.44	8.01	3,568.49	471.48	83.06	5.53	470.67
3,724.00	45.02	8.01	3,591.41	493.58	86.17	4.94	492.74
3,755.00	46.52	8.42	3,613.04	515.57	89.35	4.93	514.69
3,787.00	47.92	8.13	3,634.77	538.81	92.73	4.43	537.90
3,819.00	49.15	8.27	3,655.96	562.54	96.15	3.86	561.60
3,851.00	50.12	8.57	3,676.68	586.66	99.72	3.11	585.69
3,883.00	51.88	8.70	3,696.82	611.25	103.45	5.51	610.24
3,915.00	53.38	8.67	3,716.24	636.39	107.29	4.69	635.34
3,947.00	54.08	8.21	3,735.17	661.91	111.08	2.48	660.82
3,978.00	54.43	7.70	3,753.28	686.83	114.56	1.75	685.70
4,010.00	54.52	6.92	3,771.88	712.66	117.88	2.00	711.50
4,042.00	54.78	6.46	3,790.39	738.58	120.92	1.43	737.39
4,079.00	55.66	5.78	3,811.50	768.80	124.15	2.82	767.58
4,106.00	56.19	5.35	3,826.63	791.05	126.32	2.37	789.82
4,132.00	55.40	4.63	3,841.24	812.48	128.19	3.80	811.22
4,164.00	56.28	4.63	3,859.21	838.87	130.33	2.75	837.59
4,196.00	57.33	4.75	3,876.73	865.56	132.52	3.30	864.25
4,228.00	58.65	5.22	3,893.69	892.59	134.88	4.31	891.26
4,260.00	61.91	5.61	3,909.55	920.25	137.50	10.24	918.90
4,292.00	64.72	5.88	3,923.92	948.69	140.37	8.81	947.31
4,294.12	64.78	5.88	3,924.83	950.60	140.56	3.03	949.22
Crosses Into Drill Window @4294.12'MD;3924.83'TVD;949.22'VS							
4,324.00	65.69	5.91	3,937.34	977.59	143.35	3.03	976.18
4,355.00	67.09	5.75	3,949.76	1,005.85	146.23	4.54	1,004.41
4,387.00	68.68	4.78	3,961.80	1,035.37	148.95	5.71	1,033.90
4,419.00	70.08	4.14	3,973.07	1,065.23	151.28	4.76	1,063.74
4,451.00	71.58	3.54	3,983.58	1,095.38	153.31	5.01	1,093.87
4,483.00	73.86	2.19	3,993.09	1,125.90	154.83	8.18	1,124.37
4,515.00	76.15	1.39	4,001.37	1,156.79	155.79	7.55	1,155.25
4,547.00	77.91	0.22	4,008.55	1,187.97	156.23	6.55	1,186.43
4,579.00	79.23	358.51	4,014.89	1,219.33	155.88	6.67	1,217.79
4,610.00	80.81	357.01	4,020.26	1,249.84	154.69	6.98	1,248.31

Company: Energen Resources
Project: Carson Nat'l Forest - S17, T30N, R4W
Site: American Mesa
Well: San Juan 30-4 Unit #102H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well San Juan 30-4 Unit #102H
TVD Reference: RKB-13' @ 7332.00usft (Original Well Elev)
MD Reference: RKB-13' @ 7332.00usft (Original Well Elev)
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)
4,628.01	81.70	356.12	4,023.00	1,267.60	153.62	6.96	1,266.08
Top of Coal @4628.01'MD;4023.00'TVD;1266.08'VS							
4,630.00	81.80	356.02	4,023.29	1,269.57	153.49	6.96	1,268.05
4,642.00	82.39	355.43	4,024.94	1,281.42	152.60	6.92	1,279.91
4,674.00	84.15	354.30	4,028.69	1,313.07	149.76	6.52	1,311.59
4,706.00	86.35	353.32	4,031.34	1,344.77	146.32	7.52	1,343.32
4,738.00	88.64	352.10	4,032.73	1,376.48	142.26	8.11	1,375.06
4,753.00	89.34	352.08	4,033.00	1,391.34	140.20	4.67	1,389.94
4,802.00	90.37	352.50	4,033.12	1,439.89	133.62	2.27	1,438.55
4,828.00	90.92	352.72	4,032.83	1,465.68	130.28	2.28	1,464.37
4,860.00	90.04	351.41	4,032.56	1,497.37	125.86	4.93	1,496.10
4,892.00	90.13	350.80	4,032.51	1,528.98	120.91	1.93	1,527.76
4,923.00	91.98	350.44	4,031.94	1,559.56	115.86	6.08	1,558.39
4,955.00	90.92	349.86	4,031.13	1,591.08	110.39	3.78	1,589.95
4,987.00	88.72	350.16	4,031.23	1,622.59	104.84	6.94	1,621.52
5,019.00	90.31	350.89	4,031.51	1,654.15	99.57	5.47	1,653.13
5,050.00	89.96	351.45	4,031.43	1,684.78	94.81	2.13	1,683.80
5,082.00	88.46	350.62	4,031.87	1,716.39	89.83	5.36	1,715.46
5,114.00	89.69	349.05	4,032.39	1,747.88	84.18	6.23	1,747.00
5,146.00	90.40	348.94	4,032.37	1,779.29	78.07	2.25	1,778.47
5,177.00	90.13	349.72	4,032.22	1,809.76	72.33	2.66	1,808.99
5,208.00	90.48	348.76	4,032.06	1,840.21	66.54	3.30	1,839.49
5,240.00	90.31	349.07	4,031.84	1,871.61	60.39	1.10	1,870.95
5,272.00	90.13	347.06	4,031.71	1,902.92	53.78	6.31	1,902.32
5,304.00	89.87	345.56	4,031.71	1,934.01	46.20	4.76	1,933.48
5,335.00	89.60	344.52	4,031.86	1,963.96	38.20	3.47	1,963.50
5,367.00	88.72	343.94	4,032.33	1,994.75	29.50	3.29	1,994.38
5,399.00	88.20	342.74	4,033.19	2,025.39	20.33	4.09	2,025.11
5,431.00	88.64	341.38	4,034.07	2,055.83	10.48	4.47	2,055.63
5,463.00	88.55	340.16	4,034.85	2,086.03	-0.06	3.82	2,085.94
5,523.00	88.55	340.16	4,036.37	2,142.45	-20.41	0.00	2,142.55

Projection to Bit @5523.00'MD;4036.37'TVD;2142.55'VS

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
4,294.12	3,924.83	950.60	140.56	Crosses Into Drill Window @4294.12'MD;3924.83'TVD;949.22'VS
4,628.01	4,023.00	1,267.60	153.62	Top of Coal @4628.01'MD;4023.00'TVD;1266.08'VS
5,523.00	4,036.37	2,142.45	-20.41	Projection to Bit @5523.00'MD;4036.37'TVD;2142.55'VS

Checked By: _____ Approved By: _____ Date: _____

Current

Circulated to Surface

Date: 5/13/11
Spud: 4/11/11
Complete: TBD
Elevation: 7,319' GL
KB Elevation : 7,332' KB

[illegible]

Stage 1: Cement with 314.45 cu ft

6 1/4" Hole
TD: 5,523' MD
PBD: 4,792' MD
TVD: 4,033'

1 Bit

Fruitland Coal: 4,023' TVD