

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

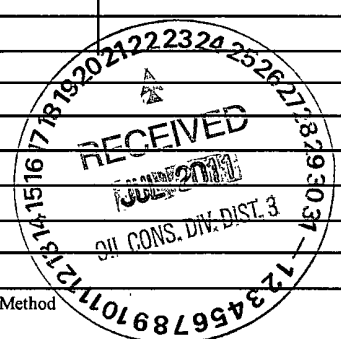
WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other						5. Lease Serial No. NMSF 079483			
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other						6. If Indian, Allottee or Tribe Name <i>Report to Lease</i>			
2. Name of Operator Energex Resources Corporation						7. Unit or CA Agreement Name and No. San Juan 30-4 Unit			
3. Address 2010 Afton Place, Farmington, NM 87401				3a. Phone No. (include area code) 505.325.6800		8. Lease Name and Well No. San Juan 30-4 Unit #102H			
4. Location of Well (Report location clearly and in accordance with Federal requirements) At surface 939' ENL, 979' FEL (A) NE/NE At top prod. interval reported below 329' FSL, 825' FEL (P) SE/SE At total depth 501' FSL 845' FEL (P) SE/SE						9. API Well No. 30-039-31006-0051			
14. Date Spudded 4/11/11						15. Date T.D. Reached 5/12/11		16. Date Completed ☐ D & A ☒ Ready to Prod. 7/15/11	
18. Total Depth: MD TVD		5523' 4036'		19. Plug Back T.D.: MD TVD		4792' 4033'		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) none						22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run ☒ No ☐ Yes (Submit report) Directional Survey? ☐ No ☒ Yes (Submit copy)			
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt (#ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12.25	9.625	32.3#		232'		107 sks		surface	7 bbls - circ
8.75	7.0	23#		4802'		650 sks		surface	80 bbls - circ
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2.375"	4600'								
25. Producing Intervals					26. Perforation Record				
Formation		Top	Bottom	Perforated Interval		Size	No Holes	Perf Status	
A) Basin Fruitland Coal		4630' MD		4742'-4722'		.42"	120	6 spf	
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval		Amount and Type of Material							
4742'-4722'		200 bbls 2% KCL w/bio-cide, 250 gallons 15% HCL							
28. Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
	7/15/11	2	→	0	100	2			
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	si 25	si 500	→						
28a. Production-Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
			→						

(See instructions and spaces for additional data on page 2)

NMOCD

4



ACCEPTED FOR RECORD

JUL 22 2011

FARMINGTON FIELD OFFICE
BY *SCW*

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (*Sold, used for fuel, vented, etc.*)

to be sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				San Jose	surface
				Nacimiento	2697' (TVD)
				Ojo Alamo Ss	3434' (TVD)
				Kirtland Sh	3677' (TVD)
				Fruitland Fm	3855' (TVD)
				Top target coal	4037' (TVD)
				Base target coal	4053' (TVD)

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Anna StottsTitle Regulatory Analyst

Signature

Date 7/20/11

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.



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



Azimuths to True North
Magnetic North: 9.72°

Magnetic Field
Strength: 50856.8nT
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	VSec	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	3789.26	747.14	122.75	3.88	9.33	720.61	
44087.00	60.85	9.33	3798.61	763.69	125.47	0.00	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

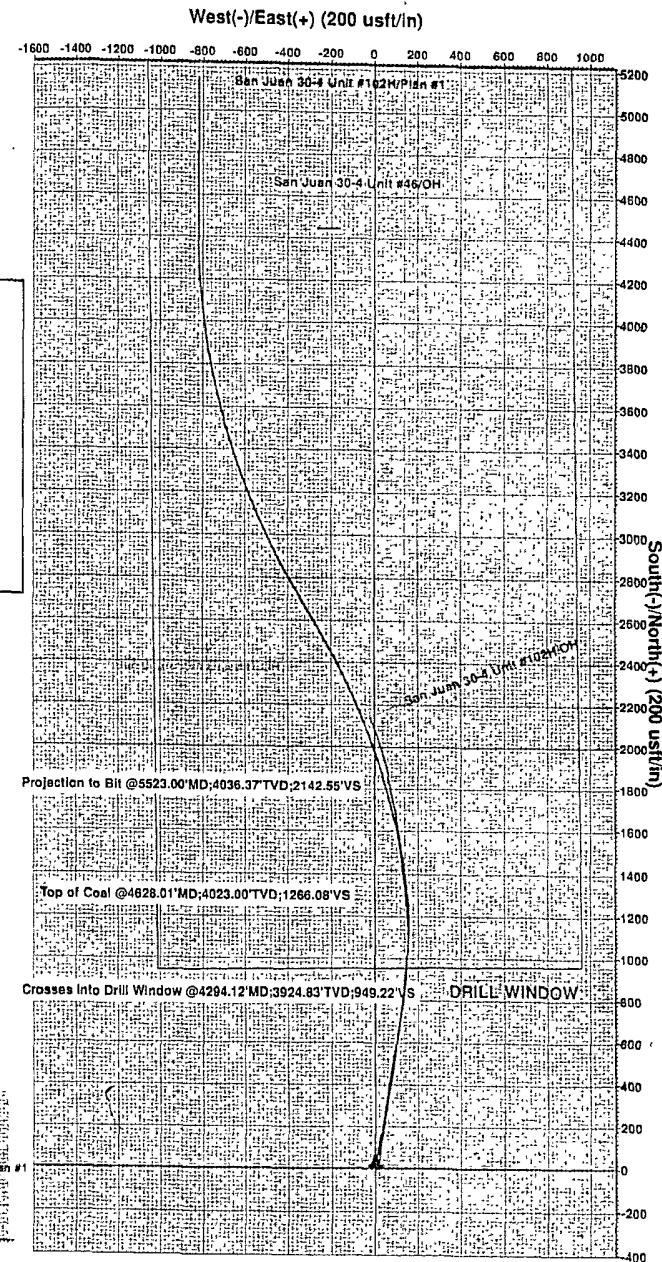
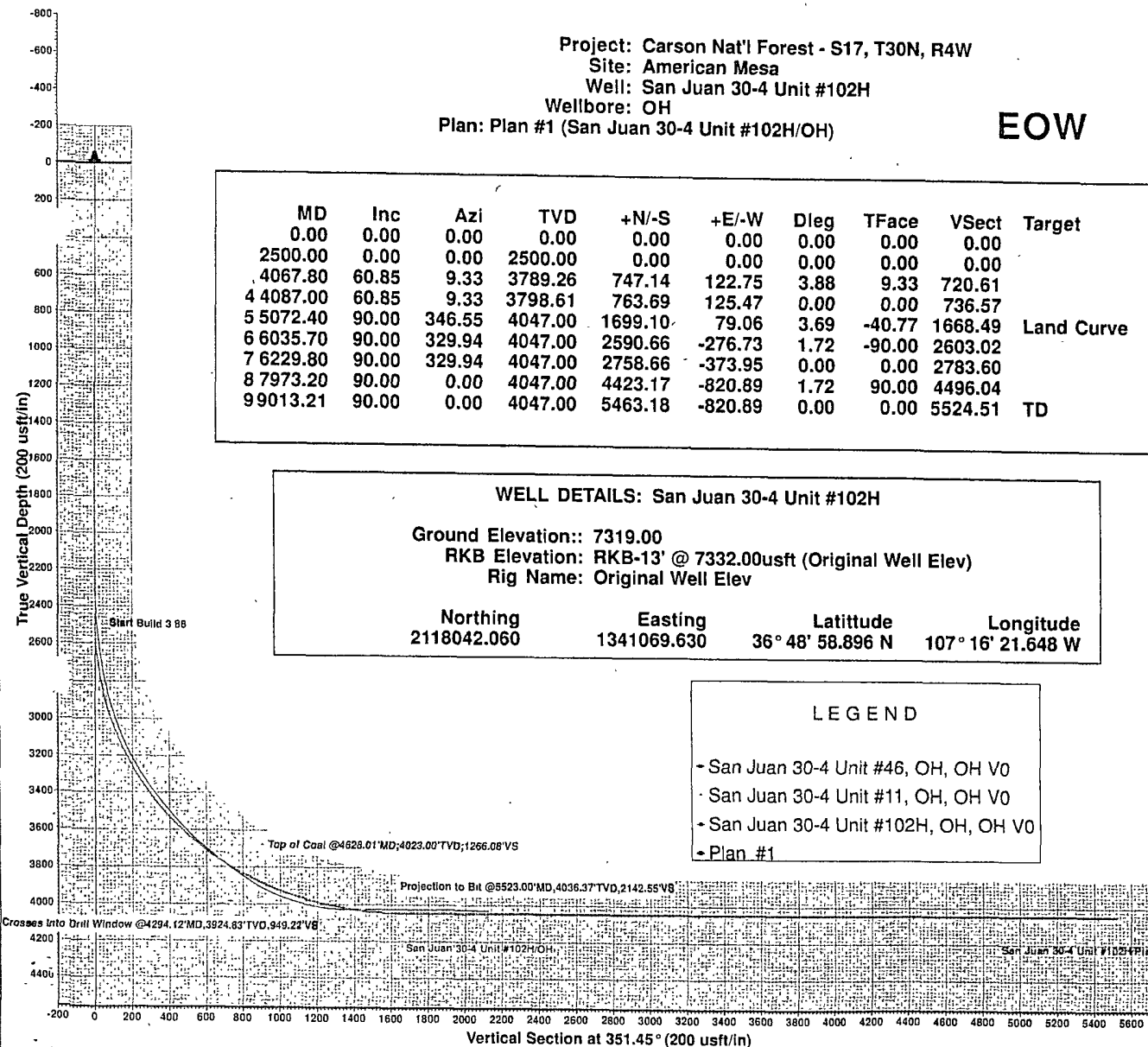
WELL DETAILS: San Juan 30-4 Unit #102H

Ground Elevation:: 7319.00
RKB Elevation: RKB-13' @ 7332.00usft (Original Well Elev)
Rig Name: Original Well Elev

Northing	Easting	Latitude	Longitude
2118042.060	1341069.630	36° 48' 58.896 N	107° 16' 21.648 W

LEGEND

- San Juan 30-4 Unit #46, OH, OH V0
- San Juan 30-4 Unit #11, OH, OH V0
- San Juan 30-4 Unit #102H, OH, OH V0
- Plan #1



Plan: Plan #1 (San Juan 30-4 Unit #102H/OH)

Created By: Nale, Bingham Date: 19.40, May 10 2011

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:	2,118,042.06 usft
From:	Map	Easting:	1,341,069.63 usft
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:	7,319.00 usft

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
277.00	0.09	48.84	277.00	0.14	0.16	0.03	0.14
370.00	0.00	96.24	370.00	0.19	0.22	0.10	0.19
462.00	0.09	264.16	462.00	0.18	0.15	0.10	0.18
553.00	0.26	1.76	553.00	0.38	0.08	0.31	0.38
647.00	0.09	279.70	647.00	0.61	0.02	0.28	0.61
738.00	0.09	139.53	738.00	0.57	-0.01	0.19	0.57
829.00	0.18	162.67	829.00	0.38	0.08	0.11	0.37
919.00	0.26	227.14	919.00	0.10	-0.03	0.27	0.10
1,007.00	0.44	106.26	1,007.00	-0.13	0.15	0.70	-0.13
1,097.00	0.18	169.45	1,097.00	-0.36	0.51	0.44	-0.37
1,187.00	0.09	113.99	1,187.00	-0.53	0.60	0.17	-0.54

Company: Energen Resources
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 Wellbore: OH
 Design: OH

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 MD Reference: RKB-13' @ 7332.00usft (Original Well Elev)
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 Survey Calculation Method: Minimum Curvature
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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
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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)
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: _____