

DISTRICT I

1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II

811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III

1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-6176 Fax: (505) 334-6176

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 478-3460 Fax: (505) 478-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate
District Office

☒ AS DRILLED
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35642		² Pool Code 19859		³ Pool Name Duffers Point-Gallup Dakota	
⁴ Property Code 314190		⁵ Property Name CROW MESA 24-08 2		⁶ Well Number 3H	
⁷ OGRID No. 162928		⁸ Operator Name ENERGEN RESOURCES CORPORATION		⁹ Elevation 7318'	

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	2	24N	8W		1419'	SOUTH	505'	EAST	SAN JUAN

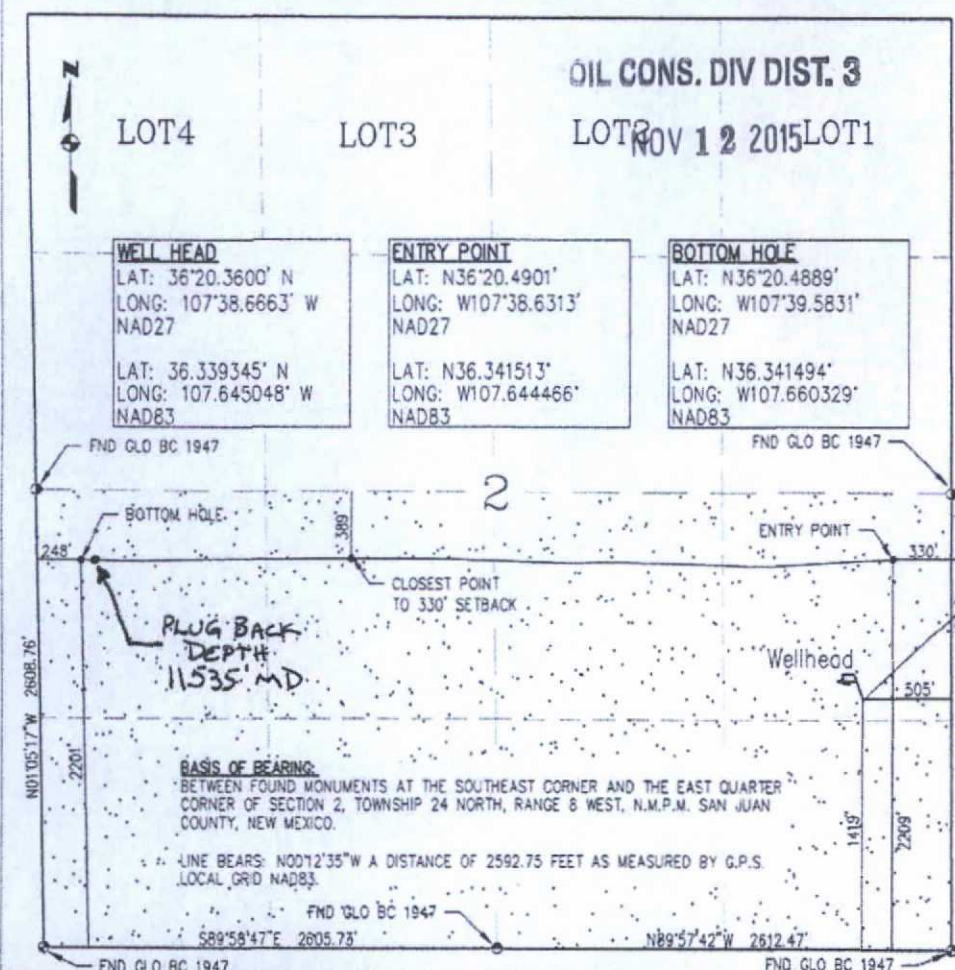
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	2	24N	8W		2201'	SOUTH	248'	WEST	SAN JUAN

¹² Dedicated Acres S/2 SEC 2 320 ACRES	¹³ Joint or Infill PROJECT AREA	¹⁴ Consolidation Code	¹⁵ Order No.
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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



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 is a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Anna Stoltz 11-12-15
Signature Date
Anna Stoltz
Printed Name
astoltz@energen.com
E-mail Address

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.

NOVEMBER 11 2015
Date of Survey
Glen W. Russell
Signature
GLEN W. RUSSELL
15703
LICENSED PROFESSIONAL SURVEYOR

GLEN W. RUSSELL
Certificate Number 15703



CONFIDENTIAL
TIGHT HOLE

D & D Services
P. O. Box 336
Flora Vista, NM 87415
505-215-4600 Fax: 505-334-9508
nowdrilling@yahoo.com

OIL CONS. DIV DIST. 3

NOV 12 2015

DEVIATION REPORT

CROW MESA

24-08-02 #3-H

S2-T24N-R8W

150' 0

305' 1 ½

To the best of my knowledge I believe these numbers to be true and accurate.

Glen Davis

Sworn to and subscribed before me

this 19 day of August, 2015.

Kia Cordell

My commission expires: 4-10-17





Scientific Drilling

Directional Survey Certification

2948 I-70 Business Loop
Grand Junction, CO 81504
(970)-245-9447 Fax (970)-245-9454

Operator	Energen
Well Name & No.	Crow Mesa 24-08 2 #3H
County & State	San Juan County, NM
SDI Job No.	331015HEF316828
Rig	Key 881

I, Janie Collins, having personal knowledge of all the facts, hereby certify that the attached directional survey run from a measured depth of 406 feet to a measured depth of 11,590 feet is true and correct as determined from all available records.

A handwritten signature in blue ink, appearing to read 'Janie Collins'.

Signature

23-Oct-15

Date

Janie Collins

Colorado District Well Planner
Scientific Drilling International

ENERGEN

Energen Resources Corp.

San Juan County, NM (NAD83)

Crow Mesa

Crow Mesa 24-08 2 #3H

OH

Design: OH

Standard Survey Report

22 October, 2015

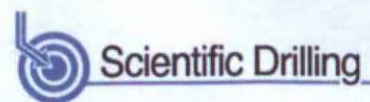


Scientific Drilling

www.scientificdrilling.com



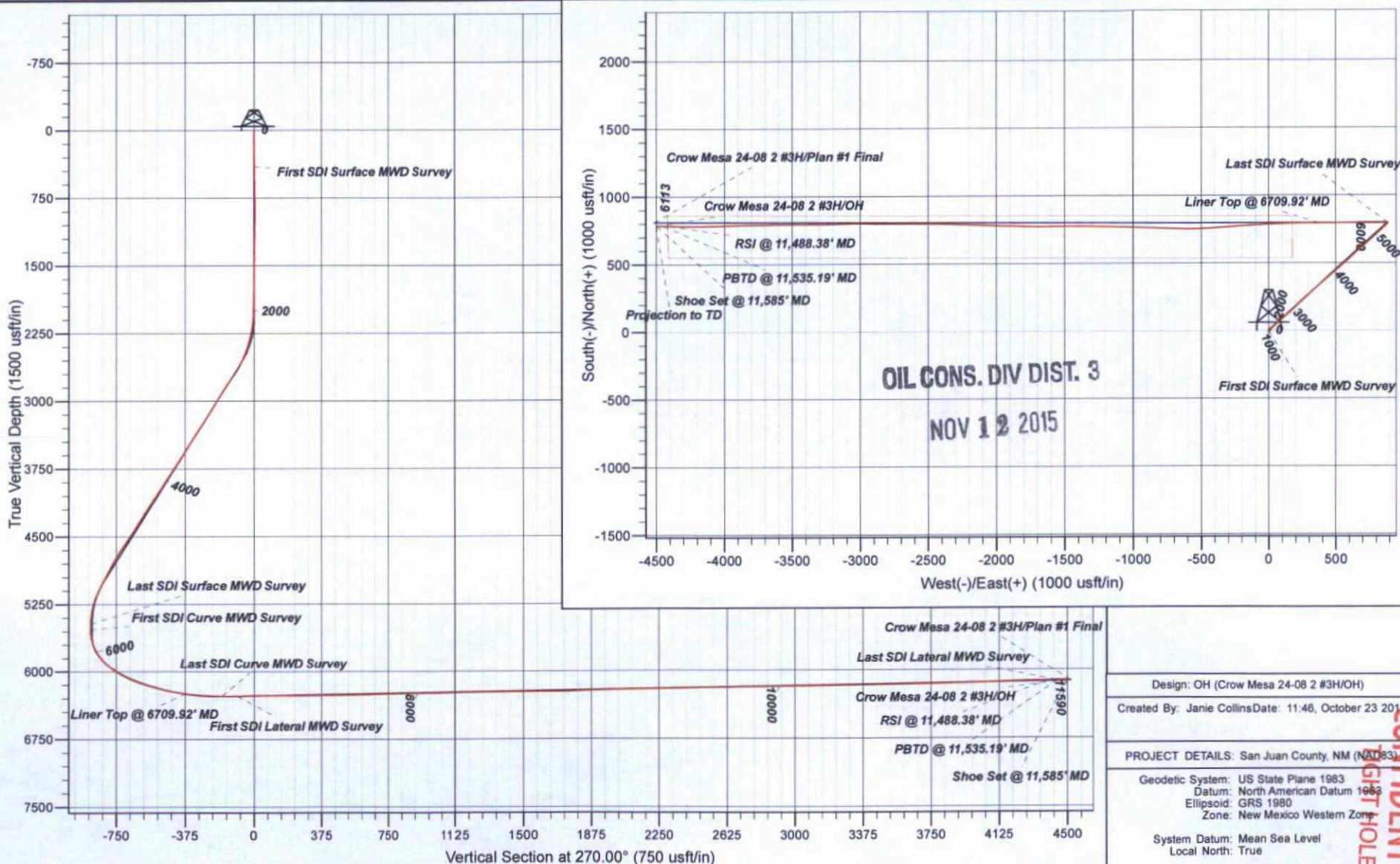
Company Name: Energen Resources Corp.
Project: San Juan County, NM (NAD83)
Site: Crow Mesa
Well: Crow Mesa 24-08 2 #3H



Azimuths to True North
Magnetic North: 9.8°
Magnetic Field
Strength: 49920.1nT
Dip Angle: 63.03°
Date: 9/3/2015
Model: HDGM

WELL DETAILS: Crow Mesa 24-08 2 #3H

+N/-S	+E/-W	GL 7318' & RKB 17' @ 7334.99usft (Key 881)	7317.99
0.00	0.00	Northing	Latitude
		Easting	Longitude
		1942876.37	2778544.55
		36.3393450	-107.6450480



Design: OH (Crow Mesa 24-08 2 #3H/OH)
Created By: Janie Collins Date: 11:46, October 23 2015
PROJECT DETAILS: San Juan County, NM (NAD83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Western Zone
System Datum: Mean Sea Level
Local North: True

CONFIDENTIAL
RIGHT TO LIFE

NOV 12 2015

CONFIDENTIAL

ENERGEN

Survey Report



Scientific Drilling

Company:	Energen Resources Corp.	Local Co-ordinate Reference:	Well Crow Mesa 24-08 2 #3H
Project:	San Juan County, NM (NAD83)	TVD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Site:	Crow Mesa	MD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Well:	Crow Mesa 24-08 2 #3H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

Project	San Juan County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Western Zone		

Site	Crow Mesa		
Site Position:		Northing:	1,942,876.38 usft
From:	Lat/Long	Easting:	2,778,544.55 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	36.3393450
		Longitude:	-107.6450480
		Grid Convergence:	0.11 °

Well	Crow Mesa 24-08 2 #3H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	36.3393450
		Longitude:	-107.6450480
		Ground Level:	7,317.99 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	9/3/2015	9.08
		Dip Angle (°)	63.03
		Field Strength (nT)	49,920

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)
	0.00	0.00	0.00
		Direction (°)	270.00

Survey Program	Date 10/22/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
406.00	5,689.00	Survey #1 - Surface MWD Survey (OH)	SDI MWD
5,753.00	6,909.00	Survey #2 - Curve MWD Survey (OH)	SDI MWD
6,994.00	11,590.00	Survey #3 - Lateral MWD Survey (OH)	SDI MWD
		Description	
		SDI MWD - Standard ver 1.0.1	
		SDI MWD - Standard ver 1.0.1	
		SDI MWD - Standard ver 1.0.1	

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
406.00	0.88	203.94	405.98	-2.85	-1.27	1.27	0.22	0.22	0.00
First SDI Surface MWD Survey									
469.00	0.90	203.65	468.98	-3.74	-1.66	1.66	0.03	0.03	-0.46
530.00	0.78	207.79	529.97	-4.55	-2.05	2.05	0.22	-0.20	6.79
593.00	0.92	208.00	592.96	-5.38	-2.48	2.48	0.22	0.22	0.33
656.00	0.84	215.89	655.96	-6.20	-2.99	2.99	0.23	-0.13	12.52
718.00	0.85	207.93	717.95	-6.97	-3.47	3.47	0.19	0.02	-12.84
781.00	0.67	190.70	780.94	-7.75	-3.76	3.76	0.46	-0.29	-27.35

Company:	Energen Resources Corp.	Local Co-ordinate Reference:	Well Crow Mesa 24-08 2 #3H
Project:	San Juan County, NM (NAD83)	TVD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Site:	Crow Mesa	MD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Well:	Crow Mesa 24-08 2 #3H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

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)
843.00	0.87	198.51	842.94	-8.55	-3.98	3.98	0.36	0.32	12.60
906.00	0.27	115.70	905.93	-9.07	-4.00	4.00	1.39	-0.95	-131.44
969.00	0.30	71.79	968.93	-9.08	-3.70	3.70	0.34	0.05	-69.70
1,030.00	0.34	59.08	1,029.93	-8.94	-3.40	3.40	0.13	0.07	-20.84
1,092.00	0.47	111.13	1,091.93	-8.93	-3.00	3.00	0.60	0.21	83.95
1,153.00	0.24	126.27	1,152.93	-9.10	-2.67	2.67	0.40	-0.38	24.82
1,215.00	0.31	125.49	1,214.93	-9.27	-2.43	2.43	0.11	0.11	-1.26
1,277.00	0.32	65.31	1,276.93	-9.30	-2.13	2.13	0.51	0.02	-97.06
1,337.00	0.38	121.81	1,336.93	-9.33	-1.81	1.81	0.56	0.10	94.17
1,399.00	0.26	88.09	1,398.93	-9.44	-1.49	1.49	0.35	-0.19	-54.39
1,460.00	0.44	99.19	1,459.93	-9.47	-1.13	1.13	0.31	0.30	18.20
1,522.00	0.15	107.80	1,521.93	-9.53	-0.81	0.81	0.47	-0.47	13.89
1,583.00	0.35	84.51	1,582.92	-9.54	-0.55	0.55	0.36	0.33	-38.18
1,644.00	0.35	123.96	1,643.92	-9.63	-0.21	0.21	0.39	0.00	84.67
1,705.00	0.44	153.03	1,704.92	-9.94	0.05	-0.05	0.36	0.15	47.66
1,798.00	0.50	148.85	1,797.92	-10.60	0.42	-0.42	0.07	0.06	-4.49
1,860.00	0.62	164.06	1,859.92	-11.16	0.65	-0.65	0.31	0.19	24.53
1,922.00	0.45	130.62	1,921.91	-11.64	0.93	-0.93	0.56	-0.27	-53.94
1,983.00	0.59	133.82	1,982.91	-12.01	1.34	-1.34	0.23	0.23	5.25
2,045.00	1.22	55.37	2,044.90	-11.86	2.11	-2.11	2.01	1.02	-126.53
2,106.00	3.88	37.50	2,105.84	-9.85	3.90	-3.90	4.50	4.36	-29.30
2,167.00	6.22	33.33	2,166.60	-5.45	6.98	-6.98	3.88	3.84	-6.84
2,229.00	8.47	37.84	2,228.09	0.96	11.62	-11.62	3.74	3.63	7.27
2,306.00	10.06	41.68	2,304.08	10.46	19.57	-19.57	2.21	2.06	4.99
2,368.00	12.35	42.19	2,364.89	19.42	27.63	-27.63	3.70	3.69	0.82
2,431.00	14.13	43.45	2,426.22	29.99	37.44	-37.44	2.86	2.83	2.00
2,493.00	15.59	44.50	2,486.14	41.43	48.49	-48.49	2.39	2.35	1.69
2,556.00	17.15	47.30	2,546.59	53.77	61.25	-61.25	2.77	2.48	4.44
2,619.00	19.62	48.11	2,606.37	67.13	75.95	-75.95	3.94	3.92	1.29
2,682.00	22.32	49.20	2,665.19	82.02	92.88	-92.88	4.33	4.29	1.73
2,745.00	24.35	48.91	2,723.03	98.37	111.73	-111.73	3.23	3.22	-0.46
2,808.00	24.00	48.92	2,780.51	115.33	131.18	-131.18	0.56	-0.56	0.02
2,870.00	23.44	47.84	2,837.27	131.89	149.82	-149.82	1.14	-0.90	-1.74
2,933.00	22.30	47.12	2,895.32	148.43	167.87	-167.87	1.86	-1.81	-1.14
2,996.00	22.13	48.34	2,953.64	164.45	185.50	-185.50	0.78	-0.27	1.94
3,059.00	21.80	47.90	3,012.07	180.18	203.04	-203.04	0.59	-0.52	-0.70
3,121.00	22.02	47.99	3,069.59	195.68	220.22	-220.22	0.36	0.35	0.15
3,185.00	22.75	48.71	3,128.77	211.88	238.43	-238.43	1.22	1.14	1.13
3,248.00	22.81	48.14	3,186.85	228.06	256.68	-256.68	0.36	0.10	-0.90
3,311.00	23.63	46.98	3,244.75	244.83	275.01	-275.01	1.49	1.30	-1.84
3,373.00	23.38	46.48	3,301.61	261.78	293.01	-293.01	0.52	-0.40	-0.81
3,436.00	22.31	45.28	3,359.66	278.80	310.57	-310.57	1.85	-1.70	-1.90
3,499.00	23.48	48.22	3,417.70	295.58	328.43	-328.43	2.60	1.86	4.67

Company:	Energen Resources Corp.	Local Co-ordinate Reference:	Well Crow Mesa 24-08 2 #3H
Project:	San Juan County, NM (NAD83)	TVD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Site:	Crow Mesa	MD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Well:	Crow Mesa 24-08 2 #3H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

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)
3,561.00	22.69	48.42	3,474.74	311.74	346.59	-346.59	1.28	-1.27	0.32
3,624.00	22.79	48.27	3,532.84	327.93	364.78	-364.78	0.18	0.16	-0.24
3,686.00	23.20	49.92	3,589.91	343.78	383.09	-383.09	1.23	0.66	2.66
3,750.00	22.28	50.54	3,648.94	359.61	402.10	-402.10	1.49	-1.44	0.97
3,813.00	23.02	50.27	3,707.08	375.07	420.79	-420.79	1.19	1.17	-0.43
3,876.00	22.98	49.96	3,765.07	390.86	439.68	-439.68	0.20	-0.06	-0.49
3,938.00	22.22	48.68	3,822.31	406.39	457.75	-457.75	1.46	-1.23	-2.06
4,001.00	22.68	48.67	3,880.53	422.27	475.82	-475.82	0.73	0.73	-0.02
4,064.00	22.55	49.63	3,938.69	438.12	494.14	-494.14	0.62	-0.21	1.52
4,126.00	23.67	49.09	3,995.71	453.97	512.61	-512.61	1.84	1.81	-0.87
4,189.00	22.85	48.47	4,053.59	470.36	531.32	-531.32	1.36	-1.30	-0.98
4,252.00	23.53	48.85	4,111.50	486.75	549.95	-549.95	1.11	1.08	0.60
4,315.00	24.10	49.64	4,169.14	503.35	569.22	-569.22	1.04	0.90	1.25
4,378.00	23.17	48.66	4,226.85	519.87	588.33	-588.33	1.60	-1.48	-1.56
4,440.00	21.66	48.05	4,284.17	535.57	606.00	-606.00	2.46	-2.44	-0.98
4,503.00	22.80	47.79	4,342.48	551.55	623.68	-623.68	1.82	1.81	-0.41
4,565.00	22.44	46.80	4,399.71	567.72	641.21	-641.21	0.85	-0.58	-1.60
4,627.00	23.13	47.97	4,456.88	583.97	658.88	-658.88	1.33	1.11	1.89
4,689.00	23.61	49.20	4,513.79	600.24	677.32	-677.32	1.10	0.77	1.98
4,752.00	23.54	48.63	4,571.53	616.80	696.32	-696.32	0.38	-0.11	-0.90
4,814.00	24.07	48.82	4,628.26	633.31	715.12	-715.12	0.86	0.85	0.31
4,876.00	22.88	49.44	4,685.12	649.47	733.80	-733.80	1.96	-1.92	1.00
4,938.00	20.65	49.10	4,742.70	664.47	751.22	-751.22	3.60	-3.60	-0.55
5,000.00	19.82	47.88	4,800.87	678.67	767.28	-767.28	1.50	-1.34	-1.97
5,062.00	20.40	47.32	4,859.09	693.05	783.02	-783.02	0.99	0.94	-0.90
5,124.00	18.75	45.89	4,917.51	707.31	798.12	-798.12	2.77	-2.66	-2.31
5,188.00	18.17	45.90	4,978.22	721.41	812.67	-812.67	0.91	-0.91	0.02
5,251.00	19.06	47.32	5,037.92	735.22	827.29	-827.29	1.59	1.41	2.25
5,314.00	18.02	48.48	5,097.65	748.66	842.15	-842.15	1.75	-1.65	1.84
5,377.00	15.63	49.64	5,157.95	760.61	855.91	-855.91	3.83	-3.79	1.84
5,439.00	12.21	48.23	5,218.12	770.39	867.17	-867.17	5.54	-5.52	-2.27
5,501.00	8.92	46.26	5,279.06	778.09	875.53	-875.53	5.34	-5.31	-3.18
5,564.00	6.95	40.35	5,341.45	784.37	881.53	-881.53	3.38	-3.13	-9.38
5,626.00	4.55	32.11	5,403.14	789.31	885.27	-885.27	4.08	-3.87	-13.29
5,688.99	2.11	19.14	5,466.02	792.52	886.98	-886.98	4.03	-3.87	-20.60
Last SDI Surface MWD Survey									
5,689.00	2.11	19.13	5,466.03	792.52	886.98	-886.98	4.03	-3.69	-44.02
5,753.00	0.59	13.30	5,530.01	793.96	887.44	-887.44	2.38	-2.38	-9.11
First SDI Curve MWD Survey									
5,816.00	3.14	280.38	5,592.98	794.58	885.81	-885.81	5.12	4.05	-147.49
5,879.00	7.95	274.98	5,655.66	795.27	879.77	-879.77	7.67	7.63	-8.57
5,940.00	10.71	274.18	5,715.85	796.05	869.92	-869.92	4.53	4.52	-1.31
5,982.00	12.69	272.93	5,756.98	796.57	861.42	-861.42	4.75	4.71	-2.98
6,045.00	19.55	270.77	5,817.46	797.07	843.94	-843.94	10.93	10.89	-3.43

Company:	Energen Resources Corp.	Local Co-ordinate Reference:	Well Crow Mesa 24-08 2 #3H
Project:	San Juan County, NM (NAD83)	TVD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Site:	Crow Mesa	MD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Well:	Crow Mesa 24-08 2 #3H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

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)
6,108.00	24.61	270.17	5,875.82	797.25	820.27	-820.27	8.04	8.03	-0.95
6,171.00	28.76	270.79	5,932.10	797.50	791.99	-791.99	6.60	6.59	0.98
6,235.00	35.00	270.34	5,986.42	797.82	758.20	-758.20	9.76	9.75	-0.70
6,298.00	41.46	267.50	6,035.89	797.02	719.26	-719.26	10.62	10.25	-4.51
6,360.00	47.13	267.98	6,080.25	795.32	676.01	-676.01	9.16	9.15	0.77
6,423.00	53.52	268.62	6,120.45	793.89	627.57	-627.57	10.17	10.14	1.02
6,486.00	58.43	269.46	6,155.69	793.03	575.38	-575.38	7.87	7.79	1.33
6,550.00	62.30	269.89	6,187.33	792.72	519.76	-519.76	6.07	6.05	0.67
6,613.00	68.45	269.97	6,213.57	792.65	462.52	-462.52	9.76	9.76	0.13
6,676.00	72.73	269.52	6,234.50	792.38	403.11	-403.11	6.83	6.79	-0.71
6,709.92	74.53	269.60	6,244.06	792.13	370.57	-370.57	5.31	5.30	0.24
Liner Top @ 6709.92' MD									
6,739.00	76.07	269.67	6,251.44	791.95	342.44	-342.44	5.31	5.30	0.24
6,802.00	81.44	270.21	6,263.72	791.89	280.68	-280.68	8.57	8.52	0.86
6,865.00	86.41	268.89	6,270.39	791.40	218.05	-218.05	8.16	7.89	-2.10
6,909.00	88.62	268.33	6,272.29	790.33	174.11	-174.11	5.18	5.02	-1.27
Last SDI Curve MWD Survey									
6,994.00	92.25	267.62	6,271.65	787.33	89.18	-89.18	4.35	4.27	-0.84
First SDI Lateral MWD Survey									
7,055.00	91.98	266.52	6,269.40	784.21	28.30	-28.30	1.86	-0.44	-1.80
7,117.00	91.89	268.35	6,267.30	781.44	-33.60	33.60	2.95	-0.15	2.95
7,179.00	91.55	267.91	6,265.44	779.42	-95.54	95.54	0.90	-0.55	-0.71
7,239.00	89.53	265.71	6,264.88	776.08	-155.43	155.43	4.98	-3.37	-3.67
7,300.00	90.54	266.47	6,264.84	771.92	-216.29	216.29	2.07	1.66	1.25
7,362.00	90.40	265.36	6,264.33	767.50	-278.13	278.13	1.80	-0.23	-1.79
7,423.00	90.97	266.19	6,263.60	763.01	-338.96	338.96	1.65	0.93	1.36
7,484.00	90.37	266.33	6,262.89	759.03	-399.83	399.83	1.01	-0.98	0.23
7,545.00	90.47	266.89	6,262.44	755.42	-460.72	460.72	0.93	0.16	0.92
7,607.00	92.82	268.57	6,260.66	752.97	-522.64	522.64	4.66	3.79	2.71
7,667.00	92.86	269.54	6,257.69	751.98	-582.55	582.55	1.62	0.07	1.62
7,728.00	92.68	271.51	6,254.74	752.54	-643.48	643.48	3.24	-0.30	3.23
7,790.00	92.12	272.37	6,252.14	754.63	-705.39	705.39	1.65	-0.90	1.39
7,851.00	92.08	272.28	6,249.91	757.11	-766.29	766.29	0.16	-0.07	-0.15
7,912.00	92.65	271.98	6,247.39	759.37	-827.20	827.20	1.06	0.93	-0.49
7,972.00	91.64	271.67	6,245.15	761.28	-887.13	887.13	1.76	-1.68	-0.52
8,032.00	91.47	271.43	6,243.52	762.90	-947.08	947.08	0.49	-0.28	-0.40
8,094.00	91.71	272.40	6,241.80	764.98	-1,009.02	1,009.02	1.61	0.39	1.56
8,155.00	91.68	271.86	6,239.99	767.24	-1,069.95	1,069.95	0.89	-0.05	-0.89
8,217.00	92.36	271.47	6,237.81	769.04	-1,131.89	1,131.89	1.26	1.10	-0.63
8,278.00	92.90	270.62	6,235.01	770.15	-1,192.81	1,192.81	1.65	0.89	-1.39
8,339.00	91.75	270.65	6,232.53	770.83	-1,253.76	1,253.76	1.89	-1.89	0.05
8,399.00	92.12	271.14	6,230.51	771.77	-1,313.72	1,313.72	1.02	0.62	0.82
8,460.00	91.84	271.74	6,228.40	773.30	-1,374.66	1,374.66	1.08	-0.46	0.98
8,523.00	90.47	269.46	6,227.13	773.96	-1,437.64	1,437.64	4.22	-2.17	-3.62

Company:	Energen Resources Corp.	Local Co-ordinate Reference:	Well Crow Mesa 24-08 2 #3H
Project:	San Juan County, NM (NAD83)	TVD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Site:	Crow Mesa	MD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Well:	Crow Mesa 24-08 2 #3H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

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)
8,587.00	90.54	268.71	6,226.57	772.94	-1,501.63	1,501.63	1.18	0.11	-1.17
8,649.00	90.48	268.52	6,226.01	771.44	-1,563.61	1,563.61	0.32	-0.10	-0.31
8,712.00	89.90	269.51	6,225.80	770.35	-1,626.60	1,626.60	1.82	-0.92	1.57
8,774.00	90.30	271.06	6,225.70	770.66	-1,688.59	1,688.59	2.58	0.65	2.50
8,836.00	93.08	272.10	6,223.87	772.37	-1,750.54	1,750.54	4.79	4.48	1.68
8,899.00	95.65	271.13	6,219.07	774.14	-1,813.32	1,813.32	4.36	4.08	-1.54
8,962.00	93.70	270.87	6,213.94	775.24	-1,876.10	1,876.10	3.12	-3.10	-0.41
9,025.00	93.74	272.04	6,209.85	776.83	-1,938.95	1,938.95	1.85	0.06	1.86
9,088.00	92.56	272.34	6,206.39	779.24	-2,001.80	2,001.80	1.93	-1.87	0.48
9,152.00	91.51	271.79	6,204.12	781.54	-2,065.72	2,065.72	1.85	-1.64	-0.86
9,215.00	91.45	272.14	6,202.49	783.70	-2,128.66	2,128.66	0.56	-0.10	0.56
9,278.00	91.64	272.14	6,200.79	786.05	-2,191.60	2,191.60	0.30	0.30	0.00
9,341.00	91.61	271.94	6,199.00	788.29	-2,254.53	2,254.53	0.32	-0.05	-0.32
9,404.00	91.58	272.19	6,197.25	790.56	-2,317.47	2,317.47	0.40	-0.05	0.40
9,467.00	92.01	271.10	6,195.28	792.37	-2,380.41	2,380.41	1.86	0.68	-1.73
9,529.00	92.12	270.90	6,193.04	793.45	-2,442.36	2,442.36	0.37	0.18	-0.32
9,592.00	92.39	270.76	6,190.56	794.36	-2,505.30	2,505.30	0.48	0.43	-0.22
9,655.00	92.38	270.20	6,187.94	794.89	-2,568.25	2,568.25	0.89	-0.02	-0.89
9,718.00	90.94	270.34	6,186.12	795.19	-2,631.22	2,631.22	2.30	-2.29	0.22
9,781.00	91.04	270.20	6,185.03	795.49	-2,694.21	2,694.21	0.27	0.16	-0.22
9,844.00	90.77	269.16	6,184.03	795.13	-2,757.20	2,757.20	1.71	-0.43	-1.65
9,907.00	91.17	269.83	6,182.97	794.58	-2,820.19	2,820.19	1.24	0.63	1.06
9,969.00	92.11	271.02	6,181.19	795.04	-2,882.16	2,882.16	2.45	1.52	1.92
10,032.00	92.08	271.02	6,178.89	796.16	-2,945.10	2,945.10	0.05	-0.05	0.00
10,095.00	91.81	270.24	6,176.75	796.85	-3,008.06	3,008.06	1.31	-0.43	-1.24
10,158.00	91.55	269.14	6,174.90	796.51	-3,071.03	3,071.03	1.79	-0.41	-1.75
10,221.00	91.10	268.17	6,173.45	795.03	-3,134.00	3,134.00	1.70	-0.71	-1.54
10,284.00	91.04	269.06	6,172.27	793.51	-3,196.97	3,196.97	1.42	-0.10	1.41
10,347.00	91.14	268.52	6,171.07	792.18	-3,259.94	3,259.94	0.87	0.16	-0.86
10,410.00	92.65	270.26	6,168.99	791.51	-3,322.90	3,322.90	3.66	2.40	2.76
10,473.00	92.92	269.51	6,165.93	791.38	-3,385.83	3,385.83	1.26	0.43	-1.19
10,536.00	91.78	270.47	6,163.35	791.37	-3,448.77	3,448.77	2.36	-1.81	1.52
10,599.00	91.81	269.83	6,161.37	791.54	-3,511.74	3,511.74	1.02	0.05	-1.02
10,663.00	92.14	269.77	6,159.17	791.31	-3,575.70	3,575.70	0.52	0.52	-0.09
10,726.00	91.72	269.16	6,157.04	790.73	-3,638.66	3,638.66	1.18	-0.67	-0.97
10,788.00	91.75	268.92	6,155.17	789.69	-3,700.63	3,700.63	0.39	0.05	-0.39
10,852.00	91.18	268.67	6,153.53	788.34	-3,764.59	3,764.59	0.97	-0.89	-0.39
10,915.00	92.83	268.95	6,151.33	787.03	-3,827.54	3,827.54	2.66	2.62	0.44
10,978.00	93.29	268.40	6,147.96	785.58	-3,890.43	3,890.43	1.14	0.73	-0.87
11,040.00	93.33	267.36	6,144.38	783.29	-3,952.28	3,952.28	1.68	0.06	-1.68
11,103.00	93.43	269.45	6,140.67	781.54	-4,015.14	4,015.14	3.32	0.16	3.32
11,166.00	93.59	268.61	6,136.81	780.47	-4,078.02	4,078.02	1.35	0.25	-1.33
11,229.00	94.16	268.44	6,132.55	778.86	-4,140.85	4,140.85	0.94	0.90	-0.27

Company:	Energen Resources Corp.	Local Co-ordinate Reference:	Well Crow Mesa 24-08 2 #3H
Project:	San Juan County, NM (NAD83)	TVD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Site:	Crow Mesa	MD Reference:	GL 7318' & RKB 17' @ 7334.99usft (Key 881)
Well:	Crow Mesa 24-08 2 #3H	North Reference:	True
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Grand Junction District

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)
11,292.00	93.46	270.86	6,128.37	778.47	-4,203.71	4,203.71	3.99	-1.11	3.84
11,355.00	93.70	270.23	6,124.43	779.07	-4,266.58	4,266.58	1.07	0.38	-1.00
11,417.00	92.15	271.39	6,121.27	779.95	-4,328.49	4,328.49	3.12	-2.50	1.87
11,480.00	92.61	271.19	6,118.65	781.36	-4,391.42	4,391.42	0.80	0.73	-0.32
11,488.38	92.70	271.18	6,118.27	781.54	-4,399.79	4,399.79	1.11	1.11	-0.07
RSI @ 11,488.38' MD									
11,526.00	93.12	271.16	6,116.35	782.31	-4,437.35	4,437.35	1.11	1.11	-0.07
Last SDI Lateral MWD Survey									
11,535.19	93.12	271.16	6,115.85	782.49	-4,446.53	4,446.53	0.00	0.00	0.00
PBTD @ 11,535.19' MD									
11,585.00	93.12	271.16	6,113.14	783.50	-4,496.25	4,496.25	0.00	0.00	0.00
Shoe Set @ 11,585' MD									
11,590.00	93.12	271.16	6,112.87	783.60	-4,501.24	4,501.24	0.00	0.00	0.00
Projection to TD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
406.00	405.98	-2.85	-1.27	First SDI Surface MWD Survey
5,688.99	5,466.02	792.52	886.98	Last SDI Surface MWD Survey
5,753.00	5,530.01	793.96	887.44	First SDI Curve MWD Survey
6,709.92	6,244.06	792.13	370.57	Liner Top @ 6709.92' MD
6,909.00	6,272.29	790.33	174.11	Last SDI Curve MWD Survey
6,994.00	6,271.65	787.33	89.18	First SDI Lateral MWD Survey
11,488.38	6,118.27	781.54	-4,399.79	RSI @ 11,488.38' MD
11,526.00	6,116.35	782.31	-4,437.35	Last SDI Lateral MWD Survey
11,535.19	6,115.85	782.49	-4,446.53	PBTD @ 11,535.19' MD
11,585.00	6,113.14	783.50	-4,496.25	Shoe Set @ 11,585' MD
11,590.00	6,112.87	783.60	-4,501.24	Projection to TD

Checked By: _____ Approved By: _____ Date: _____