

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
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

35 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30466	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 35661	⁵ Property Name Carracas 21B	
⁷ OGRID No 162928	⁸ Operator Name Energen Resources Corporation	⁶ Well Number 16
		⁹ Elevation 7396'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot. Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	21	32N	04W		875	South	905	West	Rio Arribi

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
I	25	32N	04W		1855	South	763	East	Rio Arriba

¹² Dedicated Acres 320 S/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No	PROJECT 8109 AT CORP. DIV.
--	-------------------------------	----------------------------------	------------------------	-------------------------------

SECRET

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 Vicki Donaghey Signature 10/07/08 Date Vicki Donaghey Printed Name
	21			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 06/27/07 Date of Survey Signature and Seal of Professional Surveyor original survey conducted and recorded by: David R. Russell 10201 Certificate Number

905'

SHL

815'

1346'

2620'

BHL 763'

1855'

Certificate Number



Energen Resources

Carson Nat'l Forest - SE S21, T32N, R4W

Carracas Mesa

Carracas 21 B #16

OH

RCUD OCT 8 '08

OIL CONS. DIV.

DIST. 3

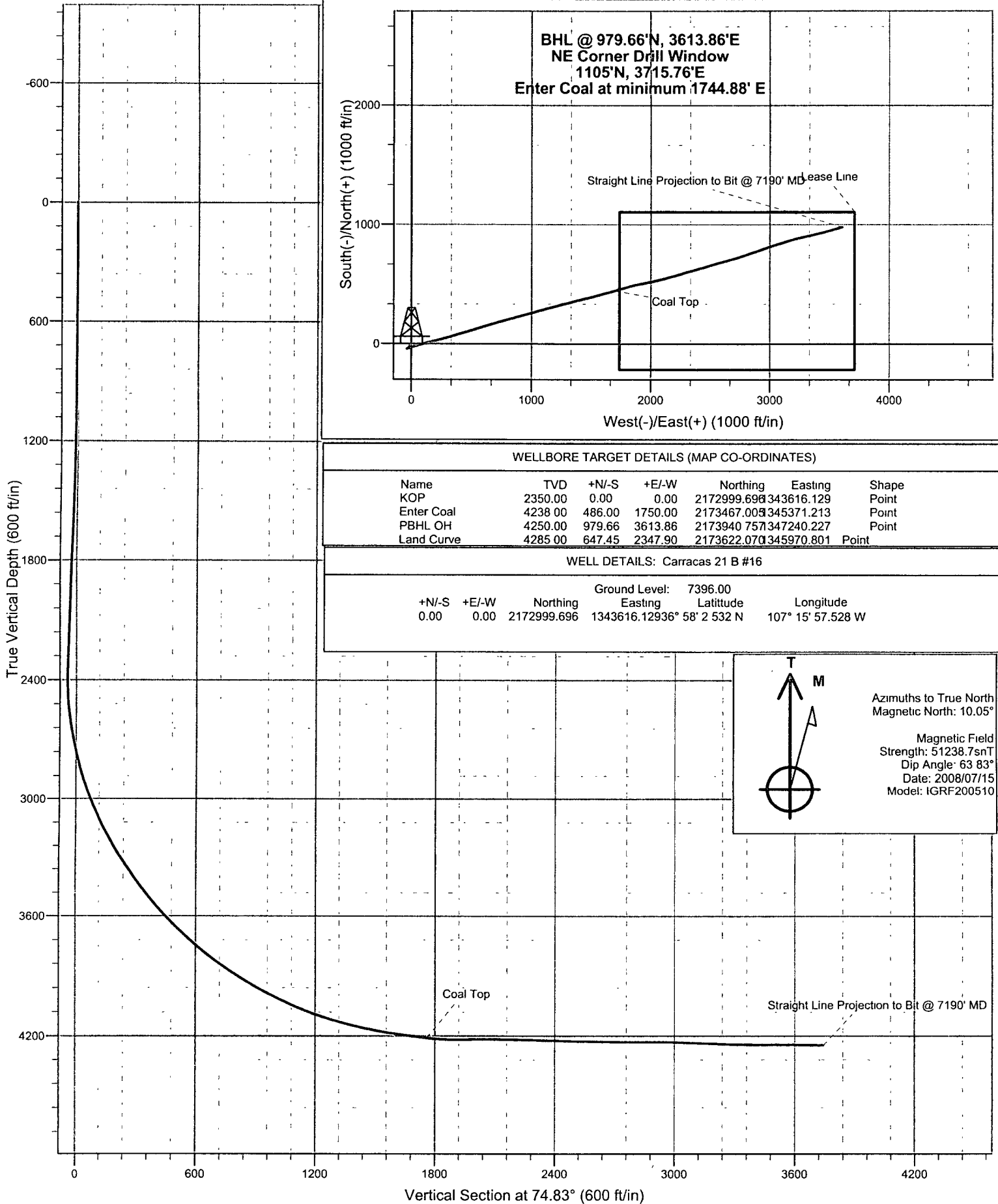
Survey: EOW

End of Well Survey

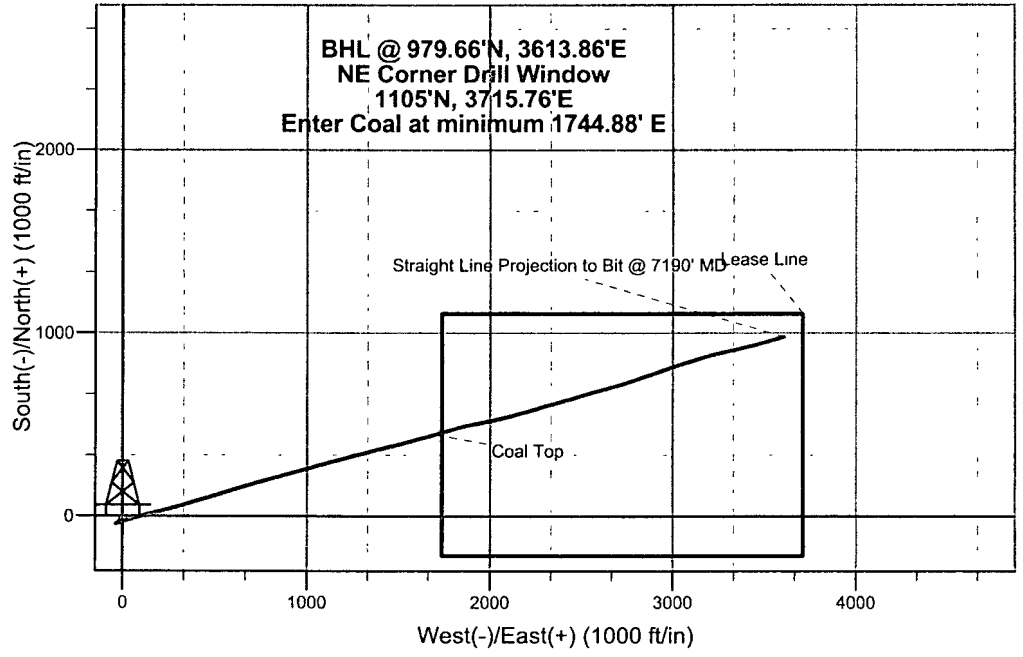
20 August, 2008



Survey: EOW (Carracas 21 B #16/OH)



True Vertical Depth (600 ft/in)

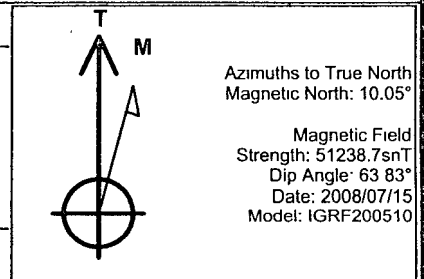


WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
KOP	2350.00	0.00	0.00	2172999.696	1343616.129	Point
Enter Coal	4238.00	486.00	1750.00	2173467.003	1345371.213	Point
PBHL OH	4250.00	979.66	3613.86	2173940.757	1347240.227	Point
Land Curve	4285.00	647.45	2347.90	2173622.070	1345970.801	Point

WELL DETAILS: Carracas 21 B #16

+N/-S	+E/-W	Northing	Easting	Ground Level:	Latitude	Longitude
0.00	0.00	2172999.696	1343616.129	7396.00	36° 58' 2.532 N	107° 15' 57.528 W



Vertical Section at 74.83° (600 ft/in)

Company: Energen Resources
Project: Carson Nat'l Forest - SE S21, T32N, R4W
Site: Carracas Mesa
Well: Carracas 21 B #16
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Carracas 21 B #16
TVD Reference: WELL @ 7409.00ft (L&W #1)
MD Reference: WELL @ 7409.00ft (L&W #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Project	Carson Nat'l Forest - SE S21, T32N, 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	Carracas Mesa		
Site Position:		Northing:	2,172,999.696 ft
From:	Lat/Long	Easting:	1,343,616.129 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	36° 58' 2.532 N
		Longitude:	107° 15' 57.528 W
		Grid Convergence:	-0 61 °

Well	Carracas 21 B #16		
Well Position	+N/-S	0.00 ft	Northing: 2,172,999.696 ft
	+E/-W	0.00 ft	Easting: 1,343,616.129 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	36° 58' 2.532 N
		Longitude:	107° 15' 57.528 W
		Ground Level:	7,396.00 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	2008/07/15	(°) 10.05
			Dip Angle
			(°) 63.83
			Field Strength
			(nT) 51,239

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°) 74.83

Survey Program	Date 2008/08/20		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
252.00	7,190.00	EOW (OH)	UNKNOWN
			Description
			Unknown survey

Survey								
MD	Inc	Azi	TVD	N/S	E/W	DLeg	V. Sec	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
252.00	0.44	231.63	252.00	-0.60	-0.76	0.17	-0.89	
681.00	0.53	192.41	680.98	-3.56	-2.48	0.08	-3.32	
1,110.00	1.23	201.03	1,109.93	-9.80	-4.56	0.17	-6.96	
1,572.00	2.11	204.25	1,571.73	-22.18	-9.83	0.19	-15.29	
2,014.00	2.46	232.13	2,013.39	-35.42	-20.66	0.26	-29.21	
2,278.00	2.02	246.57	2,277.19	-40.75	-29.40	0.27	-39.04	
2,341.00	1.76	258.12	2,340.16	-41.39	-31.37	0.73	-41.10	
2,349.90	1.59	259.67	2,349.05	-41.44	-31.62	2.03	-41.36	
KOP								
2,373.00	1.14	265.88	2,372.15	-41.51	-32.16	2.03	-41.91	
2,405.00	0.44	323.81	2,404.14	-41.44	-32.55	3.06	-42.26	

Company: Energen Resources
Project: Carson Nat'l Forest - SE S21, T32N, R4W
Site: Carracas Mesa
Well: Carracas 21 B #16
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Carracas 21 B #16
TVD Reference: WELL @ 7409.00ft (L&W #1)
MD Reference: WELL @ 7409.00ft (L&W #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)
2,437.00	1.32	48.15	2,436.14	-41.09	-32.35	4.22	-41.98
2,468.00	2.73	56.12	2,467.12	-40.44	-31.47	4.63	-40.96
2,500.00	4.31	65.05	2,499.06	-39.51	-29.75	5.21	-39.05
2,532.00	5.72	67.28	2,530.94	-38.39	-27.19	4.45	-36.29
2,564.00	6.95	68.83	2,562.74	-37.07	-23.91	3.88	-32.78
2,596.00	7.91	71.23	2,594.47	-35.67	-20.02	3.15	-28.66
2,627.00	9.06	72.22	2,625.13	-34.23	-15.68	3.74	-24.09
2,659.00	10.02	72.52	2,656.69	-32.63	-10.62	3.00	-18.79
2,691.00	11.17	72.59	2,688.14	-30.86	-5.01	3.59	-12.91
2,723.00	12.13	72.62	2,719.48	-28.93	1.16	3.00	-6.46
2,754.00	13.19	73.22	2,749.73	-26.94	7.65	3.45	0.33
2,785.00	14.07	72.67	2,779.85	-24.80	14.63	2.87	7.63
2,818.00	14.60	72.93	2,811.83	-22.38	22.44	1.62	15.80
2,850.00	15.48	72.74	2,842.73	-19.93	30.37	2.75	24.10
2,881.00	16.71	72.22	2,872.52	-17.34	38.57	3.99	32.69
2,913.00	18.20	72.08	2,903.04	-14.40	47.70	4.66	42.27
2,944.00	19.35	72.58	2,932.39	-11.37	57.21	3.75	52.24
2,976.00	20.22	73.12	2,962.50	-8.18	67.56	2.78	63.07
3,006.00	21.19	73.73	2,990.56	-5.15	77.73	3.31	73.67
3,038.00	22.25	73.73	3,020.29	-1.84	89.09	3.31	85.51
3,070.00	23.30	74.10	3,049.80	1.60	101.00	3.31	97.90
3,101.00	24.18	74.07	3,078.17	5.02	113.00	2.84	110.37
3,133.00	24.97	74.35	3,107.27	8.64	125.81	2.50	123.68
3,164.00	26.12	74.74	3,135.24	12.20	138.69	3.75	137.05
3,196.00	27.26	75.72	3,163.83	15.86	152.59	3.82	151.42
3,228.00	27.96	76.26	3,192.19	19.45	166.98	2.32	166.25
3,260.00	28.93	76.46	3,220.33	23.05	181.79	3.05	181.48
3,292.00	30.07	76.01	3,248.18	26.80	197.09	3.63	197.24
3,323.00	30.86	75.71	3,274.90	30.64	212.33	2.60	212.95
3,355.00	31.83	75.21	3,302.23	34.82	228.45	3.14	229.60
3,388.00	32.80	75.28	3,330.11	39.31	245.51	2.94	247.24
3,419.00	34.12	75.37	3,355.98	43.64	262.04	4.26	264.33
3,451.00	34.47	75.17	3,382.41	48.22	279.48	1.15	282.36
3,483.00	35.00	75.14	3,408.71	52.89	297.10	1.66	300.59
3,515.00	35.70	74.55	3,434.81	57.74	314.97	2.43	319.10
3,546.00	36.93	73.87	3,459.79	62.73	332.64	4.17	337.46
3,578.00	37.99	72.77	3,485.19	68.32	351.28	3.92	356.92
3,610.00	38.87	72.82	3,510.26	74.20	370.28	2.75	376.79
3,642.00	39.75	73.04	3,535.02	80.15	389.66	2.78	397.05
3,674.00	40.45	73.55	3,559.49	86.08	409.40	2.42	417.66
3,706.00	41.42	73.30	3,583.67	92.06	429.50	3.07	438.62
3,738.00	42.56	73.17	3,607.45	98.23	449.99	3.57	460.02
3,768.00	44.05	73.11	3,629.28	104.20	469.68	4.97	480.59
3,800.00	44.93	72.80	3,652.11	110.78	491.12	2.83	503.00

Company: Energen Resources
Project: Carson Nat'l Forest - SE S21, T32N, R4W
Site: Carracas Mesa
Well: Carracas 21 B #16
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Carracas 21 B #16
TVD Reference: WELL @ 7409.00ft (L&W #1)
MD Reference: WELL @ 7409.00ft (L&W #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)
3,832.00	45.99	72.63	3,674.55	117.55	512.90	3.33	525.79
3,864.00	47.13	72.48	3,696.56	124.52	535.07	3.58	549.01
3,896.00	47.92	72.35	3,718.17	131.65	557.57	2.49	572.59
3,928.00	48.28	72.67	3,739.54	138.81	580.28	1.35	596.39
3,960.00	49.33	73.49	3,760.61	145.81	603.32	3.81	620.45
3,991.00	50.74	73.06	3,780.52	152.65	626.07	4.67	644.20
4,023.00	52.23	72.91	3,800.45	159.98	650.02	4.67	669.23
4,055.00	53.20	73.10	3,819.84	167.42	674.36	3.07	694.68
4,086.00	54.43	73.22	3,838.14	174.67	698.31	3.98	719.68
4,118.00	55.57	73.53	3,856.49	182.17	723.43	3.65	745.89
4,150.00	56.10	74.07	3,874.46	189.55	748.85	2.17	772.36
4,182.00	56.81	74.13	3,892.14	196.86	774.50	2.22	799.03
4,213.00	57.77	74.43	3,908.90	203.93	799.61	3.20	825.11
4,245.00	58.92	74.37	3,925.69	211.25	825.85	3.60	852.35
4,277.00	59.88	74.11	3,941.98	218.73	852.35	3.08	879.89
4,308.00	60.76	74.14	3,957.33	226.10	878.26	2.84	906.82
4,341.00	61.91	74.00	3,973.16	234.05	906.10	3.50	935.78
4,372.00	62.87	74.36	3,987.52	241.54	932.53	3.26	963.24
4,404.00	63.75	74.62	4,001.90	249.18	960.08	2.84	991.83
4,436.00	64.37	74.22	4,015.90	256.91	987.80	2.24	1,020.61
4,467.00	65.07	74.03	4,029.13	264.58	1,014.76	2.33	1,048.64
4,499.00	65.86	73.99	4,042.42	272.60	1,042.75	2.47	1,077.74
4,531.00	66.74	74.53	4,055.28	280.55	1,070.95	3.15	1,107.04
4,563.00	68.06	74.61	4,067.58	288.41	1,099.43	4.13	1,136.59
4,595.00	69.38	74.69	4,079.19	296.30	1,128.18	4.13	1,166.40
4,626.00	70.35	74.81	4,089.87	303.95	1,156.26	3.15	1,195.51
4,658.00	71.58	74.92	4,100.30	311.85	1,185.46	3.86	1,225.76
4,690.00	72.55	74.96	4,110.16	319.76	1,214.86	3.03	1,256.20
4,722.00	73.78	75.31	4,119.42	327.62	1,244.46	3.98	1,286.83
4,753.00	74.57	75.41	4,127.88	335.16	1,273.32	2.57	1,316.65
4,785.00	75.36	75.51	4,136.18	342.92	1,303.23	2.49	1,347.56
4,817.00	75.71	75.75	4,144.17	350.61	1,333.25	1.31	1,378.54
4,849.00	76.33	75.60	4,151.90	358.29	1,363.34	1.99	1,409.59
4,881.00	77.21	75.65	4,159.23	366.02	1,393.51	2.75	1,440.73
4,913.00	78.52	76.90	4,165.95	373.44	1,423.90	5.60	1,472.01
4,944.00	79.49	77.12	4,171.87	380.28	1,453.55	3.21	1,502.42
4,976.00	79.84	76.75	4,177.61	387.40	1,484.22	1.58	1,533.88
5,008.00	80.46	75.79	4,183.08	394.88	1,514.85	3.53	1,565.39
5,040.00	81.43	75.34	4,188.12	402.76	1,545.45	3.33	1,596.99
5,072.00	82.22	74.93	4,192.67	410.89	1,576.06	2.78	1,628.67
5,104.00	82.92	75.07	4,196.80	419.10	1,606.71	2.23	1,660.40
5,136.00	83.62	74.78	4,200.55	427.37	1,637.40	2.37	1,692.18
5,168.00	83.01	74.74	4,204.28	435.72	1,668.06	1.91	1,723.96
5,199.00	82.57	74.02	4,208.17	444.00	1,697.68	2.71	1,754.71

Company: Energen Resources
Project: Carson Nat'l Forest - SE S21, T32N, R4W
Site: Carracas Mesa
Well: Carracas 21 B #16
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Carracas 21 B #16
TVD Reference: WELL @ 7409.00ft (L&W #1)
MD Reference: WELL @ 7409.00ft (L&W #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)
5,204.00	82.82	73.98	4,208.81	445.37	1,702.45	5.00	1,759.67
Coal Top							
5,231.00	84.15	73.76	4,211.87	452.82	1,728.22	5.00	1,786.49
5,263.00	86.26	73.06	4,214.55	461.92	1,758.78	6.94	1,818.37
Enter Coal							
5,363.00	89.60	74.04	<u>4,218.16</u>	<u>490.22</u>	1,854.61	3.48	1,918.26
5,394.00	92.15	78.40	4,217.68	497.60	<u>1,884.70</u>	16.29	1,949.24
5,426.00	91.89	79.41	4,216.56	503.75	1,916.08	3.26	1,981.14
5,458.00	90.13	79.09	4,215.99	509.72	1,947.51	5.59	2,013.04
5,491.00	89.69	78.85	4,216.04	516.04	1,979.90	1.52	2,045.95
5,523.00	90.31	78.05	4,216.04	522.44	2,011.26	3.16	2,077.89
5,555.00	89.69	77.13	4,216.04	529.32	2,042.51	3.47	2,109.85
5,587.00	88.99	76.77	4,216.41	536.54	2,073.68	2.46	2,141.82
5,618.00	88.72	76.65	4,217.03	543.67	2,103.84	0.95	2,172.80
5,651.00	88.90	74.74	4,217.72	551.82	2,135.81	5.81	2,205.79
5,683.00	88.37	74.87	4,218.48	560.21	2,166.68	1.71	2,237.78
5,715.00	87.93	74.03	4,219.51	568.78	2,197.50	2.96	2,269.76
5,747.00	88.29	73.93	4,220.57	577.61	2,228.24	1.17	2,301.74
5,779.00	88.81	74.34	4,221.38	586.35	2,259.01	2.07	2,333.73
5,811.00	88.72	74.16	4,222.07	595.04	2,289.80	0.63	2,365.72
5,844.00	88.46	74.16	4,222.88	604.04	2,321.54	0.79	2,398.71
5,876.00	88.55	73.76	4,223.71	612.88	2,352.28	1.28	2,430.69
5,883.01	88.53	73.80	4,223.89	614.84	2,359.01	0.57	2,437.70
Land Curve							
5,908.00	88.46	73.92	4,224.55	621.78	2,383.01	0.57	2,462.68
5,940.00	88.46	74.02	4,225.41	630.62	2,413.75	0.31	2,494.66
5,972.00	88.20	73.76	4,226.34	639.49	2,444.48	1.15	2,526.64
6,004.00	89.52	73.50	4,226.98	648.51	2,475.18	4.20	2,558.63
6,036.00	89.52	73.40	4,227.25	657.62	2,505.85	0.31	2,590.62
6,067.00	88.72	73.05	4,227.72	666.57	2,535.53	2.82	2,621.60
6,099.00	88.55	74.72	4,228.48	675.45	2,566.26	5.24	2,653.59
6,131.00	89.25	75.32	4,229.10	683.72	2,597.17	2.88	2,685.58
6,163.00	89.16	75.02	4,229.54	691.91	2,628.10	0.98	2,717.58
6,196.00	90.31	74.43	4,229.70	700.60	2,659.93	3.92	2,750.58
6,228.00	89.87	73.84	4,229.65	709.35	2,690.71	2.30	2,782.57
6,259.00	89.52	72.52	4,229.81	718.32	2,720.38	4.41	2,813.56
6,291.00	89.78	72.82	4,230.01	727.85	2,750.93	1.24	2,845.54
6,324.00	89.96	72.23	4,230.08	737.76	2,782.41	1.87	2,878.51
6,356.00	90.13	71.93	4,230.06	747.61	2,812.85	1.08	2,910.47
6,388.00	89.43	71.34	4,230.18	757.69	2,843.22	2.86	2,942.42
6,420.00	89.96	71.94	4,230.35	767.77	2,873.59	2.50	2,974.37
6,452.00	87.76	71.89	4,230.99	777.70	2,904.01	6.88	3,006.32
6,485.00	88.20	71.09	4,232.15	788.17	2,935.28	2.77	3,039.25
6,517.00	87.76	70.89	4,233.28	798.59	2,965.51	1.51	3,071.15

Company: Energen Resources
Project: Carson Nat'l Forest - SE S21, T32N, R4W
Site: Carracas Mesa
Well: Carracas 21 B #16
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Carracas 21 B #16
TVD Reference: WELL @ 7409.00ft (L&W #1)
MD Reference: WELL @ 7409.00ft (L&W #1)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)
6,548.00	87.14	70.85	4,234.66	808.73	2,994.77	2.00	3,102.05
6,580.00	87.85	71.42	4,236.05	819.07	3,025.03	2.84	3,133.95
6,612.00	88.46	72.64	4,237.08	828.94	3,055.45	4.26	3,165.90
6,645.00	87.58	72.91	4,238.22	838.70	3,086.95	2.79	3,198.86
6,677.00	87.41	73.56	4,239.62	847.93	3,117.56	2.10	3,230.81
6,709.00	87.58	73.30	4,241.02	857.04	3,148.20	0.97	3,262.77
6,741.00	88.90	73.79	4,242.00	866.10	3,178.88	4.40	3,294.75
6,772.00	89.52	73.83	4,242.43	874.75	3,208.64	2.00	3,325.74
6,805.00	89.43	75.79	4,242.73	883.39	3,240.49	5.95	3,358.74
6,837.00	89.69	77.60	4,242.98	890.76	3,271.63	5.71	3,390.72
6,869.00	89.52	77.36	4,243.20	897.69	3,302.86	0.92	3,422.68
6,901.00	89.60	77.24	4,243.45	904.73	3,334.08	0.45	3,454.65
6,932.00	89.78	77.22	4,243.61	911.58	3,364.31	0.58	3,485.62
6,964.00	89.78	77.14	4,243.74	918.68	3,395.52	0.25	3,517.60
6,997.00	89.96	75.48	4,243.81	926.49	3,427.58	5.06	3,550.59
7,028.00	90.04	75.55	4,243.81	934.24	3,457.59	0.34	3,581.58
7,060.00	89.43	74.12	4,243.96	942.61	3,488.48	4.86	3,613.58
7,114.00	89.16	73.24	4,244.62	957.79	3,540.30	1.70	3,667.57
7,190.00	89.16	73.24	4,245.74	979.70	3,613.06	0.00	3,743.53

Straight Line Projection to Bit @ 7190' MD - PBHL OH

Targets
Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL OH	0.00	0.00	4,250.00	979.66	3,613.86	2,173,940.757	1,347,240.227	36° 58' 12.216 N	107° 15' 12.996 W
- survey misses by 4.34ft at 7190.00ft MD (4245.74 TVD, 979.70 N, 3613.06 E)									
- Point									
Land Curve	0.00	0.00	4,285.00	647.45	2,347.90	2,173,622.070	1,345,970.801	36° 58' 8.933 N	107° 15' 28.596 W
- survey misses by 70.15ft at 5883.01ft MD (4223.89 TVD, 614.84 N, 2359.01 E)									
- Point									
Enter Coal	0.00	0.00	4,238.00	486.00	1,750.00	2,173,467.005	1,345,371.213	36° 58' 7.337 N	107° 15' 35.964 W
- survey misses by 34.74ft at 5263.00ft MD (4214.55 TVD, 461.92 N, 1758.78 E)									
- Point									
KOP	0.00	0.00	2,350.00	0.00	0.00	2,172,999.696	1,343,616.129	36° 58' 2.532 N	107° 15' 57.528 W
- survey misses by 52.14ft at 2349.71ft MD (2348.86 TVD, -41.44 N, -31.62 E)									
- Point									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
5,204.00	4,208.81	445.37	1,702.45	Coal Top
7,190.00	4,245.74	979.70	3,613.06	Straight Line Projection to Bit @ 7190' MD

Checked By: _____ Approved By: _____ Date: _____