

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-34874	² Pool Code 71599	³ Pool Name Basin Dakota
⁴ Property Code 21396	⁵ Property Name Schumacher	⁶ Well Number 12E
⁷ OGRID No 162928	⁸ Operator Name Energen Resources Corporation	⁹ Elevation 6466'

¹⁰ Surface Location

UL or lot no. H	Section 17	Township 30N	Range 10W	Lot Idn	Feet from the 1372'	North/South line FNL	Feet from the 680'	East/West line FEL	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. F	Section 17	Township 30N	Range 10W	Lot Idn	Feet from the 1670'	North/South line FNL	Feet from the 1821'	East/West line FWL	County San Juan
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¹² Dedicated Acres 320 w/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.	RCVD MAY 19 '09 OIL CONS. DIV.
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DIST. 3

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A
2585.80' NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶ 1670' 1821' BWL 17 2585.80' 33' 1372' 680'	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 05/15/09 Signature Date Vicki Donaghey Printed Name
	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. 10/16/08 Date of Survey Signature and Seal of Professional Surveyer original survey reported and recorded by David Russell 10201 Certificate Number

ENERGEN

R E S O U R C E S

RCVD MAY 19 '09

OIL CONS. DIV.

DIST. 3

Energen Resources

Central Basin

Schumacher

Schumacher #12E

OH

Survey: MWD #1

Energen EOW

14 May, 2009

PATHFINDER

Company: Energen Resources
Project: Central Basin
Site: Schumacher
Well: Schumacher #12E
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Schumacher #12E
TVD Reference: WELL @ 6480.00ft (Original Well Elev)
MD Reference: WELL @ 6480.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Project: Central Basin
Map System: US State Plane 1983
Geo Datum: North American Datum 1983
Map Zone: New Mexico Central Zone
System Datum: Mean Sea Level

Site: Schumacher
Site Position: Northing: 2,120,299.670 ft Latitude: 36° 48' 55.800 N
From: Map Easting: 1,157,219.920 ft Longitude: 107° 54' 2.592 W
Position Uncertainty: 0.00 ft Slot Radius: " Grid Convergence: -0.99 °

Well: Schumacher #12E
Well Position: +N/-S 0.00 ft Northing: 2,120,299.670 ft Latitude: 36° 48' 55.800 N
+E/-W 0.00 ft Easting: 1,157,219.920 ft Longitude: 107° 54' 2.592 W
Position Uncertainty: 0.00 ft Wellhead Elevation: ft Ground Level: 6,466.00 ft

Wellbore: OH
Magnetics: Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)
 IGRF200510 02/12/2009 10.23 63.57 51,017

Design: OH
Audit Notes:
Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
 (ft) (ft) (ft) (°)
 0.00 0.00 0.00 263.00

Survey Program: Date 04/06/2009
From (ft) **To (ft)** **Survey (Wellbore)** **Tool Name** **Description**
 483.00 8,355.00 MWD #1 (OH) MWD MWD - Standard

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
483.00	0.50	246.20	482.99	-0.85	-1.93	0.10	2.02
514.00	0.80	276.90	513.99	-0.88	-2.27	1.45	2.36
545.00	1.40	288.40	544.99	-0.73	-2.84	2.05	2.91
576.00	2.00	293.20	575.97	-0.40	-3.70	1.99	3.72
607.00	2.70	298.50	606.95	0.16	-4.84	2.36	4.78
638.00	3.30	303.00	637.90	0.99	-6.23	2.08	6.06
669.00	4.00	306.00	668.84	2.12	-7.85	2.34	7.53
700.00	4.10	308.00	699.76	3.43	-9.60	0.56	9.11
731.00	4.50	306.90	730.68	4.85	-11.44	1.32	10.77
762.00	4.30	305.70	761.58	6.26	-13.36	0.71	12.50
793.00	4.60	307.20	792.49	7.68	-15.29	1.04	14.24

Company: Energen Resources
 Project: Central Basin
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 Well: Schumacher #12E
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 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: Midland Database

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)
823.00	4.70	306.50	822.39	9.14	-17.24	0.38	16.00
854.00	4.70	306.40	853.29	10.65	-19.28	0.03	17.84
885.00	4.60	306.80	884.19	12.15	-21.30	0.34	19.66
915.00	4.80	307.00	914.08	13.63	-23.27	0.67	21.43
946.00	4.80	306.10	944.98	15.17	-25.35	0.24	23.31
977.00	4.90	306.50	975.87	16.72	-27.46	0.34	25.22
1,007.00	4.90	306.60	1,005.76	18.25	-29.52	0.03	27.08
1,038.00	5.00	307.60	1,036.64	19.86	-31.65	0.43	29.00
1,068.00	5.00	305.80	1,066.53	21.43	-33.75	0.52	30.89
1,099.00	4.90	306.50	1,097.41	23.00	-35.91	0.38	32.84
1,130.00	5.00	305.00	1,128.29	24.57	-38.08	0.53	34.80
1,161.00	4.80	305.20	1,159.18	26.09	-40.25	0.65	36.77
1,192.00	4.70	305.80	1,190.07	27.58	-42.34	0.36	38.66
1,223.00	4.70	306.60	1,220.97	29.08	-44.39	0.21	40.51
1,254.00	4.50	305.60	1,251.87	30.54	-46.40	0.70	42.33
1,285.00	4.50	306.50	1,282.78	31.98	-48.36	0.23	44.10
1,316.00	4.50	306.50	1,313.68	33.42	-50.32	0.00	45.87
1,347.00	4.50	304.60	1,344.58	34.84	-52.30	0.48	47.66
1,377.00	4.20	303.80	1,374.50	36.12	-54.18	1.02	49.37
1,408.00	4.10	303.60	1,405.42	37.36	-56.04	0.33	51.07
1,439.00	4.10	303.60	1,436.34	38.59	-57.89	0.00	52.76
1,470.00	4.20	302.10	1,467.26	39.80	-59.77	0.48	54.48
1,501.00	4.00	299.90	1,498.18	40.95	-61.67	0.82	56.22
1,532.00	4.00	299.90	1,529.10	42.02	-63.55	0.00	57.95
1,563.00	4.00	298.90	1,560.03	43.08	-65.43	0.23	59.69
1,594.00	3.90	299.20	1,590.95	44.12	-67.30	0.33	61.42
1,625.00	4.00	300.30	1,621.88	45.18	-69.15	0.40	63.13
1,657.00	4.00	302.10	1,653.80	46.34	-71.06	0.39	64.88
1,687.00	4.00	303.10	1,683.73	47.46	-72.82	0.23	66.50
1,718.00	4.00	302.00	1,714.65	48.63	-74.65	0.25	68.16
1,749.00	4.30	300.20	1,745.57	49.79	-76.57	1.05	69.93
1,781.00	4.50	300.60	1,777.48	51.03	-78.69	0.63	71.88
1,812.00	4.60	297.80	1,808.38	52.23	-80.83	0.79	73.87
1,844.00	4.70	297.00	1,840.27	53.42	-83.14	0.37	76.01
1,875.00	4.80	297.00	1,871.17	54.59	-85.42	0.32	78.13
1,906.00	5.10	296.30	1,902.05	55.79	-87.81	0.99	80.36
1,938.00	5.70	300.00	1,933.91	57.21	-90.47	2.17	82.82
1,969.00	6.40	300.50	1,964.74	58.86	-93.29	2.26	85.42
2,000.00	6.90	301.70	1,995.53	60.71	-96.36	1.67	88.24
2,032.00	7.50	303.40	2,027.27	62.87	-99.74	1.99	91.33
2,064.00	8.20	306.10	2,058.97	65.37	-103.33	2.47	94.59
2,096.00	9.30	307.20	2,090.60	68.27	-107.23	3.48	98.11
2,127.00	10.60	306.50	2,121.14	71.48	-111.52	4.21	101.97
2,159.00	12.00	304.60	2,152.51	75.12	-116.62	4.53	106.60

Company: Energen Resources
Project: Central Basin
Site: Schumacher
Well: Schumacher #12E
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Schumacher #12E
TVD Reference: WELL @ 6480.00ft (Original Well Elev)
MD Reference: WELL @ 6480.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)
2,190.00	13.40	303.60	2,182.75	78.94	-122.27	4.57	111.73
2,222.00	14.90	303.10	2,213.78	83.24	-128.80	4.70	117.70
2,253.00	16.30	302.10	2,243.64	87.73	-135.83	4.60	124.12
2,285.00	17.90	302.10	2,274.22	92.73	-143.80	5.00	131.42
2,317.00	19.40	301.80	2,304.54	98.14	-152.48	4.70	139.38
2,348.00	20.70	301.40	2,333.66	103.71	-161.53	4.22	147.69
2,379.00	21.90	301.20	2,362.55	109.56	-171.15	3.88	156.53
2,411.00	22.90	301.00	2,392.13	115.86	-181.60	3.13	166.12
2,442.00	23.70	301.40	2,420.60	122.21	-192.08	2.63	175.76
2,473.00	24.70	301.10	2,448.88	128.80	-202.95	3.25	185.74
2,505.00	25.60	301.10	2,477.84	135.83	-214.59	2.81	196.44
2,537.00	26.20	300.50	2,506.63	142.99	-226.60	2.05	207.49
2,568.00	26.60	300.20	2,534.40	149.95	-238.49	1.36	218.44
2,599.00	27.10	299.90	2,562.05	156.96	-250.61	1.67	229.62
2,631.00	28.00	299.80	2,590.43	164.33	-263.45	2.82	241.46
2,663.00	29.10	299.80	2,618.53	171.93	-276.72	3.44	253.71
2,694.00	29.70	299.30	2,645.54	179.43	-289.96	2.09	265.93
2,726.00	29.80	298.90	2,673.32	187.15	-303.84	0.69	278.76
2,757.00	29.80	298.60	2,700.23	194.56	-317.34	0.48	291.27
2,789.00	30.10	298.70	2,727.95	202.22	-331.36	0.95	304.25
2,821.00	30.60	298.80	2,755.57	210.00	-345.54	1.57	317.37
2,852.00	30.70	298.60	2,782.24	217.59	-359.40	0.46	330.20
2,884.00	30.80	298.60	2,809.74	225.42	-373.76	0.31	343.51
2,916.00	30.20	298.40	2,837.31	233.17	-388.04	1.90	356.73
2,947.00	29.80	298.50	2,864.16	240.56	-401.67	1.30	369.36
2,979.00	30.00	299.20	2,891.90	248.25	-415.64	1.26	382.28
3,010.00	30.30	299.80	2,918.70	255.92	-429.19	1.37	394.80
3,042.00	30.70	300.00	2,946.27	264.02	-443.27	1.29	407.79
3,073.00	31.10	299.70	2,972.87	271.94	-457.08	1.38	420.53
3,104.00	31.50	299.20	2,999.36	279.86	-471.10	1.54	433.48
3,136.00	31.30	298.90	3,026.68	287.95	-485.67	0.79	446.96
3,168.00	31.20	298.50	3,054.03	295.93	-500.24	0.72	460.44
3,230.00	32.50	296.90	3,106.70	311.13	-529.20	2.50	487.34
3,293.00	32.30	296.30	3,159.89	326.24	-559.39	0.60	515.46
3,325.00	31.60	294.90	3,187.04	333.56	-574.66	3.19	529.72
3,388.00	29.50	292.40	3,241.30	346.42	-603.97	3.90	557.25
3,451.00	28.30	290.80	3,296.45	357.64	-632.28	2.27	583.98
3,513.00	27.80	289.70	3,351.17	367.73	-659.63	1.16	609.90
3,576.00	28.30	287.20	3,406.77	377.10	-687.73	2.03	636.64
3,639.00	29.40	286.10	3,461.95	385.80	-716.85	1.94	664.49
3,702.00	30.20	285.10	3,516.62	394.22	-747.01	1.49	693.39
3,764.00	30.60	282.70	3,570.10	401.75	-777.46	2.06	722.70
3,827.00	31.10	282.20	3,624.18	408.71	-809.00	0.89	753.16
3,890.00	30.70	279.70	3,678.24	414.86	-840.76	2.13	783.93

Company: Energen Resources
 Project: Central Basin
 Site: Schumacher
 Well: Schumacher #12E
 Wellbore: OH
 Design: OH

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Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)
3,952.00	30.60	276.20	3,731.59	419.23	-872.05	2.88	814.46
4,015.00	31.40	272.50	3,785.59	421.68	-904.39	3.28	846.26
4,078.00	32.20	268.70	3,839.14	422.02	-937.57	3.42	879.15
4,141.00	32.40	265.70	3,892.40	420.37	-971.19	2.56	912.72
4,204.00	32.50	263.50	3,945.56	417.19	-1,004.84	1.88	946.50
4,268.00	31.50	261.50	3,999.84	412.77	-1,038.46	2.28	980.41
4,331.00	31.60	258.10	4,053.53	406.93	-1,070.89	2.83	1,013.31
4,394.00	32.10	258.00	4,107.04	400.05	-1,103.41	0.80	1,046.43
4,458.00	32.00	256.10	4,161.29	392.44	-1,136.51	1.58	1,080.21
4,521.00	32.10	252.80	4,214.69	383.48	-1,168.70	2.78	1,113.26
4,584.00	33.80	250.50	4,267.56	372.68	-1,201.22	3.35	1,146.84
4,647.00	33.60	249.60	4,319.97	360.75	-1,234.07	0.85	1,180.91
4,711.00	32.60	249.10	4,373.59	348.43	-1,266.78	1.62	1,214.87
4,773.00	31.90	245.90	4,426.02	335.78	-1,297.34	2.98	1,246.75
4,837.00	31.00	242.90	4,480.62	321.37	-1,327.45	2.82	1,278.39
4,899.00	29.50	238.10	4,534.19	306.02	-1,354.63	4.59	1,307.23
4,963.00	30.40	236.00	4,589.64	288.64	-1,381.43	2.16	1,335.96
5,026.00	31.00	237.90	4,643.82	271.11	-1,408.39	1.81	1,364.85
5,088.00	31.30	238.20	4,696.88	254.14	-1,435.60	0.54	1,393.93
5,152.00	32.40	241.50	4,751.24	237.19	-1,464.80	3.22	1,424.98
5,215.00	32.90	242.20	4,804.29	221.16	-1,494.77	0.99	1,456.68
5,275.00	32.00	241.00	4,854.92	205.85	-1,523.09	1.84	1,486.65
5,338.00	29.80	240.90	4,908.97	190.14	-1,551.37	3.49	1,516.64
5,402.00	30.60	241.50	4,964.29	174.64	-1,579.59	1.34	1,546.53
5,465.00	31.60	241.10	5,018.23	159.01	-1,608.13	1.62	1,576.76
5,528.00	32.60	241.20	5,071.60	142.85	-1,637.45	1.59	1,607.84
5,590.00	33.50	242.90	5,123.57	127.01	-1,667.32	2.08	1,639.41
5,652.00	34.50	245.20	5,174.97	111.85	-1,698.49	2.63	1,672.20
5,716.00	34.50	244.00	5,227.71	96.30	-1,731.24	1.06	1,706.60
5,778.00	34.10	242.00	5,278.93	80.45	-1,762.36	1.93	1,739.42
5,841.00	34.00	248.20	5,331.15	65.61	-1,794.32	5.51	1,772.95
5,904.00	33.20	247.90	5,383.62	52.58	-1,826.66	1.30	1,806.64
5,967.00	29.80	242.70	5,437.34	38.90	-1,856.57	6.90	1,837.99
6,028.00	28.40	239.00	5,490.64	24.48	-1,882.47	3.74	1,865.46
6,091.00	27.80	239.30	5,546.22	9.26	-1,907.95	0.98	1,892.60
6,155.00	25.80	241.50	5,603.34	-5.01	-1,933.02	3.49	1,919.22
6,217.00	26.90	243.70	5,658.90	-17.66	-1,957.45	2.37	1,945.02
6,281.00	27.60	243.60	5,715.80	-30.67	-1,983.71	1.10	1,972.66
6,344.00	28.50	243.90	5,771.40	-43.77	-2,010.28	1.45	2,000.63
6,406.00	26.80	244.60	5,826.31	-56.27	-2,036.20	2.79	2,027.88
6,469.00	24.50	246.90	5,883.10	-67.49	-2,061.04	3.98	2,053.91
6,532.00	24.20	252.00	5,940.51	-76.61	-2,085.34	3.37	2,079.14
6,595.00	24.30	249.80	5,997.95	-85.07	-2,109.79	1.44	2,104.43
6,658.00	25.20	247.10	6,055.16	-94.77	-2,134.31	2.29	2,129.95
6,722.00	25.60	247.70	6,112.98	-105.32	-2,159.66	0.74	2,156.39

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Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	DLeg (°/100ft)	V. Sec (ft)
6,785.00	26.90	248.10	6,169.48	-115.80	-2,185.47	2.08	2,183.29
6,848.00	27.20	249.40	6,225.59	-126.18	-2,212.17	1.05	2,211.06
6,911.00	27.90	249.90	6,281.44	-136.31	-2,239.49	1.17	2,239.41
6,973.00	28.00	249.10	6,336.21	-146.49	-2,266.71	0.63	2,267.67
7,036.00	27.00	245.00	6,392.10	-157.81	-2,293.49	3.40	2,295.63
7,099.00	26.40	249.70	6,448.39	-168.71	-2,319.59	3.48	2,322.86
7,162.00	27.10	249.70	6,504.64	-178.55	-2,346.19	1.11	2,350.46
7,225.00	26.90	247.90	6,560.78	-188.89	-2,372.85	1.34	2,378.18
7,288.00	26.20	245.40	6,617.13	-200.04	-2,398.70	2.09	2,405.20
7,351.00	24.70	247.60	6,674.02	-210.85	-2,423.52	2.81	2,431.15
7,414.00	23.70	246.30	6,731.48	-220.95	-2,447.28	1.80	2,455.97
7,478.00	22.90	243.90	6,790.27	-231.60	-2,470.24	1.94	2,480.06
7,540.00	23.10	246.70	6,847.34	-241.72	-2,492.25	1.79	2,503.13
7,588.00	20.90	249.00	6,891.84	-248.52	-2,508.89	4.92	2,520.48
7,651.00	19.90	247.30	6,950.89	-256.68	-2,529.27	1.84	2,541.70
7,714.00	17.60	256.70	7,010.56	-263.01	-2,548.44	6.02	2,561.50
7,777.00	15.80	267.50	7,070.91	-265.58	-2,566.29	5.68	2,579.52
7,841.00	16.90	266.50	7,132.32	-266.53	-2,584.28	1.77	2,597.49
7,904.00	17.20	256.90	7,192.57	-269.20	-2,602.49	4.49	2,615.90
7,967.00	10.90	263.70	7,253.65	-271.96	-2,617.50	10.32	2,631.13
8,031.00	8.70	255.50	7,316.72	-273.84	-2,628.20	4.06	2,641.99
8,095.00	8.40	248.60	7,380.01	-276.76	-2,637.24	1.67	2,651.31
8,158.00	8.80	241.10	7,442.30	-280.77	-2,645.75	1.89	2,660.24
8,221.00	9.40	232.20	7,504.51	-286.25	-2,654.03	2.43	2,669.13
8,285.00	8.90	236.20	7,567.70	-292.21	-2,662.27	1.26	2,678.04
8,355.00	8.90	236.20	7,636.86	-298.23	-2,671.27	0.00	2,687.71

Proj To Bit @ 8355'MD

Company: Energen Resources
Project: Central Basin
Site: Schumacher
Well: Schumacher #12E
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Schumacher #12E
TVD Reference: WELL @ 6480.00ft (Original Well Elev)
MD Reference: WELL @ 6480.00ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Midland Database

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Dakota (#12E)	0.00	0 00	7,295.00	-320.01	-2,606.00	2,120,024.710	1,154,608.780	36° 48' 52.635 N	107° 54' 34.634 W
- survey misses by 50.55ft at 8007.23ft MD (7293.25 TVD, -273.02 N, -2624.54 E)									
- Point									
PBHL OH	0.00	0.00	7,650.00	-327.60	-2,668.10	2,120,018.191	1,154,546.561	36° 48' 52.560 N	107° 54' 35.398 W
- survey misses by 32.33ft at 8355.00ft MD (7636.86 TVD, -298.23 N, -2671.27 E)									
- Point									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
8,355.00	7,636.86	-298.23	-2,671.27	Proj To Bit @ 8355' MD

Checked By: _____ Approved By: _____ Date: _____