

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 30-045-34812	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 21171	⁵ Property Name Bloomfield	⁶ Well Number # 3R
⁷ OGRID No 162928	⁸ Operator Name Energen Resources Corporation	⁹ Elevation 5711'

¹⁰ Surface Location

UL or lot no. O	Section 17	Township 29N	Range 11W	Lot Idn	Feet from the 675'	North/South line FSL	Feet from the 2275'	East/West line FEL	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. O	Section 17	Township 29N	Range 11W	Lot. Idn	Feet from the 698'	North/South line FSL	Feet from the 1835'	East/West line FEL	County
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¹² Dedicated Acres 320- E 1/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No
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RCVD APR 15 '09

OIL CONS. DIV.

DIST. 3

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

	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: <u>Vicki Donaghey</u> Date: <u>04/13/09</u> Printed Name: <u>Vicki Donaghey</u>
	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 Date of Survey: <u>07/15/08</u> Signature and Seal of Professional Surveyor: <u>original survey conducted and recorded by: David Russell</u> Certificate Number: <u>10301</u>

6/4/16

PathFinder Energy Services, Inc.

Survey Report

ENERGEN RESOURCES CORPORATION
BLOOMFIELD #3R
SAN JUAN COUNTY, NM
Rig: SCORPION #3
PathFinder Office Supervisor: Tom Schmidt
PathFinder Field Engineers: David Baker
Garrett Lucero

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 36.43.13.4400 N LON: 108.050.0400 W
Reference: NAD83 new mexico west Transverse Mercator
Ref GRID Coord: X: 2670172.2756 Y: 2081591.4916
North Aligned To: TRUE NORTH
Total Magnetic Correction: 10.27° EAST TO TRUE
Vertical Section Plane: 87.71
Survey Vert. Reference: 4.00' Kelly Bushing To Ground
Altitude: 5711.00' Ground To MSL

Survey Calculations by RX5 V5.11i using Minimum Curvature

Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
ORIGIN OF WELL AT SURFACE.										
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00@	0.00	0.00
THE FOLLOWING ARE PATHFINDER MWD SURVEYS.										
349.00	0.70	313.27	348.99	349.00	-1.49	1.46 N	1.55 W	2.13@	313.27	0.20
380.00	0.44	315.94	379.99	31.00	-1.70	1.68 N	1.77 W	2.44@	313.40	0.84
412.00	0.62	165.66	411.99	32.00	-1.75	1.60 N	1.82 W	2.42@	311.34	3.20
443.00	1.58	141.68	442.98	31.00	-1.46	1.10 N	1.51 W	1.87@	306.07	3.37
473.00	2.90	128.86	472.96	30.00	-0.65	0.30 N	0.66 W	0.73@	294.30	4.68
504.00	4.40	123.93	503.90	31.00	0.90	0.86 S	0.94 E	1.27@	132.49	4.94
531.00	5.72	118.68	530.79	27.00	2.89	2.08 S	2.98 E	3.3@	124.97	5.18
563.00	7.03	115.63	562.59	32.00	5.99	3.69 S	6.14 E	7.17@	121.03	4.23
595.00	8.44	113.21	594.30	32.00	9.84	5.47 S	10.06 E	11.45@	118.51	4.52
620.00	9.94	108.61	618.98	25.00	13.51	6.88 S	13.80 E	15.42@	116.50	6.68
652.00	11.61	102.54	650.41	32.00	19.20	8.46 S	19.56 E	21.31@	113.39	6.30
683.00	13.81	99.59	680.65	31.00	25.84	9.75 S	26.25 E	28.00@	110.38	7.40
714.00	15.56	96.41	710.64	31.00	33.57	10.83 S	34.03 E	35.71@	107.66	6.21
745.00	17.32	93.10	740.37	31.00	42.28	11.55 S	42.77 E	44.30@	105.11	6.43
776.00	19.17	90.52	769.81	31.00	51.96	11.84 S	52.47 E	53.79@	102.72	6.51
808.00	20.93	87.61	799.87	32.00	62.92	11.65 S	63.44 E	64.50@	100.41	6.32
839.00	23.04	86.26	828.62	31.00	74.52	11.03 S	75.02 E	75.83@	98.36	7.00
870.00	25.06	84.58	856.93	31.00	87.14	10.01 S	87.61 E	88.18@	96.52	6.88
931.00	27.70	83.34	911.57	61.00	114.18	7.14 S	114.56 E	114.78@	93.57	4.42
963.00	28.14	81.34	939.84	32.00	129.10	5.15 S	129.41 E	129.51@	92.28	3.23
994.00	28.23	83.32	967.17	31.00	143.68	3.19 S	143.92 E	143.95@	91.27	3.03
1026.00	28.31	82.23	995.35	32.00	158.78	1.29 S	158.95 E	158.96@	90.46	1.63
1057.00	28.49	81.86	1022.62	31.00	173.45	0.76 N	173.56 E	173.56@	89.75	0.81
1088.00	28.67	81.63	1049.84	31.00	188.20	2.88 N	188.23 E	188.25@	89.12	0.68

RCVD APR 15 '09

OIL CONS. DIV.

DIST. 3

PathFinder Energy Services, Inc.

Survey Report

ENERGEN RESOURCES CORPORATION
BLOOMFIELD #3R
SAN JUAN COUNTY, NM
RIG:SCORPION #3

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Measured Depth (ft)	Incl (deg)	Drift Dir. (deg)	TVD (ft)	Course Length (ft)	Vertical Section (ft)	TOTAL Rectangular Offsets (ft) (ft)		Closure Dist Dir (ft) (deg)		DLS (dg/100ft)
1120.00	27.79	80.87	1078.04	32.00	203.24	5.19 N	203.19 E	203.26@	88.54	2.97
1151.00	26.82	82.13	1105.58	31.00	217.37	7.29 N	217.26 E	217.38@	88.08	3.64
1182.00	25.41	85.43	1133.42	31.00	230.98	8.78 N	230.81 E	230.98@	87.82	6.53
1213.00	24.45	86.89	1161.53	31.00	244.04	9.66 N	243.85 E	244.04@	87.73	3.68
1244.00	22.95	88.88	1189.92	31.00	256.50	10.12 N	256.30 E	256.50@	87.74	5.48
1275.00	21.98	89.69	1218.56	31.00	268.34	10.27 N	268.14 E	268.34@	87.81	3.28
1306.00	20.66	90.62	1247.44	31.00	279.60	10.24 N	279.41 E	279.60@	87.90	4.40
1337.00	19.79	88.23	1276.53	31.00	290.31	10.35 N	290.13 E	290.31@	87.96	3.87
1368.00	19.08	85.21	1305.76	31.00	300.62	10.93 N	300.42 E	300.62@	87.92	3.97
1399.00	17.85	82.62	1335.17	31.00	310.42	11.97 N	310.19 E	310.42@	87.79	4.77
1431.00	15.92	79.78	1365.79	32.00	319.65	13.37 N	319.37 E	319.65@	87.60	6.56
1462.00	13.81	77.64	1395.75	31.00	327.50	14.92 N	327.17 E	327.51@	87.39	7.03
1493.00	11.96	76.96	1425.97	31.00	334.30	16.44 N	333.91 E	334.32@	87.18	5.99
1524.00	11.70	77.30	1456.31	31.00	340.55	17.85 N	340.11 E	340.58@	87.00	0.87
1555.00	11.43	76.97	1486.68	31.00	346.66	19.24 N	346.17 E	346.70@	86.82	0.90
1587.00	11.08	78.87	1518.06	32.00	352.81	20.55 N	352.27 E	352.87@	86.66	1.59
1619.00	10.99	79.12	1549.47	32.00	358.87	21.71 N	358.29 E	358.94@	86.53	0.32
1650.00	10.90	78.98	1579.91	31.00	364.69	22.83 N	364.06 E	364.78@	86.41	0.30
1680.00	10.46	82.13	1609.39	30.00	370.20	23.75 N	369.55 E	370.31@	86.32	2.44
1712.00	10.38	82.55	1640.86	32.00	375.96	24.52 N	375.28 E	376.08@	86.26	0.34
1743.00	10.11	84.28	1671.37	31.00	381.46	25.15 N	380.76 E	381.59@	86.22	1.32
1774.00	10.29	83.82	1701.88	31.00	386.94	25.72 N	386.22 E	387.07@	86.19	0.64
1805.00	10.20	86.03	1732.38	31.00	392.44	26.21 N	391.71 E	392.58@	86.17	1.30
1836.00	9.94	89.02	1762.91	31.00	397.86	26.45 N	397.12 E	398.00@	86.19	1.88
1866.00	9.85	90.23	1792.46	30.00	403.01	26.48 N	402.28 E	403.15@	86.23	0.75
1896.00	9.32	90.66	1822.04	30.00	408.00	26.44 N	407.27 E	408.13@	86.29	1.78
1927.00	8.97	93.00	1852.65	31.00	412.92	26.29 N	412.20 E	413.03@	86.35	1.65
1958.00	8.88	94.53	1883.27	31.00	417.70	25.97 N	416.99 E	417.80@	86.44	0.82
1988.00	8.97	95.34	1912.91	30.00	422.32	25.57 N	421.63 E	422.41@	86.53	0.52

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2018.00	9.06	96.76	1942.54	30.00	426.97	25.07 N	426.31 E	427.04@	86.63	0.80
2049.00	8.88	96.72	1973.16	31.00	431.74	24.51 N	431.11 E	431.80@	86.75	0.58
STRAIGHT LINE PROJECTION TO BIT @ 2108'MD										
2108.00	8.88	96.72	2031.45	59.00	440.74	23.44 N	440.15 E	440.77@	86.95	0.00