

As Drilled

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

Form C-102
Revised October 12, 2005

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-24290		² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 21996	⁵ Property Name San Juan 32-5 Unit NP		⁶ Well Number 104
⁷ OGRID No. 162928	⁸ Operator Name Energen Resources Corporation		⁹ Elevation 6411'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
H	25	32N	06W		540	South	985	West	Rio Arriba

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1dn	Feet from the	North/South line	Feet from the	East/West line	County
K	25	32N	06W		1566	South	1777	West	Rio Arriba

¹² Dedicated Acres 320 E/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No	RCVD NOV 5 '08 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 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 <i>Vicki Donaghey</i> 11/04/08 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 June 2, 1988 Date of Survey Signature and Seal of Professional Surveyer original survey conducted and recorded by: Howard Daggett 9679 Certificate Number

B n/6



Job Number: 101007857-NM-NM
 Company: Energen Resources
 Lease/Well: San Juan 32-5 #104 ST
 Location: New Mexico
 Rig Name: Bearcat #3
 RKB: 6379
 G.L. or M.S.L.: 6367

State/Country: New Mexico / USA
 Declination: 10.10
 Grid: True
 File name: C:\WINSERVE\32-5#104.SVY
 Date/Time: 22-Sep-08 / 08:09
 Curve Name: San Juan 32-5 #104 Surveys

Pathfinder Energy Services

RCVD NOV 5 '08
 OIL CONS. DIV.

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 37.86
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

DIST. 3

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
Tie-In To Gyrodata Multishot Survey									
2600.00	.29	222.76	2599.86	-4.70	-11.79	-10.95	12.69	248.27	.00
Interpolated Top of Whip Stock									
2690.00	.29	222.76	2689.86	-5.03	-12.10	-11.40	13.10	247.41	.00
1st Pathfinder MWD Survey									
2758.78	8.27	24.80	2758.41	-.66	-10.14	-6.75	10.16	266.25	12.43
2789.54	12.40	29.00	2788.66	4.24	-7.61	-1.33	8.71	299.10	13.64
2820.34	17.32	30.79	2818.42	11.07	-3.66	6.50	11.66	341.72	16.04
2851.07	22.51	30.77	2847.31	20.06	1.70	16.88	20.13	4.84	16.89
2881.83	27.70	29.49	2875.15	31.35	8.23	29.81	32.41	14.72	16.96
2912.59	32.80	28.43	2901.71	44.91	15.73	45.11	47.58	19.30	16.67

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	C L O S U R E		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
2943.35	37.72	29.30	2926.82	60.45	24.30	62.64	65.15	21.90	16.08
2974.12	42.65	29.80	2950.32	77.72	34.09	82.28	84.87	23.69	16.06
3004.91	49.24	28.93	2971.72	96.99	44.93	104.15	106.90	24.86	21.50
3035.71	56.19	28.07	2990.37	118.52	56.61	128.32	131.35	25.53	22.67
3066.50	62.70	27.90	3006.01	141.92	69.04	154.42	157.83	25.94	21.15
3097.24	70.26	28.79	3018.27	166.71	82.42	182.20	185.97	26.31	24.74
3128.03	75.10	30.42	3027.44	192.25	96.94	211.28	215.31	26.76	16.51
3158.81	77.82	32.47	3034.64	217.78	112.55	241.02	245.14	27.33	10.95
3189.60	80.46	34.44	3040.44	243.00	129.22	271.16	275.22	28.00	10.63
3220.38	83.10	35.78	3044.84	267.92	146.74	301.59	305.47	28.71	9.60
3251.18	85.47	37.97	3047.91	292.43	165.13	332.22	335.83	29.45	10.45
3281.00	87.14	39.53	3049.83	315.64	183.76	361.98	365.23	30.21	7.66
3312.00	87.49	40.37	3051.28	339.38	203.64	392.92	395.78	30.97	2.93
3343.00	87.23	40.89	3052.71	362.88	223.81	423.85	426.34	31.66	1.87
3374.00	86.70	41.17	3054.35	386.23	244.13	454.76	456.91	32.30	1.93
3405.00	89.34	42.83	3055.42	409.25	264.86	485.66	487.48	32.91	10.06
3435.00	90.04	44.84	3055.59	430.89	285.63	515.49	516.96	33.54	7.09
3467.00	89.87	45.67	3055.61	453.41	308.36	547.23	548.33	34.22	2.65
3498.00	90.31	46.00	3055.56	475.01	330.60	577.93	578.73	34.84	1.77
3529.00	90.13	46.44	3055.44	496.46	352.98	608.60	609.15	35.41	1.53
3560.00	90.31	46.81	3055.33	517.75	375.51	639.24	639.59	35.95	1.33
3590.00	90.22	46.22	3055.19	538.40	397.28	668.89	669.10	36.42	1.99
3621.00	89.60	45.91	3055.24	559.90	419.60	699.58	699.68	36.85	2.24
3652.00	89.34	45.52	3055.52	581.55	441.79	730.28	730.33	37.22	1.51
3683.00	89.78	45.00	3055.76	603.37	463.81	761.02	761.04	37.55	2.20
3713.00	90.31	42.73	3055.74	625.00	484.60	790.86	790.86	37.79	7.77
3744.00	90.31	41.11	3055.57	648.06	505.31	821.78	821.78	37.94	5.23
3775.00	89.96	38.81	3055.50	671.82	525.22	852.76	852.76	38.02	7.50
3806.00	89.87	35.43	3055.54	696.54	543.92	883.75	883.75	37.99	10.91
3837.00	89.87	33.39	3055.61	722.11	561.44	914.69	914.69	37.87	6.58
3867.00	90.92	32.83	3055.41	747.24	577.83	944.59	944.59	37.71	3.97
3898.00	90.13	32.36	3055.12	773.35	594.53	975.45	975.47	37.55	2.97
3929.00	90.66	32.02	3054.91	799.59	611.04	1006.30	1006.34	37.39	2.03
3960.00	90.84	34.17	3054.50	825.56	627.96	1037.19	1037.25	37.26	6.96

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
3990.00	90.66	35.24	3054.11	850.22	645.04	1067.14	1067.21	37.19	3.62
4020.00	91.01	36.20	3053.67	874.57	662.56	1097.12	1097.20	37.15	3.41
4052.00	90.92	38.39	3053.13	900.02	681.94	1129.11	1129.19	37.15	6.85
4083.00	90.40	40.24	3052.78	924.00	701.58	1160.09	1160.17	37.21	6.20
4115.00	91.01	41.62	3052.38	948.18	722.54	1192.05	1192.10	37.31	4.71
4146.00	90.84	41.67	3051.88	971.34	743.14	1222.97	1223.01	37.42	.57
Straight line Projection to Bit									
4220.00	90.84	41.67	3050.80	1026.61	792.33	1296.80	1296.81	37.66	.00