

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 Department

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 30-039-30473	² Pool Code 71629	³ Pool Name Basin Fruitland Coal
⁴ Property Code 35661	⁵ Property Name CARRACAS 21B	⁶ Well Number 1
⁷ OGRID No. 162928	⁸ Operator Name ENERGEN RESOURCES CORPORATION	⁹ Elevation 7335'

¹⁰ Surface Location

UL or lot no. E	Section 21	Township 32N	Range 04W	Lot Idn	Feet from the 1655	North/South line NORTH	Feet from the 1165	East/West line WEST	County RIO ARRIBA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. A	Section 21	Township 32N	Range 04W	Lot Idn	Feet from the 115	North/South line NORTH	Feet from the 146	East/West line EAST	County RIO ARRIBA
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¹² Dedicated Acres 320 N/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-11319
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RCVD NOV 5 '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.

5290.68

	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: <i>Vicki Donaghey</i> Date: 11/05/09 Printed Name: Vicki Donaghey
	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: 06/11/2007 Original Survey Conducted and Recorded By: David R. Russell Certificate Number: 10201

B 11/13

RCVD NOV 9 '09
OIL CONS. DIV.
DIST. 3

Energen Resources

Rio Arriba County, NM

Sec. 21 T32N R4W

Carracas 21B #1

Wellbore #1

Design: Actual Field Surveys

Sperry Drilling Services Standard Report

15 September, 2009

Well Coordinates: 3,268,214.93 N, 1,355,939.02 E (39° 58' 29.39" N, 107° 15' 54.43" W)
Ground Level: 7,335.00 ft

Local Coordinate Origin:	Centered on Well Carracas 21B #1
Viewing Datum:	RKB @ 7351.00ft (Original Well Elev)
TVDs to System:	N
North Reference:	True
Unit System:	API- Alt
Geodetic Scale Factor Applied	
Version: 2003.16 Build: 431	

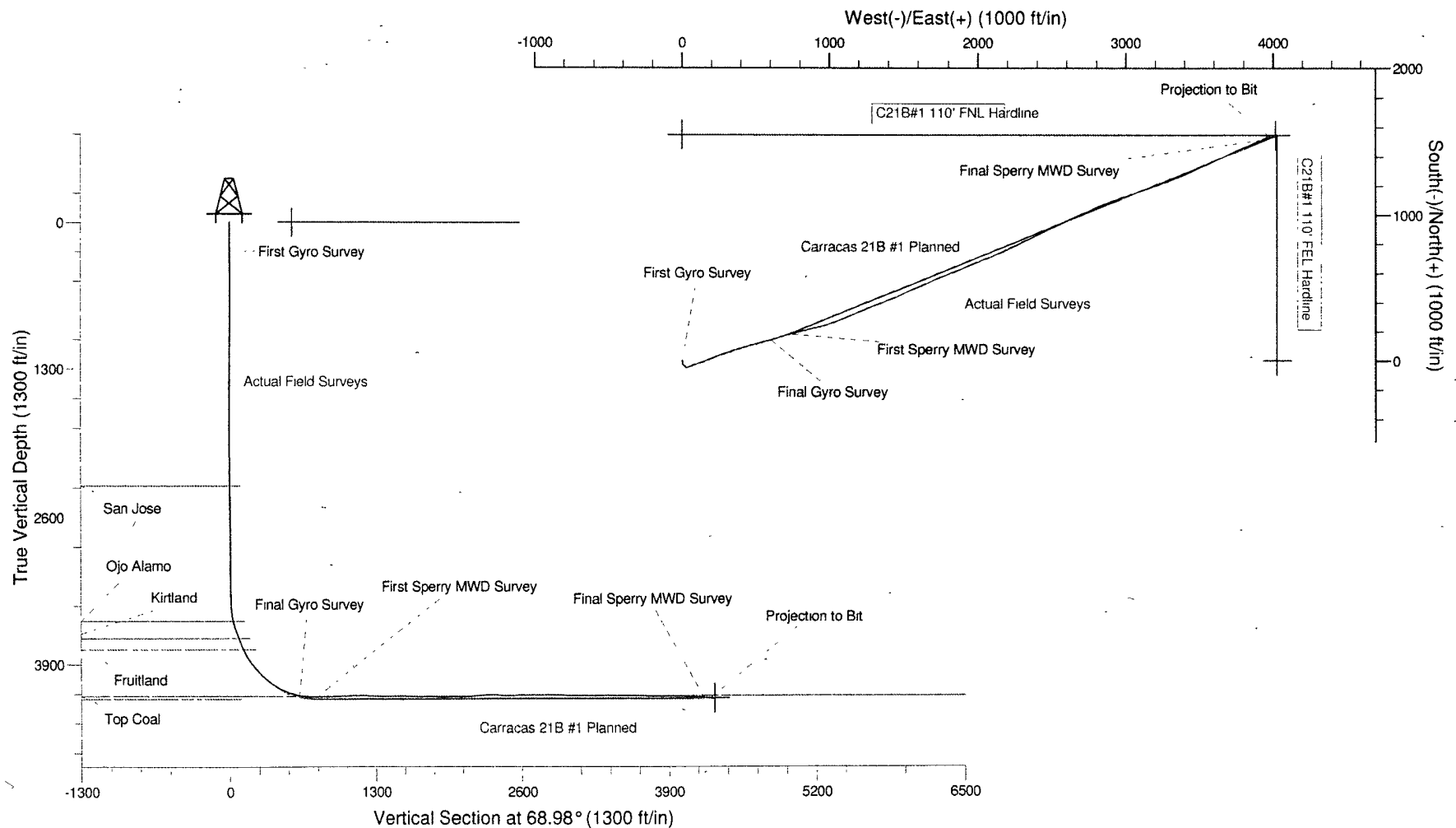
HALLIBURTON

Project: Rio Arriba County, NM
 Site: Sec. 21 T32N R4W
 Well: Carracas 21B #1
 Wellbore: Wellbore #1
 Plan: Actual Field Surveys

Energen Resources

HALLIBURTON
 Drilling and Formation
 Evaluation

WELLBORE TARGET DETAILS (LAT/LONG)								WELL DETAILS: Carracas 21B #1				
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape						
C21B#1 110' FEL Hardline	0.00	0.00	4026.12	39° 58' 29.385 N	107° 15' 2.717 W	Polygdn						
C21B#1 110' FNL Hardline	0.00	1545.00	0.00	39° 58' 44.656 N	107° 15' 54.432 W	Polygdn						
Carracas 21B #1 TD	4204.00	1543.20	4015.10	39° 58' 44.635 N	107° 15' 2.855 W	Point						
								+N/-S	+E/-W	Northing	Ground Level: Easting	Latitude Longitude
								0.00	0.00	3268214.93	7335.00 1355939.02	39° 58' 29.388 N 107° 15' 54.432 W



Design Report for Carracas 21B #1 - Actual Field Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00
C21B#1 110' FNL Hardline							
19.89	0.05	114.050	19.89	0.00	0.01	0.01	0.24
C21B#1 110' FEL Hardline							
254.00	0.62	114.050	254.00	-0.56	1.25	0.97	0.24
First Gyro Survey							
687.00	0.62	178.490	686.97	-3.86	3.46	1.84	0.15
1,122.00	1.06	188.310	1,121.93	-10.19	2.94	-0.92	0.11
1,552.00	0.62	181.690	1,551.88	-16.45	2.29	-3.76	0.10
1,984.00	1.14	144.130	1,983.83	-22.27	4.74	-3.56	0.17
2,320.24	1.21	134.261	2,320.00	-27.46	9.24	-1.22	0.06
San Jose							
2,403.00	1.23	132.020	2,402.74	-28.66	10.53	-0.46	0.06
2,836.00	0.97	140.560	2,835.66	-34.60	16.31	2.81	0.07
3,263.00	2.02	135.840	3,262.51	-42.79	23.85	6.91	0.25
3,300.00	1.93	135.770	3,299.49	-43.70	24.73	7.41	0.24
3,331.00	2.02	126.910	3,330.47	-44.41	25.54	7.90	1.03
3,363.00	2.55	98.050	3,362.45	-44.85	26.69	8.83	3.90
3,394.00	3.52	84.850	3,393.40	-44.86	28.32	10.34	3.84
3,425.00	4.66	77.310	3,424.32	-44.49	30.50	12.51	4.06
3,456.00	7.03	72.300	3,455.16	-43.64	33.53	15.65	7.81
3,488.00	10.20	69.880	3,486.79	-42.07	38.06	20.43	9.97
3,515.78	13.11	66.921	3,514.00	-39.99	43.27	26.04	10.69
Ojo Alamo							
3,519.00	13.45	66.660	3,517.13	-39.70	43.95	26.78	10.69
3,551.00	16.27	67.300	3,548.06	-36.49	51.50	34.98	8.83
3,582.00	17.76	68.010	3,577.70	-33.05	59.90	44.05	4.85
3,614.00	18.73	69.150	3,608.09	-29.39	69.22	54.07	3.23
3,646.00	19.96	70.180	3,638.29	-25.71	79.16	64.67	3.99
3,676.64	20.92	71.218	3,667.00	-22.17	89.26	75.36	3.35
Kirtland							
3,677.00	20.93	71.230	3,667.33	-22.13	89.38	75.49	3.35
3,707.00	21.54	72.560	3,695.30	-18.76	99.71	86.34	2.59
3,738.00	21.98	71.230	3,724.09	-15.19	110.63	97.82	2.13
3,770.00	22.95	71.290	3,753.66	-11.26	122.21	110.04	3.03
3,783.45	23.85	71.029	3,766.00	-9.53	127.27	115.37	6.73
Fruitland							
3,799.00	24.89	70.750	3,780.17	-7.43	133.33	121.79	6.73
3,829.00	27.00	69.710	3,807.14	-2.99	145.68	134.91	7.19
3,861.00	29.46	69.060	3,835.33	2.34	159.84	150.04	7.75
3,892.00	32.27	68.370	3,861.94	8.12	174.66	165.95	9.14
3,924.00	35.26	67.950	3,888.54	14.74	191.16	183.73	9.37
3,955.00	38.25	67.740	3,913.37	21.73	208.34	202.27	9.65
3,987.00	40.63	68.240	3,938.09	29.35	227.19	222.59	7.50
4,019.00	42.82	68.950	3,961.97	37.12	247.02	243.89	7.00
4,051.00	44.67	70.000	3,985.08	44.87	267.74	266.01	6.21
4,082.00	46.78	70.810	4,006.72	52.31	288.65	288.20	7.06
4,113.00	49.42	71.340	4,027.43	59.79	310.47	311.26	8.61
4,144.00	51.88	71.780	4,047.08	67.37	333.21	335.20	8.01
4,175.00	54.17	72.000	4,065.72	75.07	356.75	359.94	7.41

Design Report for Carracas 21B #1 - Actual Field Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
4,207.00	56.37	72.510	4,083.95	83.09	381.80	386.19	7.00
4,239.00	58.48	73.120	4,101.18	91.05	407.56	413.09	6.79
4,270.00	61.29	73.500	4,116.73	98.75	433.24	439.83	9.13
4,302.00	64.72	74.180	4,131.26	106.68	460.63	468.24	10.88
4,334.00	68.41	74.710	4,143.98	114.55	488.91	497.46	11.63
4,365.00	72.28	75.050	4,154.41	122.16	517.08	526.49	12.53
4,397.00	75.01	75.160	4,163.42	130.06	546.76	557.02	8.54
4,429.00	75.89	74.300	4,171.46	138.21	576.63	587.83	3.79
4,461.00	78.79	72.570	4,178.47	147.12	606.56	618.96	10.49
Final Gyro Survey							
4,469.14	79.53	72.699	4,180.00	149.50	614.19	626.94	9.27
Top Coal							
4,610.00	92.41	74.870	4,189.88	188.64	748.82	766.65	9.27
First Sperry MWD Survey							
4,641.00	92.04	75.400	4,188.67	196.58	778.76	797.45	2.08
4,670.00	90.74	74.840	4,187.97	204.03	806.78	826.27	4.88
4,693.00	89.20	75.290	4,187.98	209.96	829.00	849.14	6.98
4,723.00	90.18	76.700	4,188.14	217.21	858.11	878.91	5.72
4,753.00	92.22	77.100	4,187.51	224.01	887.32	908.62	6.93
4,813.00	93.09	75.280	4,184.73	238.32	945.52	968.08	3.36
4,843.00	92.10	72.820	4,183.38	246.55	974.33	997.93	8.83
4,873.00	91.85	70.850	4,182.34	255.90	1,002.82	1,027.87	6.62
4,904.00	92.35	69.020	4,181.21	266.53	1,031.92	1,058.84	6.12
4,934.00	92.72	68.210	4,179.88	277.46	1,059.82	1,088.81	2.97
4,964.00	91.67	67.850	4,178.73	288.67	1,087.63	1,118.79	3.70
4,995.00	89.88	66.780	4,178.31	300.63	1,116.22	1,149.77	6.73
5,025.00	88.27	66.790	4,178.80	312.45	1,143.79	1,179.74	5.37
5,056.00	86.72	66.310	4,180.15	324.77	1,172.20	1,210.68	5.23
5,086.00	86.60	66.700	4,181.90	336.71	1,199.67	1,240.60	1.36
5,117.00	86.61	66.810	4,183.73	348.93	1,228.10	1,271.53	0.36
5,147.00	87.04	67.500	4,185.40	360.56	1,255.70	1,301.46	2.71
5,178.00	88.64	67.410	4,186.56	372.43	1,284.31	1,332.43	5.17
5,208.00	89.63	67.610	4,187.02	383.91	1,312.03	1,362.42	3.37
5,238.00	90.43	67.900	4,187.00	395.26	1,339.80	1,392.41	2.84
5,269.00	91.24	68.100	4,186.55	406.87	1,368.54	1,423.40	2.69
5,299.00	91.79	68.020	4,185.76	418.08	1,396.35	1,453.39	1.85
5,330.00	93.16	68.230	4,184.42	429.62	1,425.09	1,484.35	4.47
5,360.00	92.04	67.140	4,183.06	441.00	1,452.82	1,514.32	5.21
5,391.00	88.15	65.330	4,183.00	453.49	1,481.18	1,545.27	13.84
5,421.00	86.30	63.550	4,184.46	466.41	1,508.21	1,575.14	8.55
5,451.00	86.98	64.690	4,186.22	479.49	1,535.16	1,604.98	4.42
5,480.00	88.02	65.870	4,187.48	491.60	1,561.47	1,633.89	5.42
5,510.00	88.64	65.990	4,188.36	503.83	1,588.85	1,663.84	2.10
5,539.00	89.20	65.890	4,188.90	515.65	1,615.33	1,692.79	1.96
5,569.00	89.75	65.620	4,189.18	527.97	1,642.68	1,722.74	2.04
5,600.00	90.00	66.330	4,189.24	540.59	1,671.00	1,753.70	2.43
5,629.00	89.14	66.910	4,189.46	552.10	1,697.61	1,782.67	3.58
5,660.00	86.67	66.730	4,190.59	564.29	1,726.09	1,813.63	7.99
5,690.00	86.79	66.760	4,192.31	576.12	1,753.61	1,843.56	0.41
5,721.00	87.84	67.580	4,193.76	588.13	1,782.15	1,874.51	4.30
5,751.00	90.49	68.200	4,194.20	599.42	1,809.93	1,904.50	9.07

Design Report for Carracas 21B #1 - Actual Field Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
5,781.00	91.24	67.990	4,193.74	610.61	1,837.77	1,934.49	2.60
5,812.00	91.30	67.910	4,193.06	622.25	1,866.49	1,965.48	0.32
5,843.00	90.43	66.720	4,192.59	634.20	1,895.09	1,996.46	4.75
5,873.00	90.19	66.380	4,192.43	646.14	1,922.61	2,026.43	1.39
5,902.00	90.56	66.260	4,192.24	657.79	1,949.17	2,055.40	1.34
5,931.00	91.30	66.690	4,191.76	669.36	1,975.75	2,084.37	2.95
5,961.00	92.47	67.570	4,190.78	681.01	2,003.38	2,114.33	4.88
5,991.00	95.93	68.290	4,188.58	692.25	2,031.10	2,144.24	11.78
6,022.00	96.75	68.520	4,185.16	703.59	2,059.75	2,175.05	2.75
6,052.00	95.06	67.390	4,182.07	714.79	2,087.41	2,204.89	6.77
6,082.00	92.66	67.010	4,180.05	726.39	2,115.00	2,234.80	8.10
6,112.00	92.23	66.070	4,178.77	738.32	2,142.49	2,264.75	3.44
6,143.00	92.78	65.720	4,177.42	750.97	2,170.76	2,295.67	2.10
6,173.00	91.23	64.660	4,176.37	763.55	2,197.98	2,325.59	6.26
6,204.00	87.90	63.740	4,176.60	777.04	2,225.88	2,356.48	11.14
6,234.00	85.68	63.260	4,178.28	790.41	2,252.69	2,386.29	7.57
6,264.00	85.49	63.250	4,180.59	803.87	2,279.40	2,416.05	0.63
6,294.00	87.77	64.370	4,182.36	817.08	2,306.27	2,445.88	8.46
6,324.00	90.00	65.260	4,182.94	829.85	2,333.41	2,475.79	8.00
6,355.00	91.67	64.970	4,182.49	842.89	2,361.53	2,506.71	5.47
6,386.00	92.78	64.610	4,181.28	856.08	2,389.55	2,537.61	3.76
6,419.00	93.58	64.320	4,179.45	870.29	2,419.28	2,570.45	2.58
6,449.00	91.54	63.980	4,178.11	883.35	2,446.25	2,600.32	6.89
6,481.00	89.88	63.950	4,177.72	897.40	2,475.00	2,632.19	5.19
6,513.00	89.69	63.600	4,177.84	911.54	2,503.71	2,664.06	1.24
6,545.00	89.88	64.160	4,177.96	925.62	2,532.44	2,695.93	1.85
6,577.00	90.12	63.900	4,177.96	939.64	2,561.21	2,727.81	1.11
6,608.00	90.62	63.650	4,177.76	953.34	2,589.02	2,758.68	1.80
6,671.00	89.75	65.400	4,177.55	980.43	2,645.89	2,821.49	3.10
6,703.00	90.43	64.960	4,177.50	993.86	2,674.93	2,853.42	2.53
6,735.00	88.46	64.670	4,177.81	1,007.48	2,703.89	2,885.33	6.22
6,766.00	88.15	65.670	4,178.73	1,020.49	2,732.01	2,916.25	3.38
6,798.00	88.08	66.280	4,179.78	1,033.51	2,761.22	2,948.19	1.92
6,830.00	87.28	66.060	4,181.08	1,046.43	2,790.47	2,980.12	2.59
6,862.00	88.46	66.350	4,182.27	1,059.33	2,819.73	3,012.06	3.80
6,893.00	89.82	67.660	4,182.73	1,071.44	2,848.26	3,043.04	6.09
6,925.00	90.80	68.560	4,182.56	1,083.37	2,877.95	3,075.04	4.16
6,957.00	90.00	69.330	4,182.34	1,094.87	2,907.81	3,107.04	3.47
6,988.00	88.21	70.030	4,182.82	1,105.63	2,936.88	3,138.03	6.20
7,019.00	87.96	70.400	4,183.86	1,116.12	2,966.03	3,169.00	1.44
7,051.00	88.58	70.380	4,184.82	1,126.85	2,996.16	3,200.98	1.94
7,082.00	89.88	70.800	4,185.24	1,137.15	3,025.40	3,231.96	4.41
7,114.00	90.74	70.860	4,185.07	1,147.66	3,055.62	3,263.94	2.69
7,146.00	91.55	71.200	4,184.43	1,158.06	3,085.88	3,295.92	2.75
7,177.00	91.30	70.380	4,183.66	1,168.26	3,115.14	3,326.89	2.76
7,208.00	90.00	70.130	4,183.30	1,178.73	3,144.32	3,357.88	4.27
7,240.00	88.46	70.370	4,183.73	1,189.54	3,174.43	3,389.87	4.87
7,272.00	88.21	70.110	4,184.66	1,200.36	3,204.54	3,421.85	1.13
7,303.00	88.40	69.820	4,185.58	1,210.97	3,233.65	3,452.83	1.12
7,335.00	88.64	69.320	4,186.41	1,222.14	3,263.62	3,484.82	1.73
7,366.00	90.12	68.190	4,186.74	1,233.37	3,292.51	3,515.81	6.01

Design Report for Carracas 21B #1 - Actual Field Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
7,398.00	90.25	68.540	4,186.64	1,245.17	3,322.26	3,547.81	1.17
7,429.00	90.68	67.950	4,186.39	1,256.66	3,351.05	3,578.81	2.36
7,461.00	90.62	67.040	4,186.02	1,268.91	3,380.61	3,610.80	2.85
7,492.00	89.51	65.840	4,185.99	1,281.30	3,409.03	3,641.76	5.27
7,524.00	87.96	64.900	4,186.70	1,294.63	3,438.11	3,673.69	5.66
7,555.00	88.33	64.920	4,187.70	1,307.77	3,466.17	3,704.60	1.20
7,587.00	88.09	64.270	4,188.70	1,321.49	3,495.06	3,736.49	2.16
7,618.00	88.46	64.540	4,189.63	1,334.87	3,523.00	3,767.38	1.48
7,649.00	88.77	65.350	4,190.38	1,348.00	3,551.08	3,798.29	2.80
7,681.00	89.69	65.690	4,190.81	1,361.26	3,580.20	3,830.23	3.07
7,712.00	90.74	65.730	4,190.70	1,374.01	3,608.45	3,861.18	3.39
7,744.00	90.43	65.570	4,190.37	1,387.20	3,637.60	3,893.12	1.09
7,776.00	89.07	66.260	4,190.51	1,400.26	3,666.82	3,925.07	4.77
7,807.00	88.09	65.710	4,191.28	1,412.87	3,695.13	3,956.02	3.62
7,839.00	87.10	65.040	4,192.62	1,426.19	3,724.19	3,987.93	3.73
7,871.00	87.15	64.740	4,194.22	1,439.76	3,753.13	4,019.81	0.95
7,902.00	87.72	66.030	4,195.61	1,452.66	3,781.28	4,050.72	4.55
7,933.00	88.02	67.050	4,196.76	1,464.99	3,809.70	4,081.67	3.43
7,965.00	88.27	66.720	4,197.80	1,477.54	3,839.12	4,113.63	1.29
7,997.00	88.52	66.370	4,198.70	1,490.28	3,868.46	4,145.59	1.34
8,028.00	88.95	66.070	4,199.38	1,502.77	3,896.82	4,176.54	1.69
8,060.00	88.70	66.020	4,200.04	1,515.76	3,926.06	4,208.49	0.80
Final Sperry MWD Survey							
8,119.00	88.70	66.020	4,201.38	1,539.74	3,979.95	4,267.40	0.00
Projection to Bit - Carracas 21B #1 TD							

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
254.00	254.00	-0.56	1.25	First Gyro Survey
4,461.00	4,178.47	147.12	606.56	Final Gyro Survey
4,610.00	4,189.88	188.64	748.82	First Sperry MWD Survey
8,060.00	4,200.04	1,515.76	3,926.06	Final Sperry MWD Survey
8,119.00	4,201.38	1,539.74	3,979.95	Projection to Bit

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	Carracas 21B #1 TD	68.976	Slot	0.00	0.00	4,204.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
254.00	4,461.00	Surveys from Energen	MWD
4,610.00	8,119.00	Sperry MWD Surveys	MWD

Design Report for Carracas 21B #1 - Actual Field Surveys

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	TVDSS (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	4,204.00	-3,147.00	Bottom Coal		0.000	
2,320.24	2,320.00	-5,031.00	San Jose		0.000	
3,515.78	3,514.00	-3,837.00	Ojo Alamo		0.000	
3,676.64	3,667.00	-3,684.00	Kirtland		0.000	
3,783.45	3,766.00	-3,585.00	Fruitland		0.000	
4,469.14	4,180.00	-3,171.00	Top Coal		0.000	

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
C21B#1 110' FNL Harc	0.00	0.00	0.00	1,545.00	0.00	3,269,759.82	1,355,956.60	39° 58' 44.656 N	107° 15' 54.432 W
- actual wellpath misses target center by 1545.00ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1				0.00	1,545.00	3,269,759.82	1,355,956.60		
Point 2				4,026.12	1,545.00	3,269,713.99	1,359,982.43		
Carracas 21B #1 TD	0.00	0.00	4,204.00	1,543.20	4,015.10	3,269,712.31	1,359,971.39	39° 58' 44.635 N	107° 15' 2.855 W
- actual wellpath misses target center by 35.42ft at 8119.00ft MD (4201.38 TVD, 1539.74 N, 3979.95 E)									
- Point									
C21B#1 110' FEL Harc	0.00	0.00	0.00	0.00	4,026.12	3,268,169.10	1,359,964.84	39° 58' 29.385 N	107° 15' 2.717 W
- actual wellpath misses target center by 4026.12ft at 1.56ft MD (1.56 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1				4,026.12	0.00	3,268,169.10	1,359,964.84		
Point 2				4,026.12	1,545.00	3,269,713.99	1,359,982.43		