

Da Vinci 7 Federal Com #5H

NM Eddy County

STRUCTURE
Cactus 116

[illegible]

Legend

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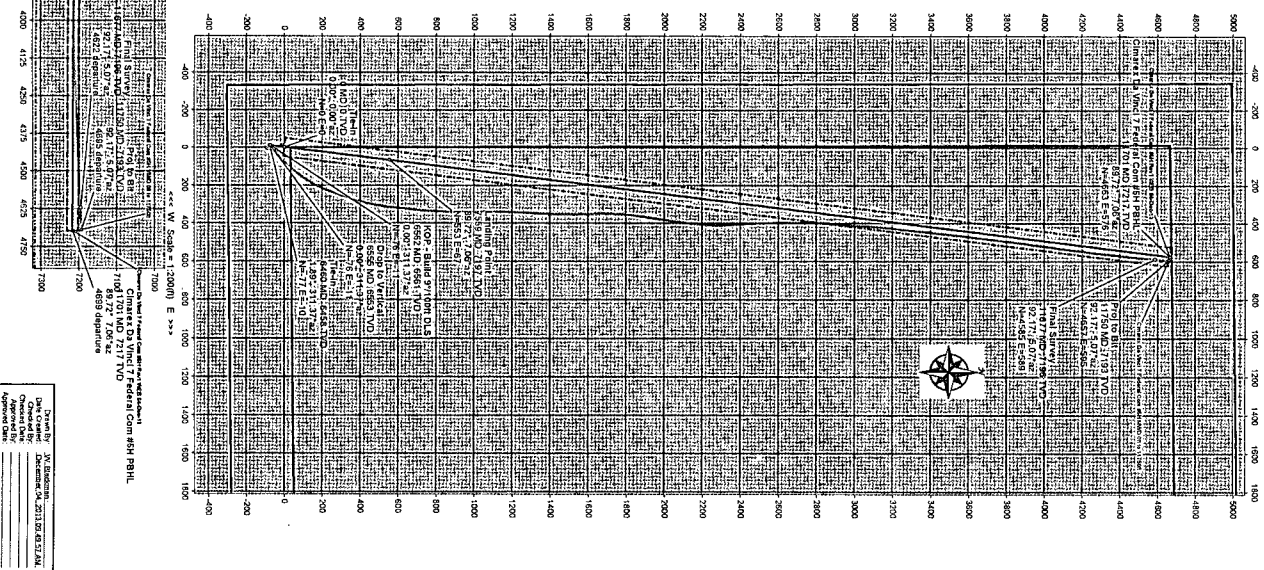
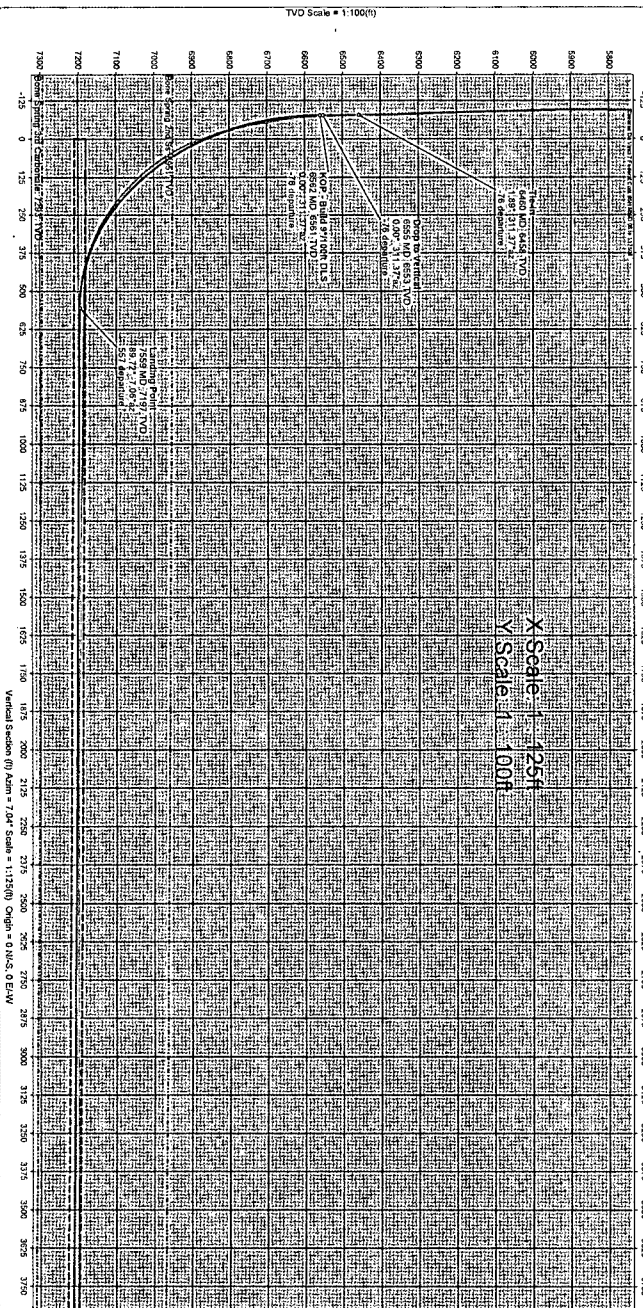
Grid North

Tot Corr (M->G 7.6513°)

Mag Dec (7.703°)

Grid Conv (0.051°)

Comments	Critical Points															
	Save MDU	Acceleration	Armatured	UDG	Sp. Sea MD	USD	USD JEWEL	Latitudes	Longitudes	US Landing	Closure	Armatured	DLS/UDG	Tool Reading		
SH. Chien Ba Vinc 1 Federal Cont 534	0.00	0.00	0.00	-327.00	0.00	N 32	8 E 6.870	W 104 4 12.285	571183.50	443690.50	0.00		245.65			
Item	6649.00	1.89	31.37	6648.26	3231.26	-77.44	-76.77	-0.17	N 32	8 E 6.100	W 104 4 12.294	571178.53	443832.74	77.44	187.55	
Drop to Vertical	6654.50	0.00	31.37	6552.74	3325.4	-76.55	-75.74	-1.33	N 32	8 E 6.121	W 104 4 12.283	571177.46	443884.77	76.58	188.52	
KCP - Build 971004 DLS	6592.26	0.00	31.37	6660.50	3333.50	-75.55	-75.74	-1.33	N 32	8 E 6.121	W 104 4 12.295	571177.46	443884.77	76.58	188.52	
Warning Point	7559.82	89.72	7.05	7197.00	3870.00	-55.85	-55.90	66.57	N 32	8 E 2.400	W 104 4 12.058	571255.56	444611.35	56.50	6.87	
Chien Ba Vinc 7 Federal Cont 651 PPHL	11703.82	89.72	7.05	12717.00	3960.00	4639.64	4665.23	575.80	N 32	9 3.009	W 104 4 6.059	571764.55	446227.30	4639.64	7.04	0.00



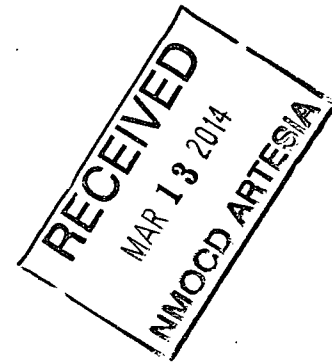
Drawn By: J.V. Eudeman
Date Created: December 04, 2013, 09:49:57 AM
Checked By:
Checked Date:
Approved By:
Approved Date:



Cimarex Da Vinci 7 Federal Com #5H MWD 0ft to 11750ft Survey Report

(Non-Def Survey)

Report Date:	December 10, 2013 - 09:03 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Cimarex	Vertical Section Azimuth:	7.039 ° (Grid North)
Field:	NM Eddy County (NAD 83)	Vertical Section Origin:	0.000 ft, 0.000 ft
Structure / Slot:	Cimarex Da Vinci 7 Federal Com #5H / Cimarex Da Vinci 7 Federal Com #5H	TVD Reference Datum:	RKB
Well:	Cimarex Da Vinci 7 Federal Com #5H	TVD Reference Elevation:	3227.000 ft above
Borehole:	Original Borehole	Seabed / Ground Elevation:	3209.000 ft above
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7.698 °
Survey Name:	Cimarex Da Vinci 7 Federal Com #5H MWD 0ft to 11750ft	Total Field Strength:	48222.850 nT
Survey Date:	November 27, 2013	Magnetic Dip Angle:	59.913 °
Tort / AHD / DDI / ERD Ratio:	186.392 ° / 4992.966 ft / 6.181 / 0.692	Declination Date:	November 27, 2013
Coordinate Reference System:	NAD83 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Declination Model:	BGGM 2013
Location Lat / Long:	N 32° 8' 16.86990", W 104° 14' 12.80537"	North Reference:	Grid North
Location Grid N/E Y/X:	N 413960.500 ftUS, E 571188.800 ftUS	Grid Convergence Used:	0.0513 °
CRS Grid Convergence Angle:	0.0513 °	Total Corr Mag North->Grid North:	7.6471 °
Grid Scale Factor:	0.99991011	Local Coord Referenced To:	Structure Reference Point



Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Tie-In	0.00	0.00	0.00	0.00	-3227.00	0.00	0.00	0.00	N/A	413960.50	571188.80	N 32 8 16.87	W 104 14 12.81
	488.00	1.01	245.85	487.97	-2739.03	-2.23	-1.76	-3.92	0.21	413958.74	571184.88	N 32 8 16.85	W 104 14 12.85
	511.00	0.88	243.56	510.97	-2716.03	-2.43	-1.92	-4.27	0.59	413958.58	571184.53	N 32 8 16.85	W 104 14 12.86
	604.00	0.88	238.16	603.96	-2623.04	-3.27	-2.62	-5.51	0.09	413957.88	571183.29	N 32 8 16.84	W 104 14 12.87
	668.00	1.19	230.46	667.95	-2559.05	-4.06	-3.30	-6.44	0.53	413957.20	571182.36	N 32 8 16.84	W 104 14 12.88
	759.00	1.01	228.84	758.93	-2468.07	-5.35	-4.43	-7.78	0.20	413956.07	571181.02	N 32 8 16.83	W 104 14 12.90
	849.00	1.10	230.16	848.92	-2378.08	-6.57	-5.50	-9.04	0.10	413955.00	571179.76	N 32 8 16.82	W 104 14 12.91
	941.00	1.19	231.17	940.90	-2286.10	-7.90	-6.67	-10.46	0.10	413953.83	571178.34	N 32 8 16.80	W 104 14 12.93
	1032.00	1.19	232.35	1031.88	-2195.12	-9.24	-7.84	-11.94	0.03	413952.66	571176.86	N 32 8 16.79	W 104 14 12.94
	1123.00	1.19	222.47	1122.86	-2104.14	-10.68	-9.11	-13.33	0.23	413951.39	571175.47	N 32 8 16.78	W 104 14 12.96
	1214.00	1.10	212.54	1213.84	-2013.16	-12.24	-10.55	-14.44	0.24	413949.96	571174.36	N 32 8 16.77	W 104 14 12.97
	1304.00	1.10	192.36	1303.83	-1923.17	-13.87	-12.12	-15.09	0.43	413948.38	571173.71	N 32 8 16.75	W 104 14 12.98
	1400.00	1.01	177.86	1399.81	-1827.19	-15.63	-13.86	-15.25	0.29	413946.64	571173.55	N 32 8 16.73	W 104 14 12.98
	1494.00	1.01	169.64	1493.80	-1733.20	-17.24	-15.51	-15.07	0.15	413945.00	571173.73	N 32 8 16.72	W 104 14 12.98
	1589.00	1.32	152.86	1588.78	-1638.22	-18.94	-17.30	-14.42	0.48	413943.20	571174.38	N 32 8 16.70	W 104 14 12.97
	1649.00	1.49	137.43	1648.76	-1578.24	-20.02	-18.49	-13.58	0.69	413942.01	571175.22	N 32 8 16.69	W 104 14 12.96
	1777.00	1.49	132.07	1776.72	-1450.28	-22.05	-20.83	-11.22	0.11	413939.67	571177.58	N 32 8 16.66	W 104 14 12.94
	1878.00	1.49	135.15	1877.68	-1349.32	-23.62	-22.64	-9.32	0.08	413937.86	571179.48	N 32 8 16.65	W 104 14 12.91
	1949.00	1.19	139.37	1948.66	-1278.34	-24.68	-23.86	-8.19	0.44	413936.64	571180.61	N 32 8 16.63	W 104 14 12.90
	2043.00	1.10	140.73	2042.64	-1184.36	-25.96	-25.30	-6.98	0.10	413935.20	571181.82	N 32 8 16.62	W 104 14 12.89
	2138.00	1.19	130.05	2137.62	-1089.38	-27.13	-26.64	-5.65	0.24	413933.86	571183.15	N 32 8 16.61	W 104 14 12.87
	2233.00	1.10	142.05	2232.60	-994.40	-28.31	-27.99	-4.33	0.27	413932.51	571184.47	N 32 8 16.59	W 104 14 12.86
	2328.00	1.19	147.67	2327.59	-899.41	-29.72	-29.54	-3.24	0.15	413930.96	571185.56	N 32 8 16.58	W 104 14 12.84
	2423.00	1.32	147.14	2422.56	-804.44	-31.32	-31.30	-2.12	0.14	413929.21	571186.68	N 32 8 16.56	W 104 14 12.83
	2516.00	1.19	149.03	2515.54	-711.46	-32.90	-33.03	-1.04	0.15	413927.48	571187.76	N 32 8 16.54	W 104 14 12.82
	2610.00	1.32	153.34	2609.52	-617.48	-34.57	-34.83	-0.06	0.17	413925.67	571188.74	N 32 8 16.53	W 104 14 12.81
	2705.00	1.32	141.65	2704.49	-522.51	-36.25	-36.67	1.11	0.28	413923.84	571189.91	N 32 8 16.51	W 104 14 12.79
	2799.00	1.19	153.37	2798.47	-428.53	-37.83	-38.39	2.22	0.31	413922.12	571191.02	N 32 8 16.49	W 104 14 12.78

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	2894.00	1.32	148.24	2893.45	-333.55	-39.50	-40.20	3.24	0.18	413920.30	571192.04	N 32 8 16.47	W 104 14 12.77
	2988.00	1.10	154.83	2987.43	-239.57	-41.11	-41.94	4.19	0.28	413918.57	571192.99	N 32 8 16.45	W 104 14 12.76
	3082.00	1.19	147.54	3081.41	-145.59	-42.62	-43.58	5.10	0.18	413916.93	571193.90	N 32 8 16.44	W 104 14 12.75
	3177.00	1.19	148.07	3176.39	-50.61	-44.15	-45.25	6.15	0.01	413915.26	571194.95	N 32 8 16.42	W 104 14 12.73
	3272.00	1.32	155.45	3271.37	44.37	-45.85	-47.08	7.13	0.22	413913.43	571195.93	N 32 8 16.40	W 104 14 12.72
	3366.00	1.10	154.97	3365.34	138.34	-47.54	-48.88	7.98	0.23	413911.62	571196.76	N 32 8 16.39	W 104 14 12.71
	3458.00	1.10	164.94	3457.33	230.33	-49.10	-50.53	8.56	0.21	413909.97	571197.36	N 32 8 16.37	W 104 14 12.71
	3554.00	1.19	156.15	3553.31	326.31	-50.81	-52.34	9.21	0.21	413908.17	571198.01	N 32 8 16.35	W 104 14 12.70
	3653.00	1.32	156.07	3652.28	425.28	-52.67	-54.32	10.09	0.13	413906.19	571198.88	N 32 8 16.33	W 104 14 12.69
	3746.00	1.41	161.34	3745.26	518.26	-54.62	-56.38	10.89	0.17	413904.12	571199.68	N 32 8 16.31	W 104 14 12.68
	3840.00	1.32	165.16	3839.23	612.23	-56.67	-58.52	11.53	0.14	413901.98	571200.33	N 32 8 16.29	W 104 14 12.67
	3935.00	1.19	159.76	3934.21	707.21	-58.56	-60.51	12.15	0.18	413900.00	571200.95	N 32 8 16.27	W 104 14 12.66
	4029.00	0.88	185.16	4028.19	801.19	-60.15	-62.14	12.43	0.58	413898.36	571201.23	N 32 8 16.25	W 104 14 12.66
	4124.00	1.19	194.03	4123.18	896.18	-61.86	-63.83	12.12	0.37	413896.68	571200.92	N 32 8 16.24	W 104 14 12.67
	4218.00	1.10	198.87	4217.16	990.16	-63.71	-65.63	11.59	0.14	413894.88	571200.39	N 32 8 16.22	W 104 14 12.67
	4315.00	1.32	188.85	4314.14	1087.14	-65.74	-67.61	11.12	0.31	413892.89	571199.92	N 32 8 16.20	W 104 14 12.68
	4409.00	1.32	186.87	4408.11	1181.11	-67.90	-69.76	10.83	0.05	413890.75	571199.62	N 32 8 16.18	W 104 14 12.68
	4504.00	1.49	182.65	4503.08	1276.08	-70.23	-72.08	10.64	0.21	413888.43	571199.44	N 32 8 16.16	W 104 14 12.68
	4598.00	1.32	185.86	4597.06	1370.06	-72.53	-74.37	10.47	0.20	413886.13	571199.27	N 32 8 16.13	W 104 14 12.68
	4693.00	1.19	181.55	4692.03	1465.03	-74.61	-76.45	10.33	0.17	413884.06	571199.13	N 32 8 16.11	W 104 14 12.69
	4787.00	0.62	175.53	4786.02	1559.02	-76.08	-77.93	10.34	0.61	413882.58	571199.14	N 32 8 16.10	W 104 14 12.69
	4881.00	0.88	176.06	4880.01	1653.01	-77.28	-79.16	10.43	0.28	413881.35	571199.23	N 32 8 16.09	W 104 14 12.68
	4977.00	1.01	175.84	4976.00	1749.00	-78.84	-80.74	10.55	0.14	413879.77	571199.35	N 32 8 16.07	W 104 14 12.68
	5071.00	1.10	173.34	5069.98	1842.98	-80.53	-82.46	10.71	0.11	413878.05	571199.51	N 32 8 16.05	W 104 14 12.68
	5165.00	1.01	178.74	5163.97	1936.97	-82.22	-84.18	10.83	0.14	413876.32	571199.63	N 32 8 16.04	W 104 14 12.68
	5260.00	1.32	179.75	5258.95	2031.95	-84.14	-86.12	10.86	0.33	413874.39	571199.66	N 32 8 16.02	W 104 14 12.68
	5354.00	1.32	189.33	5352.92	2125.92	-86.29	-88.27	10.69	0.23	413872.24	571199.49	N 32 8 16.00	W 104 14 12.68
	5448.00	1.32	186.56	5446.90	2219.90	-88.46	-90.41	10.39	0.07	413870.10	571199.19	N 32 8 15.98	W 104 14 12.69
	5545.00	1.32	192.45	5543.87	2316.87	-90.69	-92.61	10.02	0.14	413867.90	571198.82	N 32 8 15.95	W 104 14 12.69
	5641.00	0.70	198.87	5639.86	2412.86	-92.36	-94.25	9.59	0.66	413866.26	571198.39	N 32 8 15.94	W 104 14 12.69
	5736.00	0.79	259.34	5734.85	2507.85	-93.13	-94.92	8.76	0.79	413865.59	571197.56	N 32 8 15.93	W 104 14 12.70
	5829.00	1.71	261.75	5827.83	2600.83	-93.69	-95.23	6.76	0.99	413865.27	571195.56	N 32 8 15.93	W 104 14 12.73
	5924.00	2.02	282.76	5922.78	2695.78	-93.90	-95.07	3.72	0.78	413865.44	571192.52	N 32 8 15.93	W 104 14 12.76
	6019.00	2.29	321.43	6017.72	2790.72	-92.40	-93.21	0.90	1.53	413867.29	571189.70	N 32 8 15.95	W 104 14 12.80
	6112.00	2.68	325.56	6110.63	2883.63	-89.47	-89.97	-1.48	0.46	413870.54	571187.32	N 32 8 15.98	W 104 14 12.82
	6207.00	2.68	335.67	6205.52	2978.52	-85.91	-86.11	-3.66	0.50	413874.39	571185.14	N 32 8 16.02	W 104 14 12.85
	6302.00	2.90	328.95	6300.41	3073.41	-82.12	-82.03	-5.81	0.41	413878.48	571182.99	N 32 8 16.06	W 104 14 12.87
	6396.00	2.50	317.17	6394.31	3167.31	-78.93	-78.49	-8.43	0.73	413882.02	571180.37	N 32 8 16.09	W 104 14 12.90
	6460.00	1.89	311.37	6458.26	3231.26	-77.44	-76.77	-10.17	1.01	413883.74	571178.63	N 32 8 16.11	W 104 14 12.92
	6507.00	1.86	306.51	6505.24	3278.24	-76.62	-75.80	-11.37	0.34	413884.70	571177.43	N 32 8 16.12	W 104 14 12.94
	6565.00	4.38	53.92	6563.18	3336.18	-74.65	-73.94	-10.33	9.04	413886.57	571178.47	N 32 8 16.14	W 104 14 12.93
	6599.00	8.03	53.76	6596.97	3369.97	-72.13	-71.77	-7.37	10.74	413888.74	571181.43	N 32 8 16.16	W 104 14 12.89
	6630.00	11.13	50.04	6627.54	3400.54	-68.46	-68.57	-3.33	10.19	413891.94	571185.47	N 32 8 16.19	W 104 14 12.84
	6660.00	13.96	47.39	6656.82	3429.82	-63.58	-64.26	1.56	9.62	413896.25	571190.36	N 32 8 16.23	W 104 14 12.79
	6694.00	15.67	48.06	6689.69	3462.69	-56.99	-58.41	7.99	5.05	413902.10	571196.79	N 32 8 16.29	W 104 14 12.71
	6725.00	17.48	52.27	6719.40	3492.40	-50.55	-52.76	14.79	7.00	413907.74	571203.59	N 32 8 16.35	W 104 14 12.63
	6755.00	19.67	54.82	6747.83	3520.83	-43.98	-47.09	22.48	7.78	413913.41	571211.28	N 32 8 16.40	W 104 14 12.54
	6855.00	28.41	48.47	6839.09	3612.09	-14.78	-21.57	54.11	9.10	413938.93	571242.91	N 32 8 16.66	W 104 14 12.18
	6949.00	36.41	44.65	6918.39	3691.39	24.15	13.16	90.52	8.78	413973.66	571279.31	N 32 8 17.00	W 104 14 11.75
	7044.00	46.36	39.00	6989.60	3762.60	75.80	60.07	132.09	11.18	414020.56	571320.87	N 32 8 17.46	W 104 14 11.27
	7139.00	53.19	32.21	7050.96	3823.96	139.50	119.07	174.07	9.02	414079.56	571362.85	N 32 8 18.05	W 104 14 10.78
	7234.00	60.58	24.31	7102.88	3875.88	213.62	189.13	211.47	10.43	414149.61	571400.25	N 32 8 18.74	W 104 14 10.34

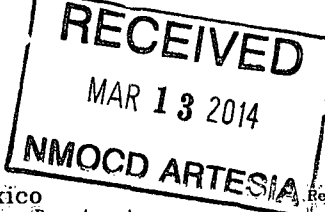
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
	7329.00	67.59	20.11	7144.39	3917.39	296.03	268.20	243.65	8.38	414228.67	571432.43	N 32 8 19.52	W 104 14 9.97
	7423.00	77.95	17.63	7172.20	3945.20	383.79	353.05	272.59	11.30	414313.51	571461.37	N 32 8 20.36	W 104 14 9.63
	7517.00	88.35	12.62	7183.40	3956.40	476.04	443.00	296.86	12.26	414403.46	571485.63	N 32 8 21.25	W 104 14 9.35
	7612.00	89.79	7.50	7184.94	3957.94	570.86	536.49	313.45	5.60	414496.94	571502.22	N 32 8 22.18	W 104 14 9.15
	7706.00	89.14	6.44	7185.82	3958.82	664.86	629.79	324.85	1.32	414590.24	571513.62	N 32 8 23.10	W 104 14 9.02
	7801.00	89.28	3.82	7187.13	3960.13	759.79	724.40	333.34	2.76	414684.83	571522.11	N 32 8 24.04	W 104 14 8.92
	7896.00	90.31	3.49	7187.47	3960.47	854.62	819.20	339.40	1.14	414779.63	571528.17	N 32 8 24.97	W 104 14 8.85
	7988.00	89.24	359.36	7187.83	3960.83	946.15	911.15	341.69	4.64	414871.57	571530.46	N 32 8 25.88	W 104 14 8.82
	8083.00	89.07	358.81	7189.23	3962.23	1040.23	1006.13	340.17	0.61	414966.53	571528.94	N 32 8 26.82	W 104 14 8.84
	8177.00	88.73	0.16	7191.04	3964.04	1133.39	1100.10	339.33	1.48	415060.50	571528.10	N 32 8 27.75	W 104 14 8.85
	8272.00	88.66	2.98	7193.20	3966.20	1227.93	1195.03	341.93	2.97	415155.42	571530.70	N 32 8 28.69	W 104 14 8.82
	8366.00	89.38	3.07	7194.81	3967.81	1321.68	1288.89	346.89	0.77	415249.27	571535.66	N 32 8 29.62	W 104 14 8.76
	8462.00	89.86	2.29	7195.44	3968.44	1417.40	1384.78	351.38	0.95	415345.15	571540.14	N 32 8 30.57	W 104 14 8.70
	8556.00	90.72	0.61	7194.97	3967.97	1510.95	1478.74	353.76	2.01	415439.11	571542.52	N 32 8 31.50	W 104 14 8.68
	8653.00	89.66	358.34	7194.65	3967.65	1607.10	1575.73	352.87	2.58	415536.09	571541.63	N 32 8 32.46	W 104 14 8.69
	8747.00	88.83	358.91	7195.89	3968.89	1700.08	1669.70	350.61	1.07	415630.04	571539.38	N 32 8 33.39	W 104 14 8.71
	8842.00	88.66	3.41	7197.97	3970.97	1794.53	1764.63	352.53	4.74	415724.97	571541.30	N 32 8 34.33	W 104 14 8.69
	8936.00	88.38	7.88	7200.40	3973.40	1888.45	1858.12	361.77	4.76	415818.45	571550.54	N 32 8 35.25	W 104 14 8.58
	9031.00	89.52	10.11	7202.14	3975.14	1983.37	1951.93	376.62	2.64	415912.25	571565.39	N 32 8 36.18	W 104 14 8.40
	9126.00	90.10	7.27	7202.45	3975.45	2078.32	2045.83	390.98	3.05	416006.14	571579.74	N 32 8 37.11	W 104 14 8.24
	9220.00	89.97	6.62	7202.40	3975.40	2172.32	2139.14	402.34	0.71	416099.44	571591.10	N 32 8 38.03	W 104 14 8.10
	9315.00	90.48	2.57	7202.02	3975.02	2267.21	2233.81	409.95	4.30	416194.10	571598.71	N 32 8 38.97	W 104 14 8.01
	9435.00	89.28	356.76	7202.27	3975.27	2386.16	2353.75	409.25	4.94	416314.04	571598.01	N 32 8 40.16	W 104 14 8.02
	9530.00	89.52	356.86	7203.27	3976.27	2479.65	2448.60	403.96	0.27	416408.88	571592.73	N 32 8 41.10	W 104 14 8.08
	9624.00	89.38	358.52	7204.17	3977.17	2572.39	2542.52	400.17	1.77	416502.78	571588.94	N 32 8 42.03	W 104 14 8.12
	9719.00	89.62	359.57	7205.00	3978.00	2666.47	2637.50	398.59	1.13	416597.76	571587.35	N 32 8 42.97	W 104 14 8.14
	9814.00	89.72	0.46	7205.55	3978.55	2760.75	2732.50	398.62	0.94	416692.75	571587.38	N 32 8 43.91	W 104 14 8.14
	9908.00	89.52	2.58	7206.17	3979.17	2854.31	2826.46	401.11	2.27	416786.70	571589.87	N 32 8 44.83	W 104 14 8.11
	10002.00	89.59	3.45	7206.90	3979.90	2948.07	2920.32	406.05	0.93	416880.55	571594.82	N 32 8 45.76	W 104 14 8.05
	10096.00	89.31	3.98	7207.80	3980.80	3041.91	3014.12	412.14	0.64	416974.34	571600.91	N 32 8 46.69	W 104 14 7.98
	10191.00	89.66	5.39	7208.66	3981.66	3136.82	3108.80	419.90	1.53	417069.01	571608.66	N 32 8 47.63	W 104 14 7.89
	10286.00	89.55	6.19	7209.31	3982.31	3231.80	3203.31	429.49	0.85	417163.51	571618.25	N 32 8 48.56	W 104 14 7.78
	10381.00	89.72	6.18	7209.92	3982.92	3326.78	3297.75	439.72	0.18	417257.95	571628.48	N 32 8 49.50	W 104 14 7.66
	10475.00	89.59	6.04	7210.48	3983.48	3420.77	3391.22	449.73	0.20	417351.41	571638.48	N 32 8 50.42	W 104 14 7.54
	10570.00	89.62	5.95	7211.14	3984.14	3515.75	3485.70	459.65	0.10	417445.88	571648.41	N 32 8 51.36	W 104 14 7.42
	10665.00	89.42	6.03	7211.93	3984.93	3610.73	3580.17	469.56	0.23	417540.34	571658.32	N 32 8 52.29	W 104 14 7.31
	10760.00	89.62	6.60	7212.73	3985.73	3705.72	3674.59	480.01	0.64	417634.76	571668.77	N 32 8 53.23	W 104 14 7.18
	10855.00	89.28	6.84	7213.64	3986.64	3800.71	3768.94	491.13	0.44	417729.09	571679.88	N 32 8 54.16	W 104 14 7.05
	10949.00	89.52	7.28	7214.63	3987.63	3894.71	3862.22	502.68	0.53	417822.36	571691.43	N 32 8 55.08	W 104 14 6.92
	11044.00	90.86	7.92	7214.31	3987.31	3989.70	3956.38	515.24	1.56	417916.52	571704.00	N 32 8 56.01	W 104 14 6.77
	11138.00	91.62	7.91	7212.28	3985.28	4083.67	4049.46	528.18	0.81	418009.59	571716.94	N 32 8 56.94	W 104 14 6.62
	11234.00	91.38	7.69	7209.76	3982.76	4179.63	4144.54	541.21	0.34	418104.66	571729.96	N 32 8 57.88	W 104 14 6.47
	11328.00	91.41	6.65	7207.48	3980.48	4273.60	4237.78	552.94	1.11	418197.89	571741.69	N 32 8 58.80	W 104 14 6.33
	11423.00	91.62	6.54	7204.96	3977.96	4368.56	4332.12	563.84	0.25	418292.22	571752.59	N 32 8 59.73	W 104 14 6.20
	11517.00	92.13	5.81	7201.89	3974.89	4462.50	4425.52	573.95	0.95	418385.61	571762.70	N 32 9 0.66	W 104 14 6.08
Final Survey	11612.00	91.89	5.05	7198.56	3971.56	4557.40	4520.03	582.93	0.84	418480.12	571771.68	N 32 9 1.59	W 104 14 5.98
Proj to Bit	11677.00	92.17	5.07	7196.25	3969.25	4622.32	4584.74	588.66	0.43	418544.82	571777.41	N 32 9 2.23	W 104 14 5.91
	11750.00	92.17	5.07	7193.49	3966.49	4695.23	4657.40	595.11	0.00	418617.47	571783.85	N 32 9 2.95	W 104 14 5.83

Survey Type: Non-Def Survey

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	TVDSS (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
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Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
 Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	18.000	Act Stns	30.000	30.000	SLB_MWD-POOR-Depth Only	Original Borehole / Cimarex Da Vinci 7 Federal Com #5H MWD
	18.000	488.000	1/98.425	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Da Vinci 7 Federal Com #5H MWD
	488.000	6660.000	Act Stns	30.000	30.000	SLB_MWD-POOR	Original Borehole / Cimarex Da Vinci 7 Federal Com #5H MWD
	6660.000	11677.000	Act Stns	30.000	30.000	SLB_MWD-STD	Original Borehole / Cimarex Da Vinci 7 Federal Com #5H MWD
	11677.000	11750.000	Act Stns	30.000	30.000	SLB_BLIND+TREND	Original Borehole / Cimarex Da Vinci 7 Federal Com #5H MWD



HOBBS OCD

Form C-102

Revised October 15, 2009

Submit one copy to appropriate District Office

DISTRICT I

1026 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

FEB 21 2014

RECEIVED

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-41621	Pool Code 97494	Pool Name Cottonwood Draw; Bone Spring
Property Code 39932	Property Name DA VINCI "7" FEDERAL COM	Well Number 5H
OGRID No. 215099	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3209'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	7	25 S	27 E		300	SOUTH	330	WEST	EDDY

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
D	7	25 S	27 E		346	NORTH	937	WEST	EDDY

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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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

346' 937' B.H. NMNM100332 NMNM092167 3214.1' 3202.9' 330' 300' 3218.0'	SURFACE LOCATION Lat = N 32°08'16.87" Long = W 104°13'12.81" NMSPCE = N 413960.5 E 571188.8 (NAD-83)		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>Gloria Garza</i> 2/20/2014 Signature Date Gloria Garza Printed Name ggarza@cimarex.com
	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. NOV 15 2014 Date Surveyed <i>Gary L. Jones</i> Signature of Professional Surveyor Certificate No. Gary L. Jones 7977 BASIN SURVEYS		