

"AS DRILLED"

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240
Phone: (575) 393-8181 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, N.M. 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 87410
Phone: (505) 334-8178 Fax: (505) 334-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, N.M. 87505
Phone: (505) 476-3480 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, N.M. 87505

Form C-102

Revised August 1, 2011

Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35187	² Pool Code 72319 / 71599 / 97232	³ Pool Name BLANCO MESA VERDE / BASIN DAKOTA / BASIN MANCOS
⁴ Property Code 7136	⁵ Property Name HUDSON	⁶ Well Number 5M
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6010

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	17	31 N	10 W	LOT 3	893	NORTH	1587	WEST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

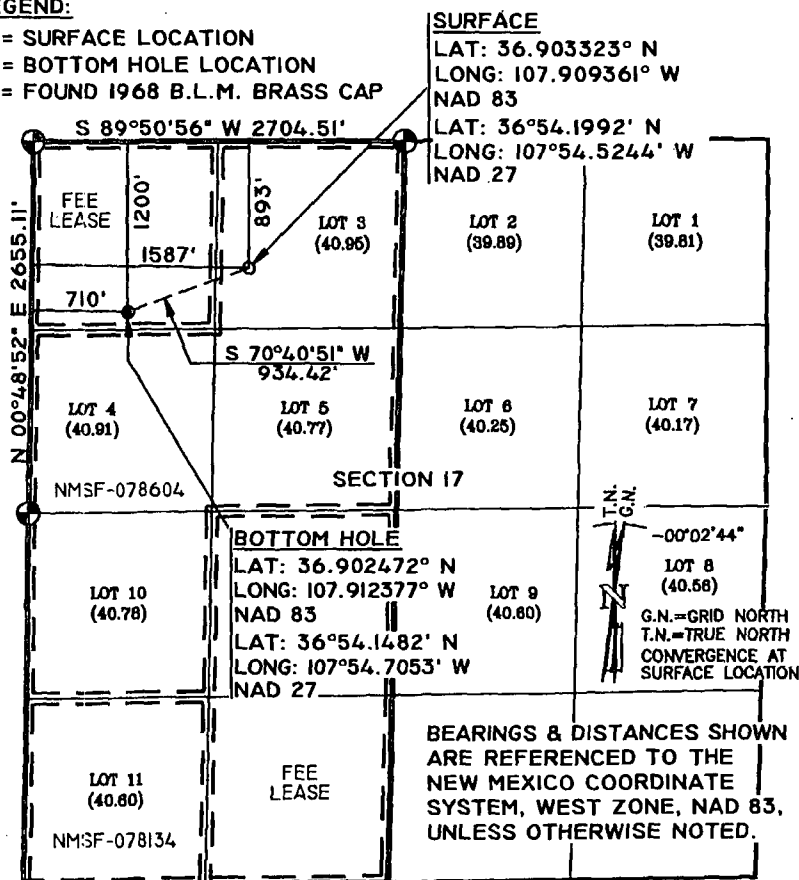
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	17	31 N	10 W		1172'	NORTH	671'	WEST	SAN JUAN

¹² Dedicated Acres 320.00 (MV) W 1/2 324.01 (DK) W 1/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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

16 LEGEND:

- = SURFACE LOCATION
- = BOTTOM HOLE LOCATION
- ⊙ = FOUND 1968 B.L.M. BRASS CAP



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.

Dollie L. Busse 10/30/14
Signature Date
Dollie L. Busse
Printed Name
dollie.l.busse@cop.com
E-mail Address

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.

10/01/14

Date of Survey

Signature and Seal of Professional Surveyor



17078
Certificate Number



**Conoco Phillips
San Juan Basin
New Mexico West Well
Hudson 5M
Correction Run**

***Cathedral Energy Services Ltd.
Survey Report***

30 October 2014

Survey Report

Database:	Example Projects Database	Local Coordinate Reference:	Hudson 5M
Company:	Conoco Phillips	TVD Reference:	Hudson 5M
Project:	San Juan Basin	MD Reference:	Hudson 5M
Site:	New Mexico West Well	North reference:	True North
Well:	Hudson 5M	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Design:	Correction Run		

Project:	San Juan Basin		
Map System:	NAD83 New Mexico State Planes	System Datum:	Mean Sea Level
Geo Datum:	NAD 1983		
Map Zone:	Western Zone		

Site:	New Mexico West Well		
Site Position:		Northing:	+2148142.48
From:	Map	Easting:	+2701044.78
Position Uncertainty:	0.00ft	Slot Radius:	0in
		Latitude:	36.90331667° N
		Longitude:	107.90873889° W
		Grid Convergence:	-0.05°

Well:	Hudson 5M		
Well Position:	+N/-S	0.00ft	Northing:
	+E/-W	0.00ft	Easting:
Position Uncertainty:	2.00ft	Wellhead Elevation:	6027.50ft
		Latitude:	36.90331667° N
		Longitude:	107.90873889° W
		Ground Level:	6010.00ft

Wellbore:	
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Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	igrf2010.dat	10/12/2014	(°)	(°)	(nT)
			9.57	63.50	50482.4

Design:	Correction Run		
Audit Notes:			
Version:	Phase:	Tie On Depth:	3762.00ft

Vertical Section:	Depth from TVD	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	250.74

Survey Program	10/24/2014		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
0.00	3762.00	Build, Hold, Drop	ISCWSA New MWD
3762.00	7451.00	Correction Run	ISCWSA New MWD
			ISCWSA New MWD

Survey	Measured	Incl.	Az.	Vertical	Sub Sea	+N/-S	+E/-W	Vertical	Closure	Closure	Dogleg	Comments/
Depth	Depth	(°)	(°)	Depth	Depth	(ft)	(ft)	Section	Distance	Azimuth	Rate	Formations
(ft)	(ft)			(ft)	(ft)			(ft)	(ft)	(°)	(°/100ft)	
0.00	0.00	0.00	0.00	0.00	-6027.50	0.00	0.00	0.00	0.00	0.00	0.000	ISCWSA New MWD
297.00	1.76	148.20	296.95	-5730.55	-3.88	2.40	-0.99	4.56	148.20	0.593		
328.00	1.30	140.40	327.94	-5699.56	-4.55	2.88	-1.22	5.39	147.69	1.626		
358.00	1.50	184.20	357.93	-5669.57	-5.21	3.07	-1.18	6.04	149.50	3.535		
389.00	2.80	203.90	388.91	-5638.59	-6.30	2.73	-0.50	6.87	156.58	4.764		
419.00	4.00	215.00	418.86	-5608.64	-7.83	1.83	0.85	8.04	166.82	4.544		
450.00	4.70	224.10	449.77	-5577.73	-9.63	0.33	2.87	9.63	178.04	3.164		
480.00	5.80	223.80	479.64	-5547.86	-11.60	-1.58	5.32	11.71	187.73	3.668		
511.00	6.50	224.40	510.46	-5517.04	-13.99	-3.89	8.28	14.52	195.53	2.268		
542.00	6.60	226.80	541.26	-5486.24	-16.46	-6.41	11.48	17.67	201.29	0.940		
573.00	7.30	224.20	572.03	-5455.47	-19.09	-9.09	14.88	21.14	205.45	2.475		
603.00	7.30	226.00	601.79	-5425.71	-21.78	-11.79	18.31	24.77	208.41	0.762		
634.00	7.40	229.20	632.54	-5394.96	-24.46	-14.71	21.96	28.54	211.03	1.359		
665.00	7.60	226.60	663.27	-5364.23	-27.17	-17.71	25.68	32.43	213.10	1.271		
696.00	8.20	223.80	693.98	-5333.52	-30.17	-20.73	29.53	36.61	214.49	2.299		
727.00	8.40	223.70	724.65	-5302.85	-33.41	-23.83	33.51	41.03	215.50	0.647		

Database:	Example Projects Database	Local Coordinate Reference:	Hudson 5M
Company:	Conoco Phillips	TVD Reference:	Hudson 5M
Project:	San Juan Basin	MD Reference:	Hudson 5M
Site:	New Mexico West Well	North reference:	True North
Well:	Hudson 5M	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Design:	Correction Run		

Survey Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
758.00	9.10	225.50	755.29	-5272.21	-36.76	-27.14	37.75	45.70	216.44	2.424	
788.00	9.80	225.70	784.88	-5242.62	-40.21	-30.66	42.21	50.56	217.33	2.336	
818.00	10.20	224.10	814.43	-5213.07	-43.90	-34.34	46.89	55.73	218.03	1.623	
849.00	10.60	224.50	844.92	-5182.58	-47.90	-38.24	51.91	61.30	218.60	1.311	
880.00	11.30	226.00	875.36	-5152.14	-52.05	-42.43	57.22	67.15	219.19	2.438	
910.00	11.60	227.80	904.76	-5122.74	-56.11	-46.78	62.67	73.05	219.81	1.555	
940.00	12.00	228.60	934.12	-5093.38	-60.20	-51.35	68.33	79.13	220.46	1.441	
971.00	12.80	229.60	964.40	-5063.10	-64.56	-56.38	74.52	85.71	221.13	2.672	
1002.00	12.70	230.90	994.64	-5032.86	-66.93	-61.64	80.93	92.48	221.80	0.980	
1034.00	13.10	234.40	1025.83	-5001.67	-73.26	-67.32	87.72	99.50	222.58	2.743	
1066.00	13.20	240.20	1056.99	-4970.51	-77.19	-73.44	94.79	106.55	223.57	4.134	
1097.00	13.40	244.40	1087.16	-4940.34	-80.50	-79.75	101.84	113.32	224.73	3.182	
1129.00	14.00	246.70	1118.25	-4909.25	-83.64	-86.65	109.39	120.43	226.01	2.532	
1161.00	14.80	246.90	1149.24	-4878.26	-86.77	-93.97	117.33	127.90	227.28	2.505	
1193.00	15.20	247.60	1180.15	-4847.35	-89.97	-101.60	125.59	135.71	228.47	1.372	
1225.00	15.50	247.70	1211.01	-4816.49	-93.19	-109.44	134.05	143.74	229.58	0.941	
1257.00	15.70	246.70	1241.83	-4785.67	-96.53	-117.37	142.64	151.97	230.57	1.047	
1289.00	17.30	247.60	1272.52	-4754.98	-100.05	-125.75	151.71	160.70	231.49	5.063	
1321.00	17.90	249.10	1303.02	-4724.48	-103.62	-134.74	161.38	169.98	232.44	2.350	
1353.00	18.60	251.20	1333.41	-4694.09	-107.02	-144.17	171.40	179.55	233.41	3.001	
1385.00	19.50	251.90	1363.66	-4663.84	-110.32	-154.07	181.84	189.50	234.40	2.902	
1417.00	20.30	250.80	1393.74	-4633.76	-113.81	-164.39	192.73	199.94	235.30	2.760	
1449.00	21.30	252.50	1423.66	-4603.84	-117.38	-175.18	204.09	210.87	236.17	3.650	
1481.00	22.10	252.50	1453.39	-4574.11	-120.94	-186.46	215.92	222.25	237.03	2.500	
1513.00	22.20	253.70	1483.03	-4544.47	-124.45	-198.01	227.97	233.87	237.85	1.448	
1577.00	23.50	254.30	1542.01	-4485.49	-131.29	-221.90	252.78	257.83	239.39	2.064	
1640.00	23.60	254.90	1599.76	-4427.74	-137.98	-246.16	277.90	282.20	240.73	0.412	
1703.00	23.70	254.40	1657.47	-4370.03	-144.67	-270.53	303.11	306.79	241.86	0.356	
1767.00	24.30	253.70	1715.93	-4311.57	-151.82	-295.56	329.10	332.28	242.81	1.038	
1831.00	24.50	254.20	1774.22	-4253.28	-159.13	-320.97	355.50	358.25	243.63	0.449	
1895.00	24.90	253.50	1832.36	-4195.14	-166.57	-346.66	382.20	384.60	244.34	0.774	
1959.00	25.30	253.30	1890.32	-4137.18	-174.33	-372.67	409.32	411.43	244.93	0.639	
2022.00	25.60	253.00	1947.21	-4080.29	-182.18	-398.58	436.37	438.24	245.44	0.518	
2085.00	24.30	253.80	2004.32	-4023.18	-188.77	-424.05	462.91	464.58	245.89	2.132	
2149.00	23.10	254.90	2062.93	-3964.57	-196.72	-448.82	488.59	490.04	246.33	1.998	
2213.00	22.50	254.90	2121.93	-3905.57	-203.18	-472.76	513.32	514.57	246.74	0.938	
2277.00	22.60	253.90	2181.03	-3846.47	-209.78	-496.40	537.81	538.91	247.09	0.619	
2340.00	22.10	252.60	2239.30	-3788.20	-216.68	-519.34	561.75	562.73	247.35	1.116	
2404.00	20.80	250.90	2298.87	-3728.63	-224.00	-541.57	585.14	586.06	247.53	2.251	
2468.00	20.70	252.50	2358.72	-3668.76	-231.12	-563.09	607.81	608.68	247.68	0.899	
2532.00	21.30	255.60	2418.47	-3609.03	-237.41	-585.14	630.70	631.47	247.92	1.973	
2596.00	20.00	253.90	2478.35	-3549.15	-243.34	-606.92	653.21	653.88	248.15	2.237	
2660.00	19.80	256.00	2538.53	-3488.97	-248.99	-627.95	674.94	675.51	248.37	1.150	
2724.00	19.20	257.90	2598.86	-3428.64	-253.82	-648.76	696.17	696.64	248.63	1.354	
2788.00	20.10	258.00	2659.13	-3368.37	-258.32	-668.80	717.52	717.89	248.91	1.407	
2852.00	19.60	256.60	2719.33	-3308.17	-263.09	-691.00	739.11	739.39	249.16	1.078	
2916.00	19.30	255.10	2779.68	-3247.82	-268.30	-711.67	760.33	760.56	249.34	0.910	
2980.00	19.40	254.40	2840.06	-3187.44	-273.88	-732.12	781.49	781.67	249.49	0.395	
3044.00	18.90	254.50	2900.52	-3126.98	-279.50	-752.35	802.44	802.59	249.62	0.783	
3108.00	17.10	255.00	2961.39	-3066.11	-284.71	-771.43	822.17	822.29	249.74	2.823	

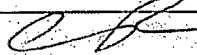
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Company:	Conoco Phillips	TVD Reference:	Hudson 5M
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Well:	Hudson 5M	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Design:	Correction Run		

Survey Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/S (ft)	+E/W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
3172.00	14.60	256.80	3022.95	-3004.55	-288.99	-788.37	839.57	839.67	249.87	3.981	
3236.00	13.20	256.00	3085.07	-2942.43	-292.60	-803.32	854.87	854.95	249.99	2.208	
3300.00	12.00	254.60	3147.53	-2879.97	-296.13	-816.82	868.79	868.85	250.07	1.935	
3364.00	10.20	251.20	3210.33	-2817.17	-299.73	-828.60	881.09	881.15	250.11	2.992	
3428.00	9.40	253.60	3273.40	-2754.10	-303.03	-838.98	891.98	892.03	250.14	1.403	
3492.00	7.10	261.60	3336.73	-2690.77	-305.75	-847.75	901.16	901.20	250.17	3.621	
3556.00	5.60	253.50	3400.34	-2627.16	-307.89	-854.50	908.23	908.27	250.19	2.366	
3620.00	4.60	251.30	3464.08	-2563.42	-309.60	-859.92	913.92	913.96	250.20	1.592	
3684.00	3.30	253.10	3527.93	-2499.57	-310.96	-864.12	918.32	918.36	250.21	2.040	
3748.00	1.10	272.30	3591.88	-2435.62	-311.47	-866.49	920.73	920.77	250.23	3.578	
3756.10	1.10	274.44	3599.98	-2427.52	-311.46	-866.65	920.88	920.91	250.23	0.507	PBHL Hudson 5M ISCWSA New MWD
3762.00	1.10	276.00	3605.83	-2421.62	-311.45	-866.76	920.96	921.02	250.24	0.507	
3851.00	1.30	321.90	3694.86	-2332.64	-310.56	-868.23	922.08	922.10	250.32	1.072	
3915.00	0.80	320.10	3758.85	-2268.65	-309.65	-868.97	922.47	922.49	250.39	0.783	
3978.00	0.80	328.70	3821.84	-2205.66	-308.94	-869.48	922.72	922.73	250.44	0.190	
4042.00	1.00	324.30	3885.84	-2141.66	-308.10	-870.04	922.97	922.98	250.50	0.330	
4106.00	1.20	316.10	3949.82	-2077.68	-307.16	-870.83	923.41	923.41	250.57	0.397	
4170.00	1.70	310.60	4013.80	-2013.70	-306.06	-872.01	924.16	924.16	250.66	0.810	
4234.00	2.10	313.40	4077.77	-1949.73	-304.64	-873.56	925.18	925.18	250.78	0.641	
4298.00	2.20	307.40	4141.72	-1885.78	-303.09	-875.41	926.39	926.40	250.90	0.385	
4362.00	2.00	309.10	4205.68	-1821.82	-301.64	-877.25	927.65	927.66	251.02	0.327	
4425.00	1.90	311.60	4268.64	-1758.86	-300.25	-878.89	928.74	928.76	251.14	0.208	
4489.00	2.30	323.60	4332.60	-1694.90	-298.51	-880.44	929.63	929.67	251.27	0.926	
4553.00	2.80	322.10	4396.54	-1630.96	-296.25	-882.17	930.51	930.58	251.44	0.788	
4617.00	3.10	320.80	4460.45	-1567.05	-293.67	-884.22	931.60	931.71	251.63	0.480	
4681.00	3.50	319.20	4524.35	-1503.15	-290.85	-886.59	932.91	933.08	251.84	0.641	
4744.00	3.90	322.20	4587.21	-1440.29	-287.70	-889.16	934.30	934.55	252.07	0.705	
4807.00	4.20	324.60	4650.06	-1377.44	-284.13	-891.81	935.62	935.98	252.33	0.547	
4871.00	4.30	321.10	4713.88	-1313.62	-280.35	-894.67	937.08	937.57	252.60	0.434	
4934.00	4.30	319.50	4776.70	-1250.60	-276.72	-897.69	938.73	939.37	252.87	0.190	
4997.00	4.40	318.00	4839.52	-1187.98	-273.13	-900.84	940.52	941.34	253.13	0.240	
5061.00	4.90	317.00	4903.31	-1124.19	-269.30	-904.35	942.57	943.59	253.42	0.791	
5125.00	4.50	313.40	4967.10	-1060.40	-265.58	-908.04	944.82	946.08	253.70	0.776	
5157.00	4.10	314.20	4999.01	-1028.49	-263.92	-909.77	945.91	947.28	253.82	1.264	
5189.00	3.90	315.60	5030.93	-996.57	-262.34	-911.35	946.88	948.36	253.94	0.695	
5221.00	3.00	312.00	5082.87	-964.63	-261.00	-912.74	947.74	949.32	254.04	2.891	
5253.00	2.10	315.30	5094.84	-932.66	-260.03	-913.77	948.40	950.05	254.12	2.849	
5285.00	1.60	322.40	5126.82	-900.68	-259.26	-914.45	948.79	950.50	254.17	1.716	
5317.00	0.80	322.00	5158.81	-868.69	-258.73	-914.87	949.00	950.75	254.21	2.500	
5349.00	0.50	306.40	5190.81	-836.69	-258.47	-915.12	949.15	950.92	254.23	1.080	
5381.00	0.20	351.20	5222.81	-804.69	-258.33	-915.24	949.22	950.99	254.24	1.203	
5445.00	0.30	53.80	5286.81	-740.69	-258.12	-915.12	949.04	950.82	254.25	0.427	
5508.00	0.10	147.00	5349.81	-677.69	-258.07	-914.95	948.87	950.65	254.25	0.510	
5571.00	0.20	228.80	5412.81	-614.69	-258.19	-915.01	948.96	950.74	254.24	0.334	
5635.00	0.90	130.30	5476.81	-550.69	-258.59	-914.71	948.81	950.56	254.21	1.485	
5698.00	1.00	131.90	5539.80	-487.70	-259.27	-913.92	948.29	949.99	254.16	0.164	
5761.00	0.70	145.90	5602.79	-424.71	-259.96	-913.30	947.93	949.57	254.11	0.576	
5824.00	0.70	179.00	5665.79	-361.71	-260.66	-913.07	947.95	949.55	254.07	0.633	
5887.00	0.70	192.00	5728.78	-298.72	-261.42	-913.15	948.27	949.83	254.02	0.252	
5950.00	1.10	139.60	5791.78	-235.72	-262.26	-912.84	948.25	949.76	253.97	1.384	

Database:	Example Projects Database	Local Coordinate Reference:	Hudson 5M
Company:	Conoco Phillips	TVD Reference:	Hudson 5M
Project:	San Juan Basin	MD Reference:	Hudson 5M
Site:	New Mexico West Well	North reference:	True North
Well:	Hudson 5M	Survey Calculation Method:	Minimum Curvature
Wellbore:			
Design:	Correction Run		

Survey Measured Depth (ft)	Incl. (°)	Az. (°)	Vertical Depth (ft)	Sub Sea Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Closure Distance (ft)	Closure Azimuth (°)	Dogleg Rate (°/100ft)	Comments/ Formations
6013.00	1.30	150.30	5854.76	-172.74	-263.34	-912.09	947.91	949.35	253.90	0.475	
6076.00	1.00	150.20	5917.75	-109.75	-264.44	-911.46	947.68	949.05	253.82	0.476	
6139.00	1.00	159.40	5980.74	-46.76	-265.43	-911.00	947.56	948.88	253.76	0.255	
6202.00	1.00	173.90	6043.73	16.23	-266.49	-910.74	947.68	948.93	253.69	0.401	
6266.00	0.80	185.00	6107.72	80.22	-267.49	-910.72	947.99	949.19	253.63	0.413	
6329.00	0.80	189.80	6170.72	143.22	-268.37	-910.84	948.38	949.55	253.58	0.106	
6392.00	0.90	211.30	6233.71	206.21	-269.22	-911.17	948.98	950.11	253.54	0.527	
6455.00	0.60	146.00	6296.70	269.20	-269.92	-911.24	949.27	950.38	253.50	1.346	
6518.00	1.30	104.30	6359.70	332.20	-270.37	-910.36	948.59	949.66	253.46	1.493	
6581.00	0.80	101.80	6422.69	395.19	-270.63	-909.24	947.62	948.66	253.42	0.797	
6644.00	0.40	128.10	6485.68	458.18	-270.86	-908.64	947.13	948.15	253.40	0.755	
6707.00	0.30	147.60	6548.68	521.18	-271.13	-908.38	946.97	947.98	253.38	0.245	
6770.00	0.30	192.50	6611.68	584.18	-271.43	-908.32	947.02	948.01	253.36	0.364	
6834.00	0.30	212.20	6675.68	648.18	-271.74	-908.45	947.24	948.22	253.35	0.160	
6897.00	0.40	236.40	6738.68	711.18	-272.00	-908.72	947.58	948.56	253.34	0.280	
6960.00	0.70	201.90	6801.68	774.18	-272.48	-909.05	948.05	949.01	253.31	0.689	
7025.00	0.90	201.40	6866.67	839.17	-273.32	-909.38	948.64	949.57	253.27	0.308	
7089.00	1.00	216.30	6930.66	903.16	-274.24	-909.90	949.43	950.33	253.23	0.415	
7153.00	0.80	236.00	6994.65	967.15	-274.94	-910.60	950.32	951.20	253.20	0.571	
7217.00	1.20	222.30	7058.64	1031.14	-275.69	-911.42	951.34	952.20	253.17	0.724	
7280.00	1.40	230.20	7121.63	1094.13	-276.67	-912.45	952.64	953.48	253.13	0.426	
7345.00	1.40	224.10	7186.61	1159.11	-277.75	-913.62	954.10	954.90	253.09	0.229	
7408.00	1.50	232.40	7249.59	1222.09	-278.80	-914.80	955.57	956.35	253.05	0.369	
7451.00	1.50	236.40	7292.57	1265.07	-279.46	-915.72	956.65	957.41	253.03	0.243	

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
hit/miss target									
Shape									
PBHL Hudson 5M	0.00	359.95	3599.98	-308.31	-882.16	+2147834.88	+2700162.38	36.90246978° N	107.91175605° W
- survey misses the target center by 15.83ft at 3756.10ft MD (3599.98TVD, -310.77, -866.89)									
- Circle									

Checked By: 	Approved By:	Date: 10/30/14
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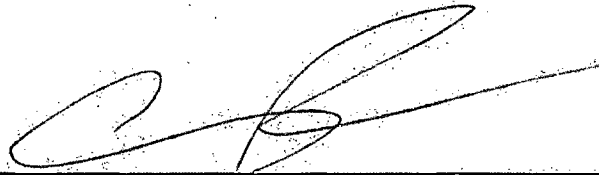
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AFFIRMATION

(Applicant must sign in front of a notary public)



10/30/14

Official Signature of Applicant

Date

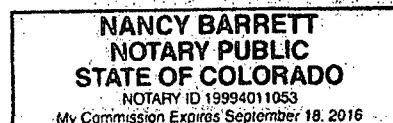
Subscribed and sworn to or affirmed before me this 30th day of
October, 20 14, in the county of Denver,
State of Colorado.

Nancy Barrett

Signature of Notary Public

9/18/16

Commission Expiration Date





Schematic - Current
HUDSON #5M

District NORTH	Field Name MV/MNCS/DK	API / UWI 3004535187	County SAN JUAN	State/Province NEW MEXICO
Original Spud Date 9/30/2014	Surface Legal Location 017-031N-010W-C	East/West Distance (ft) 1,670.00	East/West Reference FWL	North/South Distance (ft) 893.00
North/South Reference FNL				

DEVIATED - Original Hole, 10/30/2014 1:18:46 PM

