



Lea County, NM (NAD 27 NME)

Whirling Wind 11 Fed Com #703H

H&P 465

Plan #2

PROJECT DETAILS: Lea County, NM (NAD 27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level



Alignments to Grid North
True North: -0.42°
Magnetic North: 8.59°
Magnetic Field
Strength: 47922.40nT
Dip Angle: 68.92°
Date: 8/28/2016
Model: IGRF2015

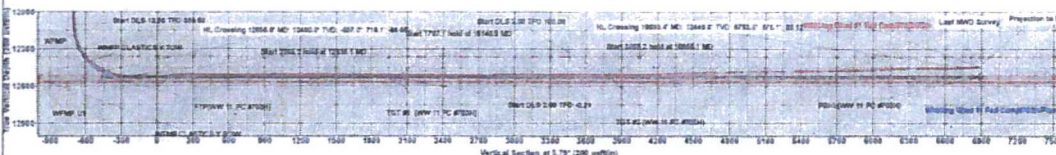
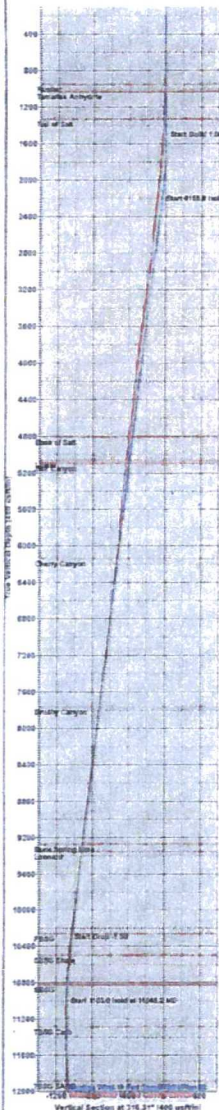
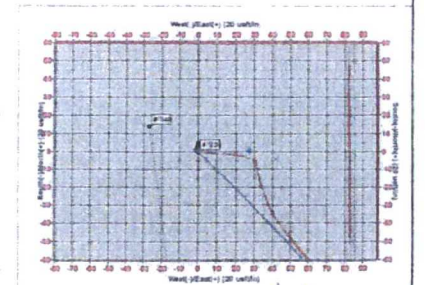
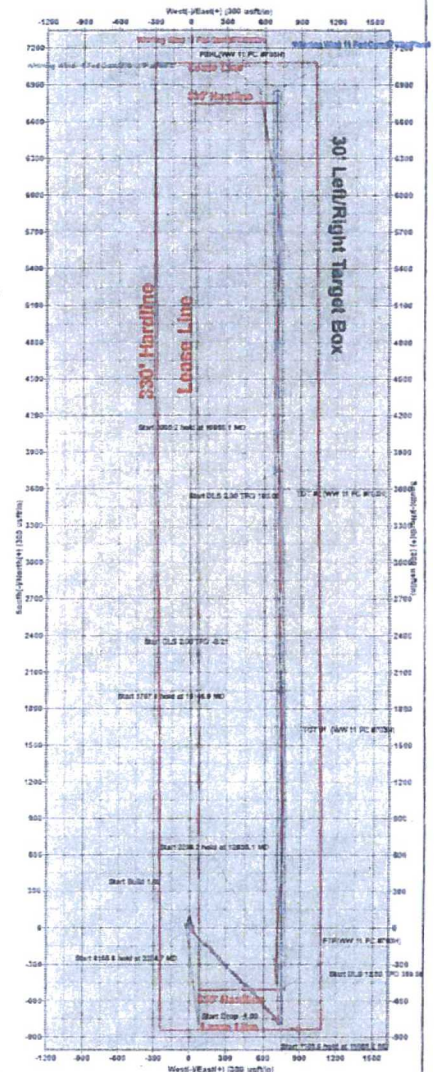
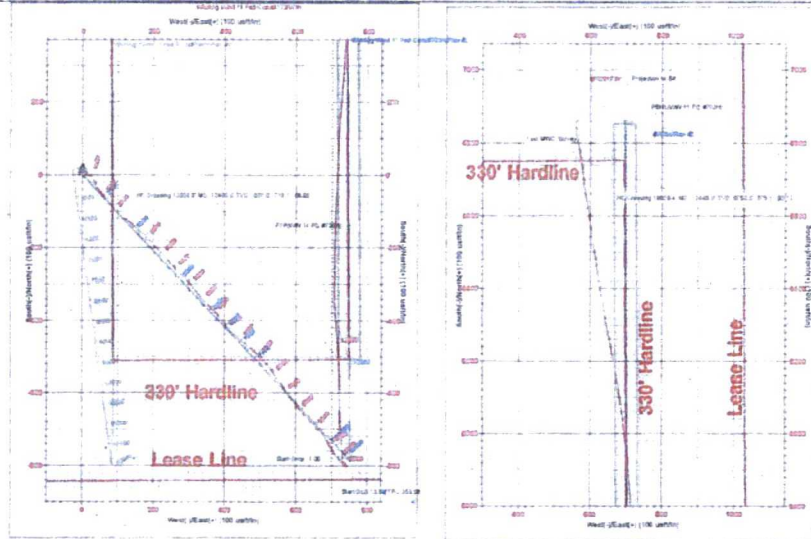
To convert a Magnetic Direction to a Grid Direction, Add 8.59°
To convert a True Direction to a Grid Direction, Subtract 0.42°

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dleg	TFace	VSect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	2204.7	7.05	135.31	2202.9	-31.3	29.9	1.00	136.31	-28.1	
4	10360.5	7.05	135.31	10297.1	-754.8	721.1	0.00	0.00	-678.2	
5	11095.2	0.00	0.00	11000.0	-786.1	751.0	1.00	180.00	-706.3	
6	12168.8	0.00	0.00	12103.6	-786.1	751.0	0.00	0.00	-706.3	
7	12835.1	89.95	359.58	12528.0	-362.0	747.9	13.50	359.58	-284.7	
8	15133.2	89.95	359.58	12530.0	1936.1	731.1	0.00	0.00	2000.0	TGT #1 (WW 11 FC #703H)
9	15146.9	90.22	359.58	12530.0	1949.7	731.0	2.00	-0.21	2013.5	
10	16943.9	90.22	359.58	12523.0	3746.7	717.8	0.00	0.00	3800.0	TGT #2 (WW 11 FC #703H)
11	16955.1	90.00	359.58	12523.0	3757.8	717.7	2.00	180.00	3811.1	
12	20050.3	90.00	359.58	12523.0	6853.0	695.0	0.00	0.00	6888.2	PBHL(WW 11 FC #703H)

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	Northing	Easting	Shape
PBHL(WW 11 FC #703H)	12523.0	6853.0	695.0	380724.00	745971.00	Rectangle (Sides: L3.0 WRC 3)
TGT #1 (WW 11 FC #703H)	12523.0	3746.7	717.8	387617.70	745823.79	Point
TGT #2 (WW 11 FC #703H)	12523.0	-607.0	749.0	383264.00	745965.00	Point
TGT #3 (WW 11 FC #703H)	12530.0	1926.1	731.1	386807.10	745947.08	Point



INTREPID

Operator: EOG Resources
Lease Name: Whirling Wind 11 Fed Com #703H
Job Number: IDS - 1415

Target KBTVD: 12449
Target Angle: 91.1°
Section Plane: 5.79°

Survey Company: Intrepid

Declination Correction: 6.59

#	Survey Depth	Inc. (Deg.)	Azimuth (Deg.)	Course Length	TVD (Ft.)	Vertical Section	+N/S (Ft.)	+E/W (Ft.)	BUR	DLS	KBTVD	-Below Target
Tie In	0	0.0	0	0	0	0	0	0	0.0	0.0	0.00	
MWD	135	0.6	70.9	135	135.0	0.3	0.2	0.7	0.4	0.4	135.00	12314.0
2	315	1.0	106.8	180	315.0	0.4	0.1	3.1	0.2	0.3	314.99	12134.0
3	505	1.3	94.0	190	504.9	0.1	-0.5	6.8	0.2	0.2	504.95	11944.1
4	691	1.7	98.4	186	690.9	0.1	-1.1	11.6	0.2	0.2	690.88	11758.1
5	876	1.7	87.6	185	875.8	0.4	-1.4	17.1	0.0	0.2	875.80	11573.2
6	1064	1.8	108.9	188	1063.7	0.1	-2.2	22.7	0.1	0.3	1063.71	11385.3
7	1251	1.8	103.4	187	1250.6	-1.0	-3.9	28.3	0.0	0.1	1250.60	11198.4
8	1437	2.3	174.5	186	1436.5	-5.0	-8.2	31.5	0.3	1.3	1436.43	11012.6
9	1625	4.4	164.4	188	1624.2	-15.4	-18.9	33.8	1.1	1.2	1623.90	10825.1
10	1812	4.6	153.7	187	1810.6	-28.5	-32.6	39.1	0.1	0.5	1810.08	10638.9
11	1998	6.9	139.1	186	1995.7	-42.5	-47.7	49.7	1.2	1.5	1994.87	10454.1
12	2185	6.1	142.1	187	2181.5	-57.3	-64.0	63.1	-0.4	0.5	2180.38	10268.6
13	2372	6.3	137.1	187	2367.4	-71.3	-79.4	76.2	0.1	0.3	2366.02	10083.0
14	2560	6.2	135.3	188	2554.3	-84.6	-94.2	90.4	-0.1	0.1	2552.64	9896.4
15	2747	5.5	134.3	187	2740.3	-96.6	-107.6	103.9	-0.4	0.4	2738.44	9710.6
16	2935	6.2	125.4	188	2927.3	-107.2	-119.8	118.6	0.4	0.6	2925.25	9523.7
17	3122	7.6	125.2	187	3113.0	-118.3	-132.8	137.0	0.7	0.7	3110.68	9338.3
18	3308	8.3	134.8	186	3297.2	-132.8	-149.3	156.5	0.4	0.8	3294.62	9154.4
19	3495	7.3	131.1	187	3482.4	-148.1	-166.6	175.1	-0.5	0.6	3479.59	8969.4
20	3682	7.3	137.1	187	3667.9	-162.8	-183.1	192.1	0.0	0.4	3664.79	8784.2
21	3869	7.2	138.1	187	3853.4	-178.6	-200.6	208.0	-0.1	0.1	3850.00	8599.0
22	4057	6.5	130.1	188	4040.1	-192.5	-216.2	224.0	-0.4	0.6	4036.38	8412.6
23	4243	5.8	141.8	186	4225.0	-205.2	-230.4	237.9	-0.4	0.8	4221.07	8227.9
24	4430	5.7	136.8	187	4411.1	-218.1	-244.6	250.1	-0.1	0.3	4406.88	8042.1
25	4617	5.8	135.8	187	4597.1	-230.2	-258.1	263.0	0.1	0.1	4592.70	7856.3
26	4804	7.8	134.6	187	4782.8	-244.3	-273.8	278.7	1.1	1.1	4778.11	7670.9
27	4992	7.5	136.5	188	4969.1	-260.3	-291.6	296.2	-0.2	0.2	4964.13	7484.9
28	5179	6.0	139.0	187	5154.8	-274.9	-307.9	311.0	-0.8	0.8	5149.53	7299.5
29	5366	6.1	141.9	187	5340.8	-288.8	-323.1	323.6	0.1	0.2	5335.23	7113.8
30	5553	5.8	135.2	187	5526.8	-301.9	-337.6	336.3	-0.2	0.4	5520.97	6928.0
31	5740	5.6	135.8	187	5712.8	-313.8	-350.8	349.4	-0.1	0.1	5706.81	6742.2
32	5927	5.3	136.8	187	5899.0	-325.3	-363.7	361.6	-0.2	0.2	5892.75	6556.3
33	6114	5.4	134.6	187	6085.2	-336.5	-376.1	373.8	0.1	0.1	6078.72	6370.3
34	6301	6.6	140.1	187	6271.2	-349.5	-390.6	387.0	0.6	0.7	6264.44	6184.6
35	6489	6.4	145.4	188	6457.9	-365.1	-407.5	399.8	-0.1	0.3	6450.93	5998.1
36	6676	6.2	143.0	187	6643.8	-380.4	-424.1	411.8	-0.1	0.2	6636.51	5812.5
37	6864	6.1	129.5	188	6830.7	-393.4	-438.6	425.7	-0.1	0.8	6823.18	5625.8
38	7051	6.2	128.1	187	7016.7	-404.3	-451.1	441.3	0.1	0.1	7008.89	5440.1
39	7239	7.1	130.3	188	7203.4	-416.3	-464.9	458.1	0.5	0.5	7195.40	5253.6
40	7427	8.7	128.4	188	7389.6	-430.6	-481.3	478.1	0.9	0.9	7381.33	5067.7
41	7616	7.9	136.8	189	7576.6	-446.8	-499.6	498.2	-0.4	0.8	7568.04	4881.0
42	7802	6.8	141.5	186	7761.1	-463.1	-517.5	513.8	-0.6	0.7	7752.19	4696.8
43	7990	6.0	139.0	188	7947.9	-477.8	-533.7	527.2	-0.4	0.5	7938.73	4510.3
44	8178	7.0	144.1	188	8134.7	-493.0	-550.4	540.4	0.5	0.6	8125.23	4323.8
45	8365	6.8	147.2	187	8320.3	-510.2	-568.9	553.0	-0.1	0.2	8310.54	4138.5
46	8551	6.4	146.6	186	8505.1	-526.9	-586.8	564.7	-0.2	0.2	8494.99	3954.0
47	8728	6.9	142.7	177	8680.9	-542.3	-603.5	576.6	0.3	0.4	8670.50	3778.5
48	8914	8.0	142.8	186	8865.3	-559.9	-622.7	591.2	0.6	0.6	8854.59	3594.4
49	9102	7.8	138.9	188	9051.6	-578.2	-642.7	607.5	-0.1	0.3	9040.46	3408.5
50	9290	8.1	137.7	188	9237.8	-595.7	-662.1	624.8	0.2	0.2	9226.31	3222.7
51	9478	7.3	134.3	188	9424.1	-612.0	-680.3	642.2	-0.4	0.5	9412.30	3036.7
52	9665	5.5	132.9	187	9609.9	-624.8	-694.7	657.3	-1.0	1.0	9597.86	2851.1

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Section Plane: 5.79°

Survey Company: Intrepid

Declination Correction: 6.59

#	Survey Depth	Inc. (Deg.)	Azimuth (Deg.)	Course Length	TVD (Ft.)	Vertical Section	+N/-S (Ft.)	+E/-W (Ft.)	BUR	DLS	KBTVD	-Below Target
53	9854	7.7	138.2	189	9797.6	-638.8	-710.3	672.4	1.2	1.2	9785.33	2663.7
54	10040	6.8	155.7	186	9982.1	-656.8	-729.6	685.2	-0.5	1.3	9969.50	2479.5
55	10228	6.0	148.2	188	10168.9	-674.2	-748.1	695.0	-0.4	0.6	10155.99	2293.0
56	10415	6.2	144.6	187	10354.9	-689.5	-764.6	706.0	0.1	0.2	10341.63	2107.4
57	10603	5.6	134.3	188	10541.9	-702.9	-779.3	718.4	-0.3	0.6	10528.38	1920.6
58	10789	4.7	128.1	186	10727.1	-712.6	-790.4	730.9	-0.5	0.6	10713.44	1735.6
59	10976	2.9	128.2	187	10913.7	-719.2	-798.0	740.7	-1.0	1.0	10899.87	1549.1
60	11163	0.8	225.3	187	11100.6	-722.8	-801.9	743.5	-1.1	1.7	11086.68	1362.3
61	11349	1.2	351.8	186	11286.5	-721.9	-800.9	742.3	0.2	1.0	11272.68	1176.3
62	11553	1.7	322.8	204	11490.5	-717.6	-796.3	740.1	0.2	0.4	11476.70	972.3
63	11740	2.1	285.8	187	11677.4	-715.0	-793.2	735.1	0.2	0.7	11663.65	785.3
64	11927	3.6	346.3	187	11864.2	-708.8	-786.5	730.5	0.8	1.7	11850.57	598.4
65	12114	3.2	6.8	187	12050.9	-698.1	-775.7	729.7	-0.2	0.7	12037.45	411.6
66	12207	6.8	3.3	93	12143.5	-690.0	-767.6	730.3	3.9	3.9	12130.23	318.8
67	12254	11.9	350.5	47	12189.8	-682.5	-760.0	729.7	10.9	11.7	12176.74	272.3
68	12301	17.1	352.4	47	12235.3	-671.1	-748.4	728.0	11.1	11.1	12222.45	226.6
69	12348	25.3	356.9	47	12279.1	-654.5	-731.5	726.5	17.4	17.8	12266.55	182.4
70	12394	32.4	354.1	46	12319.4	-632.6	-709.4	724.7	15.4	15.7	12307.24	141.8
71	12441	40.0	356.0	47	12357.3	-605.4	-681.7	722.3	16.2	16.3	12345.66	103.3
72	12487	46.1	0.5	46	12390.9	-574.3	-650.4	721.5	13.3	14.8	12379.87	69.1
73	12534	53.2	0.6	47	12421.3	-538.6	-614.6	721.8	15.1	15.1	12410.96	38.0
74	12580	62.6	358.2	46	12445.7	-500.0	-575.7	721.4	20.4	20.9	12436.12	12.9
75	12627	63.1	357.2	47	12467.2	-458.6	-533.9	719.7	1.1	2.2	12458.37	-9.4
76	12674	68.7	355.7	47	12486.4	-416.2	-491.1	717.0	11.9	12.3	12478.36	-29.4
77	12729	76.1	355.7	55	12503.0	-364.7	-438.8	713.1	13.5	13.5	12495.97	-47.0
78	12799	77.5	355.2	70	12519.0	-297.6	-370.9	707.7	2.0	2.1	12513.24	-64.2
79	12823	82.2	357.0	24	12523.2	-274.3	-347.3	706.1	19.6	20.9	12517.92	-68.9
80	12868	88.0	1.2	45	12527.0	-229.8	-302.5	705.4	12.9	15.9	12522.62	-73.6
81	12961	88.9	0.6	93	12529.5	-137.2	-209.6	706.8	1.0	1.2	12526.91	-77.9
82	12992	89.8	0.7	31	12529.9	-106.3	-178.6	707.2	2.9	2.9	12527.86	-78.9
83	13034	93.4	1.7	42	12528.7	-64.5	-136.6	708.1	8.6	8.9	12527.49	-78.5
84	13149	95.4	2.5	115	12519.9	49.9	-22.1	712.3	1.7	1.9	12520.86	-71.9
85	13243	94.5	2.5	94	12511.8	143.4	71.5	716.3	-1.0	1.0	12514.55	-65.5
86	13337	90.9	4.1	94	12507.4	237.2	165.2	721.8	-3.8	4.2	12511.92	-62.9
87	13430	88.8	4.7	93	12507.6	330.1	257.9	728.9	-2.3	2.3	12513.95	-64.9
88	13524	90.0	4.0	94	12508.6	424.1	351.6	736.0	1.3	1.5	12516.74	-67.7
89	13618	88.5	1.8	94	12509.8	517.9	445.5	740.8	-1.6	2.8	12519.77	-70.8
90	13711	89.8	1.8	93	12511.2	610.7	538.4	743.7	1.4	1.4	12522.93	-73.9
91	13805	90.2	0.2	94	12511.2	704.4	632.4	745.3	0.4	1.8	12524.73	-75.7
92	13899	90.9	359.8	94	12510.3	797.9	726.4	745.3	0.7	0.9	12525.62	-76.6
93	13993	89.4	0.2	94	12510.1	891.4	820.4	745.3	-1.6	1.7	12527.17	-78.2
94	14086	91.0	1.1	93	12509.7	984.0	913.4	746.4	1.7	2.0	12528.63	-79.6
95	14181	89.3	359.1	95	12509.5	1078.5	1008.3	746.6	-1.8	2.8	12530.19	-81.2
96	14274	90.5	0.3	93	12509.6	1171.0	1101.3	746.1	1.3	1.8	12532.13	-83.1
97	14368	90.3	359.2	94	12509.0	1264.5	1195.3	745.7	-0.2	1.2	12533.27	-84.3
98	14462	89.4	358.9	94	12509.2	1357.8	1289.3	744.1	-1.0	1.0	12535.31	-86.3
99	14556	89.5	358.9	94	12510.1	1451.1	1383.3	742.3	0.1	0.1	12538.00	-89.0
100	14649	90.6	359.4	93	12510.1	1543.5	1476.3	740.9	1.2	1.3	12539.69	-90.7
101	14742	89.5	0.3	93	12510.0	1636.0	1569.3	740.7	-1.2	1.5	12541.39	-92.4
102	14836	90.6	0.9	94	12509.9	1729.6	1663.3	741.7	1.2	1.3	12543.10	-94.1
103	14930	88.5	358.0	94	12510.6	1823.0	1757.2	740.8	-2.2	3.8	12545.63	-96.6
104	15024	90.2	358.8	94	12511.7	1916.2	1851.2	738.1	1.8	2.0	12548.49	-99.5
105	15118	90.0	358.2	94	12511.5	2009.4	1945.1	735.7	-0.2	0.7	12550.12	-101.1
106	15211	91.1	358.2	93	12510.6	2101.6	2038.1	732.7	1.2	1.2	12550.99	-102.0
107	15306	88.5	357.4	95	12511.0	2195.7	2133.0	729.1	-2.7	2.9	12553.13	-104.1
108	15399	91.0	359.6	93	12511.4	2287.9	2225.9	726.7	2.7	3.6	12555.31	-106.3

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 Job Number: IDS - 1415

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 Section Plane: 5.79°

Survey Company: Intrepid

Declination Correction: 6.59

#	Survey Depth	Inc. (Deg.)	Azimuth (Deg.)	Course Length	TYD (Ft.)	Vertical Section	+N/-S (Ft.)	+E/-W (Ft.)	BUR	DLS	KBTVD	-Below Target
109	15492	88.8	358.0	93	12511.5	2380.2	2318.9	724.7	-2.4	2.9	12557.24	-108.2
110	15586	91.1	359.4	94	12511.6	2473.4	2412.9	722.6	2.4	2.9	12559.11	-110.1
111	15680	89.3	359.2	94	12511.3	2566.8	2506.8	721.4	-1.9	1.9	12560.58	-111.6
112	15774	91.0	1.4	94	12511.0	2660.4	2600.8	721.9	1.8	3.0	12562.13	-113.1
113	15868	90.1	1.4	94	12510.1	2754.1	2694.8	724.2	-1.0	1.0	12563.03	-114.0
114	15963	90.6	2.5	95	12509.6	2848.9	2789.7	727.5	0.5	1.3	12564.27	-115.3
115	16057	91.0	0.8	94	12508.3	2942.6	2883.7	730.2	0.4	1.9	12564.75	-115.8
116	16150	91.9	1.1	93	12505.9	3035.3	2976.6	731.7	1.0	1.0	12564.18	-115.2
117	16243	89.1	359.6	93	12505.1	3127.8	3069.6	732.3	-3.0	3.4	12565.15	-116.1
118	16337	91.2	1.7	94	12504.8	3221.4	3163.6	733.3	2.2	3.2	12566.70	-117.7
119	16431	88.2	0.3	94	12505.3	3315.1	3257.5	735.0	-3.2	3.5	12568.99	-120.0
120	16525	89.7	359.3	94	12507.1	3408.5	3351.5	734.7	1.6	1.9	12572.50	-123.5
121	16620	91.6	359.4	95	12506.0	3502.9	3446.5	733.6	2.0	2.0	12573.24	-124.2