



Lea County, NM (NAD 27 NME)

Magnolia 15 #701H

H&P 621

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

WELL DETAILS: #701H

Ground Level: 3295.0
KB = 25' @ 3320.0usft (H&P 621)
Northing: 382619.00 Easting: 737740.00 Latitude: 32° 2' 55.604 N Longitude: 103° 33' 57.649 W

Azimuths to Grid North
True North: -0.41°
Magnetic North: 6.58°

Magnetic Field
Strength: 47878.3 auT
Dip Angle: 69.91°
Date: 1/18/2017
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.58°
To convert a Magnetic Direction to a True Direction, Add 6.98° East
To convert a True Direction to a Grid Direction, Subtract 0.41°

SECTION DETAILS

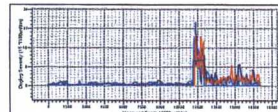
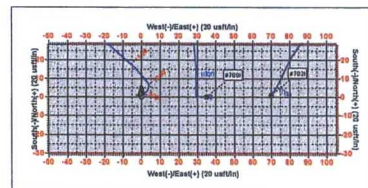
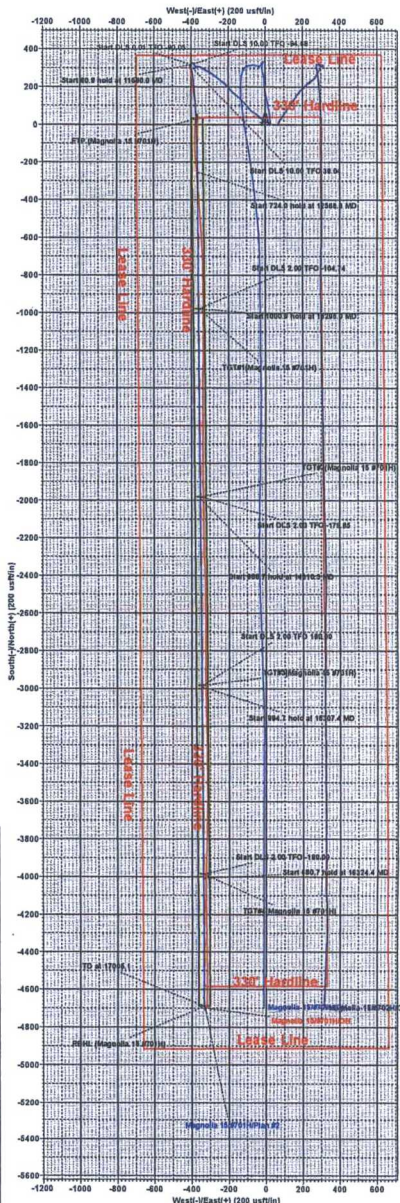
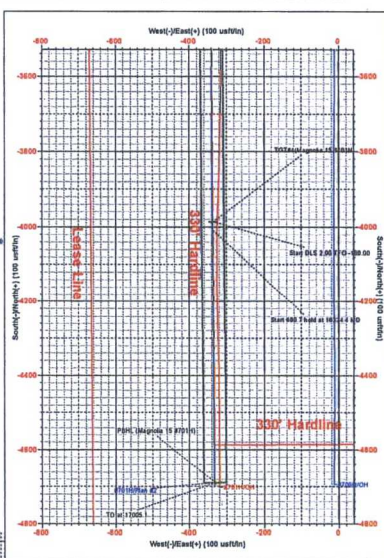
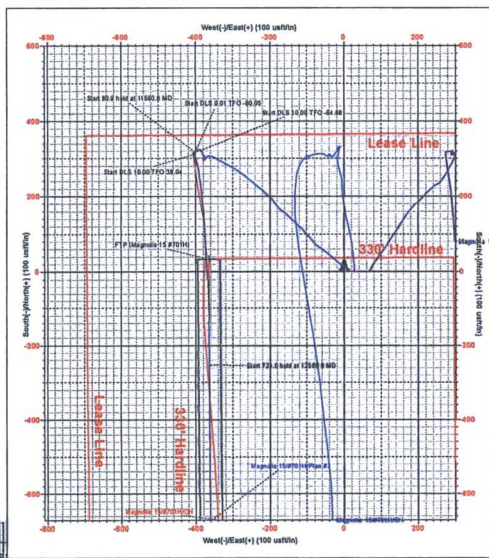
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	11523.0	1.80	221.20	11502.2	318.5	-400.8	0.00	0.00	-289.6	
2	11580.0	1.80	221.10	11559.1	317.2	-402.0	0.01	-90.05	-288.2	
3	11660.9	1.80	221.10	11640.0	315.3	-403.6	0.00	0.00	-289.1	
4	11727.2	5.72	141.82	11706.1	311.4	-401.9	10.00	-94.88	-282.4	
5	12568.8	89.44	179.63	12224.9	-253.4	-361.2	10.00	38.04	278.2	
6	13292.8	89.44	179.63	12232.0	-977.4	-356.5	0.00	0.00	1000.0	TGT#1(Magnolia 15 #701H)
7	13295.0	89.43	179.59	12232.0	-979.6	-356.5	2.00	-104.74	1002.2	
8	14295.9	89.43	179.59	12242.0	-1980.4	-349.4	0.00	0.00	2000.0	TGT#2(Magnolia 15 #701H)
9	14310.3	89.14	179.59	12242.2	-1994.8	-349.3	2.00	-179.85	2014.4	
10	15299.0	89.14	179.59	12257.0	-2983.3	-342.2	0.00	0.00	3000.0	TGT#3(Magnolia 15 #701H)
11	15307.4	88.97	179.59	12257.1	-2991.8	-342.1	2.00	180.00	3008.4	
12	16302.1	88.97	179.59	12275.0	-3986.3	-335.0	0.00	0.00	4000.0	TGT#4(Magnolia 15 #701H)
13	16324.4	88.53	179.59	12275.5	-4008.6	-334.9	2.00	-180.00	4022.2	
14	17005.1	88.53	179.59	12293.0	-4689.0	-330.0	0.00	0.00	4700.6	PBHL (Magnolia 15 #701H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (Magnolia 15 #701H)	12225.0	33.0	-363.0	382682.00	737377.00
TGT#1(Magnolia 15 #701H)	12232.0	-977.4	-356.5	381641.60	737383.46
TGT#2(Magnolia 15 #701H)	12242.0	-1980.4	-349.4	380639.80	737390.82
TGT#3(Magnolia 15 #701H)	12257.0	-2983.3	-342.2	379636.70	737397.60
TGT#4(Magnolia 15 #701H)	12275.0	-3986.3	-335.0	378632.70	737404.57
PBHL (Magnolia 15 #701H)	12293.0	-4689.0	-330.0	377930.00	737410.00



Lea County, NM (NAD 27 NME)
Plan #2
Scale: 1 inch = 100 feet
Date: 1/18/2017



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EOG Resources - Midland

Lea County, NM (NAD 27 NME)

Magnolia 15

#701H

OH

Survey: Intrepid MWD #1

EOG PVA

16 April, 2017



EOG Resources, Inc.
EOG PVA

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 27 NME)
Site: Magnolia 15
Well: #701H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3320.0usft (H&P 621)
MD Reference: KB = 25' @ 3320.0usft (H&P 621)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Project Lea County, NM (NAD 27 NME)

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Site Magnolia 15

Site Position:	From:	Map	0.0 usft	Northing:	382,619.00 usft	Latitude:	32° 2' 58.604 N
				Easting:	737,740.00 usft	Longitude:	103° 33' 57.649 W
Position Uncertainty:				Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well #701H

Well Position	+N/-S	0.0 usft	Northing:	382,619.00 usft	Latitude:	32° 2' 58.604 N
	+E/-W	0.0 usft	Easting:	737,740.00 usft	Longitude:	103° 33' 57.649 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,295.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/18/2017	6.98	59.91	47,878

Design OH

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	184.03

Survey Program Date 4/15/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
169.0	15,843.0	Intrepid MWD #1 (OH)	MWD	MWD - Standard



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North Reference: Grid
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Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)		TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
169.0	0.70	63.30	169.0	169.0	0.5	0.9	0.41	0.41	0.00	0.0	0.0
260.0	0.60	36.80	260.0	260.0	1.1	1.7	0.34	-0.11	-29.12	0.0	0.0
341.0	0.80	37.10	341.0	341.0	1.9	2.3	0.25	0.25	0.37	0.0	0.0
430.0	0.60	49.90	430.0	430.0	2.7	3.0	0.28	-0.22	14.38	0.0	0.0
493.0	0.60	30.70	493.0	493.0	3.2	3.5	0.32	0.00	-30.48	0.0	0.0
679.0	0.60	14.80	679.0	679.0	5.0	4.2	0.09	0.00	-8.55	0.0	0.0
773.0	0.30	1.40	773.0	773.0	5.7	4.3	0.34	-0.32	-14.26	0.0	0.0
877.0	0.30	346.80	877.0	877.0	6.2	4.3	0.07	0.00	-14.04	0.0	0.0
965.0	0.30	345.10	965.0	965.0	6.7	4.2	0.01	0.00	-1.93	0.0	0.0
1,057.0	0.30	345.80	1,057.0	1,057.0	7.1	4.0	0.00	0.00	0.76	0.0	0.0
1,150.0	0.10	343.30	1,150.0	1,150.0	7.4	4.0	0.22	-0.22	-2.69	0.0	0.0
1,243.0	1.40	313.40	1,242.9	1,242.9	8.3	3.1	1.41	1.40	-32.15	0.0	0.0
1,337.0	2.20	321.20	1,336.9	1,336.9	10.5	1.1	0.89	0.85	8.30	0.0	0.0
1,431.0	3.80	318.90	1,430.8	1,430.8	14.2	-2.0	1.71	1.70	-2.45	0.0	0.0
1,525.0	4.90	310.50	1,524.5	1,524.5	19.2	-7.1	1.35	1.17	-8.94	0.0	0.0
1,618.0	5.10	311.90	1,617.1	1,617.1	24.5	-13.2	0.25	0.22	1.51	0.0	0.0
1,712.0	5.10	308.80	1,710.8	1,710.8	30.0	-19.6	0.29	0.00	-3.30	0.0	0.0
1,805.0	5.20	308.60	1,803.4	1,803.4	35.2	-26.1	0.11	0.11	-0.22	0.0	0.0
1,898.0	5.00	309.50	1,896.0	1,896.0	40.4	-32.5	0.23	-0.22	0.97	0.0	0.0
1,991.0	5.00	309.50	1,988.7	1,988.7	45.5	-38.8	0.00	0.00	0.00	0.0	0.0
2,084.0	4.80	308.70	2,081.3	2,081.3	50.5	-45.0	0.23	-0.22	-0.86	0.0	0.0
2,177.0	4.80	308.70	2,174.0	2,174.0	55.4	-51.0	0.00	0.00	0.00	0.0	0.0
2,271.0	4.60	305.10	2,267.7	2,267.7	60.0	-57.2	0.38	-0.21	-3.83	0.0	0.0
2,456.0	4.50	301.40	2,452.1	2,452.1	68.1	-69.4	0.17	-0.05	-2.00	0.0	0.0
2,550.0	5.10	318.50	2,545.8	2,545.8	73.1	-75.4	1.64	0.64	18.19	0.0	0.0
2,644.0	5.10	321.10	2,639.4	2,639.4	79.5	-80.8	0.25	0.00	2.77	0.0	0.0



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EOG PVA

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Design: OH

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2,736.0	5.10	320.10	2,731.0	85.8	-85.9	0.10	0.00	-1.09	0.0	0.0	
2,830.0	4.70	320.00	2,824.7	92.0	-91.1	0.43	-0.43	-0.11	0.0	0.0	
2,923.0	4.40	319.50	2,917.4	97.6	-95.9	0.33	-0.32	-0.54	0.0	0.0	
3,017.0	4.10	319.10	3,011.2	102.9	-100.4	0.32	-0.32	-0.43	0.0	0.0	
3,110.0	4.40	317.30	3,103.9	108.0	-105.0	0.35	0.32	-1.94	0.0	0.0	
3,204.0	4.10	317.30	3,197.6	113.2	-109.7	0.32	-0.32	0.00	0.0	0.0	
3,297.0	4.90	311.10	3,290.4	118.2	-115.0	1.01	0.86	-6.67	0.0	0.0	
3,390.0	4.90	310.60	3,383.0	123.4	-121.0	0.05	0.00	-0.54	0.0	0.0	
3,484.0	4.00	316.80	3,476.7	128.4	-126.3	1.08	-0.96	6.60	0.0	0.0	
3,578.0	3.50	312.50	3,570.5	132.7	-130.6	0.61	-0.53	-4.57	0.0	0.0	
3,671.0	4.00	313.80	3,663.3	136.9	-135.1	0.55	0.54	1.40	0.0	0.0	
3,765.0	5.20	309.10	3,757.0	141.9	-140.7	1.34	1.28	-5.00	0.0	0.0	
3,859.0	4.60	318.00	3,850.7	147.3	-146.6	1.03	-0.64	9.47	0.0	0.0	
3,952.0	5.10	309.20	3,943.3	152.7	-152.3	0.96	0.54	-9.46	0.0	0.0	
4,139.0	4.80	305.20	4,129.6	162.5	-165.1	0.24	-0.16	-2.14	0.0	0.0	
4,327.0	4.00	318.90	4,317.1	172.0	-175.8	0.70	-0.43	7.29	0.0	0.0	
4,515.0	5.10	323.80	4,504.5	183.7	-185.1	0.62	0.59	2.61	0.0	0.0	
4,702.0	4.60	314.10	4,690.8	195.6	-195.4	0.51	-0.27	-5.19	0.0	0.0	
4,889.0	6.00	311.60	4,877.0	207.3	-208.1	0.76	0.75	-1.34	0.0	0.0	
5,077.0	4.80	308.70	5,064.2	218.7	-221.6	0.65	-0.64	-1.54	0.0	0.0	
5,265.0	5.80	309.80	5,251.4	229.7	-235.0	0.53	0.53	0.59	0.0	0.0	
5,453.0	5.20	309.60	5,438.5	241.2	-248.9	0.32	-0.32	-0.11	0.0	0.0	
5,641.0	4.50	310.70	5,625.8	251.5	-261.0	0.38	-0.37	0.59	0.0	0.0	
5,828.0	5.50	303.50	5,812.1	261.2	-274.1	0.63	0.53	-3.85	0.0	0.0	
6,015.0	4.90	300.10	5,998.4	270.2	-288.4	0.36	-0.32	-1.82	0.0	0.0	
6,203.0	5.40	299.20	6,185.6	278.5	-303.1	0.27	0.27	-0.48	0.0	0.0	
6,389.0	5.30	298.10	6,370.8	286.8	-318.3	0.08	-0.05	-0.59	0.0	0.0	



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6,577.0	4.80	297.90	6,558.1	294.6	-332.9	0.27	-0.27	-0.11	0.0	0.0	
6,764.0	4.50	299.40	6,744.5	301.9	-346.2	0.17	-0.16	0.80	0.0	0.0	
6,950.0	2.50	278.70	6,930.1	306.0	-356.6	1.26	-1.08	-11.13	0.0	0.0	
7,138.0	0.40	301.10	7,118.0	307.0	-361.2	1.14	-1.12	11.91	0.0	0.0	
7,326.0	1.00	248.50	7,306.0	306.7	-363.3	0.44	0.32	-27.98	0.0	0.0	
7,511.0	2.00	216.40	7,491.0	303.6	-366.7	0.69	0.54	-17.35	0.0	0.0	
7,699.0	0.60	219.00	7,678.9	300.1	-369.3	0.75	-0.74	1.38	0.0	0.0	
7,886.0	0.60	338.40	7,865.9	300.3	-370.3	0.55	0.00	63.85	0.0	0.0	
8,074.0	1.00	232.70	8,053.9	300.2	-371.9	0.69	0.21	-56.22	0.0	0.0	
8,261.0	1.20	230.90	8,240.9	298.0	-374.8	0.11	0.11	-0.96	0.0	0.0	
8,449.0	1.20	216.80	8,428.8	295.2	-377.5	0.16	0.00	-7.50	0.0	0.0	
8,635.0	1.50	51.00	8,614.8	295.2	-376.7	1.44	0.16	-89.14	0.0	0.0	
8,823.0	0.80	63.50	8,802.8	297.3	-373.7	0.39	-0.37	6.65	0.0	0.0	
9,010.0	0.10	49.80	8,989.7	298.0	-372.4	0.38	-0.37	-7.33	0.0	0.0	
9,197.0	0.90	341.20	9,176.7	299.5	-372.7	0.46	0.43	-36.68	0.0	0.0	
9,384.0	1.10	3.80	9,363.7	302.7	-373.1	0.23	0.11	12.09	0.0	0.0	
9,571.0	1.10	348.20	9,550.7	306.2	-373.3	0.16	0.00	-8.34	0.0	0.0	
9,758.0	1.80	295.70	9,737.6	309.2	-376.3	0.76	0.37	-28.07	0.0	0.0	
9,944.0	1.00	352.50	9,923.6	312.1	-379.2	0.81	-0.43	30.54	0.0	0.0	
10,131.0	0.60	6.80	10,110.6	314.7	-379.3	0.24	-0.21	7.65	0.0	0.0	
10,318.0	2.40	324.00	10,297.5	318.8	-381.4	1.07	0.96	-22.89	0.0	0.0	
10,505.0	2.00	297.70	10,484.4	323.5	-386.6	0.57	-0.21	-14.06	0.0	0.0	
10,692.0	0.80	254.30	10,671.3	324.7	-390.8	0.81	-0.64	-23.21	0.0	0.0	
10,879.0	0.10	29.90	10,858.3	324.5	-392.0	0.47	-0.37	72.51	0.0	0.0	
11,066.0	0.80	212.40	11,045.3	323.5	-392.6	0.48	0.37	-94.92	0.0	0.0	
11,253.0	1.50	265.20	11,232.3	322.2	-395.7	0.64	0.37	28.24	0.0	0.0	
11,441.0	1.30	215.10	11,420.2	320.3	-399.4	0.64	-0.11	-26.65	0.0	0.0	



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11,523.0	1.80	221.20	11,502.2	318.5	-400.8	0.64	0.61	7.44	0.0	0.0	
11,554.0	1.90	222.30	11,533.2	317.8	-401.4	0.34	0.32	3.55	0.0	0.0	
11,648.0	1.90	246.30	11,627.1	316.0	-403.9	0.84	0.00	25.53	-0.3	-0.6	
11,741.0	1.80	257.20	11,720.1	315.1	-406.8	0.39	-0.11	11.72	-4.6	-6.2	
11,780.0	1.80	154.50	11,759.0	314.4	-407.1	7.21	0.00	-263.33	13.0	-3.8	
11,834.0	11.30	161.00	11,812.6	308.6	-405.0	17.62	17.59	12.04	19.2	-4.8	
11,881.0	20.10	173.30	11,857.8	296.2	-402.6	19.92	18.72	26.17	20.0	-9.2	
11,928.0	25.80	174.70	11,901.1	278.0	-400.7	12.18	12.13	2.98	19.7	-10.9	
11,975.0	30.40	172.40	11,942.6	256.0	-398.1	10.05	9.79	-4.89	19.4	-10.9	
12,022.0	33.80	169.50	11,982.4	231.3	-394.2	7.94	7.23	-6.17	19.6	-9.2	
12,068.0	36.80	168.90	12,019.9	205.2	-389.2	6.57	6.52	-1.30	20.3	-6.8	
12,116.0	42.90	170.10	12,056.7	175.0	-383.6	12.81	12.71	2.50	20.9	-4.3	
12,163.0	46.30	169.80	12,090.2	142.5	-377.9	7.25	7.23	-0.64	21.4	-1.1	
12,210.0	49.00	173.00	12,121.9	108.2	-372.7	7.64	5.74	6.81	23.1	1.0	
12,256.0	55.60	180.30	12,150.0	71.9	-370.7	19.05	14.35	15.87	24.8	-0.9	
12,303.0	63.30	184.60	12,173.9	31.5	-372.5	18.17	16.38	9.15	24.0	-5.4	
12,321.9	65.43	183.98	12,182.1	14.5	-373.7	11.65	11.27	-3.27	23.2	-7.2	
FTP (Magnolia 15 #701H)											
12,350.0	68.60	183.10	12,193.0	-11.3	-375.3	11.65	11.28	-3.14	21.8	-9.5	
12,397.0	70.40	181.90	12,209.5	-55.3	-377.2	4.52	3.83	-2.55	20.4	-12.7	
12,463.0	80.40	177.80	12,226.1	-119.1	-377.0	16.30	15.15	-6.21	18.0	-13.8	
12,491.0	84.80	175.90	12,229.7	-146.8	-375.5	17.09	15.71	-6.79	15.7	-12.8	
12,522.0	85.80	176.00	12,232.3	-177.6	-373.3	3.24	3.23	0.32	13.1	-11.2	
12,596.0	91.50	175.60	12,234.0	-251.3	-367.9	7.72	7.70	-0.54	9.1	-6.7	
12,690.0	91.60	175.20	12,231.5	-345.0	-360.4	0.44	0.11	-0.43	5.6	0.2	
12,784.0	90.00	175.90	12,230.1	-438.7	-353.1	1.86	-1.70	0.74	3.4	6.9	
12,877.0	87.50	176.30	12,232.2	-531.5	-346.7	2.72	-2.69	0.43	4.5	12.7	



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Local Co-ordinate Reference: Well #701H
TVD Reference: KB = 25' @ 3320.0usft (H&P 621)
MD Reference: KB = 25' @ 3320.0usft (H&P 621)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)	
12,970.0	88.50	176.70	12,235.4	-624.2	-341.1	1.16	1.08	0.43	6.9	17.7	
13,064.0	87.90	177.70	12,238.4	-718.1	-336.5	1.24	-0.64	1.06	8.9	21.7	
13,158.0	89.50	179.70	12,240.5	-812.0	-334.4	2.72	1.70	2.13	10.1	23.2	
13,251.0	89.80	179.60	12,241.1	-905.0	-333.8	0.34	0.32	-0.11	9.8	23.2	
13,323.0	89.57	179.14	12,241.5	-977.1	-333.0	0.72	-0.32	-0.65	9.5	23.6	
TGT#1(Magnolia 15 #701H)											
13,344.0	89.50	179.00	12,241.6	-998.0	-332.6	0.72	-0.32	-0.65	9.4	23.7	
13,438.0	88.90	180.20	12,243.0	-1,092.0	-332.0	1.43	-0.64	1.28	9.8	23.7	
13,531.0	88.70	179.80	12,244.9	-1,185.0	-332.0	0.48	-0.22	-0.43	10.8	23.1	
13,625.0	89.80	181.80	12,246.1	-1,278.9	-333.3	2.43	1.17	2.13	11.1	21.1	
13,720.0	90.10	181.20	12,246.2	-1,373.9	-335.8	0.71	0.32	-0.63	10.3	17.9	
13,813.0	89.30	179.80	12,246.7	-1,466.9	-336.6	1.73	-0.86	-1.51	9.8	16.4	
13,907.0	92.10	180.00	12,245.6	-1,560.9	-336.4	2.99	2.98	0.21	7.7	15.9	
14,000.0	91.40	180.30	12,242.7	-1,653.8	-336.7	0.82	-0.75	0.32	4.0	15.0	
14,094.0	88.40	179.00	12,242.9	-1,747.8	-336.1	3.48	-3.19	-1.38	3.2	14.9	
14,187.0	90.60	180.40	12,243.7	-1,840.8	-335.6	2.80	2.37	1.51	3.1	14.8	
14,282.0	88.60	178.80	12,244.4	-1,935.8	-335.0	2.70	-2.11	-1.68	2.8	14.7	
14,326.3	87.79	179.28	12,245.8	-1,980.1	-334.2	2.12	-1.83	1.07	3.7	15.2	
TGT#2(Magnolia 15 #701H)											
14,375.0	86.90	179.80	12,248.0	-2,028.7	-333.8	2.12	-1.83	1.08	5.3	15.2	
14,469.0	85.90	179.10	12,253.9	-2,122.5	-332.9	1.30	-1.06	-0.74	9.8	15.4	
14,562.0	88.90	180.00	12,258.1	-2,215.4	-332.2	3.37	3.23	0.97	12.6	15.5	
14,656.0	87.30	177.00	12,261.2	-2,309.3	-329.7	3.62	-1.70	-3.19	14.3	17.3	
14,749.0	94.10	179.40	12,260.1	-2,402.2	-326.8	7.75	7.31	2.58	11.8	19.6	
14,844.0	92.50	179.80	12,254.6	-2,497.0	-326.2	1.74	-1.68	0.42	4.9	19.5	
14,937.0	93.20	179.00	12,250.0	-2,589.9	-325.2	1.14	0.75	-0.86	-1.1	19.8	
15,032.0	88.70	180.20	12,248.4	-2,684.9	-324.5	4.90	-4.74	1.26	-4.1	19.8	



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Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,126.0	89.70	179.10	12,249.8	-2,778.9	-323.9	1.58	1.06	-1.17	-4.2	19.7
15,219.0	90.30	180.50	12,249.8	-2,871.9	-323.6	1.64	0.65	1.51	-5.6	19.4
15,313.0	87.30	178.70	12,251.7	-2,965.8	-323.0	3.72	-3.19	-1.91	-5.0	19.4
15,330.4	87.56	178.92	12,252.5	-2,983.2	-322.6	1.96	1.49	1.28	-4.5	19.6
TGT#3(Magnolia 15 #701H)										
15,407.0	88.70	179.90	12,255.0	-3,059.8	-321.8	1.96	1.49	1.28	-3.4	19.8
15,500.0	88.10	178.10	12,257.6	-3,152.7	-320.2	2.04	-0.65	-1.94	-2.4	20.8
15,594.0	86.90	179.00	12,261.7	-3,246.6	-317.8	1.60	-1.28	0.96	0.0	22.5
15,687.0	90.10	179.90	12,264.1	-3,339.5	-316.9	3.57	3.44	0.97	0.7	22.7
15,781.0	90.10	179.00	12,264.0	-3,433.5	-316.0	0.96	0.00	-0.96	-1.1	23.0
15,875.0	87.20	178.50	12,266.2	-3,527.5	-314.0	3.13	-3.09	-0.53	-0.6	24.3
15,969.0	88.30	180.90	12,269.9	-3,621.4	-313.5	2.81	1.17	2.55	1.4	24.2
16,063.0	88.90	181.50	12,272.2	-3,715.3	-315.5	0.90	0.64	0.64	2.1	21.5
16,157.0	88.40	180.70	12,274.4	-3,809.3	-317.3	1.00	-0.53	-0.85	2.6	19.0
16,250.0	91.70	182.40	12,274.3	-3,902.2	-319.8	3.99	3.55	1.83	0.8	15.9
16,334.5	91.07	182.04	12,272.3	-3,986.7	-323.0	0.86	-0.74	-0.43	-2.8	12.0
TGT#4(Magnolia 15 #701H)										
16,344.0	91.00	182.00	12,272.1	-3,996.1	-323.4	0.86	-0.74	-0.43	-3.1	11.6
16,437.0	86.60	179.00	12,274.0	-4,089.1	-324.2	5.73	-4.73	-3.23	-3.5	10.1
16,531.0	88.90	179.50	12,277.7	-4,183.0	-323.0	2.50	2.45	0.53	-2.2	10.7
16,625.0	88.10	178.70	12,280.2	-4,277.0	-321.5	1.20	-0.85	-0.85	-2.2	11.5
16,719.0	86.30	178.50	12,284.8	-4,370.8	-319.2	1.93	-1.91	-0.21	0.0	13.1
16,812.0	90.00	179.80	12,287.8	-4,463.7	-317.8	4.22	3.98	1.40	0.6	13.8
16,905.0	86.20	180.30	12,290.9	-4,556.7	-317.9	4.12	-4.09	0.54	1.3	13.0
16,988.0	84.80	179.10	12,297.4	-4,639.4	-317.5	2.22	-1.69	-1.45	5.6	12.9
17,036.8	84.80	179.10	12,301.8	-4,688.0	-316.7	0.00	0.00	0.00	8.8	13.3
PBHL (Magnolia 15 #701H)										



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Survey

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17,050.0	84.80	179.10	12,303.0	-4,701.1	-316.5	0.00	0.00	0.00	11.5	17.3

Checked By: _____ Approved By: _____ Date: _____