EOG Resources - Midland

Lea County, NM (NAD 27 NME)
Thor 21 Fed Com
#708H
OH

Design: OH

PVA Report

12 June, 2017

EOG Resources

PVA Report

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #708H
Project:	Lea County, NM (NAD 27 NME)	**TVD Reference:**	K b= 25 @ 3286.0usft (H&P 647)
Site:	Thor 21 Fed Com	**MD Reference:**	K b= 25 @ 3286.0usft (H&P 647)
Well:	#708H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14 Single User Db

Project Lea County, NM (NAD 27 NME)

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

Site Thor 21 Fed Com

Site Position:		**Northing:**	372,581.00 usft	**Latitude:**	32° 1' 19.428 N
From:	Map	**Easting:**	735,478.00 usft	**Longitude:**	103° 34' 24.750 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.40 °

Well #708H

Well Position	**+N/-S**	0.0 usft	**Northing:**	372,781.00 usft	**Latitude:**	32° 1' 21.409 N
	+E/-W	0.0 usft	**Easting:**	735,448.00 usft	**Longitude:**	103° 34' 25.082 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	0.0 usft	**Ground Level:**	3,261.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/16/2016	7.01	59.89	47,887.85376269

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	355.63

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Survey Program **Date** 6/12/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
458.5	1,014.5	Wildfire MWD #1 (OH)	MWD	MWD - Standard
1,166.0	16,973.0	Intrepid MWD #1 (OH)	MWD	MWD - Standard

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	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	0.0	0.0	0.0	0.00	0.00	0.00	0.0	0.0
458.5	0.70	94.98	458.5	-0.2	2.8	0.15	0.15	0.00	0.0	0.0
489.5	0.60	93.98	489.5	-0.3	3.1	0.32	-0.32	-3.23	0.0	0.0
521.5	0.80	89.98	521.5	-0.3	3.5	0.64	0.62	-12.50	0.0	0.0
553.5	0.70	99.98	553.5	-0.3	3.9	0.51	-0.31	31.25	0.0	0.0
585.5	0.70	86.98	585.5	-0.3	4.3	0.50	0.00	-40.62	0.0	0.0
613.5	0.70	98.98	613.5	-0.4	4.7	0.52	0.00	42.86	0.0	0.0
679.5	0.50	94.98	679.5	-0.4	5.4	0.31	-0.30	-6.06	0.0	0.0
742.5	0.40	82.98	742.5	-0.4	5.9	0.22	-0.16	-19.05	0.0	0.0
773.5	0.40	94.98	773.5	-0.4	6.1	0.27	0.00	38.71	0.0	0.0
804.5	0.40	101.98	804.5	-0.5	6.3	0.16	0.00	22.58	0.0	0.0
835.5	0.30	83.98	835.5	-0.5	6.5	0.48	-0.32	-58.06	0.0	0.0
866.5	0.50	100.98	866.5	-0.5	6.7	0.74	0.65	54.84	0.0	0.0
897.5	0.50	94.98	897.5	-0.5	6.9	0.17	0.00	-19.35	0.0	0.0
929.5	0.40	79.98	929.5	-0.5	7.2	0.48	-0.31	-46.87	0.0	0.0
961.5	0.50	75.98	961.5	-0.5	7.4	0.33	0.31	-12.50	0.0	0.0
992.5	0.70	76.98	992.5	-0.4	7.8	0.65	0.65	3.23	0.0	0.0
1,014.5	0.50	79.98	1,014.5	-0.4	8.0	0.92	-0.91	13.64	0.0	0.0
1,166.0	0.30	91.00	1,166.0	-0.2	9.0	0.14	-0.13	7.27	0.2	-0.1
1,353.0	1.30	263.50	1,352.9	-0.5	7.4	0.85	0.53	92.25	-1.4	-1.0
1,539.0	1.90	262.50	1,538.9	-1.1	2.3	0.32	0.32	-0.54	-3.6	-3.7

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Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14 Single User Db

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
1,727.0	2.90	236.10	1,726.7	-4.2	-4.8	0.78	0.53	-14.04	-2.8	-7.5
1,914.0	2.70	221.90	1,913.5	-10.1	-11.6	0.38	-0.11	-7.59	-3.3	-8.7
2,102.0	2.80	215.40	2,101.3	-17.2	-17.3	0.17	0.05	-3.46	-4.9	-8.3
2,290.0	2.60	218.20	2,289.1	-24.2	-22.6	0.13	-0.11	1.49	-7.6	-7.0
2,477.0	2.20	206.00	2,475.9	-30.8	-26.8	0.35	-0.21	-6.52	-7.6	-7.2
2,664.0	1.90	195.80	2,662.8	-37.0	-29.2	0.25	-0.16	-5.45	-7.2	-5.8
2,852.0	1.80	193.20	2,850.7	-42.9	-30.7	0.07	-0.05	-1.38	-7.4	-2.7
3,039.0	2.20	184.40	3,037.6	-49.3	-31.6	0.27	0.21	-4.71	-8.5	0.0
3,227.0	2.20	177.70	3,225.4	-56.5	-31.8	0.14	0.00	-3.56	-11.2	3.5
3,414.0	1.00	215.20	3,412.4	-61.5	-32.6	0.82	-0.64	20.05	-4.8	13.0
3,601.0	1.40	93.00	3,599.3	-62.9	-31.2	1.13	0.21	-65.35	-14.2	-7.6
3,787.0	1.30	39.10	3,785.3	-61.4	-27.6	0.66	-0.05	-28.98	-12.1	-18.6
3,975.0	2.50	253.00	3,973.2	-60.9	-30.2	1.94	0.64	-77.71	23.9	4.4
4,162.0	3.40	255.60	4,160.0	-63.5	-39.5	0.49	0.48	1.39	20.1	0.3
4,349.0	1.80	191.90	4,346.8	-67.8	-45.5	1.64	-0.86	-34.06	8.7	16.8
4,537.0	3.00	195.10	4,534.7	-75.4	-47.3	0.64	0.64	1.70	7.4	19.8
4,724.0	1.30	269.80	4,721.5	-80.1	-50.7	1.57	-0.91	39.95	22.3	-1.8
4,912.0	0.80	275.90	4,909.5	-80.0	-54.2	0.27	-0.27	3.24	22.8	-8.9
5,101.0	4.50	251.60	5,098.3	-82.2	-62.5	2.00	1.96	-12.86	24.8	-3.7
5,287.0	8.10	239.80	5,283.1	-91.1	-80.8	2.05	1.94	-6.34	20.1	-3.9
5,475.0	8.50	229.80	5,469.2	-106.7	-102.8	0.80	0.21	-5.32	15.6	-4.3
5,662.0	8.40	224.20	5,654.2	-125.4	-122.9	0.44	-0.05	-2.99	15.2	-3.4
5,850.0	8.30	226.80	5,840.2	-144.6	-142.4	0.21	-0.05	1.38	15.0	-4.0
6,039.0	7.30	222.60	6,027.4	-162.8	-160.5	0.61	-0.53	-2.22	16.9	-2.5
6,226.0	7.80	237.10	6,212.8	-178.4	-179.2	1.05	0.27	7.75	18.1	-9.0
6,413.0	10.10	234.90	6,397.5	-194.7	-203.2	1.24	1.23	-1.18	16.1	-13.1
6,602.0	9.50	234.10	6,583.8	-213.4	-229.4	0.33	-0.32	-0.42	11.1	-17.2

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Survey

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6,788.0	11.10	227.70	6,766.8	-234.4	-255.1	1.06	0.86	-3.44	6.6	-18.5
6,976.0	10.30	226.50	6,951.5	-258.2	-280.7	0.44	-0.43	-0.64	-0.8	-19.2
7,163.0	10.90	220.10	7,135.3	-283.2	-304.2	0.71	0.32	-3.42	-6.2	-18.4
7,351.0	8.80	216.80	7,320.5	-308.3	-324.3	1.16	-1.12	-1.76	-10.9	-15.6
7,539.0	6.40	208.10	7,506.9	-329.1	-337.8	1.41	-1.28	-4.63	-16.1	-13.9
7,726.0	3.30	199.10	7,693.2	-343.4	-344.5	1.70	-1.66	-4.81	-24.3	-15.4
7,912.0	0.30	73.30	7,879.1	-348.3	-345.8	1.87	-1.61	-67.63	29.4	-15.1
8,101.0	1.50	47.90	8,068.1	-346.5	-343.5	0.65	0.63	-13.44	30.1	-1.3
8,289.0	0.70	58.90	8,256.0	-344.3	-340.7	0.44	-0.43	5.85	25.7	-6.5
8,476.0	0.80	117.60	8,443.0	-344.3	-338.5	0.40	0.05	31.39	5.9	-24.4
8,663.0	0.80	84.60	8,630.0	-344.8	-336.1	0.24	0.00	-17.65	15.8	-17.9
8,851.0	0.40	222.80	8,818.0	-345.1	-335.2	0.60	-0.21	73.51	-23.4	3.7
9,039.0	1.10	41.20	9,006.0	-344.2	-334.5	0.80	0.37	94.89	22.4	-3.0
9,226.0	0.50	27.30	9,193.0	-342.2	-332.9	0.33	-0.32	-7.43	19.9	2.0
9,410.0	1.40	349.10	9,376.9	-339.2	-333.0	0.57	0.49	-20.76	11.5	13.4
9,598.0	2.10	319.90	9,564.8	-334.4	-335.6	0.59	0.37	-15.53	-1.9	16.2
9,785.0	1.60	2.10	9,751.8	-329.1	-337.7	0.75	-0.27	22.57	4.3	15.6
9,973.0	0.50	44.50	9,939.7	-325.9	-337.1	0.68	-0.59	22.55	10.9	10.4
10,161.0	0.20	26.40	10,127.7	-325.0	-336.3	0.17	-0.16	-9.63	6.0	13.0
10,349.0	1.00	142.80	10,315.7	-326.1	-335.2	0.59	0.43	61.91	7.5	-10.9
10,537.0	1.00	219.20	10,503.7	-328.6	-335.2	0.66	0.00	40.64	-10.9	-8.2
10,725.0	0.70	133.40	10,691.7	-330.7	-335.4	0.63	-0.16	-45.64	6.1	-13.1
10,913.0	0.70	192.90	10,879.7	-332.6	-334.9	0.37	0.00	31.65	-9.9	-10.9
11,099.0	0.70	181.10	11,065.6	-334.8	-335.1	0.08	0.00	-6.34	-9.7	-13.0
11,286.0	0.50	267.60	11,252.6	-336.0	-336.0	0.45	-0.11	46.26	-14.4	10.0
11,473.0	1.20	239.40	11,439.6	-337.1	-338.5	0.43	0.37	-15.08	-20.1	1.6
11,536.0	1.20	250.50	11,502.6	-337.6	-339.7	0.37	0.00	17.62	-20.7	5.6

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11,667.0	1.60	234.20	11,633.6	-339.1	-342.4	0.43	0.31	-12.44	-24.6	-0.8
11,762.0	3.80	23.40	11,728.5	-337.0	-342.3	5.51	2.32	157.05	19.7	13.6
11,809.0	9.60	38.30	11,775.2	-332.5	-339.2	12.78	12.34	31.70	20.8	5.5
11,855.0	12.30	23.40	11,820.3	-325.0	-334.9	8.46	5.87	-32.39	17.6	6.4
11,902.0	15.30	16.70	11,866.0	-314.5	-331.1	7.22	6.38	-14.26	17.2	4.4
11,949.0	21.60	12.50	11,910.5	-300.1	-327.5	13.69	13.40	-8.94	17.2	1.7
11,996.0	29.30	13.00	11,952.9	-280.4	-323.0	16.39	16.38	1.06	15.6	-2.6
12,043.0	34.90	6.10	11,992.8	-255.8	-319.0	14.23	11.91	-14.68	12.8	-4.8
12,090.0	37.70	2.70	12,030.6	-228.0	-316.9	7.34	5.96	-7.23	10.5	-6.3
12,137.0	40.40	0.10	12,067.1	-198.5	-316.2	6.72	5.74	-5.53	9.6	-6.8
12,184.0	44.60	359.10	12,101.8	-166.7	-316.4	9.05	8.94	-2.13	9.6	-6.6
12,231.0	49.30	359.80	12,133.9	-132.4	-316.7	10.06	10.00	1.49	9.6	-6.6
12,278.0	55.40	2.10	12,162.6	-95.2	-316.1	13.54	12.98	4.89	8.8	-7.8
12,325.0	60.80	0.60	12,187.4	-55.3	-315.2	11.80	11.49	-3.19	7.4	-8.8
12,372.0	63.00	359.60	12,209.5	-13.9	-315.1	5.04	4.68	-2.13	6.6	-9.1
12,419.0	66.50	0.20	12,229.6	28.6	-315.2	7.54	7.45	1.28	7.2	-9.4
12,466.0	74.60	0.90	12,245.2	72.9	-314.7	17.29	17.23	1.49	6.8	-10.1
12,513.0	83.00	1.10	12,254.3	119.0	-313.9	17.88	17.87	0.43	3.5	-11.2
12,606.0	87.90	359.80	12,261.7	211.7	-313.2	5.45	5.27	-1.40	-2.4	-12.6
12,700.0	92.00	358.30	12,261.8	305.6	-314.8	4.64	4.36	-1.60	-2.0	-11.7
12,794.0	92.40	356.30	12,258.2	399.4	-319.2	2.17	0.43	-2.13	-2.7	-7.9
12,822.0	92.70	355.60	12,256.9	427.3	-321.2	2.72	1.07	-2.50	-3.1	-6.1
12,915.0	95.30	355.60	12,250.4	519.8	-328.3	2.80	2.80	0.00	-6.8	0.4
13,009.0	93.40	358.20	12,243.3	613.4	-333.3	3.42	-2.02	2.77	-11.1	4.8
13,102.0	90.00	359.90	12,240.6	706.3	-334.9	4.09	-3.66	1.83	-11.0	5.7
13,196.0	89.50	359.30	12,241.0	800.3	-335.5	0.83	-0.53	-0.64	-7.7	5.7
13,290.0	88.40	358.30	12,242.7	894.3	-337.5	1.58	-1.17	-1.06	-3.1	7.0

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13,383.0	90.20	359.80	12,243.8	987.3	-339.0	2.52	1.94	1.61	0.8	7.8
13,477.0	92.00	0.50	12,242.0	1,081.2	-338.8	2.05	1.91	0.74	1.9	6.9
13,571.0	89.00	359.80	12,241.2	1,175.2	-338.5	3.28	-3.19	-0.74	3.9	6.0
13,664.0	90.30	0.10	12,241.8	1,268.2	-338.6	1.43	1.40	0.32	7.3	5.5
13,758.0	89.20	359.40	12,242.2	1,362.2	-339.0	1.39	-1.17	-0.74	10.6	5.2
13,851.0	91.80	359.60	12,241.4	1,455.2	-339.9	2.80	2.80	0.22	12.6	5.4
13,945.0	93.00	359.10	12,237.4	1,549.1	-340.9	1.38	1.28	-0.53	11.5	5.8
14,039.0	89.20	358.80	12,235.6	1,643.1	-342.6	4.06	-4.04	-0.32	12.5	6.9
14,133.0	89.80	358.30	12,236.4	1,737.0	-345.0	0.83	0.64	-0.53	16.2	8.6
14,227.0	90.50	358.10	12,236.2	1,831.0	-348.0	0.77	0.74	-0.21	18.7	10.9
14,321.0	92.60	358.20	12,233.7	1,924.9	-351.0	2.24	2.23	0.11	19.0	13.2
14,414.0	89.30	358.80	12,232.1	2,017.8	-353.4	3.61	-3.55	0.65	20.2	15.0
14,508.0	88.70	357.80	12,233.8	2,111.8	-356.2	1.24	-0.64	-1.06	24.7	17.2
14,600.0	90.20	358.80	12,234.6	2,203.7	-359.0	1.96	1.63	1.09	28.3	19.2
14,694.0	90.80	358.30	12,233.8	2,297.7	-361.3	0.83	0.64	-0.53	30.3	21.0
14,788.0	91.60	0.30	12,231.8	2,391.7	-362.5	2.29	0.85	2.13	31.2	21.5
14,882.0	93.80	3.60	12,227.4	2,485.5	-359.3	4.22	2.34	3.51	29.5	17.7
14,976.0	92.90	0.20	12,221.9	2,579.3	-356.2	3.74	-0.96	-3.62	26.8	13.9
15,070.0	92.90	359.70	12,217.2	2,673.1	-356.3	0.53	0.00	-0.53	24.9	13.3
15,163.0	93.00	1.10	12,212.4	2,766.0	-355.6	1.51	0.11	1.51	22.9	12.0
15,257.0	89.50	0.50	12,210.3	2,860.0	-354.3	3.78	-3.72	-0.64	23.7	10.0
15,351.0	89.20	0.10	12,211.4	2,954.0	-353.8	0.53	-0.32	-0.43	27.5	8.9
15,445.0	94.40	1.70	12,208.4	3,047.9	-352.3	5.79	5.53	1.70	27.5	6.8
15,538.0	94.00	1.00	12,201.6	3,140.6	-350.2	0.87	-0.43	-0.75	23.6	3.9
15,632.0	94.30	0.70	12,194.8	3,234.3	-348.8	0.45	0.32	-0.32	19.7	1.9
15,726.0	94.80	0.60	12,187.4	3,328.0	-347.7	0.54	0.53	-0.11	15.2	0.1
15,820.0	93.30	0.80	12,180.7	3,421.8	-346.6	1.61	-1.60	0.21	11.5	-1.7

EOG Resources

PVA Report

Company:	EOG Resources - Midland	**Local Co-ordinate Reference:**	Well #708H
Project:	Lea County, NM (NAD 27 NME)	**TVD Reference:**	K b= 25 @ 3286.0usft (H&P 647)
Site:	Thor 21 Fed Com	**MD Reference:**	K b= 25 @ 3286.0usft (H&P 647)
Well:	#708H	**North Reference:**	Grid
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM 5000.14 Single User Db

Survey

MD (usft)	Inc (°)	Azi (grid_north_azim	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
15,914.0	93.20	0.70	12,175.4	3,515.6	-345.3	0.15	-0.11	-0.11	9.1	-3.6
16,008.0	90.60	359.60	12,172.3	3,609.6	-345.1	3.00	-2.77	-1.17	8.9	-4.5
16,101.0	90.40	357.90	12,171.5	3,702.5	-347.1	1.84	-0.22	-1.83	11.0	-3.1
16,195.0	92.50	358.10	12,169.1	3,796.4	-350.4	2.24	2.23	0.21	11.6	-0.5
16,288.0	93.70	357.80	12,164.1	3,889.2	-353.7	1.33	1.29	-0.32	9.4	2.2
16,382.0	91.30	357.60	12,160.0	3,983.1	-357.5	2.56	-2.55	-0.21	8.3	5.3
16,476.0	89.90	355.70	12,159.0	4,076.9	-363.0	2.51	-1.49	-2.02	10.3	10.1
16,570.0	90.00	358.20	12,159.1	4,170.8	-368.0	2.66	0.11	2.66	13.3	14.5
16,664.0	93.70	1.30	12,156.0	4,264.7	-368.4	5.13	3.94	3.30	13.1	14.3
16,758.0	91.60	358.70	12,151.7	4,358.6	-368.4	3.55	-2.23	-2.77	11.8	13.6
16,852.0	91.50	358.70	12,149.1	4,452.5	-370.5	0.11	-0.11	0.00	12.2	15.1
16,912.0	91.20	358.30	12,147.7	4,512.5	-372.1	0.83	-0.50	-0.67	12.6	16.2
16,973.0	91.20	358.30	12,146.5	4,573.4	-373.9	0.00	0.00	0.00	13.3	17.6

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
12,341.0	12,195.1	-41.3	-315.0	HL Crossing, MD:12341.0', TVD:12195.1',N/S:-41.3', E/W:-315.0', INC:61.55
16,912.0	12,147.7	4,512.5	-372.1	Final MWD Survey (MD= 16912.0')
16,973.0	12,146.5	4,573.4	-373.9	Final Projection to Bit (MD=16973.0')

Checked By: _____ Approved By: _____ Date: _____

eog resources

Lea County, NM (NAD 27 NME)

Thor 21 Fed Com #708H

H&P 647

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

Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.61°

Magnetic Field
Strength: 47887.9snT
Dip Angle: 59.89°
Date: 10/16/2016
Model: IGRF2015

To convert a Magnetic Direction to a Grid Direction, Add 6.61°
To convert a Magnetic Direction to a True Direction, Add 7.01° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

WELL DETAILS: #708H

Ground Level: 3261.0
K b= 25 @ 3286.0usft (H&P 647)

Northing	Easting	Latittude	Longitude
372781.00	735448.00	32° 1' 21.409 N	103° 34' 25.082 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	Annotation
1	1014.5	0.50	79.98	1014.5	-0.4	8.0	0.00	0.00	-1.0		
2	1114.5	0.50	79.98	1114.5	-0.2	8.8	0.00	0.00	-0.9		
3	1600.4	2.00	225.64	1600.2	-5.8	4.9	0.50	152.32	-6.1		
4	4902.1	2.00	225.64	4900.0	-86.3	-77.5	0.00	0.00	-80.1		
5	5534.3	8.32	225.64	5529.3	-126.1	-118.1	1.00	0.00	-116.5		
6	7296.0	8.32	225.64	7272.4	-304.3	-300.4	0.00	0.00	-280.1		
7	7712.0	0.00	0.00	7687.0	-325.4	-322.0	2.00	180.00	-299.4		
8	11717.3	0.00	0.00	11692.3	-325.4	-322.0	0.00	0.00	-299.4		
9	12634.8	91.75	359.60	12265.0	265.0	-326.1	10.00	359.60	289.5		
10	13849.2	91.75	359.60	12228.0	1478.8	-334.6	0.00	0.00	1500.3	TGT#1(THOR 21 FED COM #708H)	
11	13850.8	91.71	359.60	12228.0	1480.4	-334.6	2.00	179.41	1501.9		
12	15353.5	91.71	359.60	12183.0	2982.4	-345.2	0.00	0.00	3000.2	TGT#2(THOR 21 FED COM #708H)	
13	15357.4	91.79	359.60	12182.9	2986.3	-345.2	2.00	0.00	3004.1		
14	16948.0	91.79	359.60	12133.1	4576.1	-356.3	0.00	0.00	4589.9	Interp @ 12133.1 (#708H OH Plan #2)	

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
TGT#1(THOR 21 FED COM #708H)	12228.0	1478.8	-334.6	374259.80	735113.37
TGT#2(THOR 21 FED COM #708H)	12183.0	2982.4	-345.2	375763.40	735102.85
Interp @ 12133.1 (#708H OH Plan #2)	12133.1	4576.1	-356.3	377357.07	735091.70
FTP(THOR 21 FED COM #708H)	12265.0	-41.0	-324.0	372740.00	735124.00
PBHL(THOR 21 FED COM #708H)	12130.0	4676.0	-357.0	377457.00	735091.00