

HOBBS OCD

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Red Raider 25 State

#704H

OH

Design: OH

Final PVA

02 November, 2018



Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3548.0usft (HP 485)
Site:	Red Raider 25 State	MD Reference:	KB = 25 @ 3548.0usft (HP 485)
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Red Raider 25 State		
Site Position:		Northing:	430,886.00 usft
From:	Map	Easting:	792,872.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 54.895 N
		Longitude:	103° 31' 13.091 W
		Grid Convergence:	0.43 °

Well	#704H		
Well Position	+N-S	0.0 usft	Northing: 430,917.00 usft
	+E-W	0.0 usft	Easting: 791,505.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation: usft
			Latitude: 32° 10' 55.502 N
			Longitude: 103° 31' 28.992 W
			Ground Level: 3,523.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	8/8/2018	6.80	60.02	47,799.95772412

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	6.36

Survey Program	Date	11/2/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
183.0	17,282.0	Intrepid MWD #1 (OH)	MWD	OWSG MWD - Standard



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Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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	0.0
183.0	0.20	27.80	183.0	0.3	0.1	0.11	0.11	0.00	-0.3	0.0	
321.0	0.40	64.30	321.0	0.7	0.7	0.19	0.14	26.45	-0.9	0.3	
495.0	1.20	67.90	495.0	1.7	2.9	0.46	0.46	2.07	-3.3	0.4	
678.0	3.60	45.40	677.8	6.4	8.8	1.38	1.31	-12.30	-10.8	-1.6	
872.0	1.50	44.30	871.6	12.5	14.9	1.08	-1.08	-0.57	-19.4	-1.9	
1,062.0	2.20	72.10	1,061.5	15.4	20.1	0.59	0.37	14.63	-23.9	8.5	
1,252.0	4.20	71.00	1,251.2	18.8	30.2	1.05	1.05	-0.58	-34.6	8.0	
1,293.0	4.60	71.00	1,292.1	19.8	33.1	0.98	0.98	0.00	-37.8	8.0	
1,442.0	6.00	69.60	1,440.4	24.5	46.1	0.94	0.94	-0.94	-51.7	6.9	
1,537.0	6.10	85.40	1,534.9	26.6	55.8	1.75	0.11	16.63	-57.7	22.2	
1,632.0	7.00	108.60	1,629.3	25.2	66.3	2.92	0.95	24.42	-54.6	45.2	
1,727.0	7.70	117.40	1,723.5	20.4	77.4	1.39	0.74	9.26	-59.1	54.0	
1,822.0	8.40	119.90	1,817.6	14.0	89.1	0.82	0.74	2.63	-70.0	56.9	
1,917.0	10.20	119.30	1,911.3	6.4	102.4	1.90	1.89	-0.63	-85.8	56.4	
2,012.0	9.00	115.70	2,005.0	-0.9	116.5	1.41	-1.26	-3.79	-105.1	50.2	
2,107.0	7.30	113.70	2,099.1	-6.6	128.7	1.81	-1.79	-2.11	-120.4	46.1	
2,297.0	7.60	114.30	2,287.4	-16.6	151.2	0.16	0.16	0.32	-144.5	47.5	
2,487.0	9.10	114.80	2,475.4	-28.1	176.3	0.79	0.79	0.26	-171.6	49.1	
2,677.0	10.90	117.30	2,662.5	-42.6	205.9	0.97	0.95	1.32	-201.6	57.2	
2,867.0	9.00	116.20	2,849.7	-57.4	235.2	1.00	-1.00	-0.58	-224.4	50.7	
3,057.0	9.90	115.80	3,037.1	-71.1	263.2	0.47	0.47	-0.21	-232.1	45.8	
3,247.0	9.10	112.60	3,224.5	-84.0	291.8	0.50	-0.42	-1.68	-239.3	30.2	
3,437.0	8.70	105.90	3,412.2	-93.7	319.5	0.58	-0.21	-3.53	-244.1	1.9	
3,627.0	10.30	108.60	3,599.6	-103.0	349.4	0.87	0.84	1.42	-248.7	14.0	
3,817.0	7.20	116.90	3,787.4	-113.8	376.2	1.76	-1.63	4.37	-246.7	48.0	
3,912.0	5.90	112.30	3,881.7	-118.4	386.0	1.47	-1.37	-4.84	-247.3	27.0	



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Site:	Red Raider 25 State	MD Reference:	KB = 25 @ 3548.0usft (HP 465)
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

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)	
4,007.0	5.50	109.70	3,976.3	-121.8	394.8	0.50	-0.42	-2.74	-244.5	15.4	
4,197.0	5.50	111.90	4,165.4	-128.2	411.8	0.11	0.00	1.16	-235.5	23.5	
4,387.0	7.50	107.40	4,354.2	-135.3	432.1	1.09	1.05	-2.37	-231.6	5.0	
4,578.0	10.50	109.10	4,542.8	-144.8	460.4	1.58	1.57	0.89	-234.6	12.0	
4,767.0	8.50	127.80	4,729.2	-159.0	487.8	1.93	-1.06	9.89	-224.2	82.8	
4,957.0	9.20	125.40	4,917.0	-176.4	511.2	0.42	0.37	-1.26	-231.3	65.2	
5,143.0	13.20	124.00	5,099.4	-196.9	541.0	2.16	2.15	-0.75	-244.0	52.6	
5,325.0	8.70	127.40	5,278.0	-216.9	569.2	2.50	-2.47	1.87	-251.2	59.8	
5,515.0	2.50	79.70	5,467.1	-224.8	584.7	3.82	-3.26	-25.11	-204.7	-142.3	
5,704.0	2.90	71.50	5,655.9	-222.6	593.3	0.29	0.21	-4.34	-170.3	-154.5	
5,894.0	3.00	69.80	5,845.6	-219.4	602.5	0.07	0.05	-0.89	-154.8	-143.0	
6,084.0	1.80	344.70	6,035.5	-214.8	606.4	1.77	-0.63	-44.79	111.2	-149.4	
6,274.0	2.20	346.40	6,225.4	-208.3	604.7	0.21	0.21	0.89	85.9	-130.3	
6,464.0	2.20	349.70	6,415.3	-201.2	603.2	0.07	0.00	1.74	58.2	-111.6	
6,654.0	2.30	348.80	6,605.1	-193.9	601.8	0.06	0.05	-0.47	39.4	-87.8	
6,844.0	0.70	224.90	6,795.1	-191.0	600.3	1.45	-0.84	-65.21	39.7	55.1	
7,034.0	0.40	248.70	6,985.1	-192.0	598.8	0.20	-0.16	12.53	36.6	17.8	
7,224.0	0.60	248.90	7,175.1	-192.6	597.3	0.11	0.11	0.11	20.1	5.3	
7,414.0	0.80	240.90	7,365.0	-193.6	595.2	0.12	0.11	-4.21	12.3	3.0	
7,603.0	1.00	253.70	7,554.0	-194.7	592.4	0.15	0.11	6.77	9.7	0.5	
7,793.0	1.50	266.60	7,744.0	-195.3	588.4	0.30	0.26	6.79	5.5	-1.3	
7,983.0	1.50	274.30	7,933.9	-195.3	583.4	0.11	0.00	4.05	0.3	-1.7	
8,173.0	1.60	285.40	8,123.8	-194.4	578.4	0.17	0.05	5.84	-5.1	-1.3	
8,363.0	1.30	292.90	8,313.8	-192.9	573.8	0.19	-0.16	3.95	-10.1	-0.2	
8,553.0	1.30	279.50	8,503.7	-191.7	569.7	0.16	0.00	-7.05	-14.0	-3.1	
8,744.0	1.10	266.90	8,694.7	-191.4	565.8	0.17	-0.10	-6.60	-16.9	-6.5	
8,934.0	1.10	266.60	8,884.7	-191.6	562.1	0.00	0.00	-0.16	-20.5	-6.6	



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Design:	OH	Database:	EDM 5000.14

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9,124.0	1.20	265.10	9,074.6	-191.9	558.3	0.05	0.05	-0.79	-24.2	-7.2	
9,314.0	0.50	298.20	9,264.6	-191.7	555.6	0.44	-0.37	17.42	-26.7	8.3	
9,504.0	0.90	142.60	9,454.6	-192.5	555.8	0.72	0.21	-81.89	20.1	-18.9	
9,693.0	1.00	122.40	9,643.6	-194.5	558.1	0.18	0.05	-10.69	22.4	-11.3	
9,883.0	2.20	164.10	9,833.5	-198.9	560.5	0.84	0.63	21.95	4.3	-22.2	
10,073.0	2.20	149.60	10,023.4	-205.6	563.3	0.29	0.00	-7.63	2.6	-21.3	
10,262.0	1.70	142.50	10,212.2	-210.9	566.9	0.29	-0.26	-3.76	-1.2	-21.3	
10,452.0	1.60	165.30	10,402.2	-215.7	569.2	0.35	-0.05	12.00	-14.6	-18.1	
10,642.0	1.90	125.40	10,592.1	-220.1	572.5	0.65	0.16	-21.00	-4.8	-24.9	
10,832.0	0.70	101.40	10,782.0	-222.2	576.2	0.68	-0.63	-12.63	1.7	-26.0	
11,022.0	1.30	206.20	10,972.0	-224.3	576.4	0.86	0.32	55.16	-27.5	6.1	
11,212.0	0.50	310.50	11,162.0	-225.7	574.8	0.79	-0.42	54.89	12.4	27.2	
11,402.0	0.70	11.20	11,352.0	-224.1	574.4	0.33	0.11	31.95	28.2	3.2	
11,592.0	1.80	342.90	11,541.9	-220.1	573.7	0.65	0.58	-14.89	19.3	15.6	
11,726.0	0.40	353.40	11,675.9	-217.6	573.1	1.05	-1.04	7.84	19.3	12.2	
11,824.0	1.00	13.40	11,773.9	-216.4	573.2	0.65	0.61	20.41	21.2	5.0	
11,919.0	10.50	347.30	11,868.3	-207.1	571.5	10.12	10.00	-27.47	7.3	13.5	
11,966.0	17.90	352.90	11,913.9	-195.8	569.7	16.00	15.74	11.91	-2.7	13.1	
11,996.5	22.16	354.24	11,942.5	-185.4	568.5	14.03	13.95	4.37	-12.5	13.7	
KOP(RR 25 St Com #704H)											
12,014.0	24.60	354.80	11,958.6	-178.5	567.8	14.03	13.97	3.23	-19.1	14.2	
12,016.4	24.74	354.73	11,960.8	-177.5	567.8	6.08	5.95	-3.04	-20.1	14.2	
HL Crossing, MD:12016.4, TVD:11960.8, N/S:-177.5, E/W:567.8, INC:24.74											
12,061.0	27.40	353.50	12,000.8	-158.0	565.7	8.08	5.96	-2.75	-37.2	13.9	
12,109.0	29.30	351.70	12,043.1	-135.4	562.8	4.34	3.96	-3.75	-53.0	13.3	
12,156.0	34.20	352.70	12,083.0	-110.9	559.4	10.49	10.43	2.13	-65.5	16.1	
12,204.0	33.40	352.20	12,122.9	-84.4	555.9	1.76	-1.67	-1.04	-75.3	17.8	



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Survey											
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12,251.0	33.10	352.40	12,162.2	-58.9	552.5	0.68	-0.64	0.43	-78.8	21.2	
12,299.0	39.30	352.60	12,200.9	-30.8	548.8	12.92	12.92	0.42	-79.1	25.5	
12,346.0	48.40	353.40	12,234.8	1.5	544.8	19.40	19.36	1.70	-79.8	30.7	
FTP(RR 25 St Com #704H)											
12,394.0	54.50	357.60	12,264.7	38.9	542.0	14.43	12.71	8.75	-79.8	37.6	
12,441.0	58.50	359.40	12,290.6	78.0	541.0	9.09	8.51	3.83	-79.4	39.9	
12,489.0	60.60	0.20	12,314.9	119.4	540.8	4.60	4.37	1.67	-76.2	40.3	
12,536.0	63.60	1.20	12,336.9	160.9	541.3	6.65	6.38	2.13	-69.7	40.1	
12,584.0	65.80	0.50	12,357.4	204.3	542.0	4.77	4.58	-1.46	-60.0	39.1	
12,631.0	69.10	0.30	12,375.5	247.7	542.3	7.03	7.02	-0.43	-47.5	38.5	
12,679.0	73.20	0.00	12,391.0	293.1	542.4	8.56	8.54	-0.62	-32.9	37.8	
12,774.0	82.90	357.80	12,410.6	386.0	540.6	10.46	10.21	-2.32	-12.3	38.1	
12,821.0	86.40	358.70	12,415.0	432.7	539.1	7.69	7.45	1.91	-6.9	39.2	
12,876.0	90.60	359.60	12,416.4	487.7	538.3	7.81	7.64	1.64	-4.2	39.6	
12,916.0	93.60	0.00	12,415.0	527.7	538.2	7.57	7.50	1.00	-4.9	39.4	
12,964.0	92.30	358.50	12,412.5	575.6	537.6	4.13	-2.71	-3.12	-6.3	39.7	
13,059.0	97.10	0.00	12,404.7	670.2	536.3	5.29	5.05	1.58	-12.0	40.2	
13,153.0	95.70	1.60	12,394.2	763.6	537.6	2.25	-1.49	1.70	-20.6	38.2	
13,248.0	92.40	4.30	12,387.5	858.2	542.5	4.48	-3.47	2.84	-25.3	32.5	
13,343.0	90.30	3.70	12,385.3	953.0	549.1	2.30	-2.21	-0.63	-25.4	25.2	
13,439.0	89.10	2.40	12,385.8	1,048.8	554.2	1.84	-1.25	-1.35	-22.8	19.5	
13,470.0	88.70	2.30	12,386.4	1,079.8	555.5	1.33	-1.29	-0.32	-21.5	18.0	
13,533.0	89.70	2.80	12,387.3	1,142.7	558.3	1.77	1.59	0.79	-19.3	14.7	
13,628.0	89.10	1.50	12,388.3	1,237.7	561.9	1.51	-0.63	-1.37	-16.2	10.4	
13,723.0	88.70	1.30	12,390.1	1,332.6	564.2	0.47	-0.42	-0.21	-12.3	7.4	
13,818.0	90.10	1.70	12,391.1	1,427.6	566.7	1.53	1.47	0.42	-9.3	4.2	



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13,836.4	89.77	1.16	12,391.1	1,445.9	567.1	3.45	-1.79	-2.95	-8.9	3.6	
TGT 1(RR 25 St Com #704H)											
13,913.0	88.40	358.90	12,392.3	1,522.5	567.2	3.45	-1.79	-2.95	-6.9	3.0	
14,008.0	88.90	358.40	12,394.6	1,617.5	564.9	0.74	0.53	-0.53	-4.2	4.5	
14,103.0	93.10	358.60	12,392.9	1,712.4	562.5	4.43	4.42	0.21	-5.3	6.3	
14,197.0	90.00	357.70	12,390.4	1,806.3	559.4	3.43	-3.30	-0.96	-7.4	8.6	
14,292.0	92.80	358.70	12,388.1	1,901.2	556.4	3.13	2.95	1.05	-9.3	10.9	
14,342.0	92.30	358.80	12,385.8	1,951.2	555.3	1.02	-1.00	0.20	-11.2	11.6	
14,387.0	90.60	358.30	12,384.7	1,996.2	554.2	3.94	-3.78	-1.11	-12.1	12.4	
14,434.0	91.00	358.40	12,384.0	2,043.1	552.9	0.88	0.85	0.21	-12.6	13.5	
14,482.0	94.00	358.60	12,381.9	2,091.1	551.6	6.26	6.25	0.42	-14.4	14.4	
14,577.0	90.20	358.70	12,378.5	2,186.0	549.4	4.00	-4.00	0.11	-17.4	15.9	
14,624.0	90.80	358.80	12,378.0	2,232.9	548.3	1.29	1.28	0.21	-17.6	16.6	
14,671.0	91.60	359.40	12,377.1	2,279.9	547.6	2.13	1.70	1.28	-18.3	16.9	
14,766.0	90.20	1.30	12,375.6	2,374.9	548.2	2.48	-1.47	2.00	-19.4	15.6	
14,861.0	88.70	1.30	12,376.5	2,469.9	550.3	1.58	-1.58	0.00	-18.0	12.8	
14,956.0	90.10	1.00	12,377.5	2,564.8	552.2	1.51	1.47	-0.32	-16.5	10.2	
15,051.0	88.70	0.70	12,378.5	2,659.8	553.7	1.51	-1.47	-0.32	-15.0	8.1	
15,099.0	88.50	0.90	12,379.6	2,707.8	554.3	0.59	-0.42	0.42	-13.6	7.0	
15,146.0	89.20	1.40	12,380.6	2,754.8	555.3	1.83	1.49	1.06	-12.4	5.7	
15,241.0	91.30	2.00	12,380.2	2,849.7	558.1	2.30	2.21	0.63	-12.4	2.2	
15,336.0	89.80	0.30	12,379.3	2,944.7	560.0	2.39	-1.58	-1.79	-12.8	-0.4	
15,347.6	89.90	0.15	12,378.3	2,956.3	560.0	1.53	0.85	-1.28	-12.7	-0.5	
TGT 2(RR 25 St Com #704H)											
15,383.0	90.20	359.70	12,379.3	2,991.7	560.0	1.53	0.85	-1.28	-12.5	-0.8	
15,431.0	91.50	359.50	12,378.5	3,039.7	559.7	2.74	2.71	-0.42	-12.9	-0.8	
15,462.0	90.20	359.40	12,378.1	3,070.7	559.4	4.21	-4.19	-0.32	-13.1	-0.7	



Final PVA

Company:	EOG Resources - Midland					Local Co-ordinate Reference:			Well #704H		
Project:	Lea County, NM (NAD 83 NME)					TVD Reference:			KB = 25 @ 3548.0usft (HP 465)		
Site:	Red Ralder 25 State					MD Reference:			KB = 25 @ 3548.0usft (HP 465)		
Well:	#704H					North Reference:			Grid		
Wellbore:	OH					Survey Calculation Method:			Minimum Curvature		
Design:	OH					Database:			EDM 5000.14		
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)	
15,525.0	89.10	358.80	12,378.5	3,133.7	558.4	1.99	-1.75	-0.95	-12.2	-0.2	
15,620.0	88.70	358.60	12,380.3	3,228.6	556.2	0.47	-0.42	-0.21	-9.7	1.2	
15,715.0	89.40	0.30	12,381.9	3,323.6	555.3	1.94	0.74	1.79	-7.5	1.4	
15,810.0	90.10	3.20	12,382.3	3,418.6	558.2	3.14	0.74	3.05	-6.4	-2.2	
15,904.0	88.90	2.50	12,383.1	3,512.4	562.9	1.48	-1.28	-0.74	-4.9	-7.5	
16,000.0	90.40	356.60	12,383.7	3,608.4	562.1	6.34	1.56	-6.15	-3.6	-7.5	
16,047.0	89.10	355.10	12,383.9	3,655.3	558.7	4.22	-2.77	-3.19	-3.0	-4.5	
16,094.0	88.70	356.00	12,384.8	3,702.1	555.1	2.10	-0.85	1.91	-1.8	-1.2	
16,192.0	98.40	358.40	12,378.7	3,799.7	550.3	10.19	9.90	2.45	-7.1	2.9	
16,287.0	95.20	358.40	12,367.5	3,894.0	547.7	3.37	-3.37	0.00	-17.7	4.8	
16,382.0	95.60	358.50	12,358.6	3,988.5	545.1	0.43	0.42	0.11	-26.0	6.7	
16,477.0	92.20	358.70	12,352.1	4,083.3	542.8	3.59	-3.58	0.21	-31.8	8.3	
16,572.0	88.30	358.20	12,351.7	4,178.2	540.2	4.14	-4.11	-0.53	-31.5	10.1	
16,667.0	86.10	358.40	12,356.3	4,273.0	537.4	2.33	-2.32	0.21	-26.1	12.3	
16,761.0	88.40	357.10	12,360.8	4,368.8	533.7	2.81	2.45	-1.38	-21.0	15.2	
16,856.0	90.20	357.90	12,362.0	4,461.7	529.6	2.07	1.89	0.84	-19.1	18.6	
16,951.0	90.70	358.80	12,361.2	4,556.7	526.8	1.08	0.53	0.95	-19.2	20.7	
17,046.0	89.80	358.00	12,360.8	4,651.7	524.2	1.27	-0.95	-0.84	-18.9	22.6	
17,141.0	90.70	358.10	12,360.4	4,746.6	521.0	0.95	0.95	0.11	-18.6	25.1	
17,221.0	90.50	357.30	12,359.6	4,826.5	517.7	1.03	-0.25	-1.00	-18.9	27.7	
Final MWD Survey (MD=17221.0)											
17,282.0	90.50	357.30	12,359.0	4,887.5	514.9	0.00	0.00	0.00	-19.0	30.2	
Final Projection to Bit (MD=17282.0) - PBHL(RR 25 St Com #704H)											



Final PVA

Company:	EOG Resources - Midland	Local Co-ordinate Reference:	Well #704H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB = 25 @ 3548.0usft (HP 465)
Site:	Red Raider 25 State	MD Reference:	KB = 25 @ 3548.0usft (HP 465)
Well:	#704H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,016.4	11,960.8	-177.5	567.8	HL Crossing, MD:12016.4', TVD:11960.8', N/S:-177.5', EW:567.8', INC:24.74
17,221.0	12,359.5	4,826.5	517.7	Final MWD Survey (MD=17221.0')
17,282.0	12,359.0	4,887.5	514.9	Final Projection to Bit (MD=17282.0')

Checked By: _____	Approved By: _____	Date: _____
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Lea County, NM (NAD 83 NME)

Red Raider 25 State #704H

HP 465

Plan #1

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

WELL DETAILS: #704H

KB = 25 @ 3548.0usft (HP 465) 3523.0
Northing 430917.00 Easting 781605.00 Latitude 32° 10' 55.502 N Longitude 103° 31' 28.992 W

SECTION DETAILS

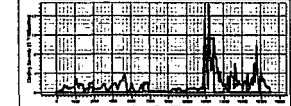
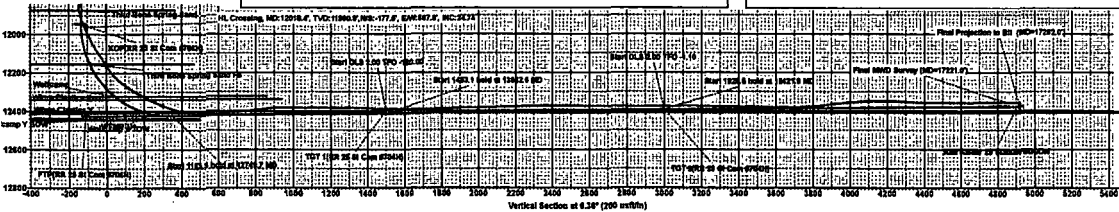
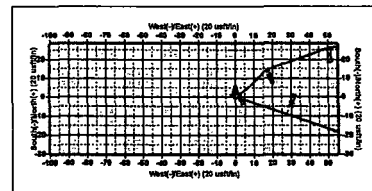
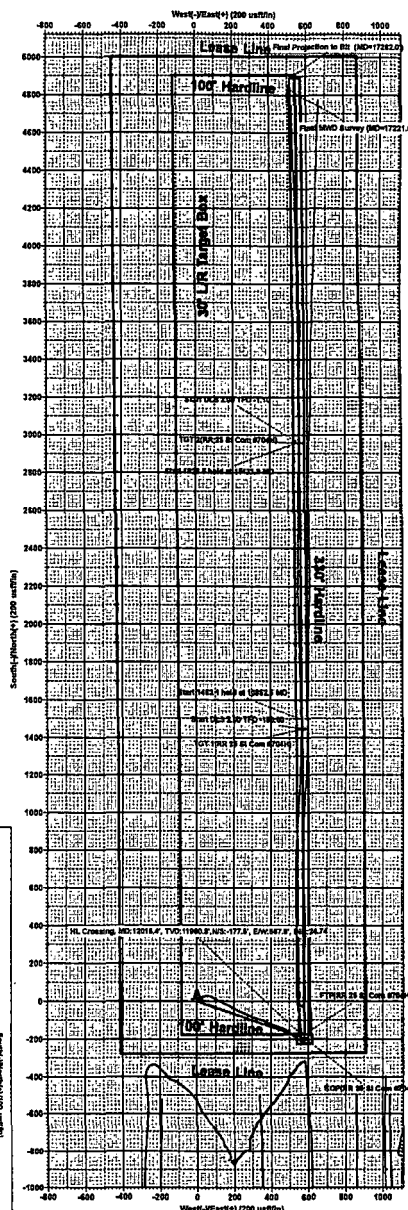
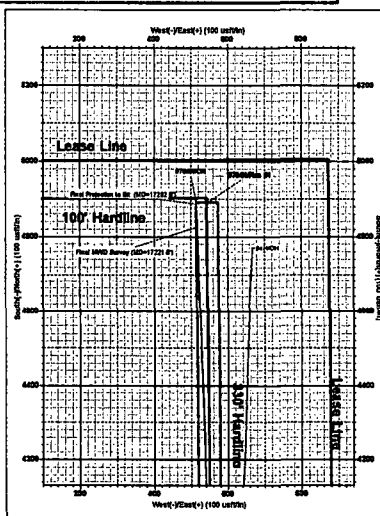
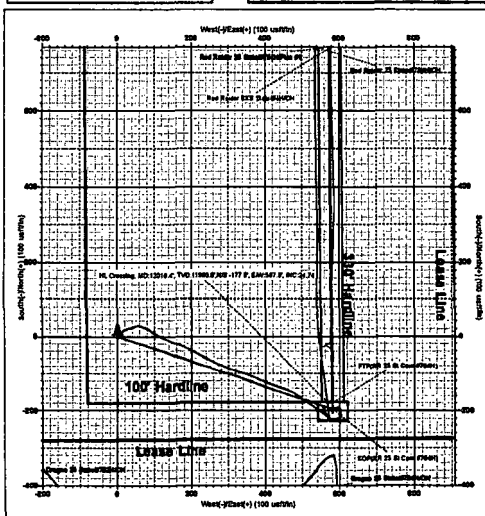
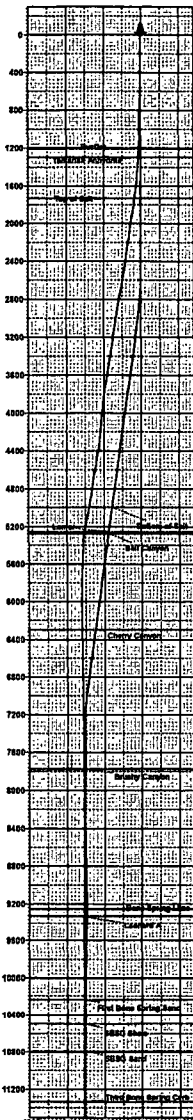
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	2800.0	0.00	0.00	2600.0	0.0	0.0	0.00	0.00	0.0	
3	2992.3	8.00	108.67	2991.0	-8.8	25.9	2.04	108.67	-5.8	
4	7019.5	8.00	108.67	6979.0	-188.2	557.1	0.00	0.00	-125.4	
5	7411.8	0.00	0.00	7370.0	-197.0	583.0	2.04	180.00	-131.2	
6	11989.4	0.00	0.00	11947.8	-197.0	583.0	0.00	0.00	-131.2	
7	12749.7	91.24	359.57	12425.0	290.8	579.4	12.00	359.57	353.1	KOP(RR 25 St Com #704H)
8	13905.0	91.24	359.57	12400.0	1445.8	570.8	0.00	0.00	1500.1	TGT 1(RR 25 St Com #704H)
9	13952.5	90.29	359.57	12399.4	1493.2	570.4	2.00	-180.00	1547.2	
10	15415.6	90.29	359.57	12392.0	2956.3	559.5	0.00	0.00	3000.1	TGT 2(RR 25 St Com #704H)
11	15421.9	90.41	359.57	12392.0	2962.6	559.5	2.00	-1.10	3006.3	
12	17350.4	90.41	359.57	12378.0	4891.0	545.0	0.00	0.00	4921.3	PBHL(RR 25 St Com #704H)

CASINO DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N-S	+E-W	Northing	Easting
KOP(RR 25 St Com #704H)	11947.8	-197.0	583.0	430726.00	782088.00
PBHL(RR 25 St Com #704H)	12378.0	4891.0	545.0	430504.00	782060.00
TGT 1(RR 25 St Com #704H)	12392.0	2956.3	559.5	433873.30	782064.60
TGT 2(RR 25 St Com #704H)	12400.0	1445.8	570.8	432365.80	782078.76
FTPR(RR 25 St Com #704H)	12425.0	-177.0	583.0	430746.00	782088.00



Lea County, NM (NAD 83 NME)
Red Raider 25 State #704H
HP 465
Plan #1