

HOBBS OCD

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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Yarrow 32 State

#201H

OH

Design: OH

Final PVA Report

16 September, 2019



Final PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Yarrow 32 State
 Well: #201H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #201H
 TVD Reference: KB = 22' @ 3689.0usft
 MD Reference: KB = 22' @ 3689.0usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: EDM 5000.14

Project Lea County, NM (NAD 83 NME)

Map System: US State Plane 1983
 Geo Datum: North American Datum 1983
 Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Yarrow 32 State

Site Position: Northing: 457,304.00 usft Latitude: 32° 15' 18.011 N
 From: Map Easting: 771,862.00 usft Longitude: 103° 35' 15.414 W
 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.40 °

Well #201H

Well Position +N/-S 0.0 usft Northing: 457,365.00 usft Latitude: 32° 15' 18.608 N
 +E/-W 0.0 usft Easting: 771,954.00 usft Longitude: 103° 35' 14.338 W
 Position Uncertainty 0.0 usft Wellhead Elevation: usft Ground Level: 3,667.0 usft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	User Defined	8/13/2019	6.60	59.90	47,916.70000000
	User Defined	8/14/2019	6.58	59.89	47,995.00000000
	User Defined	8/15/2019	6.58	59.90	48,007.80000000

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	359.26



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Survey Program		Date 9/16/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
243.0	14,889.0	Learn MWD #1 (OH)	MWD	OWSG MWD - Standard

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
243.0	0.35	130.13	243.0	-0.5	0.6	0.14	0.14	0.00	-0.7	0.0
421.0	0.62	221.18	421.0	-1.6	0.3	0.40	0.15	51.15	-0.9	1.3
598.0	1.06	220.48	598.0	-3.5	-1.3	0.25	0.25	-0.40	-3.5	1.3
786.0	0.79	216.61	785.9	-5.9	-3.2	0.15	-0.14	-2.06	-6.7	0.9
975.0	0.70	221.18	974.9	-7.8	-4.8	0.06	-0.05	2.42	-9.0	1.5
1,163.0	0.18	253.17	1,162.9	-8.7	-5.8	0.30	-0.28	17.02	-8.1	6.7
1,351.0	0.26	28.70	1,350.9	-8.5	-5.9	0.22	0.04	72.09	10.3	1.1
1,466.0	0.97	331.22	1,465.9	-7.4	-6.2	0.75	0.62	-49.98	3.5	9.0
1,622.0	0.88	228.91	1,621.9	-7.0	-7.8	0.92	-0.06	-65.58	-8.6	-1.7
1,810.0	5.80	183.39	1,809.5	-17.4	-9.4	2.78	2.62	-24.21	-1.8	-8.4
1,998.0	5.28	184.09	1,996.7	-35.6	-10.6	0.28	-0.28	0.37	-3.7	-8.4
2,186.0	5.28	177.76	2,183.9	-52.8	-10.9	0.31	0.00	-3.37	-3.7	-8.1
2,375.0	5.28	172.84	2,372.1	-70.1	-9.5	0.24	0.00	-2.60	-4.2	-6.2
2,563.0	4.57	170.38	2,559.4	-86.1	-7.1	0.39	-0.38	-1.31	-4.1	-3.0
2,751.0	4.75	170.56	2,746.8	-101.2	-4.6	0.10	0.10	0.10	-3.4	0.7
2,940.0	4.92	178.11	2,935.1	-117.0	-3.1	0.35	0.09	3.99	-2.8	3.6
3,128.0	4.57	182.86	3,122.4	-132.5	-3.2	0.28	-0.19	2.53	-1.6	4.7
3,317.0	3.96	181.81	3,310.9	-146.6	-3.7	0.33	-0.32	-0.56	0.7	5.0
3,505.0	6.51	188.84	3,498.1	-163.6	-5.6	1.40	1.36	3.74	0.5	4.1
3,693.0	5.54	187.25	3,685.1	-183.1	-8.4	0.52	-0.52	-0.85	-3.0	2.7
3,881.0	4.75	186.73	3,872.3	-199.9	-10.4	0.42	-0.42	-0.28	-3.6	1.7



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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)
4,070.0	5.10	180.05	4,060.6	-216.0	-11.4	0.36	0.19	-3.53	-3.5	1.3
4,258.0	4.92	179.34	4,247.9	-232.5	-11.3	0.10	-0.10	-0.38	-3.6	2.3
4,446.0	4.57	174.77	4,435.3	-248.0	-10.5	0.27	-0.19	-2.43	-3.1	3.8
4,635.0	4.48	165.83	4,623.7	-262.6	-8.0	0.38	-0.05	-4.73	-2.8	7.1
4,823.0	7.12	172.31	4,810.7	-281.3	-4.6	1.44	1.40	3.45	-4.9	11.3
5,011.0	6.42	166.16	4,997.4	-303.1	-0.6	0.54	-0.37	-3.27	-12.5	14.3
5,196.0	5.36	166.34	5,181.4	-321.5	3.9	0.57	-0.57	0.10	-16.1	19.1
5,293.0	5.19	166.16	5,278.0	-330.2	6.1	0.18	-0.18	-0.19	-17.0	21.6
5,480.0	4.92	190.24	5,464.3	-346.3	6.7	1.14	-0.14	12.88	-6.3	28.1
5,669.0	4.92	205.54	5,652.6	-361.5	1.7	0.69	0.00	8.10	0.6	24.7
5,857.0	3.78	209.93	5,840.1	-374.2	-4.8	0.63	-0.61	2.34	2.9	17.9
6,045.0	3.61	247.37	6,027.7	-381.8	-13.4	1.26	-0.09	19.91	9.6	1.5
6,233.0	1.41	214.32	6,215.5	-386.0	-20.2	1.35	-1.17	-17.58	12.9	-4.5
6,421.0	0.62	112.20	6,403.5	-388.3	-20.5	0.88	-0.42	-54.32	2.7	15.8
6,610.0	0.62	112.55	6,592.5	-389.1	-18.6	0.00	0.00	0.19	0.8	15.8
6,798.0	0.62	94.79	6,780.5	-389.6	-16.7	0.10	0.00	-9.45	-6.1	15.0
6,986.0	0.53	98.31	6,968.5	-389.8	-14.8	0.05	-0.05	1.87	-7.0	15.4
7,174.0	0.62	124.68	7,156.4	-390.5	-13.1	0.15	0.05	14.03	-1.3	17.3
7,362.0	0.44	150.52	7,344.4	-391.7	-11.9	0.16	-0.10	13.74	4.8	16.6
7,550.0	0.35	124.50	7,532.4	-392.7	-11.1	0.11	-0.05	-13.84	-4.2	16.7
7,739.0	0.44	145.77	7,721.4	-393.6	-10.2	0.09	0.05	11.25	0.9	17.3
7,927.0	1.14	149.29	7,909.4	-395.8	-8.8	0.37	0.37	1.87	-0.7	17.2
8,115.0	1.49	164.40	8,097.4	-399.7	-7.2	0.26	0.19	8.04	-0.4	17.3
8,304.0	1.85	175.30	8,286.3	-405.2	-6.3	0.25	0.19	5.77	-2.6	17.5
8,492.0	1.93	183.74	8,474.2	-411.3	-6.3	0.15	0.04	4.49	-6.2	18.2
8,680.0	0.70	203.43	8,662.1	-415.6	-6.9	0.69	-0.65	10.47	-3.8	20.2
8,868.0	0.53	180.93	8,850.1	-417.5	-7.4	0.16	-0.09	-11.97	-13.2	16.8



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9,056.0	0.79	160.36	9,038.1	-419.6	-7.0	0.19	0.14	-10.94	-20.4	10.8
9,245.0	0.26	182.86	9,227.1	-421.2	-6.6	0.30	-0.28	11.90	-16.3	18.3
9,363.0	1.06	321.55	9,345.1	-420.6	-7.3	1.07	0.68	117.53	23.4	-2.8
9,374.4	1.79	333.02	9,356.5	-420.4	-7.4	6.84	6.40	100.40	22.1	-7.3
KOP (Yarrow 32 State #201H)										
9,457.0	7.39	344.93	9,438.8	-414.1	-9.4	6.84	6.78	14.43	19.3	-10.0
9,551.0	13.28	345.28	9,531.2	-397.8	-13.7	6.27	6.27	0.37	22.5	-5.2
9,598.0	16.00	342.47	9,576.7	-386.4	-17.0	5.98	5.79	-5.98	26.1	0.1
9,645.0	18.03	343.00	9,621.6	-373.3	-21.1	4.33	4.32	1.13	31.1	5.1
9,675.0	19.43	343.17	9,650.0	-364.1	-23.9	4.67	4.67	0.57	35.2	8.7
9,705.3	21.47	343.99	9,678.4	-353.9	-26.9	6.79	6.73	2.72	40.1	12.2
HL Crossing, MD:9705.3', TVD:9678.4', N/S:-353.9', E/W:-26.9', INC:21.47										
9,739.0	23.74	344.75	9,709.5	-341.4	-30.4	6.79	6.74	2.25	46.0	16.3
9,786.0	31.30	345.63	9,751.2	-320.5	-35.9	16.11	16.09	1.87	53.5	21.9
9,833.0	38.08	350.91	9,789.8	-294.3	-41.2	15.77	14.43	11.23	60.1	23.3
9,880.0	45.37	353.90	9,824.9	-263.3	-45.3	16.07	15.51	6.36	63.9	24.6
FTP (Yarrow 32 State #201H)										
9,926.0	53.11	356.00	9,854.9	-228.6	-48.3	17.18	16.83	4.57	64.7	25.6
9,973.0	61.64	356.71	9,880.2	-189.1	-50.8	18.19	18.15	1.51	61.8	27.1
10,021.0	70.43	356.53	9,899.7	-145.4	-53.4	18.32	18.31	-0.37	54.9	29.3
10,068.0	77.21	359.17	9,912.8	-100.3	-55.1	15.40	14.43	5.62	45.9	29.6
10,115.0	77.21	359.52	9,923.2	-54.5	-55.6	0.73	0.00	0.74	37.3	29.3
10,209.0	86.97	1.10	9,936.1	38.5	-55.1	10.52	10.38	1.68	22.5	28.0
10,303.0	88.99	1.81	9,939.4	132.4	-52.7	2.28	2.15	0.76	12.6	24.8
10,397.0	88.11	1.63	9,941.8	226.3	-49.9	0.96	-0.94	-0.19	14.4	21.3
10,491.0	87.41	1.28	9,945.5	320.2	-47.5	0.83	-0.74	-0.37	19.0	18.3
10,585.0	89.60	1.45	9,947.9	414.2	-45.3	2.34	2.33	0.18	22.3	15.4



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10,680.0	89.34	0.58	9,948.8	509.1	-43.6	0.96	-0.27	-0.92	24.1	13.0
10,774.0	88.46	0.22	9,950.6	603.1	-42.9	1.01	-0.94	-0.38	26.9	11.7
10,868.0	87.93	359.70	9,953.6	697.1	-43.0	0.79	-0.56	-0.55	30.7	11.1
10,962.0	91.63	0.93	9,953.9	791.1	-42.5	4.15	3.94	1.31	32.0	9.9
11,056.0	91.85	0.93	9,951.1	885.0	-41.0	0.23	0.23	0.00	30.1	7.7
11,150.0	91.63	0.22	9,948.2	979.0	-40.0	0.79	-0.23	-0.76	28.1	6.0
11,244.0	91.36	359.87	9,945.8	1,072.9	-39.9	0.47	-0.29	-0.37	26.6	5.3
11,338.0	91.19	359.87	9,943.7	1,166.9	-40.2	0.18	-0.18	0.00	25.4	4.8
11,432.0	90.57	359.70	9,942.2	1,260.9	-40.5	0.68	-0.66	-0.18	24.9	4.5
11,527.0	90.22	359.52	9,941.6	1,355.9	-41.2	0.41	-0.37	-0.19	25.2	4.4
11,570.7	90.06	359.52	9,941.5	1,399.6	-41.5	0.37	-0.37	0.00	25.5	4.5
TGT 1 (Yarrow 32 State #201H)										
11,621.0	89.87	359.52	9,941.5	1,449.9	-41.9	0.37	-0.37	0.00	25.9	4.5
11,715.0	89.60	359.17	9,941.9	1,543.9	-43.0	0.47	-0.29	-0.37	27.1	4.9
11,809.0	88.90	359.17	9,943.2	1,637.8	-44.4	0.74	-0.74	0.00	29.1	5.6
11,903.0	88.20	359.34	9,945.6	1,731.8	-45.6	0.77	-0.74	0.18	32.3	6.2
11,998.0	88.55	0.93	9,948.2	1,826.8	-45.4	1.71	0.37	1.67	35.7	5.3
12,092.0	91.80	1.28	9,948.0	1,920.7	-43.6	3.48	3.46	0.37	36.2	2.8
12,186.0	91.98	1.28	9,944.9	2,014.7	-41.5	0.19	0.19	0.00	33.9	0.0
12,280.0	91.98	1.10	9,941.6	2,108.6	-39.5	0.19	0.00	-0.19	31.4	-2.6
12,374.0	92.15	0.93	9,938.2	2,202.5	-37.9	0.26	0.18	-0.18	28.7	-5.0
12,468.0	92.24	0.75	9,934.6	2,296.4	-36.5	0.21	0.10	-0.19	25.9	-7.0
12,562.0	91.89	0.75	9,931.2	2,390.4	-35.2	0.37	-0.37	0.00	23.3	-8.9
12,656.0	91.54	0.57	9,928.4	2,484.3	-34.2	0.42	-0.37	-0.19	21.2	-10.7
12,750.0	91.10	0.57	9,926.3	2,578.3	-33.2	0.47	-0.47	0.00	19.8	-12.3
12,844.0	91.10	0.57	9,924.5	2,672.3	-32.3	0.00	0.00	0.00	18.8	-13.9
12,939.0	90.84	0.57	9,922.8	2,767.2	-31.3	0.27	-0.27	0.00	18.0	-15.6



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13,033.0	89.78	0.75	9,922.3	2,861.2	-30.3	1.14	-1.13	0.19	18.2	-17.3
13,127.0	89.16	1.10	9,923.2	2,955.2	-28.7	0.76	-0.66	0.37	19.8	-19.5
13,170.6	88.92	1.02	9,923.9	2,998.8	-27.9	0.58	-0.55	-0.18	20.9	-20.6
TGT 2 (Yarrow 32 State #201H)										
13,221.0	88.64	0.93	9,925.0	3,049.2	-27.1	0.58	-0.55	-0.18	22.3	-21.9
13,315.0	88.46	1.28	9,927.4	3,143.1	-25.3	0.42	-0.19	0.37	25.2	-24.4
13,409.0	89.25	358.82	9,929.3	3,237.1	-25.2	2.75	0.84	-2.62	27.7	-25.1
13,503.0	89.34	358.11	9,930.4	3,331.1	-27.7	0.76	0.10	-0.76	29.4	-23.3
13,597.0	88.99	358.11	9,931.8	3,425.0	-30.8	0.37	-0.37	0.00	31.3	-20.9
13,691.0	88.99	358.29	9,933.5	3,518.9	-33.8	0.19	0.00	0.19	33.5	-18.6
13,785.0	88.37	358.64	9,935.6	3,612.9	-36.3	0.76	-0.66	0.37	36.2	-16.8
13,879.0	88.20	358.64	9,938.4	3,706.8	-38.5	0.18	-0.18	0.00	39.5	-15.2
13,974.0	91.28	358.82	9,938.9	3,801.8	-40.6	3.25	3.24	0.19	40.5	-13.8
14,068.0	91.36	358.64	9,936.7	3,895.7	-42.7	0.21	0.09	-0.19	38.9	-12.4
14,162.0	91.45	358.11	9,934.4	3,989.7	-45.4	0.57	0.10	-0.56	37.2	-10.4
14,256.0	91.80	358.29	9,931.7	4,083.6	-48.3	0.42	0.37	0.19	35.0	-8.1
14,350.0	92.77	359.17	9,928.0	4,177.5	-50.4	1.39	1.03	0.94	31.8	-6.7
14,444.0	92.86	359.17	9,923.4	4,271.4	-51.8	0.10	0.10	0.00	27.8	-6.0
14,538.0	92.68	358.82	9,918.8	4,365.2	-53.4	0.42	-0.19	-0.37	23.8	-5.1
14,632.0	93.12	358.47	9,914.1	4,459.1	-55.6	0.60	0.47	-0.37	19.6	-3.5
14,726.0	93.39	357.94	9,908.7	4,552.9	-58.6	0.63	0.29	-0.56	14.8	-1.3
14,820.0	94.00	357.76	9,902.7	4,646.6	-62.1	0.68	0.65	-0.19	9.3	1.6
14,836.0	94.00	357.76	9,901.5	4,662.6	-62.7	0.00	0.00	0.00	8.2	2.1
Final MWD Survey (MD=14836.0')										
14,889.0	94.00	357.76	9,897.9	4,715.4	-64.8	0.00	0.00	0.00	4.8	3.8
Final Projection to Bit (MD=14889.0') - PBHL (Yarrow 32 State #201H)										



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Yarrow 32 State
Well: #201H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #201H
TVD Reference: KB = 22' @ 3689.0usft
MD Reference: KB = 22' @ 3689.0usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.14

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,705.3	9,678.4	-353.9	-26.9	HL Crossing, MD:9705.3', TVD:9678.4', N/S:-353.9', E/W:-26.9', INC:21.47
14,836.0	9,901.5	4,662.6	-62.7	Final MWD Survey (MD=14836.0')
14,889.0	9,897.9	4,715.4	-64.8	Final Projection to Bit (MD=14889.0')

Checked By: _____ Approved By: _____ Date: _____

I certify this survey to be true and correct to the best of my belief and knowledge.

Kay Maddox 01/08/2020
Signed Date



Lea County, NM (NAD 83 NME)

Yarrow 32 State #201H

Plan #1



Azimuths to Grid North
True North: -0.40°
Magnetic North: 6.18°
Magnetic Field
Strength: 48007.8 nT
Dip Angle: 59.90°
Date: 8/15/2018
Model: USER DEFINED

To convert a Magnetic Direction to a Grid Direction, Add 6.18°
To convert a Magnetic Direction to a True Direction, Add 6.58° East
To convert a True Direction to a Grid Direction, Subtract 0.40°

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: #201H

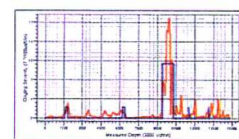
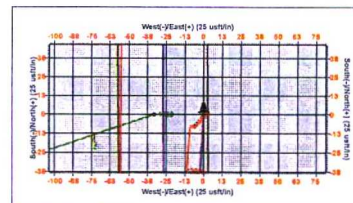
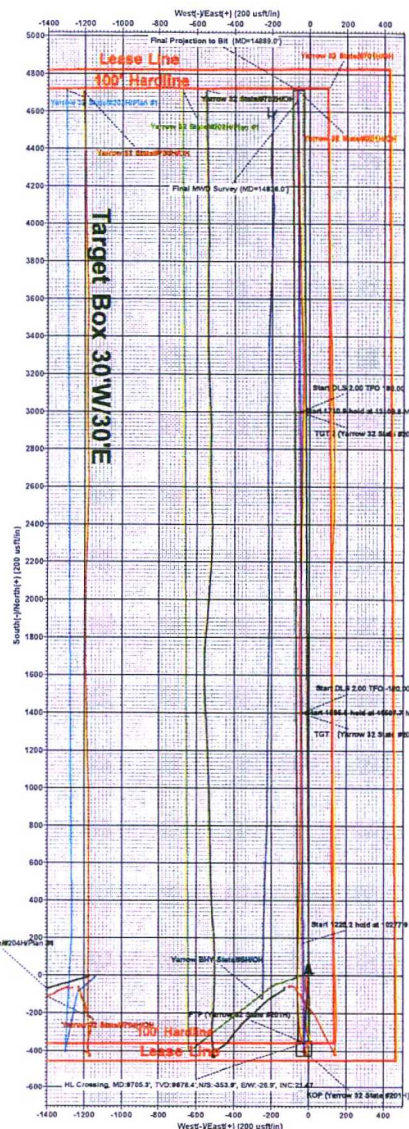
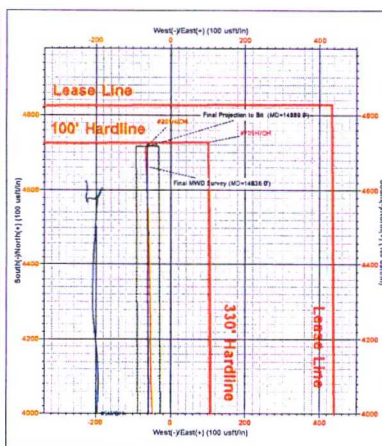
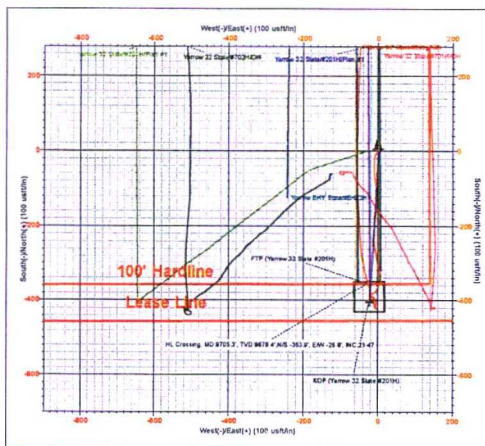
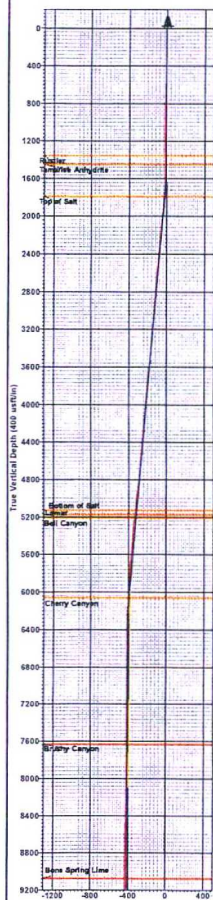
KB = 22' @ 3689.0usft 3667.0
Northing 457365.00 Easting 771954.00 Latitude 32° 15' 18.608 N Longitude 103° 35' 14.338 W

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	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1749.8	5.00	183.40	1749.5	-10.9	-0.6	2.00	183.40	-10.9	
4	6147.6	5.00	183.40	6130.5	-393.1	-23.4	0.00	0.00	-392.8	
5	6397.3	0.00	0.00	6380.0	-404.0	-24.0	2.00	180.00	-403.7	
6	9372.3	0.00	0.00	9355.0	-404.0	-24.0	0.00	0.00	-403.7	KOP (Yarrow 32 State #201H)
7	10277.9	90.56	359.59	9927.9	174.5	-28.2	10.00	359.59	174.9	TGT 1 (Yarrow 32 State #201H)
8	11503.1	90.56	359.59	9916.0	1399.6	-37.0	0.00	0.00	1400.0	TGT 2 (Yarrow 32 State #201H)
9	11507.7	90.47	359.59	9916.0	1404.2	-37.1	2.00	-180.00	1404.6	
10	13103.2	90.47	359.59	9903.0	2999.6	-48.6	0.00	0.00	3000.0	
11	13109.8	90.33	359.59	9903.0	3006.2	-48.6	2.00	180.00	3006.6	PBHL (Yarrow 32 State #201H)
12	14820.7	90.33	359.59	9893.0	4717.0	-61.0	0.00	0.00	4717.4	

WELLBORE TARGET DETAILS (MAP COORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Yarrow 32 State #201H)	9355.0	-404.0	-24.0	456961.00	771930.00
TGT 1 (Yarrow 32 State #201H)	9916.0	1399.6	-37.0	458764.60	771916.97
TGT 2 (Yarrow 32 State #201H)	9903.0	2999.6	-48.6	460364.60	771905.41
PBHL (Yarrow 32 State #201H)	9893.0	4717.0	-61.0	462082.00	771853.00
FTP (Yarrow 32 State #201H)	9928.0	-354.0	-24.0	457011.00	771930.00



Lea County, NM (NAD 83 NME)
Yarrow 32 State #201H
Plan #1
8/15/2018