

HOBBS OCD
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EOG Resources - Midland

Lea County, NM (NAD 83 NME)

Yarrow 32 State

#202H

OH

Design: OH

Final PVA Report

01 October, 2019



Final PVA Report

Company: EOG Resources - Midland
 Project: Lea County, NM (NAD 83 NME)
 Site: Yarrow 32 State
 Well: #202H
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well #202H
 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 #202H

Well Position	+N/-S	0.0 usft	Northing:	457,365.00 usft	Latitude:	32° 15' 18.610 N
	+E/-W	0.0 usft	Easting:	771,921.00 usft	Longitude:	103° 35' 14.722 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	6/25/2019	6.59	59.82	47,826.80000000
	User Defined	7/26/2019	6.57	59.80	47,910.00000000
	User Defined	7/27/2019	6.58	59.77	47,822.40000000

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	352.17



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Survey Program		Date 10/1/2019				
From (usft)	To (usft)	Survey (Wellbore)		Tool Name	Description	
240.0	14,455.0	Leam MWD (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
240.0	1.14	127.49	240.0	-1.5	1.9	0.47	0.47	0.00	-2.4	0.0
421.0	2.55	118.17	420.9	-4.4	6.9	0.79	0.78	-5.15	-8.2	-0.7
600.0	1.49	91.45	599.8	-6.4	12.7	0.78	-0.59	-14.93	-12.9	-6.1
786.0	0.88	16.57	785.7	-5.1	15.5	0.82	-0.33	-40.26	0.4	-16.3
975.0	2.73	299.05	974.7	-1.5	12.0	1.42	0.98	-41.02	11.2	-4.5
1,163.0	2.46	291.32	1,162.5	2.1	4.3	0.23	-0.14	-4.11	3.3	-3.6
1,351.0	3.43	291.49	1,350.2	5.7	-4.7	0.52	0.52	0.09	-6.4	-3.6
1,425.0	3.52	295.18	1,424.1	7.4	-8.8	0.33	0.12	4.99	-11.1	-3.0
1,622.0	3.52	281.65	1,620.7	11.2	-20.2	0.42	0.00	-6.87	-19.8	-8.2
1,810.0	6.86	252.29	1,807.9	9.0	-36.5	2.22	1.78	-15.62	-15.4	-19.8
1,998.0	9.23	255.46	1,994.1	1.8	-61.8	1.28	1.26	1.69	-18.0	-19.8
2,186.0	8.44	256.16	2,179.9	-5.3	-89.8	0.42	-0.42	0.37	-21.0	-21.3
2,375.0	7.91	258.62	2,366.9	-11.2	-116.0	0.34	-0.28	1.30	-22.7	-22.8
2,563.0	6.77	252.47	2,553.4	-17.1	-139.3	0.74	-0.61	-3.27	-17.9	-26.7
2,751.0	7.03	241.40	2,740.0	-25.9	-159.9	0.72	0.14	-5.89	-9.1	-26.9
2,940.0	6.95	237.53	2,927.6	-37.6	-179.7	0.25	-0.04	-2.05	-4.5	-25.0
3,128.0	6.07	239.29	3,114.4	-48.8	-197.9	0.48	-0.47	0.94	-0.6	-27.8
3,317.0	7.12	235.95	3,302.2	-60.4	-216.2	0.59	0.56	-1.77	5.6	-30.2
3,505.0	7.03	232.96	3,488.7	-73.9	-235.0	0.20	-0.05	-1.59	10.2	-30.9
3,693.0	7.30	228.39	3,675.3	-88.8	-253.1	0.34	0.14	-2.43	15.4	-29.2
3,881.0	7.83	229.27	3,861.6	-105.0	-271.8	0.29	0.28	0.47	16.3	-28.0



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Survey

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	EW (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	High to Plan (usft)	Right to Plan (usft)
4,070.0	8.44	231.55	4,048.7	-122.1	-292.4	0.37	0.32	1.21	14.7	-27.9
4,258.0	8.79	233.66	4,234.6	-139.2	-314.8	0.25	0.19	1.12	11.7	-28.6
4,446.0	8.18	230.32	4,420.6	-156.2	-336.6	0.42	-0.32	-1.78	11.8	-27.9
4,635.0	7.03	222.24	4,607.9	-173.4	-354.7	0.83	-0.61	-4.28	16.6	-23.4
4,823.0	6.33	206.94	4,794.6	-191.1	-367.2	1.01	-0.37	-8.14	24.4	-10.2
5,011.0	5.54	190.24	4,981.6	-209.3	-373.5	1.01	-0.42	-8.88	26.9	11.7
5,162.0	4.92	186.73	5,132.0	-222.9	-375.5	0.46	-0.41	-2.32	27.3	27.8
5,294.0	5.10	200.09	5,263.5	-234.0	-378.2	0.89	0.14	10.12	37.2	31.8
5,482.0	11.17	239.29	5,449.6	-251.2	-396.8	4.20	3.23	20.85	50.1	3.4
5,670.0	10.99	238.06	5,634.1	-270.0	-427.6	0.16	-0.10	-0.65	39.8	1.4
5,858.0	10.38	236.65	5,818.9	-288.8	-457.0	0.35	-0.32	-0.75	30.9	-0.2
6,046.0	9.58	231.55	6,004.0	-307.8	-483.4	0.63	-0.43	-2.71	24.3	1.2
6,234.0	10.29	246.14	6,189.2	-324.3	-511.0	1.39	0.38	7.76	17.3	-7.3
6,423.0	8.97	246.49	6,375.6	-337.0	-540.0	0.70	-0.70	0.19	11.0	-13.8
6,611.0	8.79	244.38	6,561.3	-349.1	-566.3	0.20	-0.10	-1.12	8.0	-19.6
6,799.0	8.18	242.63	6,747.3	-361.5	-591.2	0.35	-0.32	-0.93	6.6	-24.5
6,987.0	3.34	219.42	6,934.3	-371.8	-606.5	2.81	-2.57	-12.35	19.3	-20.5
7,175.0	1.58	250.01	7,122.1	-377.0	-612.5	1.14	-0.94	16.27	8.1	-27.6
7,363.0	0.97	294.83	7,310.1	-377.2	-616.3	0.60	-0.32	23.84	-16.9	-23.9
7,552.0	1.06	321.38	7,499.0	-375.1	-618.9	0.25	0.05	14.05	-29.0	-13.1
7,740.0	0.88	277.96	7,687.0	-373.6	-621.4	0.39	-0.10	-23.10	-14.8	-30.7
7,929.0	0.97	243.68	7,876.0	-374.1	-624.3	0.29	0.05	-18.14	2.3	-34.5
8,117.0	0.70	219.07	8,064.0	-375.7	-626.4	0.24	-0.14	-13.09	13.8	-31.1
8,305.0	0.97	173.19	8,252.0	-378.2	-627.0	0.37	0.14	-24.40	29.5	-12.5
8,493.0	1.14	181.10	8,439.9	-381.6	-626.8	0.12	0.09	4.21	24.1	-16.3
8,681.0	1.32	182.16	8,627.9	-385.6	-626.9	0.10	0.10	0.56	19.7	-16.7
8,869.0	1.14	195.52	8,815.8	-389.6	-627.5	0.18	-0.10	7.11	11.4	-20.3



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8,980.0	2.11	4.27	8,926.8	-388.6	-627.6	2.92	0.87	152.03	-16.1	17.9
9,081.0	8.44	357.24	9,027.3	-379.4	-627.9	6.29	6.27	-6.96	-27.3	15.7
9,111.7	11.31	357.50	9,057.6	-374.1	-628.1	9.35	9.35	0.84	-32.5	15.9
KOP (Yarrow 32 State #202H)										
9,175.0	17.23	357.76	9,118.9	-358.5	-628.7	9.35	9.35	0.41	-45.3	16.3
9,182.0	18.12	357.84	9,125.6	-356.4	-628.8	12.73	12.72	1.19	-46.6	16.4
HL Crossing, MD:9182.0', TVD:9125.6', N/S:-356.4', EW:-628.8', INC:18.12										
9,269.0	29.19	358.47	9,205.1	-321.6	-629.9	12.73	12.72	0.72	-65.1	17.5
9,363.0	38.34	359.52	9,283.2	-269.4	-630.8	9.75	9.73	1.12	-85.2	19.1
9,457.0	44.41	1.10	9,353.7	-207.3	-630.4	6.55	6.46	1.68	-100.0	20.2
9,539.8	49.83	0.95	9,410.0	-146.6	-629.3	6.54	6.54	-0.18	-106.5	18.1
FTP (Yarrow 32 State #202H)										
9,551.0	50.56	0.93	9,417.2	-138.0	-629.1	6.54	6.54	-0.17	-106.9	17.9
9,645.0	56.10	2.68	9,473.3	-62.7	-626.7	6.08	5.89	1.86	-104.1	16.1
9,739.0	61.91	3.04	9,521.7	17.7	-622.7	6.19	6.18	0.38	-92.3	10.5
9,786.0	65.42	2.33	9,542.5	59.8	-620.7	7.59	7.47	-1.51	-83.5	7.4
9,833.0	68.68	1.28	9,560.9	103.0	-619.4	7.23	6.94	-2.23	-73.0	5.1
9,880.0	71.14	1.45	9,577.0	147.2	-618.3	5.25	5.23	0.36	-60.5	3.6
9,927.0	73.78	1.10	9,591.2	192.0	-617.3	5.66	5.62	-0.74	-46.6	2.1
9,974.0	76.68	0.57	9,603.2	237.4	-616.7	6.27	6.17	-1.13	-34.2	1.0
10,021.0	80.20	359.52	9,612.6	283.4	-616.6	7.80	7.49	-2.23	-24.4	0.7
10,115.0	88.29	0.75	9,622.0	376.9	-616.4	8.70	8.61	1.31	-14.2	-0.2
10,210.0	89.96	0.93	9,623.4	471.9	-615.0	1.77	1.76	0.19	-11.9	-2.3
10,303.0	92.68	1.45	9,621.3	564.8	-613.1	2.98	2.92	0.56	-13.3	-4.9
10,397.0	92.77	2.68	9,616.8	658.6	-609.7	1.31	0.10	1.31	-17.0	-9.0
10,492.0	91.63	0.93	9,613.2	753.5	-606.7	2.20	-1.20	-1.84	-19.8	-12.7
10,586.0	91.63	0.57	9,610.5	847.5	-605.5	0.38	0.00	-0.38	-21.7	-14.6



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10,680.0	91.54	0.05	9,607.9	941.4	-605.0	0.56	-0.10	-0.55	-23.5	-15.8
10,774.0	91.45	0.40	9,605.5	1,035.4	-604.6	0.38	-0.10	0.37	-25.2	-16.8
10,868.0	90.31	0.05	9,604.0	1,129.4	-604.2	1.27	-1.21	-0.37	-25.8	-17.9
10,963.0	90.48	359.17	9,603.4	1,224.4	-604.9	0.94	0.18	-0.93	-25.7	-17.9
10,965.4	90.47	359.16	9,603.3	1,226.8	-604.9	0.53	-0.37	-0.37	-25.7	-17.9
TGT 1 (Yarrow 32 State #202H)										
11,057.0	90.13	358.82	9,602.9	1,318.4	-606.5	0.53	-0.37	-0.37	-25.3	-16.9
11,151.0	89.78	358.11	9,602.9	1,412.3	-609.1	0.84	-0.37	-0.76	-24.4	-15.1
11,244.0	89.16	357.76	9,603.8	1,505.3	-612.4	0.77	-0.67	-0.38	-22.8	-12.4
11,339.0	88.02	357.41	9,606.1	1,600.1	-616.4	1.26	-1.20	-0.37	-19.6	-9.1
11,433.0	89.69	0.40	9,608.0	1,694.1	-618.2	3.64	1.78	3.18	-16.9	-8.0
11,527.0	90.48	0.40	9,607.9	1,788.1	-617.5	0.84	0.84	0.00	-16.2	-9.3
11,621.0	89.78	0.57	9,607.7	1,882.1	-616.7	0.77	-0.74	0.18	-15.6	-10.8
11,715.0	91.98	0.05	9,606.2	1,976.1	-616.2	2.40	2.34	-0.55	-16.2	-12.0
11,810.0	92.15	359.87	9,602.8	2,071.0	-616.3	0.26	0.18	-0.19	-18.8	-12.6
11,904.0	92.95	359.87	9,598.6	2,164.9	-616.5	0.85	0.85	0.00	-22.2	-13.1
11,998.0	89.87	358.99	9,596.3	2,258.9	-617.5	3.41	-3.28	-0.94	-23.7	-12.8
12,092.0	89.60	356.53	9,596.7	2,352.8	-621.1	2.63	-0.29	-2.62	-22.4	-9.8
12,186.0	89.78	356.00	9,597.2	2,446.6	-627.3	0.60	0.19	-0.56	-21.1	-4.3
12,280.0	89.43	356.00	9,597.9	2,540.4	-633.8	0.37	-0.37	0.00	-19.6	1.5
12,374.0	89.34	357.94	9,598.9	2,634.2	-638.8	2.07	-0.10	2.06	-17.8	5.8
12,468.0	89.87	357.94	9,599.5	2,728.2	-642.2	0.56	0.56	0.00	-16.3	8.5
12,562.0	90.40	357.59	9,599.3	2,822.1	-645.8	0.68	0.56	-0.37	-15.7	11.5
12,656.0	91.19	358.82	9,598.0	2,916.0	-648.8	1.56	0.84	1.31	-16.2	13.8
12,680.2	91.19	358.77	9,597.5	2,940.2	-649.3	0.19	0.00	-0.19	-16.5	14.1
TGT 2 (Yarrow 32 State #202H)										
12,750.0	91.19	358.64	9,596.1	3,010.0	-650.8	0.19	0.00	-0.19	-17.7	15.2



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12,844.0	92.59	357.94	9,593.0	3,103.9	-653.7	1.66	1.49	-0.74	-20.4	17.3
12,939.0	93.39	357.06	9,588.0	3,198.7	-657.8	1.25	0.84	-0.93	-25.0	20.8
13,033.0	92.42	358.64	9,583.3	3,292.5	-661.3	1.97	-1.03	1.68	-29.5	23.6
13,127.0	90.04	359.87	9,581.2	3,386.4	-662.5	2.85	-2.53	1.31	-31.2	24.1
13,221.0	90.04	359.70	9,581.2	3,480.4	-662.9	0.18	0.00	-0.18	-31.0	23.8
13,315.0	89.96	359.17	9,581.2	3,574.4	-663.8	0.57	-0.09	-0.56	-30.7	24.1
13,409.0	90.22	358.99	9,581.0	3,668.4	-665.3	0.34	0.28	-0.19	-30.5	24.9
13,503.0	90.40	358.47	9,580.5	3,762.4	-667.4	0.59	0.19	-0.55	-30.7	26.3
13,597.0	90.40	357.76	9,579.9	3,856.3	-670.5	0.76	0.00	-0.76	-31.0	26.7
13,691.0	90.04	357.06	9,579.5	3,950.2	-674.7	0.84	-0.38	-0.74	-31.1	32.3
13,785.0	89.34	1.28	9,580.0	4,044.2	-676.1	4.55	-0.74	4.49	-30.3	32.9
13,879.0	88.81	0.75	9,581.5	4,138.2	-674.4	0.80	-0.56	-0.56	-28.4	30.6
13,973.0	89.16	0.40	9,583.2	4,232.2	-673.5	0.53	0.37	-0.37	-26.4	29.0
14,068.0	89.52	359.70	9,584.3	4,327.2	-673.4	0.83	0.38	-0.74	-25.0	28.2
14,162.0	88.90	359.52	9,585.6	4,421.1	-674.1	0.69	-0.66	-0.19	-23.4	28.2
14,256.0	89.08	359.52	9,587.2	4,515.1	-674.8	0.19	0.19	0.00	-21.4	28.3
14,350.0	89.43	359.87	9,588.5	4,609.1	-675.3	0.53	0.37	0.37	-19.9	28.1
14,402.0	89.60	0.05	9,588.9	4,661.1	-675.4	0.48	0.33	0.35	-19.3	27.8
Final MWD Survey (MD=14402.0')										
14,455.0	89.60	0.05	9,589.3	4,714.1	-675.3	0.00	0.00	0.00	-18.7	27.3
Final Projection to Bit (MD=14455.0') - PBHL (Yarrow 32 State #202H)										



Final PVA Report

Company: EOG Resources - Midland
Project: Lea County, NM (NAD 83 NME)
Site: Yarrow 32 State
Well: #202H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #202H
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)	
9,182.0	9,125.6	-356.4	-628.8	HL Crossing, MD:9182.0', TVD:9125.6', N/S:-356.4', E/W:-628.8', INC:18.12
14,402.0	9,588.9	4,661.1	-675.4	Final MWD Survey (MD=14402.0')
14,455.0	9,589.3	4,714.1	-675.3	Final Projection to Bit (MD=14455.0')

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 #202H

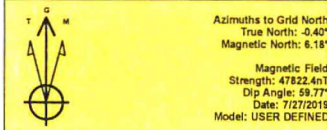
Plan #1

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: #202H

KB = 22' @ 3689.0usft 3667.0
Northing 457365.00 Easting 771921.00 Latitude 32° 15' 18.610 N Longitude 103° 35' 14.722 W



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°

SECTION DETAILS

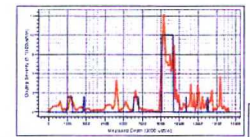
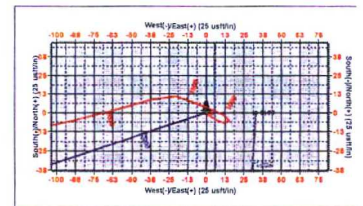
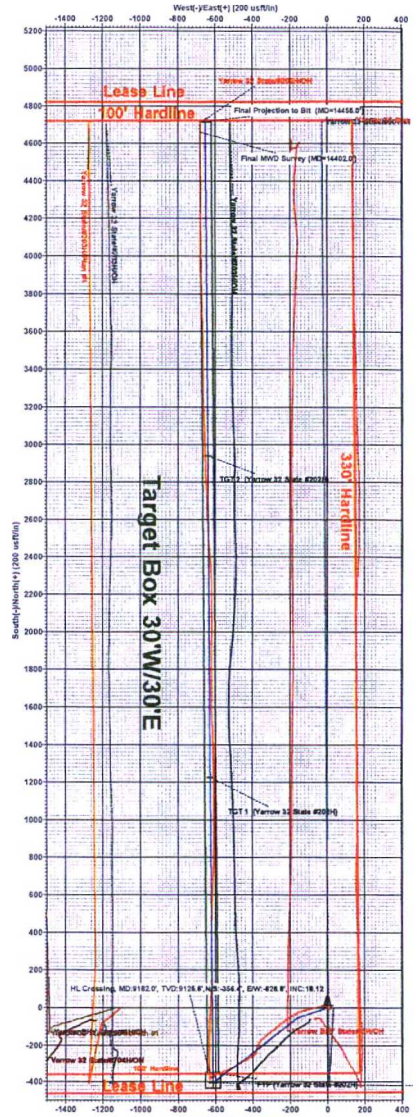
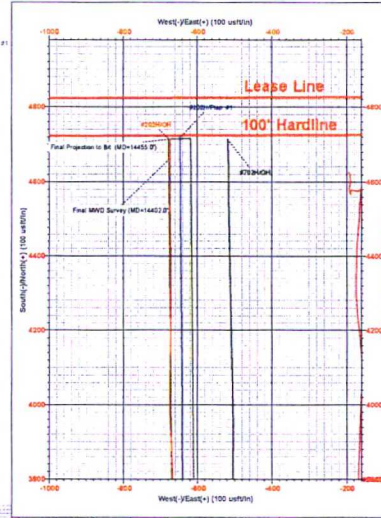
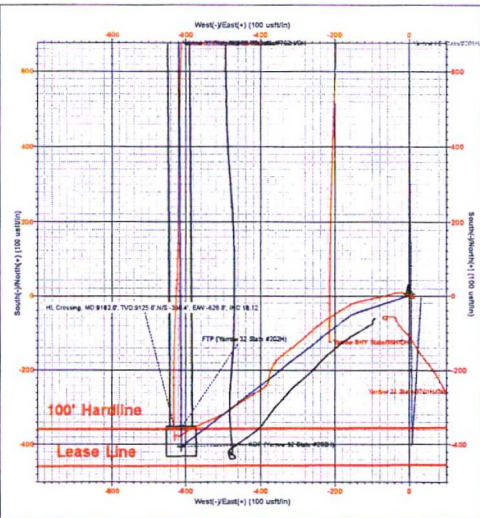
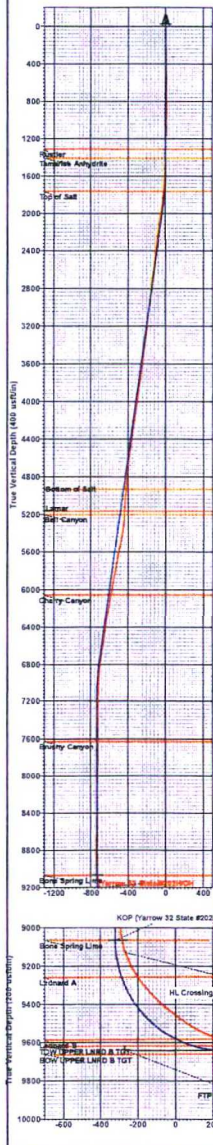
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0	
3	1900.0	8.00	252.00	1898.7	-8.6	-26.5	2.00	252.00	-4.9	
4	2800.0	8.00	252.00	2789.9	-47.3	-145.6	0.00	0.00	-27.1	
5	2938.1	8.00	232.06	2926.7	-56.2	-162.4	2.00	-99.88	-33.6	
6	6825.5	8.00	232.06	6776.3	-388.9	-589.0	0.00	0.00	-305.0	
7	7225.5	0.00	0.00	7175.0	-406.0	-611.0	2.00	180.00	-319.0	
8	9115.5	0.00	0.00	9065.0	-406.0	-611.0	0.00	0.00	-319.0	
9	10020.4	90.49	359.59	9637.9	171.8	-615.2	10.00	359.59	254.0	KOP (Yarrow 32 State #202H)
10	11075.2	90.49	359.59	9629.0	1226.6	-622.8	0.00	0.00	1300.0	TGT 1 (Yarrow 32 State #202H)
11	11076.0	90.50	359.59	9629.0	1227.4	-622.8	2.00	0.00	1300.8	
12	12789.6	90.50	359.59	9614.0	2940.9	-635.2	0.00	0.00	3000.0	TGT 2 (Yarrow 32 State #202H)
13	12805.1	90.19	359.59	9613.9	2956.3	-635.3	2.00	180.00	3015.3	
14	14563.8	90.19	359.59	9608.0	4715.0	-648.0	0.00	0.00	4759.3	PBHL (Yarrow 32 State #202H)

CASING DETAILS

No casing data is available

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting
KOP (Yarrow 32 State #202H)	9065.0	-405.0	-611.0	456859.00	771310.00
TGT 1 (Yarrow 32 State #202H)	9629.0	1226.6	-622.8	458591.60	771289.20
TGT 2 (Yarrow 32 State #202H)	9614.0	2940.9	-635.2	460305.90	771285.82
PBHL (Yarrow 32 State #202H)	9608.0	4715.0	-648.0	460305.90	771273.00
FTP (Yarrow 32 State #202H)	9638.0	-356.0	-611.0	457009.00	771310.00



UTM Zone 18Q UTM Zone 18Q
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