



NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 20 2018

RECEIVED

EOG Resources - Artesia

Eddy County (NAD83)

Peace

Peace #2H

Lateral

Plan: Plan #1

Standard Planning Report

29 October, 2018



Planning Report

Database:	EDM 5000.14	Local Co-ordinate Reference:	Well Peace #2H
Company:	EOG Resources - Artesia	TVD Reference:	KB @ 3565.000usft (Planning Rig)
Project:	Eddy County (NAD83)	MD Reference:	KB @ 3565.000usft (Planning Rig)
Site:	Peace	North Reference:	Grid
Well:	Peace #2H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Lateral		
Design:	Plan #1		

Project	Eddy County (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Peace				
Site Position:		Northing:	612,001.00 usft	Latitude:	32° 40' 56.363 N
From:	Map	Easting:	489,759.00 usft	Longitude:	104° 30' 3.511 W
Position Uncertainty:	0.000 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.09 °

Well	Peace #2H					
Well Position	+N/-S	-1,547.000 usft	Northing:	610,454.00 usft	Latitude:	32° 40' 41.053 N
	+E/-W	-135.000 usft	Easting:	489,624.00 usft	Longitude:	104° 30' 5.062 W
Position Uncertainty		0.000 usft	Wellhead Elevation:	3,565.000 usft	Ground Level:	3,547.000 usft

Wellbore	Lateral				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/29/2018	7.27	60.31	47,964.74964431

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.000	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.000	0.000	0.000	84.708	

Plan Survey Tool Program	Date	10/29/2018			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.000	8,181.161 Plan #1 (Lateral)	MWD		
			OWSG MWD - Standard		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.000	0.00	0.000	0.000	0.000	0.000	0.00	0.00	0.00	0.00	
1,250.000	0.00	0.000	1,250.000	0.000	0.000	0.00	0.00	0.00	0.00	
1,504.624	0.00	0.000	1,504.624	0.000	0.000	0.00	0.00	0.00	0.00	
2,171.291	60.00	29.850	2,055.953	278.080	158.433	9.00	9.00	0.00	29.85	
2,246.291	60.00	29.850	2,093.453	332.415	190.761	0.00	0.00	0.00	0.00	
2,769.831	87.08	89.944	2,254.113	551.720	607.659	12.00	5.17	11.48	76.69	
8,181.212	87.08	89.944	2,530.000	557.000	6,012.000	0.00	0.00	0.00	0.00	[PEACE#2H]BHL1



Planning Report

Database: EDM 5000.14
 Company: EOG Resources - Artesia
 Project: Eddy County (NAD83)
 Site: Peace
 Well: Peace #2H
 Wellbore: Lateral
 Design: Plan #1

Local Co-ordinate Reference: Well Peace #2H
 TVD Reference: KB @ 3565.000usft (Planning Rig)
 MD Reference: KB @ 3565.000usft (Planning Rig)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.000	0.00	0.000	0.000	0.000	0.000	0.000	0.00	0.00	0.00
100.000	0.00	0.000	100.000	0.000	0.000	0.000	0.00	0.00	0.00
200.000	0.00	0.000	200.000	0.000	0.000	0.000	0.00	0.00	0.00
300.000	0.00	0.000	300.000	0.000	0.000	0.000	0.00	0.00	0.00
400.000	0.00	0.000	400.000	0.000	0.000	0.000	0.00	0.00	0.00
500.000	0.00	0.000	500.000	0.000	0.000	0.000	0.00	0.00	0.00
600.000	0.00	0.000	600.000	0.000	0.000	0.000	0.00	0.00	0.00
700.000	0.00	0.000	700.000	0.000	0.000	0.000	0.00	0.00	0.00
800.000	0.00	0.000	800.000	0.000	0.000	0.000	0.00	0.00	0.00
900.000	0.00	0.000	900.000	0.000	0.000	0.000	0.00	0.00	0.00
1,000.000	0.00	0.000	1,000.000	0.000	0.000	0.000	0.00	0.00	0.00
1,100.000	0.00	0.000	1,100.000	0.000	0.000	0.000	0.00	0.00	0.00
1,200.000	0.00	0.000	1,200.000	0.000	0.000	0.000	0.00	0.00	0.00
1,250.000	0.00	0.000	1,250.000	0.000	0.000	0.000	0.00	0.00	0.00
1,300.000	0.00	0.000	1,300.000	0.000	0.000	0.000	0.00	0.00	0.00
1,400.000	0.00	0.000	1,400.000	0.000	0.000	0.000	0.00	0.00	0.00
1,504.624	0.00	0.000	1,504.624	0.000	0.000	0.000	0.00	0.00	0.00
KOP 6°/100' BUILD RATE									
1,550.000	4.08	29.850	1,549.962	1.402	0.805	0.930	9.00	9.00	0.00
1,600.000	8.58	29.850	1,599.644	6.185	3.549	4.105	9.00	9.00	0.00
1,650.000	13.08	29.850	1,648.740	14.334	8.226	9.513	9.00	9.00	0.00
1,700.000	17.58	29.850	1,696.947	25.799	14.805	17.122	9.00	9.00	0.00
1,750.000	22.08	29.850	1,743.969	40.509	23.247	26.884	9.00	9.00	0.00
1,800.000	26.58	29.850	1,789.516	58.374	33.499	38.740	9.00	9.00	0.00
1,850.000	31.08	29.850	1,833.305	79.283	45.498	52.617	9.00	9.00	0.00
1,900.000	35.58	29.850	1,875.069	103.108	59.170	68.428	9.00	9.00	0.00
1,950.000	40.08	29.850	1,914.548	129.701	74.431	86.077	9.00	9.00	0.00
2,000.000	44.58	29.850	1,951.501	158.898	91.186	105.454	9.00	9.00	0.00
2,050.000	49.08	29.850	1,985.698	190.521	109.333	126.441	9.00	9.00	0.00
2,100.000	53.58	29.850	2,018.929	224.373	128.760	148.907	9.00	9.00	0.00
2,150.000	58.08	29.850	2,045.001	260.245	149.346	172.714	9.00	9.00	0.00
2,171.291	60.00	29.850	2,055.953	276.080	158.433	183.223	9.00	9.00	0.00
START 75' TANGENT									
2,200.000	60.00	29.850	2,070.307	297.645	170.808	197.534	0.00	0.00	0.00
2,246.291	60.00	29.850	2,083.453	332.415	180.761	220.610	0.00	0.00	0.00
END 60° TANGENT/START 12° BR									
2,250.000	60.10	30.350	2,095.305	335.196	192.373	222.471	12.00	2.79	13.47
2,275.000	60.85	33.689	2,107.627	353.635	203.907	235.656	12.00	2.98	13.36
2,300.000	61.68	36.978	2,119.649	371.512	216.584	249.928	12.00	3.31	13.16
2,325.000	62.58	40.214	2,131.339	388.780	230.369	265.248	12.00	3.62	12.94
2,350.000	63.56	43.395	2,142.664	405.389	245.226	281.574	12.00	3.91	12.72
2,375.000	64.61	46.521	2,153.593	421.296	261.113	298.860	12.00	4.19	12.50
2,400.000	65.72	49.592	2,164.096	436.455	277.987	317.060	12.00	4.45	12.28
2,425.000	66.89	52.607	2,174.145	450.826	295.802	336.124	12.00	4.69	12.08
2,450.000	68.12	55.570	2,183.712	464.370	314.508	356.000	12.00	4.92	11.85
2,475.000	69.40	58.480	2,192.770	477.048	334.054	376.632	12.00	5.12	11.64
2,500.000	70.73	61.341	2,201.295	488.827	354.387	397.965	12.00	5.32	11.44
2,525.000	72.10	64.158	2,209.264	499.674	375.451	419.940	12.00	5.49	11.26
2,550.000	73.51	66.926	2,216.654	509.559	397.189	442.497	12.00	5.65	11.08
2,575.000	74.96	69.656	2,223.446	518.455	418.540	465.674	12.00	5.79	10.92
2,600.000	76.44	72.349	2,229.620	526.339	442.444	489.107	12.00	5.92	10.77
2,625.000	77.95	75.008	2,235.161	533.187	465.838	513.033	12.00	6.04	10.64
2,650.000	79.49	77.637	2,240.052	538.982	489.657	537.285	12.00	6.14	10.52



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Site: Peace
Well: Peace #2H
Wellbore: Lateral
Design: Plan #1

Local Co-ordinate Reference: Well Peace #2H
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,675.000	81.04	80.240	2,244.280	543.708	513.836	561.797	12.00	6.22	10.41
2,700.000	82.62	82.821	2,247.834	547.351	538.310	586.502	12.00	6.29	10.32
2,725.000	84.20	85.383	2,250.704	549.902	563.010	611.333	12.00	6.35	10.25
2,750.000	85.80	87.931	2,252.881	551.354	587.870	636.220	12.00	6.40	10.19
2,769.832	87.08	89.944	2,254.113	551.720	607.659	655.959	12.00	6.43	10.15
[PEACE#2H]EOC1 2770' MD (2554' TVD)									
2,800.000	87.08	89.944	2,255.651	551.750	637.788	685.982	0.00	0.00	0.00
2,900.000	87.08	89.944	2,260.749	551.847	737.658	785.415	0.00	0.00	0.00
3,000.000	87.08	89.944	2,265.848	551.945	837.528	884.868	0.00	0.00	0.00
3,100.000	87.08	89.944	2,270.946	552.043	937.398	984.321	0.00	0.00	0.00
3,200.000	87.08	89.944	2,276.044	552.140	1,037.267	1,083.774	0.00	0.00	0.00
3,218.757	87.08	89.944	2,277.000	552.158	1,056.000	1,102.429	0.00	0.00	0.00
[PEACE#2H]JUMP1 3219' MD (2277" TVD)									
3,300.000	87.08	89.944	2,281.142	552.238	1,137.137	1,183.228	0.00	0.00	0.00
3,400.000	87.08	89.944	2,286.241	552.335	1,237.007	1,282.681	0.00	0.00	0.00
3,500.000	87.08	89.944	2,291.339	552.433	1,336.877	1,382.134	0.00	0.00	0.00
3,600.000	87.08	89.944	2,296.437	552.530	1,436.747	1,481.587	0.00	0.00	0.00
3,700.000	87.08	89.944	2,301.535	552.628	1,536.617	1,581.040	0.00	0.00	0.00
3,800.000	87.08	89.944	2,306.634	552.726	1,636.487	1,680.493	0.00	0.00	0.00
3,900.000	87.08	89.944	2,311.732	552.823	1,736.357	1,779.946	0.00	0.00	0.00
4,000.000	87.08	89.944	2,316.830	552.921	1,836.227	1,879.400	0.00	0.00	0.00
4,100.000	87.08	89.944	2,321.929	553.018	1,936.097	1,978.853	0.00	0.00	0.00
4,200.000	87.08	89.944	2,327.027	553.116	2,035.968	2,078.306	0.00	0.00	0.00
4,300.000	87.08	89.944	2,332.125	553.213	2,135.838	2,177.759	0.00	0.00	0.00
4,400.000	87.08	89.944	2,337.223	553.311	2,235.708	2,277.212	0.00	0.00	0.00
4,500.000	87.08	89.944	2,342.322	553.408	2,335.578	2,376.665	0.00	0.00	0.00
4,600.000	87.08	89.944	2,347.420	553.506	2,435.448	2,476.118	0.00	0.00	0.00
4,700.000	87.08	89.944	2,352.518	553.604	2,535.318	2,575.572	0.00	0.00	0.00
4,800.000	87.08	89.944	2,357.616	553.701	2,635.188	2,675.025	0.00	0.00	0.00
4,900.000	87.08	89.944	2,362.715	553.799	2,735.058	2,774.478	0.00	0.00	0.00
5,000.000	87.08	89.944	2,367.813	553.896	2,834.928	2,873.931	0.00	0.00	0.00
5,100.000	87.08	89.944	2,372.911	553.994	2,934.798	2,973.384	0.00	0.00	0.00
5,200.000	87.08	89.944	2,378.010	554.091	3,034.668	3,072.837	0.00	0.00	0.00
5,300.000	87.08	89.944	2,383.108	554.189	3,134.538	3,172.290	0.00	0.00	0.00
5,400.000	87.08	89.944	2,388.206	554.287	3,234.408	3,271.744	0.00	0.00	0.00
5,500.000	87.08	89.944	2,393.304	554.384	3,334.278	3,371.197	0.00	0.00	0.00
5,600.000	87.08	89.944	2,398.403	554.482	3,434.148	3,470.650	0.00	0.00	0.00
5,700.000	87.08	89.944	2,403.501	554.579	3,534.018	3,570.103	0.00	0.00	0.00
5,800.000	87.08	89.944	2,408.599	554.677	3,633.888	3,669.556	0.00	0.00	0.00
5,900.000	87.08	89.944	2,413.697	554.774	3,733.758	3,769.009	0.00	0.00	0.00
6,000.000	87.08	89.944	2,418.796	554.872	3,833.628	3,868.462	0.00	0.00	0.00
6,100.000	87.08	89.944	2,423.894	554.969	3,933.498	3,967.916	0.00	0.00	0.00
6,200.000	87.08	89.944	2,428.992	555.067	4,033.368	4,067.369	0.00	0.00	0.00
6,300.000	87.08	89.944	2,434.091	555.165	4,133.238	4,166.822	0.00	0.00	0.00
6,400.000	87.08	89.944	2,439.189	555.262	4,233.108	4,266.275	0.00	0.00	0.00
6,500.000	87.08	89.944	2,444.287	555.360	4,332.978	4,365.728	0.00	0.00	0.00
6,600.000	87.08	89.944	2,449.385	555.457	4,432.848	4,465.181	0.00	0.00	0.00
6,700.000	87.08	89.944	2,454.484	555.555	4,532.718	4,564.634	0.00	0.00	0.00
6,800.000	87.08	89.944	2,459.582	555.652	4,632.588	4,664.088	0.00	0.00	0.00
6,900.000	87.08	89.944	2,464.680	555.750	4,732.458	4,763.541	0.00	0.00	0.00
7,000.000	87.08	89.944	2,469.778	555.848	4,832.328	4,862.994	0.00	0.00	0.00
7,100.000	87.08	89.944	2,474.877	555.945	4,932.198	4,962.447	0.00	0.00	0.00
7,200.000	87.08	89.944	2,479.975	556.043	5,032.068	5,061.900	0.00	0.00	0.00
7,300.000	87.08	89.944	2,485.073	556.140	5,131.938	5,161.353	0.00	0.00	0.00



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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,400.000	87.08	89.944	2,490.172	556.238	5,231.803	5,260.806	0.00	0.00	0.00
7,500.000	87.08	89.944	2,495.270	556.335	5,331.673	5,360.260	0.00	0.00	0.00
7,600.000	87.08	89.944	2,500.368	556.433	5,431.543	5,459.713	0.00	0.00	0.00
7,700.000	87.08	89.944	2,505.466	556.530	5,531.413	5,559.166	0.00	0.00	0.00
7,800.000	87.08	89.944	2,510.565	556.628	5,631.283	5,658.619	0.00	0.00	0.00
7,900.000	87.08	89.944	2,515.663	556.726	5,731.153	5,758.072	0.00	0.00	0.00
8,000.000	87.08	89.944	2,520.761	556.823	5,831.023	5,857.525	0.00	0.00	0.00
8,100.000	87.08	89.944	2,525.859	556.921	5,930.893	5,956.978	0.00	0.00	0.00
8,181.212	87.08	89.944	2,530.000	557.000	6,012.000	6,037.747	0.00	0.00	0.00

[PEACE#2H]BHL1 8181' MD (2530' TVD)

Design Targets

Target Name

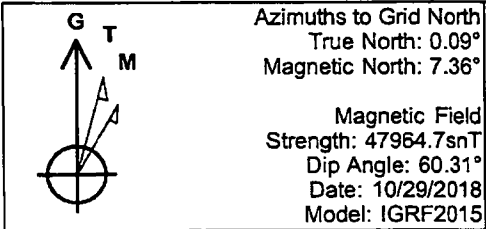
- hi/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
[PEACE#2H]JUMP1 - plan misses target center by 0.158usft at 3218.757usft MD (2277.000 TVD, 552.158 N, 1056.000 E) - Point	0.00	0.000	2,277.000	552.000	1,056.000	611,006.00	490,680.00	32° 40' 46.531 N	104° 29' 52.716 W
[PEACE#2H]BHL1 - plan hits target center - Point	0.00	0.000	2,530.000	557.000	6,012.000	611,011.00	495,636.00	32° 40' 46.653 N	104° 28' 54.729 W

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,504.624	1,504.624	0.000	0.000	KOP 9°/100' BUILD RATE
2,171.291	2,055.953	276.080	158.433	START 75' TANGENT
2,246.291	2,093.453	332.415	190.761	END 60° TANGENT/START 12° BR
2,769.832	2,254.113	551.720	607.659	[PEACE#2H]EOC1 2770' MD (2554' TVD)
3,218.757	2,277.000	552.158	1,056.000	[PEACE#2H]JUMP1 3219' MD (2277" TVD)
8,181.212	2,530.000	557.000	6,012.000	[PEACE#2H]BHL1 8181' MD (2530' TVD)

Project: Eddy County (NAD83)
 Site: Peace
 Well: Peace #2H
 Wellbore: Lateral
 Design: Plan #1
 Ground Elevation 3547.000
 Northing 610454.00
 Easting 489624.00

PROJECT DETAILS: Eddy County (NAD83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	0.000	0.00	0.000	0.000	0.000	0.000	0.00	0.00	0.000
2	1250.000	0.00	0.000	1250.000	0.000	0.000	0.00	0.00	0.000
3	1504.624	0.00	0.000	1504.624	0.000	0.000	0.00	0.00	0.000
4	2171.291	60.00	29.850	2055.953	276.080	158.433	9.00	29.85	183.223
5	2246.291	60.00	29.850	2093.453	332.415	190.761	0.00	0.00	220.610
6	2769.832	87.08	89.944	2254.113	551.720	607.659	12.00	76.69	655.958
7	8181.213	87.08	89.944	2530.000	557.000	6012.000	0.00	0.00	6037.747

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
[PEACE#2H]JUMP1	2277.000	552.000	1056.000	611006.00	490680.00
- plan misses target center by 0.158usft at 3218.757usft MD (2277.000 TVD, 552.158 N, 1056.000 E)					
[PEACE#2H]BHL1	2530.000	557.000	6012.000	611011.00	495636.00
- plan hits target center					

