

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 08-T25S-R33E

Flagler 8 Fed 38H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

05 March, 2018

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Flagler 8 Fed 38H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3472.50ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3472.50ft
Site:	Sec 08-T25S-R33E	North Reference:	Grid
Well:	Flagler 8 Fed 38H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

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

Site		Sec 08-T25S-R33E			
Site Position:		Northing:	419,281.82 usft	Latitude:	32.150539
From:	Map	Easting:	769,381.69 usft	Longitude:	-103.596481
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.39 °

Well	Flagler 8 Fed 38H					
Well Position	+N/-S	0.00 ft	Northing:	415,051.09 usft	Latitude:	32.138899
	+E/-W	0.00 ft	Easting:	769,952.61 usft	Longitude:	-103.594730
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,447.50 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/27/2018	6.88	59.97	47,813.15907479

Design	Permit Plan 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	355.52

Plan Survey Tool Program	Date	3/5/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,854.05 Permit Plan 1 (Wellbore #1)	MWD+IGRF	
			OWSG MWD + IGRF or WMM	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,836.38	5.45	256.55	2,835.72	-4.83	-20.19	1.25	1.25	0.00	256.55	
7,960.77	5.45	256.55	7,936.90	-118.12	-493.95	0.00	0.00	0.00	0.00	
8,324.41	0.00	0.00	8,300.00	-122.14	-510.77	1.50	-1.50	0.00	180.00	Vertical Point 2 - Flag
8,811.43	0.00	0.00	8,787.02	-122.14	-510.77	0.00	0.00	0.00	0.00	
9,411.43	60.00	20.00	9,283.22	147.06	-412.79	10.00	10.00	0.00	20.00	
9,766.72	90.00	0.01	9,375.00	480.01	-358.40	10.00	8.44	-5.63	-36.04	
13,854.05	90.00	0.01	9,375.00	4,567.34	-358.05	0.00	0.00	0.00	0.00	PBHL - Flagler 8 Fed

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Well:	Flagler 8 Fed 38H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
100.00	0.00	0.00	100.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
200.00	0.00	0.00	200.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
300.00	0.00	0.00	300.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
400.00	0.00	0.00	400.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
500.00	0.00	0.00	500.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
600.00	0.00	0.00	600.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
700.00	0.00	0.00	700.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
800.00	0.00	0.00	800.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
900.00	0.00	0.00	900.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
1,000.00	0.00	0.00	1,000.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
1,100.00	0.00	0.00	1,100.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
1,200.00	0.00	0.00	1,200.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
1,300.00	0.00	0.00	1,300.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
1,400.00	0.00	0.00	1,400.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
1,500.00	0.00	0.00	1,500.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
1,600.00	0.00	0.00	1,600.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
1,700.00	0.00	0.00	1,700.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
1,800.00	0.00	0.00	1,800.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
1,900.00	0.00	0.00	1,900.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
2,000.00	0.00	0.00	2,000.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
2,100.00	0.00	0.00	2,100.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
2,200.00	0.00	0.00	2,200.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
2,300.00	0.00	0.00	2,300.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
2,400.00	0.00	0.00	2,400.00	0.00	0.00	415,051.09	769,952.61	32.138899	-103.594730
Begin Nudge									
2,500.00	1.25	256.55	2,499.99	-0.25	-1.06	415,050.84	769,951.55	32.138899	-103.594734
2,600.00	2.50	256.55	2,599.94	-1.01	-4.24	415,050.07	769,948.36	32.138897	-103.594744
2,700.00	3.75	256.55	2,699.79	-2.28	-9.54	415,048.81	769,943.06	32.138893	-103.594761
2,800.00	5.00	256.55	2,799.49	-4.06	-16.96	415,047.03	769,935.64	32.138888	-103.594785
2,836.38	5.45	256.55	2,835.72	-4.83	-20.19	415,046.26	769,932.42	32.138886	-103.594796
EOB									
2,900.00	5.45	256.55	2,899.05	-6.23	-26.07	415,044.86	769,926.54	32.138883	-103.594815
3,000.00	5.45	256.55	2,998.60	-8.44	-35.31	415,042.64	769,917.29	32.138877	-103.594845
3,100.00	5.45	256.55	3,098.15	-10.66	-44.56	415,040.43	769,908.05	32.138871	-103.594875
3,200.00	5.45	256.55	3,197.69	-12.87	-53.81	415,038.22	769,898.80	32.138865	-103.594905
3,300.00	5.45	256.55	3,297.24	-15.08	-63.05	415,036.01	769,889.56	32.138859	-103.594934
3,400.00	5.45	256.55	3,396.79	-17.29	-72.30	415,033.80	769,880.31	32.138853	-103.594964
3,500.00	5.45	256.55	3,496.34	-19.50	-81.54	415,031.59	769,871.07	32.138847	-103.594994
3,600.00	5.45	256.55	3,595.88	-21.71	-90.79	415,029.38	769,861.82	32.138841	-103.595024
3,700.00	5.45	256.55	3,695.43	-23.92	-100.03	415,027.17	769,852.58	32.138835	-103.595054
3,800.00	5.45	256.55	3,794.98	-26.13	-109.28	415,024.96	769,843.33	32.138830	-103.595084
3,900.00	5.45	256.55	3,894.52	-28.34	-118.52	415,022.75	769,834.09	32.138824	-103.595114
4,000.00	5.45	256.55	3,994.07	-30.55	-127.77	415,020.54	769,824.84	32.138818	-103.595144
4,100.00	5.45	256.55	4,093.62	-32.76	-137.01	415,018.33	769,815.60	32.138812	-103.595174
4,200.00	5.45	256.55	4,193.17	-34.97	-146.26	415,016.12	769,806.35	32.138806	-103.595204
4,300.00	5.45	256.55	4,292.71	-37.19	-155.50	415,013.90	769,797.11	32.138800	-103.595234
4,400.00	5.45	256.55	4,392.26	-39.40	-164.75	415,011.69	769,787.86	32.138794	-103.595263
4,500.00	5.45	256.55	4,491.81	-41.61	-173.99	415,009.48	769,778.61	32.138788	-103.595293
4,600.00	5.45	256.55	4,591.35	-43.82	-183.24	415,007.27	769,769.37	32.138782	-103.595323
4,700.00	5.45	256.55	4,690.90	-46.03	-192.48	415,005.06	769,760.12	32.138776	-103.595353
4,800.00	5.45	256.55	4,790.45	-48.24	-201.73	415,002.85	769,750.88	32.138770	-103.595383
4,900.00	5.45	256.55	4,890.00	-50.45	-210.97	415,000.64	769,741.63	32.138765	-103.595413
5,000.00	5.45	256.55	4,989.54	-52.66	-220.22	414,998.43	769,732.39	32.138759	-103.595443

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Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,100.00	5.45	256.55	5,089.09	-54.87	-229.46	414,996.22	769,723.14	32.138753	-103.595473
5,200.00	5.45	256.55	5,188.64	-57.08	-238.71	414,994.01	769,713.90	32.138747	-103.595503
5,300.00	5.45	256.55	5,288.19	-59.29	-247.95	414,991.80	769,704.65	32.138741	-103.595533
5,400.00	5.45	256.55	5,387.73	-61.50	-257.20	414,989.59	769,695.41	32.138735	-103.595563
5,500.00	5.45	256.55	5,487.28	-63.71	-266.45	414,987.37	769,686.16	32.138729	-103.595593
5,600.00	5.45	256.55	5,586.83	-65.93	-275.69	414,985.16	769,676.92	32.138723	-103.595622
5,700.00	5.45	256.55	5,686.37	-68.14	-284.94	414,982.95	769,667.67	32.138717	-103.595652
5,800.00	5.45	256.55	5,785.92	-70.35	-294.18	414,980.74	769,658.43	32.138711	-103.595682
5,900.00	5.45	256.55	5,885.47	-72.56	-303.43	414,978.53	769,649.18	32.138706	-103.595712
6,000.00	5.45	256.55	5,985.02	-74.77	-312.67	414,976.32	769,639.94	32.138700	-103.595742
6,100.00	5.45	256.55	6,084.56	-76.98	-321.92	414,974.11	769,630.69	32.138694	-103.595772
6,200.00	5.45	256.55	6,184.11	-79.19	-331.16	414,971.90	769,621.45	32.138688	-103.595802
6,300.00	5.45	256.55	6,283.66	-81.40	-340.41	414,969.69	769,612.20	32.138682	-103.595832
6,400.00	5.45	256.55	6,383.20	-83.61	-349.65	414,967.48	769,602.96	32.138676	-103.595862
6,500.00	5.45	256.55	6,482.75	-85.82	-358.90	414,965.27	769,593.71	32.138670	-103.595892
6,600.00	5.45	256.55	6,582.30	-88.03	-368.14	414,963.06	769,584.47	32.138664	-103.595922
6,700.00	5.45	256.55	6,681.85	-90.24	-377.39	414,960.85	769,575.22	32.138658	-103.595952
6,800.00	5.45	256.55	6,781.39	-92.46	-386.63	414,958.63	769,565.97	32.138652	-103.595981
6,900.00	5.45	256.55	6,880.94	-94.67	-395.88	414,956.42	769,556.73	32.138647	-103.596011
7,000.00	5.45	256.55	6,980.49	-96.88	-405.12	414,954.21	769,547.48	32.138641	-103.596041
7,100.00	5.45	256.55	7,080.03	-99.09	-414.37	414,952.00	769,538.24	32.138635	-103.596071
7,200.00	5.45	256.55	7,179.58	-101.30	-423.61	414,949.79	769,528.99	32.138629	-103.596101
7,300.00	5.45	256.55	7,279.13	-103.51	-432.86	414,947.58	769,519.75	32.138623	-103.596131
7,400.00	5.45	256.55	7,378.68	-105.72	-442.10	414,945.37	769,510.50	32.138617	-103.596161
7,500.00	5.45	256.55	7,478.22	-107.93	-451.35	414,943.16	769,501.26	32.138611	-103.596191
7,600.00	5.45	256.55	7,577.77	-110.14	-460.59	414,940.95	769,492.01	32.138605	-103.596221
7,700.00	5.45	256.55	7,677.32	-112.35	-469.84	414,938.74	769,482.77	32.138599	-103.596251
7,800.00	5.45	256.55	7,776.86	-114.56	-479.09	414,936.53	769,473.52	32.138593	-103.596281
7,900.00	5.45	256.55	7,876.41	-116.77	-488.33	414,934.32	769,464.28	32.138587	-103.596311
7,960.77	5.45	256.55	7,936.91	-118.12	-493.95	414,932.97	769,458.66	32.138584	-103.596329
EOH									
8,000.00	4.87	256.55	7,975.98	-118.94	-497.38	414,932.15	769,455.23	32.138582	-103.596340
8,100.00	3.37	256.55	8,075.72	-120.61	-504.36	414,930.48	769,448.25	32.138577	-103.596362
8,200.00	1.87	256.55	8,175.61	-121.67	-508.80	414,929.42	769,443.81	32.138574	-103.596377
8,300.00	0.37	256.55	8,275.59	-122.12	-510.70	414,928.97	769,441.91	32.138573	-103.596383
8,324.41	0.00	0.00	8,300.00	-122.14	-510.77	414,928.95	769,441.84	32.138573	-103.596383
Drop to Vertical									
8,400.00	0.00	0.00	8,375.59	-122.14	-510.77	414,928.95	769,441.84	32.138573	-103.596383
8,500.00	0.00	0.00	8,475.59	-122.14	-510.77	414,928.95	769,441.84	32.138573	-103.596383
8,600.00	0.00	0.00	8,575.59	-122.14	-510.77	414,928.95	769,441.84	32.138573	-103.596383
8,700.00	0.00	0.00	8,675.59	-122.14	-510.77	414,928.95	769,441.84	32.138573	-103.596383
8,800.00	0.00	0.00	8,775.59	-122.14	-510.77	414,928.95	769,441.84	32.138573	-103.596383
8,811.43	0.00	0.00	8,787.02	-122.14	-510.77	414,928.95	769,441.84	32.138573	-103.596383
KOP @ 8811' MD, 258' FSL, 1989' FWL									
8,900.00	8.86	20.00	8,875.23	-115.72	-508.43	414,935.37	769,444.17	32.138591	-103.596375
9,000.00	18.86	20.00	8,972.20	-93.24	-500.25	414,957.85	769,452.35	32.138652	-103.596349
9,100.00	28.86	20.00	9,063.54	-55.29	-486.44	414,995.80	769,466.17	32.138756	-103.596303
9,111.91	30.05	20.00	9,073.91	-49.78	-484.44	415,001.31	769,468.17	32.138772	-103.596296
1st Take Point @ 9112' MD, 330' FSL, 2015' FWL									
9,200.00	38.86	20.00	9,146.48	-3.00	-467.41	415,048.09	769,485.20	32.138900	-103.596240
9,300.00	48.86	20.00	9,218.50	62.02	-443.74	415,113.11	769,508.87	32.139078	-103.596163
9,400.00	58.86	20.00	9,277.40	137.81	-416.16	415,188.90	769,536.45	32.139286	-103.596072
9,411.43	60.00	20.00	9,283.22	147.06	-412.79	415,198.15	769,539.82	32.139311	-103.596061
EOT @ 20° TF									

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Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Flagler 8 Fed 38H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3472.50ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3472.50ft
Site:	Sec 08-T25S-R33E	North Reference:	Grid
Well:	Flagler 8 Fed 38H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey									
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9,500.00	67.28	14.36	9,322.54	222.82	-389.49	415,273.91	769,563.11	32.139519	-103.595984
9,600.00	75.71	8.68	9,354.28	315.63	-370.69	415,366.72	769,581.92	32.139774	-103.595921
9,700.00	84.26	3.42	9,371.66	413.44	-360.39	415,464.53	769,592.22	32.140042	-103.595885
9,766.72	90.00	0.01	9,375.00	480.01	-358.40	415,531.10	769,594.21	32.140225	-103.595878
Land Point									
9,800.00	90.00	0.01	9,375.00	513.29	-358.40	415,564.38	769,594.21	32.140317	-103.595877
9,900.00	90.00	0.01	9,375.00	613.29	-358.39	415,664.38	769,594.22	32.140592	-103.595875
10,000.00	90.00	0.01	9,375.00	713.29	-358.38	415,764.38	769,594.23	32.140867	-103.595872
10,100.00	90.00	0.01	9,375.00	813.29	-358.37	415,864.38	769,594.24	32.141142	-103.595870
10,200.00	90.00	0.01	9,375.00	913.29	-358.36	415,964.38	769,594.24	32.141416	-103.595868
10,300.00	90.00	0.01	9,375.00	1,013.29	-358.36	416,064.38	769,594.25	32.141691	-103.595866
10,400.00	90.00	0.01	9,375.00	1,113.29	-358.35	416,164.38	769,594.26	32.141966	-103.595863
10,500.00	90.00	0.01	9,375.00	1,213.29	-358.34	416,264.38	769,594.27	32.142241	-103.595861
10,600.00	90.00	0.01	9,375.00	1,313.29	-358.33	416,364.38	769,594.28	32.142516	-103.595859
10,700.00	90.00	0.01	9,375.00	1,413.29	-358.32	416,464.37	769,594.29	32.142791	-103.595857
10,800.00	90.00	0.01	9,375.00	1,513.29	-358.31	416,564.37	769,594.30	32.143066	-103.595854
10,900.00	90.00	0.01	9,375.00	1,613.29	-358.30	416,664.37	769,594.30	32.143340	-103.595852
11,000.00	90.00	0.01	9,375.00	1,713.29	-358.29	416,764.37	769,594.31	32.143615	-103.595850
11,100.00	90.00	0.01	9,375.00	1,813.29	-358.29	416,864.37	769,594.32	32.143890	-103.595848
11,200.00	90.00	0.01	9,375.00	1,913.29	-358.28	416,964.37	769,594.33	32.144165	-103.595846
11,300.00	90.00	0.01	9,375.00	2,013.29	-358.27	417,064.37	769,594.34	32.144440	-103.595843
11,400.00	90.00	0.01	9,375.00	2,113.29	-358.26	417,164.37	769,594.35	32.144715	-103.595841
11,500.00	90.00	0.01	9,375.00	2,213.29	-358.25	417,264.37	769,594.36	32.144990	-103.595839
11,600.00	90.00	0.01	9,375.00	2,313.29	-358.24	417,364.37	769,594.37	32.145265	-103.595837
11,700.00	90.00	0.01	9,375.00	2,413.29	-358.23	417,464.37	769,594.37	32.145539	-103.595834
11,800.00	90.00	0.01	9,375.00	2,513.29	-358.22	417,564.37	769,594.38	32.145814	-103.595832
11,900.00	90.00	0.01	9,375.00	2,613.29	-358.22	417,664.37	769,594.39	32.146089	-103.595830
12,000.00	90.00	0.01	9,375.00	2,713.29	-358.21	417,764.37	769,594.40	32.146364	-103.595828
12,100.00	90.00	0.01	9,375.00	2,813.29	-358.20	417,864.37	769,594.41	32.146639	-103.595825
12,200.00	90.00	0.01	9,375.00	2,913.29	-358.19	417,964.37	769,594.42	32.146914	-103.595823
12,300.00	90.00	0.01	9,375.00	3,013.29	-358.18	418,064.37	769,594.43	32.147189	-103.595821
12,400.00	90.00	0.01	9,375.00	3,113.29	-358.17	418,164.37	769,594.44	32.147464	-103.595819
12,500.00	90.00	0.01	9,375.00	3,213.29	-358.16	418,264.37	769,594.44	32.147738	-103.595816
12,600.00	90.00	0.01	9,375.00	3,313.29	-358.15	418,364.37	769,594.45	32.148013	-103.595814
12,700.00	90.00	0.01	9,375.00	3,413.29	-358.15	418,464.37	769,594.46	32.148288	-103.595812
12,800.00	90.00	0.01	9,375.00	3,513.29	-358.14	418,564.37	769,594.47	32.148563	-103.595810
12,900.00	90.00	0.01	9,375.00	3,613.29	-358.13	418,664.37	769,594.48	32.148838	-103.595807
13,000.00	90.00	0.01	9,375.00	3,713.29	-358.12	418,764.37	769,594.49	32.149113	-103.595805
13,100.00	90.00	0.01	9,375.00	3,813.29	-358.11	418,864.37	769,594.50	32.149388	-103.595803
13,200.00	90.00	0.01	9,375.00	3,913.29	-358.10	418,964.37	769,594.51	32.149663	-103.595801
13,300.00	90.00	0.01	9,375.00	4,013.29	-358.09	419,064.37	769,594.51	32.149937	-103.595798
13,400.00	90.00	0.01	9,375.00	4,113.29	-358.08	419,164.37	769,594.52	32.150212	-103.595796
13,500.00	90.00	0.01	9,375.00	4,213.29	-358.08	419,264.37	769,594.53	32.150487	-103.595794
13,600.00	90.00	0.01	9,375.00	4,313.29	-358.07	419,364.37	769,594.54	32.150762	-103.595792
13,700.00	90.00	0.01	9,375.00	4,413.29	-358.06	419,464.37	769,594.55	32.151037	-103.595789
13,800.00	90.00	0.01	9,375.00	4,513.29	-358.05	419,564.37	769,594.56	32.151312	-103.595787
13,854.05	90.00	0.01	9,375.00	4,567.34	-358.05	419,618.42	769,594.56	32.151460	-103.595786
PBHL; 330' FNL, 2180' FWL									

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Flagler 8 Fed 38H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3472.50ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3472.50ft
Site:	Sec 08-T25S-R33E	North Reference:	Grid
Well:	Flagler 8 Fed 38H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
PBHL - Flagler 8 Fed 38	0.00	0.00	0.00	4,567.13	-360.77	419,618.21	769,591.84	32.151460	-103.595795
- plan misses target center by 4581.36ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Vertical Point 2 - Flagler	0.00	0.00	8,300.00	-122.14	-510.77	414,928.95	769,441.84	32.138573	-103.596383
- plan hits target center									
- Point									
Vertical Point - Flagler F	0.00	0.00	8,300.00	-182.14	-360.55	414,868.95	769,592.06	32.138405	-103.595899
- plan misses target center by 161.76ft at 8323.99ft MD (8299.58 TVD, -122.14 N, -510.77 E)									
- Point									

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(ft)	(ft)	+N/-S (ft)	+E/-W (ft)	
2,400.00	2,400.00	0.00	0.00	Begin Nudge
2,836.38	2,835.72	-4.83	-20.19	EOB
7,960.77	7,936.91	-118.12	-493.95	EOH
8,324.41	8,300.00	-122.14	-510.77	Drop to Vertical
8,811.43	8,787.02	-122.14	-510.77	KOP @ 8811' MD, 258' FSL, 1989' FWL
9,111.91	9,073.91	-49.78	-484.44	1st Take Point @ 9112' MD, 330' FSL, 2015' FWL
9,411.43	9,283.22	147.06	-412.79	EOT @ 20° TF
9,766.72	9,375.00	480.01	-358.40	Land Point
13,854.05	9,375.00	4,567.34	-358.05	PBHL; 330' FNL, 2180' FWL