

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 08-T25S-R33E

Flagler 8 Fed 39H

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 39H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3471.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3471.80ft
Site:	Sec 08-T25S-R33E	North Reference:	Grid
Well:	Flagler 8 Fed 39H	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 39H					
Well Position	+N/-S	0.00 ft	Northing:	415,051.47 usft	Latitude:	32.138899
	+E/-W	0.00 ft	Easting:	770,012.60 usft	Longitude:	-103.594537
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,446.80 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2/27/2018	6.88	59.97	47,813.18451948

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	357.92

Plan Survey Tool Program	Date	3/5/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	13,851.57 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	
2,498.74	1.48	180.00	2,498.73	-1.28	0.00	1.50	1.50	0.00	180.00	
8,203.19	1.48	180.00	8,201.27	-148.72	0.00	0.00	0.00	0.00	0.00	
8,301.93	0.00	0.00	8,300.00	-150.00	0.00	1.50	-1.50	0.00	180.00	
8,803.97	0.00	0.00	8,802.04	-150.00	0.00	0.00	0.00	0.00	0.00	
9,703.97	90.00	357.99	9,375.00	422.61	-20.12	10.00	10.00	0.00	357.99	PBHL - Flagler 8 Fed
13,852.20	90.00	357.99	9,375.00	4,568.28	-165.77	0.00	0.00	0.00	0.00	PBHL - Flagler 8 Fed

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Well:	Flagler 8 Fed 39H	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	415,051.47	770,012.60	32.138899	-103.594537
100.00	0.00	0.00	100.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
200.00	0.00	0.00	200.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
300.00	0.00	0.00	300.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
400.00	0.00	0.00	400.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
500.00	0.00	0.00	500.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
600.00	0.00	0.00	600.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
700.00	0.00	0.00	700.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
800.00	0.00	0.00	800.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
900.00	0.00	0.00	900.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
1,000.00	0.00	0.00	1,000.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
1,100.00	0.00	0.00	1,100.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
1,200.00	0.00	0.00	1,200.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
1,300.00	0.00	0.00	1,300.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
1,400.00	0.00	0.00	1,400.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
1,500.00	0.00	0.00	1,500.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
1,600.00	0.00	0.00	1,600.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
1,700.00	0.00	0.00	1,700.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
1,800.00	0.00	0.00	1,800.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
1,900.00	0.00	0.00	1,900.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
2,000.00	0.00	0.00	2,000.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
2,100.00	0.00	0.00	2,100.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
2,200.00	0.00	0.00	2,200.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
2,300.00	0.00	0.00	2,300.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
2,400.00	0.00	0.00	2,400.00	0.00	0.00	415,051.47	770,012.60	32.138899	-103.594537
Begin Nudge									
2,498.74	1.48	180.00	2,498.73	-1.28	0.00	415,050.19	770,012.60	32.138896	-103.594537
EOB									
2,500.00	1.48	180.00	2,499.99	-1.31	0.00	415,050.16	770,012.60	32.138896	-103.594537
2,600.00	1.48	180.00	2,599.96	-3.89	0.00	415,047.58	770,012.60	32.138888	-103.594537
2,700.00	1.48	180.00	2,699.92	-6.48	0.00	415,044.99	770,012.60	32.138881	-103.594537
2,800.00	1.48	180.00	2,799.89	-9.06	0.00	415,042.41	770,012.60	32.138874	-103.594537
2,900.00	1.48	180.00	2,899.86	-11.65	0.00	415,039.82	770,012.60	32.138867	-103.594537
3,000.00	1.48	180.00	2,999.82	-14.23	0.00	415,037.24	770,012.60	32.138860	-103.594537
3,100.00	1.48	180.00	3,099.79	-16.82	0.00	415,034.65	770,012.60	32.138853	-103.594537
3,200.00	1.48	180.00	3,199.75	-19.40	0.00	415,032.07	770,012.60	32.138846	-103.594537
3,300.00	1.48	180.00	3,299.72	-21.99	0.00	415,029.48	770,012.60	32.138839	-103.594537
3,400.00	1.48	180.00	3,399.69	-24.57	0.00	415,026.90	770,012.60	32.138832	-103.594537
3,500.00	1.48	180.00	3,499.65	-27.16	0.00	415,024.31	770,012.60	32.138825	-103.594537
3,600.00	1.48	180.00	3,599.62	-29.74	0.00	415,021.73	770,012.60	32.138817	-103.594537
3,700.00	1.48	180.00	3,699.59	-32.33	0.00	415,019.14	770,012.60	32.138810	-103.594537
3,800.00	1.48	180.00	3,799.55	-34.91	0.00	415,016.56	770,012.60	32.138803	-103.594537
3,900.00	1.48	180.00	3,899.52	-37.50	0.00	415,013.97	770,012.60	32.138796	-103.594537
4,000.00	1.48	180.00	3,999.49	-40.08	0.00	415,011.39	770,012.60	32.138789	-103.594537
4,100.00	1.48	180.00	4,099.45	-42.67	0.00	415,008.80	770,012.60	32.138782	-103.594538
4,200.00	1.48	180.00	4,199.42	-45.25	0.00	415,006.22	770,012.60	32.138775	-103.594538
4,300.00	1.48	180.00	4,299.39	-47.83	0.00	415,003.63	770,012.60	32.138768	-103.594538
4,400.00	1.48	180.00	4,399.35	-50.42	0.00	415,001.05	770,012.60	32.138761	-103.594538
4,500.00	1.48	180.00	4,499.32	-53.00	0.00	414,998.46	770,012.60	32.138753	-103.594538
4,600.00	1.48	180.00	4,599.29	-55.59	0.00	414,995.88	770,012.60	32.138746	-103.594538
4,700.00	1.48	180.00	4,699.25	-58.17	0.00	414,993.30	770,012.60	32.138739	-103.594538
4,800.00	1.48	180.00	4,799.22	-60.76	0.00	414,990.71	770,012.60	32.138732	-103.594538
4,900.00	1.48	180.00	4,899.19	-63.34	0.00	414,988.13	770,012.60	32.138725	-103.594538
5,000.00	1.48	180.00	4,999.15	-65.93	0.00	414,985.54	770,012.60	32.138718	-103.594538

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Wellbore:	Wellbore #1		
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Planned Survey									
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5,100.00	1.48	180.00	5,099.12	-68.51	0.00	414,982.96	770,012.60	32.138711	-103.594538
5,200.00	1.48	180.00	5,199.09	-71.10	0.00	414,980.37	770,012.60	32.138704	-103.594538
5,300.00	1.48	180.00	5,299.05	-73.68	0.00	414,977.79	770,012.60	32.138697	-103.594538
5,400.00	1.48	180.00	5,399.02	-76.27	0.00	414,975.20	770,012.60	32.138690	-103.594538
5,500.00	1.48	180.00	5,498.99	-78.85	0.00	414,972.62	770,012.60	32.138682	-103.594538
5,600.00	1.48	180.00	5,598.95	-81.44	0.00	414,970.03	770,012.60	32.138675	-103.594538
5,700.00	1.48	180.00	5,698.92	-84.02	0.00	414,967.45	770,012.60	32.138668	-103.594538
5,800.00	1.48	180.00	5,798.89	-86.61	0.00	414,964.86	770,012.60	32.138661	-103.594539
5,900.00	1.48	180.00	5,898.85	-89.19	0.00	414,962.28	770,012.60	32.138654	-103.594539
6,000.00	1.48	180.00	5,998.82	-91.78	0.00	414,959.69	770,012.60	32.138647	-103.594539
6,100.00	1.48	180.00	6,098.79	-94.36	0.00	414,957.11	770,012.60	32.138640	-103.594539
6,200.00	1.48	180.00	6,198.75	-96.95	0.00	414,954.52	770,012.60	32.138633	-103.594539
6,300.00	1.48	180.00	6,298.72	-99.53	0.00	414,951.94	770,012.60	32.138626	-103.594539
6,400.00	1.48	180.00	6,398.69	-102.12	0.00	414,949.35	770,012.60	32.138619	-103.594539
6,500.00	1.48	180.00	6,498.65	-104.70	0.00	414,946.77	770,012.60	32.138611	-103.594539
6,600.00	1.48	180.00	6,598.62	-107.28	0.00	414,944.18	770,012.60	32.138604	-103.594539
6,700.00	1.48	180.00	6,698.59	-109.87	0.00	414,941.60	770,012.60	32.138597	-103.594539
6,800.00	1.48	180.00	6,798.55	-112.45	0.00	414,939.02	770,012.60	32.138590	-103.594539
6,900.00	1.48	180.00	6,898.52	-115.04	0.00	414,936.43	770,012.60	32.138583	-103.594539
7,000.00	1.48	180.00	6,998.49	-117.62	0.00	414,933.85	770,012.60	32.138576	-103.594539
7,100.00	1.48	180.00	7,098.45	-120.21	0.00	414,931.26	770,012.60	32.138569	-103.594539
7,200.00	1.48	180.00	7,198.42	-122.79	0.00	414,928.68	770,012.60	32.138562	-103.594539
7,300.00	1.48	180.00	7,298.39	-125.38	0.00	414,926.09	770,012.60	32.138555	-103.594539
7,400.00	1.48	180.00	7,398.35	-127.96	0.00	414,923.51	770,012.60	32.138547	-103.594539
7,500.00	1.48	180.00	7,498.32	-130.55	0.00	414,920.92	770,012.60	32.138540	-103.594539
7,600.00	1.48	180.00	7,598.28	-133.13	0.00	414,918.34	770,012.60	32.138533	-103.594540
7,700.00	1.48	180.00	7,698.25	-135.72	0.00	414,915.75	770,012.60	32.138526	-103.594540
7,800.00	1.48	180.00	7,798.22	-138.30	0.00	414,913.17	770,012.60	32.138519	-103.594540
7,900.00	1.48	180.00	7,898.18	-140.89	0.00	414,910.58	770,012.60	32.138512	-103.594540
8,000.00	1.48	180.00	7,998.15	-143.47	0.00	414,908.00	770,012.60	32.138505	-103.594540
8,100.00	1.48	180.00	8,098.12	-146.06	0.00	414,905.41	770,012.60	32.138498	-103.594540
8,200.00	1.48	180.00	8,198.08	-148.64	0.00	414,902.83	770,012.60	32.138491	-103.594540
8,203.19	1.48	180.00	8,201.27	-148.72	0.00	414,902.75	770,012.60	32.138490	-103.594540
EOH									
8,300.00	0.03	180.00	8,298.07	-150.00	0.00	414,901.47	770,012.60	32.138487	-103.594540
8,301.93	0.00	0.00	8,300.00	-150.00	0.00	414,901.47	770,012.60	32.138487	-103.594540
Drop to Vertical									
8,400.00	0.00	0.00	8,398.07	-150.00	0.00	414,901.47	770,012.60	32.138487	-103.594540
8,500.00	0.00	0.00	8,498.07	-150.00	0.00	414,901.47	770,012.60	32.138487	-103.594540
8,600.00	0.00	0.00	8,598.07	-150.00	0.00	414,901.47	770,012.60	32.138487	-103.594540
8,700.00	0.00	0.00	8,698.07	-150.00	0.00	414,901.47	770,012.60	32.138487	-103.594540
8,800.00	0.00	0.00	8,798.07	-150.00	0.00	414,901.47	770,012.60	32.138487	-103.594540
8,803.97	0.00	0.00	8,802.04	-150.00	0.00	414,901.47	770,012.60	32.138487	-103.594540
KOP @ 8804' MD, 230' FSL, 2570' FWL									
8,900.00	9.60	357.99	8,897.62	-141.98	-0.28	414,909.49	770,012.32	32.138509	-103.594541
9,000.00	19.60	357.99	8,994.27	-116.81	-1.17	414,934.66	770,011.43	32.138578	-103.594543
9,100.00	29.60	357.99	9,085.08	-75.26	-2.63	414,976.21	770,009.97	32.138692	-103.594547
9,147.72	34.38	357.99	9,125.54	-50.00	-3.51	415,001.47	770,009.08	32.138762	-103.594549
1st Take Point @ 9148' MD, 330' FSL, 2566' FWL									
9,200.00	39.60	357.99	9,167.28	-18.57	-4.62	415,032.90	770,007.98	32.138848	-103.594552
9,300.00	49.60	357.99	9,238.39	51.51	-7.08	415,102.98	770,005.52	32.139041	-103.594558
9,400.00	59.60	357.99	9,296.24	132.88	-9.94	415,184.34	770,002.66	32.139265	-103.594566
9,500.00	69.60	357.99	9,339.07	223.04	-13.11	415,274.51	769,999.49	32.139513	-103.594574
9,600.00	79.60	357.99	9,365.59	319.27	-16.49	415,370.74	769,996.11	32.139777	-103.594583

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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
9,700.00	89.60	357.99	9,374.98	418.64	-19.98	415,470.11	769,992.62	32.140050	-103.594592
9,703.97	90.00	357.99	9,375.00	422.61	-20.12	415,474.08	769,992.48	32.140061	-103.594592
Land Point									
9,800.00	90.00	357.99	9,375.00	518.58	-23.49	415,570.05	769,989.11	32.140325	-103.594601
9,900.00	90.00	357.99	9,375.00	618.52	-27.00	415,669.98	769,985.60	32.140600	-103.594610
10,000.00	90.00	357.99	9,375.00	718.45	-30.51	415,769.92	769,982.09	32.140875	-103.594619
10,100.00	90.00	357.99	9,375.00	818.39	-34.02	415,869.86	769,978.57	32.141149	-103.594628
10,200.00	90.00	357.99	9,375.00	918.33	-37.53	415,969.80	769,975.06	32.141424	-103.594638
10,300.00	90.00	357.99	9,375.00	1,018.27	-41.05	416,069.74	769,971.55	32.141699	-103.594647
10,400.00	90.00	357.99	9,375.00	1,118.21	-44.56	416,169.67	769,968.04	32.141974	-103.594656
10,500.00	90.00	357.99	9,375.00	1,218.15	-48.07	416,269.61	769,964.53	32.142248	-103.594665
10,600.00	90.00	357.99	9,375.00	1,318.08	-51.58	416,369.55	769,961.02	32.142523	-103.594674
10,700.00	90.00	357.99	9,375.00	1,418.02	-55.09	416,469.49	769,957.51	32.142798	-103.594683
10,800.00	90.00	357.99	9,375.00	1,517.96	-58.60	416,569.43	769,954.00	32.143073	-103.594692
10,900.00	90.00	357.99	9,375.00	1,617.90	-62.11	416,669.37	769,950.48	32.143347	-103.594701
11,000.00	90.00	357.99	9,375.00	1,717.84	-65.62	416,769.30	769,946.97	32.143622	-103.594711
11,100.00	90.00	357.99	9,375.00	1,817.78	-69.14	416,869.24	769,943.46	32.143897	-103.594720
11,200.00	90.00	357.99	9,375.00	1,917.71	-72.65	416,969.18	769,939.95	32.144172	-103.594729
11,300.00	90.00	357.99	9,375.00	2,017.65	-76.16	417,069.12	769,936.44	32.144447	-103.594738
11,400.00	90.00	357.99	9,375.00	2,117.59	-79.67	417,169.06	769,932.93	32.144721	-103.594747
11,500.00	90.00	357.99	9,375.00	2,217.53	-83.18	417,268.99	769,929.42	32.144996	-103.594756
11,600.00	90.00	357.99	9,375.00	2,317.47	-86.69	417,368.93	769,925.91	32.145271	-103.594765
11,700.00	90.00	357.99	9,375.00	2,417.41	-90.20	417,468.87	769,922.40	32.145546	-103.594774
11,800.00	90.00	357.99	9,375.00	2,517.34	-93.71	417,568.81	769,918.88	32.145820	-103.594784
11,900.00	90.00	357.99	9,375.00	2,617.28	-97.22	417,668.75	769,915.37	32.146095	-103.594793
12,000.00	90.00	357.99	9,375.00	2,717.22	-100.74	417,768.69	769,911.86	32.146370	-103.594802
12,100.00	90.00	357.99	9,375.00	2,817.16	-104.25	417,868.62	769,908.35	32.146645	-103.594811
12,200.00	90.00	357.99	9,375.00	2,917.10	-107.76	417,968.56	769,904.84	32.146919	-103.594820
12,300.00	90.00	357.99	9,375.00	3,017.04	-111.27	418,068.50	769,901.33	32.147194	-103.594829
12,400.00	90.00	357.99	9,375.00	3,116.97	-114.78	418,168.44	769,897.82	32.147469	-103.594838
12,500.00	90.00	357.99	9,375.00	3,216.91	-118.29	418,268.38	769,894.31	32.147744	-103.594847
12,600.00	90.00	357.99	9,375.00	3,316.85	-121.80	418,368.31	769,890.79	32.148019	-103.594857
12,700.00	90.00	357.99	9,375.00	3,416.79	-125.31	418,468.25	769,887.28	32.148293	-103.594866
12,800.00	90.00	357.99	9,375.00	3,516.73	-128.83	418,568.19	769,883.77	32.148568	-103.594875
12,900.00	90.00	357.99	9,375.00	3,616.67	-132.34	418,668.13	769,880.26	32.148843	-103.594884
13,000.00	90.00	357.99	9,375.00	3,716.60	-135.85	418,768.07	769,876.75	32.149118	-103.594893
13,100.00	90.00	357.99	9,375.00	3,816.54	-139.36	418,868.00	769,873.24	32.149392	-103.594902
13,200.00	90.00	357.99	9,375.00	3,916.48	-142.87	418,967.94	769,869.73	32.149667	-103.594911
13,300.00	90.00	357.99	9,375.00	4,016.42	-146.38	419,067.88	769,866.22	32.149942	-103.594921
13,400.00	90.00	357.99	9,375.00	4,116.36	-149.89	419,167.82	769,862.70	32.150217	-103.594930
13,500.00	90.00	357.99	9,375.00	4,216.30	-153.40	419,267.76	769,859.19	32.150491	-103.594939
13,600.00	90.00	357.99	9,375.00	4,316.23	-156.92	419,367.70	769,855.68	32.150766	-103.594948
13,700.00	90.00	357.99	9,375.00	4,416.17	-160.43	419,467.63	769,852.17	32.151041	-103.594957
13,800.00	90.00	357.99	9,375.00	4,516.11	-163.94	419,567.57	769,848.66	32.151316	-103.594966
13,852.20	90.00	357.99	9,375.00	4,568.28	-165.77	419,619.74	769,846.83	32.151459	-103.594971
PBHL; 330' FNL, 2435' FWL									

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Flagler 8 Fed 39H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3471.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3471.80ft
Site:	Sec 08-T25S-R33E	North Reference:	Grid
Well:	Flagler 8 Fed 39H	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 39	0.00	0.00	0.00	4,568.28	-165.77	419,619.74	769,846.83	32.151459	-103.594971
- plan misses target center by 4571.29ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
PBHL - Flagler 39H (fool	0.00	0.00	0.00	4,573.07	257.79	419,624.53	770,270.38	32.151464	-103.593602
- plan misses target center by 4580.33ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Original VP - Flagler 39H	0.00	0.00	8,300.00	-180.00	-165.77	414,871.47	769,846.83	32.138408	-103.595076
- plan misses target center by 168.46ft at 8301.93ft MD (8300.00 TVD, -150.00 N, 0.00 E)									
- Point									
Vertical Point - Flagler 8	0.00	0.00	8,300.00	-177.95	285.73	414,873.52	770,298.33	32.138405	-103.593617
- plan misses target center by 287.10ft at 8301.93ft MD (8300.00 TVD, -150.00 N, 0.00 E)									
- Point									
Flagler 8 Fed 39H - VP (	0.00	0.00	8,400.00	-179.61	29.16	414,871.86	770,041.76	32.138405	-103.594446
- plan misses target center by 41.56ft at 8401.93ft MD (8400.00 TVD, -150.00 N, 0.00 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
2,498.74	2,498.73	-1.28	0.00	EOB
8,203.19	8,201.27	-148.72	0.00	EOH
8,301.93	8,300.00	-150.00	0.00	Drop to Vertical
8,803.97	8,802.04	-150.00	0.00	KOP @ 8804' MD, 230' FSL, 2570' FWL
9,147.72	9,125.54	-50.00	-3.51	1st Take Point @ 9148' MD, 330' FSL, 2566' FWL
9,703.97	9,375.00	422.61	-20.12	Land Point
13,852.20	9,375.00	4,568.28	-165.77	PBHL; 330' FNL, 2435' FWL

WCDSC Permian NM

WELL DETAILS: Flagler 8 Fed 39H

RKB @ 3471.80ft
3446.80

Northing
415051.47

Easting
770012.60

Latitude
32.138899

Longitude
-103.594536



SECTION DETAILS				Permit Plan 1				
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	Begin Nudge
2498.74	1.48	180.00	2498.73	-1.28	0.00	1.50	-1.28	EOB
8203.19	1.48	180.00	8201.27	-148.72	0.00	0.00	-148.63	EOH
5 8301.93	0.00	0.00	8300.00	-150.00	0.00	1.50	-149.90	Drop to Vertical
6 8803.97	0.00	0.00	8802.04	-150.00	0.00	0.00	-149.90	KOP @ 8804' MD, 230' FSL, 2570' FWL
7 9703.97	90.00	357.99	9375.00	422.61	-20.12	10.00	423.06	Land Point
8 13852.20	90.00	357.99	9375.00	4568.28	-165.77	0.00	4571.29	PBHL; 330' FNL, 2435' FWL

