

Devon Energy

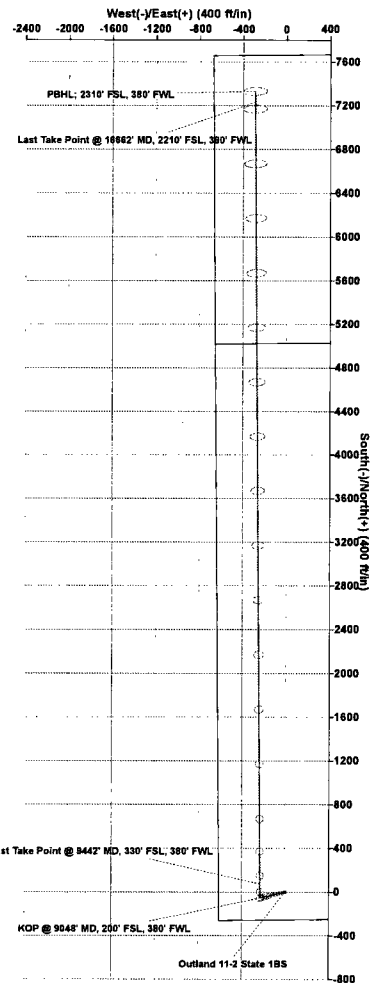
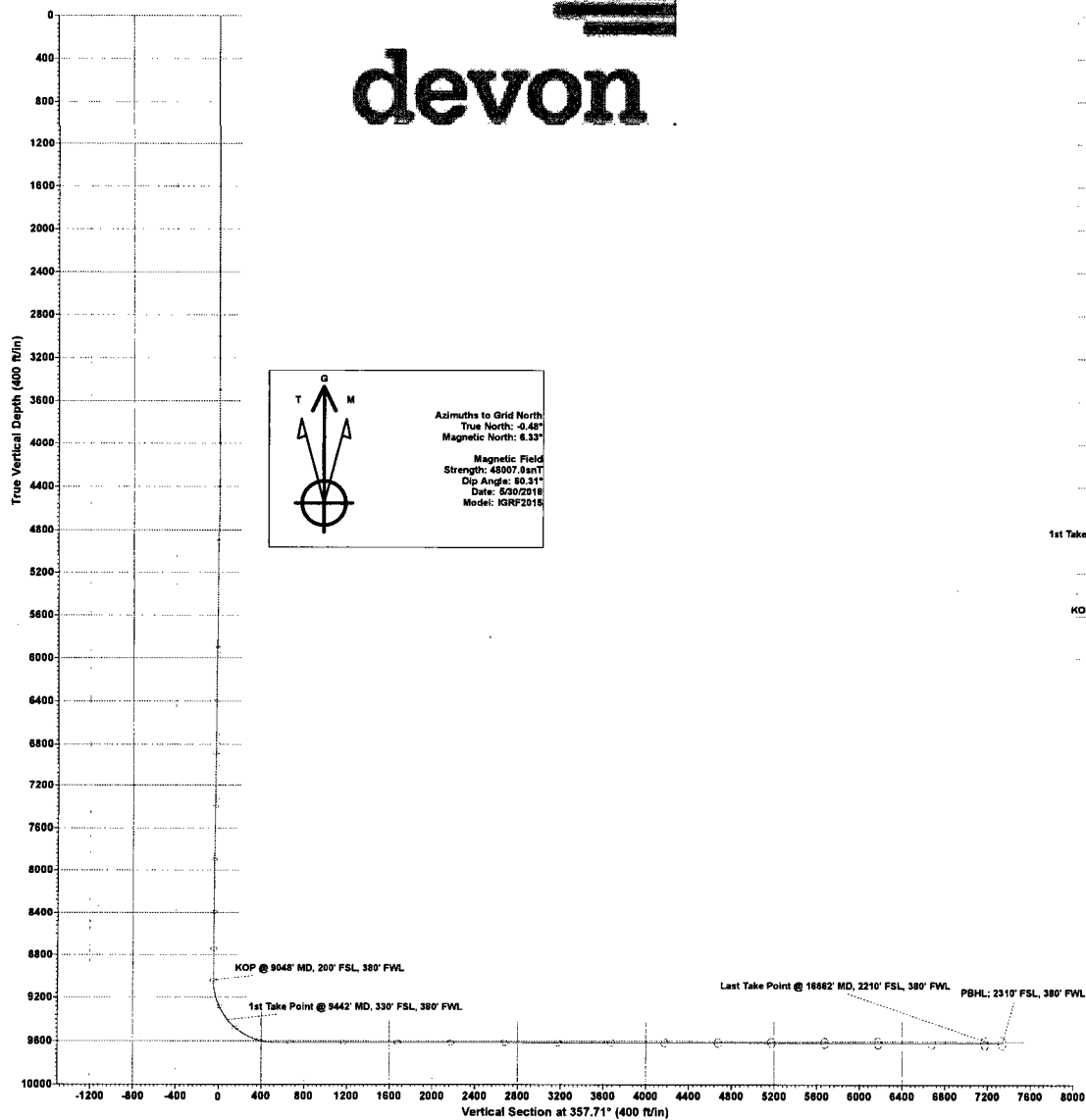
WELL DETAILS: Outland 11-2 State 1B5

RKB @ 3731.20ft
3706.20

Northing 542021.69 Easting 814561.90 Latitude 32.486960 Longitude -103.447230

SECTION DETAILS Permit Plan 1

	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	V/Sect	Annotation
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	
	4239.47	2.99	256.55	4239.36	-1.45	-6.08	1.25	-1.21	
	8548.52	2.99	256.55	8542.53	-53.79	-224.93	0.00	-44.77	
5	8748.08	0.00	0.00	8742.00	-55.00	-230.00	1.50	-45.78	
6	9048.12	0.00	0.00	9042.04	-55.00	-230.00	0.00	-45.78	KOP @ 9048' MD, 200' FSL, 380' FWL
7	9948.12	90.00	359.51	9615.00	517.94	-234.86	10.00	526.89	
8	16761.65	90.00	359.51	9615.00	7331.22	-292.60	0.00	7337.06	PBHL: 2310' FSL, 380' FWL



WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 11-T21S-R34E

Outland 11-2 State 1BS

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

30 May, 2018

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Outland 11-2 State 1BS
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3731.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3731.20ft
Site:	Sec 11-T21S-R34E	North Reference:	Grid
Well:	Outland 11-2 State 1BS	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 11-T21S-R34E		
Site Position:		Northing:	541,760.40 usft
From:	Map	Easting:	813,954.10 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	32.486256
		Longitude:	-103.449208
		Grid Convergence:	0.47 °

Well	Outland 11-2 State 1BS		
Well Position	+N/-S	0.00 ft	Northing: 542,021.69 usft
	+E/-W	0.00 ft	Easting: 814,561.90 usft
Position Uncertainty	0.50 ft	Wellhead Elevation:	Latitude: 32.486960
			Longitude: -103.447230
			Ground Level: 3,706.20 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	5/30/2018	6.81
			Dip Angle
			(°)
			60.31
			Field Strength
			(nT)
			48,007.01979737

Design	Permit Plan 1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			357.71

Plan Survey Tool Program	Date 5/30/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
1	0.00	16,761.65 Permit Plan 1 (Wellbore #1)	MWD+HDGM
			OWSG MWD + HDGM

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,239.47	2.99	256.55	4,239.36	-1.45	-6.08	1.25	1.25	0.00	256.55	
8,548.52	2.99	256.55	8,542.53	-53.79	-224.93	0.00	0.00	0.00	0.00	
8,748.08	0.00	0.00	8,742.00	-55.00	-230.00	1.50	-1.50	0.00	180.00	
9,048.12	0.00	0.00	9,042.04	-55.00	-230.00	0.00	0.00	0.00	0.00	
9,948.12	90.00	359.51	9,615.00	517.94	-234.86	10.00	10.00	0.00	359.51	PBHL - Outland 11-2 :
16,761.65	90.00	359.51	9,615.00	7,331.22	-292.60	0.00	0.00	0.00	0.00	PBHL - Outland 11-2 :

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Outland 11-2 State 1BS
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3731.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3731.20ft
Site:	Sec 11-T21S-R34E	North Reference:	Grid
Well:	Outland 11-2 State 1BS	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	542,021.69	814,561.90	32.486960	-103.447230
100.00	0.00	0.00	100.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
200.00	0.00	0.00	200.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
300.00	0.00	0.00	300.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
400.00	0.00	0.00	400.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
500.00	0.00	0.00	500.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
600.00	0.00	0.00	600.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
700.00	0.00	0.00	700.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
800.00	0.00	0.00	800.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
900.00	0.00	0.00	900.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
1,000.00	0.00	0.00	1,000.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
1,100.00	0.00	0.00	1,100.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
1,200.00	0.00	0.00	1,200.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
1,300.00	0.00	0.00	1,300.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
1,400.00	0.00	0.00	1,400.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
1,500.00	0.00	0.00	1,500.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
1,600.00	0.00	0.00	1,600.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
1,700.00	0.00	0.00	1,700.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
1,800.00	0.00	0.00	1,800.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
1,900.00	0.00	0.00	1,900.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
2,000.00	0.00	0.00	2,000.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
2,100.00	0.00	0.00	2,100.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
2,200.00	0.00	0.00	2,200.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
2,300.00	0.00	0.00	2,300.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
2,400.00	0.00	0.00	2,400.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
2,500.00	0.00	0.00	2,500.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
2,600.00	0.00	0.00	2,600.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
2,700.00	0.00	0.00	2,700.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
2,800.00	0.00	0.00	2,800.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
2,900.00	0.00	0.00	2,900.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
3,000.00	0.00	0.00	3,000.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
3,100.00	0.00	0.00	3,100.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
3,200.00	0.00	0.00	3,200.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
3,300.00	0.00	0.00	3,300.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
3,400.00	0.00	0.00	3,400.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
3,500.00	0.00	0.00	3,500.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
3,600.00	0.00	0.00	3,600.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
3,700.00	0.00	0.00	3,700.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
3,800.00	0.00	0.00	3,800.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
3,900.00	0.00	0.00	3,900.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
4,000.00	0.00	0.00	4,000.00	0.00	0.00	542,021.69	814,561.90	32.486960	-103.447230
4,100.00	1.25	256.55	4,099.99	-0.25	-1.06	542,021.44	814,560.84	32.486959	-103.447234
4,200.00	2.50	256.55	4,199.94	-1.01	-4.24	542,020.68	814,557.66	32.486957	-103.447244
4,239.47	2.99	256.55	4,239.36	-1.45	-6.08	542,020.24	814,555.82	32.486956	-103.447250
4,300.00	2.99	256.55	4,299.81	-2.19	-9.16	542,019.51	814,552.74	32.486954	-103.447260
4,400.00	2.99	256.55	4,399.67	-3.40	-14.24	542,018.29	814,547.66	32.486951	-103.447277
4,500.00	2.99	256.55	4,499.54	-4.62	-19.31	542,017.08	814,542.59	32.486948	-103.447293
4,600.00	2.99	256.55	4,599.40	-5.83	-24.39	542,015.86	814,537.51	32.486945	-103.447310
4,700.00	2.99	256.55	4,699.26	-7.05	-29.47	542,014.65	814,532.43	32.486941	-103.447326
4,800.00	2.99	256.55	4,799.13	-8.26	-34.55	542,013.43	814,527.35	32.486938	-103.447343
4,900.00	2.99	256.55	4,898.99	-9.48	-39.63	542,012.22	814,522.27	32.486935	-103.447359
5,000.00	2.99	256.55	4,998.85	-10.69	-44.71	542,011.00	814,517.19	32.486932	-103.447376
5,100.00	2.99	256.55	5,098.72	-11.91	-49.79	542,009.79	814,512.11	32.486928	-103.447392
5,200.00	2.99	256.55	5,198.58	-13.12	-54.87	542,008.57	814,507.03	32.486925	-103.447409

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Outland 11-2 State 1BS
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3731.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3731.20ft
Site:	Sec 11-T21S-R34E	North Reference:	Grid
Well:	Outland 11-2 State 1BS	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
5,300.00	2.99	256.55	5,298.44	-14.33	-59.94	542,007.36	814,501.96	32.486922	-103.447425
5,400.00	2.99	256.55	5,398.31	-15.55	-65.02	542,006.15	814,496.88	32.486919	-103.447442
5,500.00	2.99	256.55	5,498.17	-16.76	-70.10	542,004.93	814,491.80	32.486916	-103.447458
5,600.00	2.99	256.55	5,598.03	-17.98	-75.18	542,003.72	814,486.72	32.486912	-103.447475
5,700.00	2.99	256.55	5,697.90	-19.19	-80.26	542,002.50	814,481.64	32.486909	-103.447491
5,800.00	2.99	256.55	5,797.76	-20.41	-85.34	542,001.29	814,476.56	32.486906	-103.447508
5,900.00	2.99	256.55	5,897.63	-21.62	-90.42	542,000.07	814,471.48	32.486903	-103.447524
6,000.00	2.99	256.55	5,997.49	-22.84	-95.50	541,998.86	814,466.40	32.486899	-103.447541
6,100.00	2.99	256.55	6,097.35	-24.05	-100.58	541,997.64	814,461.32	32.486896	-103.447557
6,200.00	2.99	256.55	6,197.22	-25.27	-105.65	541,996.43	814,456.25	32.486893	-103.447574
6,300.00	2.99	256.55	6,297.08	-26.48	-110.73	541,995.22	814,451.17	32.486890	-103.447590
6,400.00	2.99	256.55	6,396.94	-27.69	-115.81	541,994.00	814,446.09	32.486887	-103.447607
6,500.00	2.99	256.55	6,496.81	-28.91	-120.89	541,992.79	814,441.01	32.486883	-103.447623
6,600.00	2.99	256.55	6,596.67	-30.12	-125.97	541,991.57	814,435.93	32.486880	-103.447640
6,700.00	2.99	256.55	6,696.53	-31.34	-131.05	541,990.36	814,430.85	32.486877	-103.447656
6,800.00	2.99	256.55	6,796.40	-32.55	-136.13	541,989.14	814,425.77	32.486874	-103.447673
6,900.00	2.99	256.55	6,896.26	-33.77	-141.21	541,987.93	814,420.69	32.486870	-103.447689
7,000.00	2.99	256.55	6,996.12	-34.98	-146.28	541,986.71	814,415.62	32.486867	-103.447706
7,100.00	2.99	256.55	7,095.99	-36.20	-151.36	541,985.50	814,410.54	32.486864	-103.447722
7,200.00	2.99	256.55	7,195.85	-37.41	-156.44	541,984.28	814,405.46	32.486861	-103.447739
7,300.00	2.99	256.55	7,295.72	-38.62	-161.52	541,983.07	814,400.38	32.486858	-103.447755
7,400.00	2.99	256.55	7,395.58	-39.84	-166.60	541,981.86	814,395.30	32.486854	-103.447772
7,500.00	2.99	256.55	7,495.44	-41.05	-171.68	541,980.64	814,390.22	32.486851	-103.447788
7,600.00	2.99	256.55	7,595.31	-42.27	-176.76	541,979.43	814,385.14	32.486848	-103.447805
7,700.00	2.99	256.55	7,695.17	-43.48	-181.84	541,978.21	814,380.06	32.486845	-103.447821
7,800.00	2.99	256.55	7,795.03	-44.70	-186.92	541,977.00	814,374.99	32.486842	-103.447838
7,900.00	2.99	256.55	7,894.90	-45.91	-191.99	541,975.78	814,369.91	32.486838	-103.447854
8,000.00	2.99	256.55	7,994.76	-47.13	-197.07	541,974.57	814,364.83	32.486835	-103.447871
8,100.00	2.99	256.55	8,094.62	-48.34	-202.15	541,973.35	814,359.75	32.486832	-103.447887
8,200.00	2.99	256.55	8,194.49	-49.56	-207.23	541,972.14	814,354.67	32.486829	-103.447904
8,300.00	2.99	256.55	8,294.35	-50.77	-212.31	541,970.93	814,349.59	32.486825	-103.447920
8,400.00	2.99	256.55	8,394.21	-51.98	-217.39	541,969.71	814,344.51	32.486822	-103.447937
8,500.00	2.99	256.55	8,494.08	-53.20	-222.47	541,968.50	814,339.43	32.486819	-103.447953
8,548.52	2.99	256.55	8,542.53	-53.79	-224.93	541,967.91	814,336.97	32.486817	-103.447961
8,600.00	2.22	256.55	8,593.96	-54.33	-227.21	541,967.36	814,334.69	32.486816	-103.447969
8,700.00	0.72	256.55	8,693.92	-54.93	-229.71	541,966.77	814,332.19	32.486814	-103.447977
8,748.08	0.00	0.00	8,742.00	-55.00	-230.00	541,966.70	814,331.90	32.486814	-103.447978
8,800.00	0.00	0.00	8,793.92	-55.00	-230.00	541,966.70	814,331.90	32.486814	-103.447978
8,900.00	0.00	0.00	8,893.92	-55.00	-230.00	541,966.70	814,331.90	32.486814	-103.447978
9,000.00	0.00	0.00	8,993.92	-55.00	-230.00	541,966.70	814,331.90	32.486814	-103.447978
9,048.12	0.00	0.00	9,042.04	-55.00	-230.00	541,966.70	814,331.90	32.486814	-103.447978
KOP @ 9048' MD, 200' FSL, 380' FWL									
9,100.00	5.19	359.51	9,093.85	-52.65	-230.02	541,969.04	814,331.88	32.486821	-103.447978
9,200.00	15.19	359.51	9,192.15	-34.99	-230.17	541,986.71	814,331.73	32.486869	-103.447978
9,300.00	25.19	359.51	9,285.89	-0.52	-230.46	542,021.17	814,331.44	32.486964	-103.447978
9,400.00	35.19	359.51	9,372.21	49.70	-230.89	542,071.39	814,331.01	32.487102	-103.447978
9,441.79	39.37	359.51	9,405.46	75.00	-231.10	542,096.70	814,330.80	32.487171	-103.447978
1st Take Point @ 9442' MD, 330' FSL, 380' FWL									
9,500.00	45.19	359.51	9,448.51	114.14	-231.43	542,135.84	814,330.47	32.487279	-103.447978
9,600.00	55.19	359.51	9,512.46	190.86	-232.08	542,212.55	814,329.82	32.487490	-103.447978
9,700.00	65.19	359.51	9,562.11	277.51	-232.82	542,299.20	814,329.08	32.487728	-103.447978
9,800.00	75.19	359.51	9,595.96	371.47	-233.61	542,393.16	814,328.29	32.487986	-103.447978
9,900.00	85.19	359.51	9,612.98	469.88	-234.45	542,491.57	814,327.45	32.488257	-103.447978

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Outland 11-2 State 1BS
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3731.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3731.20ft
Site:	Sec 11-T21S-R34E	North Reference:	Grid
Well:	Outland 11-2 State 1BS	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
9,948.12	90.00	359.51	9,615.00	517.94	-234.86	542,539.63	814,327.04	32.488389		-103.447978
10,000.00	90.00	359.51	9,615.00	569.82	-235.30	542,591.51	814,326.60	32.488532		-103.447978
10,100.00	90.00	359.51	9,615.00	669.81	-236.14	542,691.51	814,325.76	32.488806		-103.447978
10,200.00	90.00	359.51	9,615.00	769.81	-236.99	542,791.50	814,324.91	32.489081		-103.447978
10,300.00	90.00	359.51	9,615.00	869.80	-237.84	542,891.50	814,324.06	32.489356		-103.447978
10,400.00	90.00	359.51	9,615.00	969.80	-238.69	542,991.49	814,323.21	32.489631		-103.447978
10,500.00	90.00	359.51	9,615.00	1,069.80	-239.53	543,091.49	814,322.37	32.489906		-103.447978
10,600.00	90.00	359.51	9,615.00	1,169.79	-240.38	543,191.49	814,321.52	32.490181		-103.447978
10,700.00	90.00	359.51	9,615.00	1,269.79	-241.23	543,291.48	814,320.67	32.490456		-103.447978
10,800.00	90.00	359.51	9,615.00	1,369.79	-242.08	543,391.48	814,319.82	32.490730		-103.447979
10,900.00	90.00	359.51	9,615.00	1,469.78	-242.92	543,491.48	814,318.98	32.491005		-103.447979
11,000.00	90.00	359.51	9,615.00	1,569.78	-243.77	543,591.47	814,318.13	32.491280		-103.447979
11,100.00	90.00	359.51	9,615.00	1,669.78	-244.62	543,691.47	814,317.28	32.491555		-103.447979
11,200.00	90.00	359.51	9,615.00	1,769.77	-245.47	543,791.46	814,316.43	32.491830		-103.447979
11,300.00	90.00	359.51	9,615.00	1,869.77	-246.31	543,891.46	814,315.59	32.492105		-103.447979
11,400.00	90.00	359.51	9,615.00	1,969.77	-247.16	543,991.46	814,314.74	32.492380		-103.447979
11,500.00	90.00	359.51	9,615.00	2,069.76	-248.01	544,091.45	814,313.89	32.492654		-103.447979
11,600.00	90.00	359.51	9,615.00	2,169.76	-248.86	544,191.45	814,313.04	32.492929		-103.447979
11,700.00	90.00	359.51	9,615.00	2,269.75	-249.70	544,291.45	814,312.20	32.493204		-103.447979
11,800.00	90.00	359.51	9,615.00	2,369.75	-250.55	544,391.44	814,311.35	32.493479		-103.447979
11,900.00	90.00	359.51	9,615.00	2,469.75	-251.40	544,491.44	814,310.50	32.493754		-103.447979
12,000.00	90.00	359.51	9,615.00	2,569.74	-252.25	544,591.43	814,309.65	32.494029		-103.447979
12,100.00	90.00	359.51	9,615.00	2,669.74	-253.09	544,691.43	814,308.81	32.494304		-103.447979
12,200.00	90.00	359.51	9,615.00	2,769.74	-253.94	544,791.43	814,307.96	32.494578		-103.447979
12,300.00	90.00	359.51	9,615.00	2,869.73	-254.79	544,891.42	814,307.11	32.494853		-103.447979
12,400.00	90.00	359.51	9,615.00	2,969.73	-255.64	544,991.42	814,306.26	32.495128		-103.447979
12,500.00	90.00	359.51	9,615.00	3,069.73	-256.48	545,091.41	814,305.42	32.495403		-103.447980
12,600.00	90.00	359.51	9,615.00	3,169.72	-257.33	545,191.41	814,304.57	32.495678		-103.447980
12,700.00	90.00	359.51	9,615.00	3,269.72	-258.18	545,291.41	814,303.72	32.495953		-103.447980
12,800.00	90.00	359.51	9,615.00	3,369.72	-259.03	545,391.40	814,302.87	32.496228		-103.447980
12,900.00	90.00	359.51	9,615.00	3,469.71	-259.87	545,491.40	814,302.03	32.496502		-103.447980
13,000.00	90.00	359.51	9,615.00	3,569.71	-260.72	545,591.40	814,301.18	32.496777		-103.447980
13,100.00	90.00	359.51	9,615.00	3,669.70	-261.57	545,691.39	814,300.33	32.497052		-103.447980
13,200.00	90.00	359.51	9,615.00	3,769.70	-262.42	545,791.39	814,299.48	32.497327		-103.447980
13,300.00	90.00	359.51	9,615.00	3,869.70	-263.26	545,891.38	814,298.64	32.497602		-103.447980
13,400.00	90.00	359.51	9,615.00	3,969.69	-264.11	545,991.38	814,297.79	32.497877		-103.447980
13,500.00	90.00	359.51	9,615.00	4,069.69	-264.96	546,091.38	814,296.94	32.498151		-103.447980
13,600.00	90.00	359.51	9,615.00	4,169.69	-265.81	546,191.37	814,296.09	32.498426		-103.447980
13,700.00	90.00	359.51	9,615.00	4,269.68	-266.65	546,291.37	814,295.25	32.498701		-103.447980
13,800.00	90.00	359.51	9,615.00	4,369.68	-267.50	546,391.37	814,294.40	32.498976		-103.447980
13,900.00	90.00	359.51	9,615.00	4,469.68	-268.35	546,491.36	814,293.55	32.499251		-103.447980
14,000.00	90.00	359.51	9,615.00	4,569.67	-269.20	546,591.36	814,292.70	32.499526		-103.447980
14,100.00	90.00	359.51	9,615.00	4,669.67	-270.04	546,691.35	814,291.86	32.499801		-103.447980
14,200.00	90.00	359.51	9,615.00	4,769.66	-270.89	546,791.35	814,291.01	32.500075		-103.447980
14,300.00	90.00	359.51	9,615.00	4,869.66	-271.74	546,891.35	814,290.16	32.500350		-103.447981
14,400.00	90.00	359.51	9,615.00	4,969.66	-272.59	546,991.34	814,289.31	32.500625		-103.447981
14,500.00	90.00	359.51	9,615.00	5,069.65	-273.43	547,091.34	814,288.47	32.500900		-103.447981
14,600.00	90.00	359.51	9,615.00	5,169.65	-274.28	547,191.34	814,287.62	32.501175		-103.447981
14,700.00	90.00	359.51	9,615.00	5,269.65	-275.13	547,291.33	814,286.77	32.501450		-103.447981
14,800.00	90.00	359.51	9,615.00	5,369.64	-275.98	547,391.33	814,285.92	32.501725		-103.447981
14,900.00	90.00	359.51	9,615.00	5,469.64	-276.82	547,491.32	814,285.08	32.501999		-103.447981
15,000.00	90.00	359.51	9,615.00	5,569.64	-277.67	547,591.32	814,284.23	32.502274		-103.447981
15,100.00	90.00	359.51	9,615.00	5,669.63	-278.52	547,691.32	814,283.38	32.502549		-103.447981
15,200.00	90.00	359.51	9,615.00	5,769.63	-279.37	547,791.31	814,282.53	32.502824		-103.447981

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Outland 11-2 State 1BS
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3731.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3731.20ft
Site:	Sec 11-T21S-R34E	North Reference:	Grid
Well:	Outland 11-2 State 1BS	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	
15,300.00	90.00	359.51	9,615.00	5,869.63	-280.21	547,891.31	814,281.69	32.503099	-103.447981	
15,400.00	90.00	359.51	9,615.00	5,969.62	-281.06	547,991.30	814,280.84	32.503374	-103.447981	
15,500.00	90.00	359.51	9,615.00	6,069.62	-281.91	548,091.30	814,279.99	32.503649	-103.447981	
15,600.00	90.00	359.51	9,615.00	6,169.61	-282.76	548,191.30	814,279.14	32.503923	-103.447981	
15,700.00	90.00	359.51	9,615.00	6,269.61	-283.60	548,291.29	814,278.30	32.504198	-103.447981	
15,800.00	90.00	359.51	9,615.00	6,369.61	-284.45	548,391.29	814,277.45	32.504473	-103.447981	
15,900.00	90.00	359.51	9,615.00	6,469.60	-285.30	548,491.29	814,276.60	32.504748	-103.447981	
16,000.00	90.00	359.51	9,615.00	6,569.60	-286.15	548,591.28	814,275.75	32.505023	-103.447981	
16,100.00	90.00	359.51	9,615.00	6,669.60	-286.99	548,691.28	814,274.91	32.505298	-103.447982	
16,200.00	90.00	359.51	9,615.00	6,769.59	-287.84	548,791.27	814,274.06	32.505573	-103.447982	
16,300.00	90.00	359.51	9,615.00	6,869.59	-288.69	548,891.27	814,273.21	32.505847	-103.447982	
16,400.00	90.00	359.51	9,615.00	6,969.59	-289.54	548,991.27	814,272.36	32.506122	-103.447982	
16,500.00	90.00	359.51	9,615.00	7,069.58	-290.38	549,091.26	814,271.52	32.506397	-103.447982	
16,600.00	90.00	359.51	9,615.00	7,169.58	-291.23	549,191.26	814,270.67	32.506672	-103.447982	
16,661.65	90.00	359.51	9,615.00	7,231.23	-291.75	549,252.91	814,270.15	32.506841	-103.447982	
Last Take Point @ 16662' MD, 2210' FSL, 380' FWL										
16,700.00	90.00	359.51	9,615.00	7,269.58	-292.08	549,291.26	814,269.82	32.506947	-103.447982	
16,761.65	90.00	359.51	9,615.00	7,331.22	-292.60	549,352.90	814,269.30	32.507116	-103.447982	
PBHL; 2310' FSL, 380' FWL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
- hit/miss target										
- Shape										
PBHL - Outland 11-2 Sta	0.00	0.00	0.00	7,331.22	-292.60	549,352.90	814,269.30	32.507116	-103.447982	
- plan misses target center by 7337.06ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)										
- Point										

Formations							
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction		
1,769.20	1,769.20	Rustler		0.00			
2,134.20	2,134.20	Salado		0.00			
3,827.20	3,827.20	Yates		0.00			
4,067.20	4,067.20	Capitan		0.00			
5,619.19	5,617.20	Delaware		0.00			
5,634.21	5,632.20	Cherry Canyon		0.00			
6,610.54	6,607.20	Brushy Canyon		0.00			
8,222.74	8,217.20	1st BSPG Lime		0.00			

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference	Well Outland 11-2 State 1BS
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3731.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3731.20ft
Site:	Sec 11-T21S-R34E	North Reference:	Grid
Well:	Outland 11-2 State 1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
9,048.12	9,042.04	-55.00	-230.00	KOP @ 9048' MD, 200' FSL, 380' FWL
9,441.79	9,405.46	75.00	-231.10	1st Take Point @ 9442' MD, 330' FSL, 380' FWL
16,661.65	9,615.00	7,231.23	-291.75	Last Take Point @ 16662' MD, 2210' FSL, 380' FWL
16,761.65	9,615.00	7,331.22	-292.60	PBHL; 2310' FSL, 380' FWL