

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 07-T26S-R34E

Jayhawk 7 FED 11H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

24 July, 2018

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7 FED 11H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3352.90ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3352.90ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7 FED 11H	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 07-T26S-R34E			
Site Position:		Northing:	383,354.91 usft	Latitude:	32.051193
From:	Lat/Long	Easting:	799,057.94 usft	Longitude:	-103.501496
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.44 °

Well		Jayhawk 7 FED 11H				
Well Position	+N/-S	0.00 ft	Northing:	387,885.97 usft	Latitude:	32.063737
	+E/-W	0.00 ft	Easting:	794,824.32 usft	Longitude:	-103.515048
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,327.90 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/23/2018	6.80	59.91	47,736.67116711

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	168.72

Plan Survey Tool Program	Date	7/24/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,701.25 Permit Plan 1 (Wellbore #1)	MWD+HDGM	
			OWSG MWD + HDGM	

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	
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,961.00	9.61	60.70	5,956.50	39.35	70.11	1.00	1.00	0.00	60.70	
11,248.03	9.61	60.70	11,169.34	471.35	839.79	0.00	0.00	0.00	0.00	
11,888.69	0.00	0.00	11,807.00	497.58	886.53	1.50	-1.50	0.00	180.00	
12,238.73	0.00	0.00	12,157.04	497.58	886.53	0.00	0.00	0.00	0.00	
13,138.73	90.00	179.57	12,730.00	-75.36	890.78	10.00	10.00	0.00	179.57	PBHL - Jayhawk 7 FE
17,701.25	90.00	179.57	12,730.00	-4,637.75	924.67	0.00	0.00	0.00	0.00	PBHL - Jayhawk 7 FE

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Well:	Jayhawk 7 FED 11H	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	387,885.97	794,824.32	32.063737	-103.515048
100.00	0.00	0.00	100.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
200.00	0.00	0.00	200.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
300.00	0.00	0.00	300.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
400.00	0.00	0.00	400.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
500.00	0.00	0.00	500.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
600.00	0.00	0.00	600.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
700.00	0.00	0.00	700.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
800.00	0.00	0.00	800.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
900.00	0.00	0.00	900.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
1,000.00	0.00	0.00	1,000.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
1,100.00	0.00	0.00	1,100.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
1,200.00	0.00	0.00	1,200.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
1,300.00	0.00	0.00	1,300.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
1,400.00	0.00	0.00	1,400.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
1,500.00	0.00	0.00	1,500.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
1,600.00	0.00	0.00	1,600.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
1,700.00	0.00	0.00	1,700.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
1,800.00	0.00	0.00	1,800.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
1,900.00	0.00	0.00	1,900.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
2,000.00	0.00	0.00	2,000.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
2,100.00	0.00	0.00	2,100.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
2,200.00	0.00	0.00	2,200.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
2,300.00	0.00	0.00	2,300.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
2,400.00	0.00	0.00	2,400.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
2,500.00	0.00	0.00	2,500.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
2,600.00	0.00	0.00	2,600.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
2,700.00	0.00	0.00	2,700.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
2,800.00	0.00	0.00	2,800.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
2,900.00	0.00	0.00	2,900.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
3,000.00	0.00	0.00	3,000.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
3,100.00	0.00	0.00	3,100.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
3,200.00	0.00	0.00	3,200.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
3,300.00	0.00	0.00	3,300.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
3,400.00	0.00	0.00	3,400.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
3,500.00	0.00	0.00	3,500.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
3,600.00	0.00	0.00	3,600.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
3,700.00	0.00	0.00	3,700.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
3,800.00	0.00	0.00	3,800.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
3,900.00	0.00	0.00	3,900.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
4,000.00	0.00	0.00	4,000.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
4,100.00	0.00	0.00	4,100.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
4,200.00	0.00	0.00	4,200.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
4,300.00	0.00	0.00	4,300.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
4,400.00	0.00	0.00	4,400.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
4,500.00	0.00	0.00	4,500.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
4,600.00	0.00	0.00	4,600.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
4,700.00	0.00	0.00	4,700.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
4,800.00	0.00	0.00	4,800.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
4,900.00	0.00	0.00	4,900.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
5,000.00	0.00	0.00	5,000.00	0.00	0.00	387,885.97	794,824.32	32.063737	-103.515048
5,100.00	1.00	60.70	5,100.00	0.43	0.76	387,886.40	794,825.08	32.063738	-103.515046
5,200.00	2.00	60.70	5,199.96	1.71	3.04	387,887.68	794,827.36	32.063741	-103.515038
5,300.00	3.00	60.70	5,299.86	3.84	6.85	387,889.81	794,831.17	32.063747	-103.515026
5,400.00	4.00	60.70	5,399.68	6.83	12.17	387,892.80	794,836.49	32.063755	-103.515009

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Well:	Jayhawk 7 FED 11H	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
5,500.00	5.00	60.70	5,499.37	10.67	19.01	387,896.64	794,843.33	32.063766	-103.514987
5,600.00	6.00	60.70	5,598.90	15.36	27.37	387,901.33	794,851.69	32.063778	-103.514960
5,700.00	7.00	60.70	5,698.26	20.90	37.24	387,906.87	794,861.56	32.063793	-103.514928
5,800.00	8.00	60.70	5,797.40	27.29	48.62	387,913.26	794,872.94	32.063811	-103.514891
5,900.00	9.00	60.70	5,896.30	34.53	61.51	387,920.49	794,885.83	32.063830	-103.514849
5,961.00	9.61	60.70	5,956.50	39.35	70.11	387,925.32	794,894.43	32.063843	-103.514821
6,000.00	9.61	60.70	5,994.95	42.54	75.79	387,928.51	794,900.11	32.063852	-103.514803
6,100.00	9.61	60.70	6,093.55	50.71	90.35	387,936.68	794,914.67	32.063874	-103.514755
6,200.00	9.61	60.70	6,192.15	58.88	104.91	387,944.85	794,929.23	32.063896	-103.514708
6,300.00	9.61	60.70	6,290.74	67.05	119.47	387,953.02	794,943.78	32.063919	-103.514661
6,400.00	9.61	60.70	6,389.34	75.22	134.02	387,961.19	794,958.34	32.063941	-103.514614
6,500.00	9.61	60.70	6,487.94	83.39	148.58	387,969.36	794,972.90	32.063963	-103.514567
6,600.00	9.61	60.70	6,586.53	91.56	163.14	387,977.53	794,987.46	32.063985	-103.514520
6,700.00	9.61	60.70	6,685.13	99.74	177.70	387,985.70	795,002.01	32.064007	-103.514472
6,800.00	9.61	60.70	6,783.73	107.91	192.25	387,993.87	795,016.57	32.064029	-103.514425
6,900.00	9.61	60.70	6,882.32	116.08	206.81	388,002.05	795,031.13	32.064051	-103.514378
7,000.00	9.61	60.70	6,980.92	124.25	221.37	388,010.22	795,045.69	32.064074	-103.514331
7,100.00	9.61	60.70	7,079.52	132.42	235.93	388,018.39	795,060.24	32.064096	-103.514284
7,200.00	9.61	60.70	7,178.11	140.59	250.48	388,026.56	795,074.80	32.064118	-103.514236
7,300.00	9.61	60.70	7,276.71	148.76	265.04	388,034.73	795,089.36	32.064140	-103.514189
7,400.00	9.61	60.70	7,375.31	156.93	279.60	388,042.90	795,103.92	32.064162	-103.514142
7,500.00	9.61	60.70	7,473.90	165.10	294.16	388,051.07	795,118.48	32.064184	-103.514095
7,600.00	9.61	60.70	7,572.50	173.27	308.72	388,059.24	795,133.03	32.064207	-103.514048
7,700.00	9.61	60.70	7,671.10	181.44	323.27	388,067.41	795,147.59	32.064229	-103.514000
7,800.00	9.61	60.70	7,769.69	189.61	337.83	388,075.58	795,162.15	32.064251	-103.513953
7,900.00	9.61	60.70	7,868.29	197.79	352.39	388,083.75	795,176.71	32.064273	-103.513906
8,000.00	9.61	60.70	7,966.89	205.96	366.95	388,091.92	795,191.26	32.064295	-103.513859
8,100.00	9.61	60.70	8,065.48	214.13	381.50	388,100.10	795,205.82	32.064317	-103.513812
8,200.00	9.61	60.70	8,164.08	222.30	396.06	388,108.27	795,220.38	32.064339	-103.513764
8,300.00	9.61	60.70	8,262.68	230.47	410.62	388,116.44	795,234.94	32.064362	-103.513717
8,400.00	9.61	60.70	8,361.27	238.64	425.18	388,124.61	795,249.49	32.064384	-103.513670
8,500.00	9.61	60.70	8,459.87	246.81	439.74	388,132.78	795,264.05	32.064406	-103.513623
8,600.00	9.61	60.70	8,558.47	254.98	454.29	388,140.95	795,278.61	32.064428	-103.513576
8,700.00	9.61	60.70	8,657.06	263.15	468.85	388,149.12	795,293.17	32.064450	-103.513529
8,800.00	9.61	60.70	8,755.66	271.32	483.41	388,157.29	795,307.73	32.064472	-103.513481
8,900.00	9.61	60.70	8,854.26	279.49	497.97	388,165.46	795,322.28	32.064495	-103.513434
9,000.00	9.61	60.70	8,952.85	287.66	512.52	388,173.63	795,336.84	32.064517	-103.513387
9,100.00	9.61	60.70	9,051.45	295.84	527.08	388,181.80	795,351.40	32.064539	-103.513340
9,200.00	9.61	60.70	9,150.05	304.01	541.64	388,189.97	795,365.96	32.064561	-103.513293
9,300.00	9.61	60.70	9,248.64	312.18	556.20	388,198.14	795,380.51	32.064583	-103.513245
9,400.00	9.61	60.70	9,347.24	320.35	570.75	388,206.32	795,395.07	32.064605	-103.513198
9,500.00	9.61	60.70	9,445.84	328.52	585.31	388,214.49	795,409.63	32.064628	-103.513151
9,600.00	9.61	60.70	9,544.43	336.69	599.87	388,222.66	795,424.19	32.064650	-103.513104
9,700.00	9.61	60.70	9,643.03	344.86	614.43	388,230.83	795,438.74	32.064672	-103.513057
9,800.00	9.61	60.70	9,741.63	353.03	628.99	388,239.00	795,453.30	32.064694	-103.513009
9,900.00	9.61	60.70	9,840.22	361.20	643.54	388,247.17	795,467.86	32.064716	-103.512962
10,000.00	9.61	60.70	9,938.82	369.37	658.10	388,255.34	795,482.42	32.064738	-103.512915
10,100.00	9.61	60.70	10,037.42	377.54	672.66	388,263.51	795,496.98	32.064760	-103.512868
10,200.00	9.61	60.70	10,136.02	385.71	687.22	388,271.68	795,511.53	32.064783	-103.512821
10,300.00	9.61	60.70	10,234.61	393.88	701.77	388,279.85	795,526.09	32.064805	-103.512773
10,400.00	9.61	60.70	10,333.21	402.06	716.33	388,288.02	795,540.65	32.064827	-103.512726
10,500.00	9.61	60.70	10,431.81	410.23	730.89	388,296.19	795,555.21	32.064849	-103.512679
10,600.00	9.61	60.70	10,530.40	418.40	745.45	388,304.37	795,569.76	32.064871	-103.512632
10,700.00	9.61	60.70	10,629.00	426.57	760.01	388,312.54	795,584.32	32.064893	-103.512585
10,800.00	9.61	60.70	10,727.60	434.74	774.56	388,320.71	795,598.88	32.064916	-103.512538

Planning Report - Geographic

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Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3352.90ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3352.90ft
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Well:	Jayhawk 7 FED 11H	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
10,900.00	9.61	60.70	10,826.19	442.91	789.12	388,328.88	795,613.44	32.064938	-103.512490
11,000.00	9.61	60.70	10,924.79	451.08	803.68	388,337.05	795,627.99	32.064960	-103.512443
11,100.00	9.61	60.70	11,023.39	459.25	818.24	388,345.22	795,642.55	32.064982	-103.512396
11,200.00	9.61	60.70	11,121.98	467.42	832.79	388,353.39	795,657.11	32.065004	-103.512349
11,248.03	9.61	60.70	11,169.34	471.35	839.79	388,357.31	795,664.10	32.065015	-103.512326
11,300.00	8.83	60.70	11,220.64	475.42	847.05	388,361.39	795,671.36	32.065026	-103.512303
11,400.00	7.33	60.70	11,319.64	482.30	859.30	388,368.27	795,683.62	32.065044	-103.512263
11,500.00	5.83	60.70	11,418.98	487.91	869.30	388,373.88	795,693.61	32.065060	-103.512230
11,600.00	4.33	60.70	11,518.58	492.24	877.02	388,378.21	795,701.34	32.065071	-103.512205
11,700.00	2.83	60.70	11,618.39	495.30	882.46	388,381.27	795,706.78	32.065080	-103.512188
11,800.00	1.33	60.70	11,718.32	497.08	885.63	388,383.05	795,709.95	32.065085	-103.512177
11,888.69	0.00	0.00	11,807.00	497.58	886.53	388,383.55	795,710.84	32.065086	-103.512175
11,900.00	0.00	0.00	11,818.31	497.58	886.53	388,383.55	795,710.84	32.065086	-103.512175
12,000.00	0.00	0.00	11,918.31	497.58	886.53	388,383.55	795,710.84	32.065086	-103.512175
12,100.00	0.00	0.00	12,018.31	497.58	886.53	388,383.55	795,710.84	32.065086	-103.512175
12,200.00	0.00	0.00	12,118.31	497.58	886.53	388,383.55	795,710.84	32.065086	-103.512175
12,238.73	0.00	0.00	12,157.04	497.58	886.53	388,383.55	795,710.84	32.065086	-103.512175
12,300.00	6.13	179.57	12,218.19	494.31	886.55	388,380.28	795,710.87	32.065077	-103.512175
12,400.00	16.13	179.57	12,316.19	475.04	886.70	388,361.00	795,711.01	32.065024	-103.512175
12,497.81	25.91	179.57	12,407.38	440.00	886.96	388,325.97	795,711.27	32.064928	-103.512175
First Take Point @ 12498' MD, 100' FNL, 1657' FWL									
12,500.00	26.13	179.57	12,409.35	439.04	886.96	388,325.01	795,711.28	32.064925	-103.512175
12,600.00	36.13	179.57	12,494.84	387.41	887.35	388,273.38	795,711.66	32.064783	-103.512175
12,700.00	46.13	179.57	12,570.07	321.73	887.83	388,207.69	795,712.15	32.064603	-103.512175
12,800.00	56.13	179.57	12,632.75	243.97	888.41	388,129.94	795,712.73	32.064389	-103.512175
12,900.00	66.13	179.57	12,680.98	156.52	889.06	388,042.49	795,713.38	32.064148	-103.512175
13,000.00	76.13	179.57	12,713.29	62.02	889.76	387,947.99	795,714.08	32.063889	-103.512175
13,100.00	86.13	179.57	12,728.69	-36.66	890.50	387,849.31	795,714.81	32.063617	-103.512175
13,138.73	90.00	179.57	12,730.00	-75.36	890.78	387,810.61	795,715.10	32.063511	-103.512175
Land Point @ 13139' MD, 615' FNL, 1661' FWL									
13,200.00	90.00	179.57	12,730.00	-136.63	891.24	387,749.34	795,715.56	32.063343	-103.512175
13,300.00	90.00	179.57	12,730.00	-236.62	891.98	387,649.35	795,716.30	32.063068	-103.512175
13,400.00	90.00	179.57	12,730.00	-336.62	892.72	387,549.35	795,717.04	32.062793	-103.512175
13,500.00	90.00	179.57	12,730.00	-436.62	893.47	387,449.35	795,717.78	32.062518	-103.512175
13,600.00	90.00	179.57	12,730.00	-536.62	894.21	387,349.35	795,718.53	32.062243	-103.512175
13,700.00	90.00	179.57	12,730.00	-636.61	894.95	387,249.36	795,719.27	32.061968	-103.512175
13,800.00	90.00	179.57	12,730.00	-736.61	895.70	387,149.36	795,720.01	32.061693	-103.512175
13,900.00	90.00	179.57	12,730.00	-836.61	896.44	387,049.36	795,720.75	32.061418	-103.512175
14,000.00	90.00	179.57	12,730.00	-936.60	897.18	386,949.37	795,721.50	32.061144	-103.512175
14,100.00	90.00	179.57	12,730.00	-1,036.60	897.92	386,849.37	795,722.24	32.060869	-103.512175
14,200.00	90.00	179.57	12,730.00	-1,136.60	898.67	386,749.37	795,722.98	32.060594	-103.512176
14,300.00	90.00	179.57	12,730.00	-1,236.60	899.41	386,649.38	795,723.73	32.060319	-103.512176
14,400.00	90.00	179.57	12,730.00	-1,336.59	900.15	386,549.38	795,724.47	32.060044	-103.512176
14,500.00	90.00	179.57	12,730.00	-1,436.59	900.90	386,449.38	795,725.21	32.059769	-103.512176
14,600.00	90.00	179.57	12,730.00	-1,536.59	901.64	386,349.38	795,725.95	32.059494	-103.512176
14,700.00	90.00	179.57	12,730.00	-1,636.58	902.38	386,249.39	795,726.70	32.059219	-103.512176
14,800.00	90.00	179.57	12,730.00	-1,736.58	903.12	386,149.39	795,727.44	32.058945	-103.512176
14,900.00	90.00	179.57	12,730.00	-1,836.58	903.87	386,049.39	795,728.18	32.058670	-103.512176
15,000.00	90.00	179.57	12,730.00	-1,936.58	904.61	385,949.40	795,728.93	32.058395	-103.512176
15,100.00	90.00	179.57	12,730.00	-2,036.57	905.35	385,849.40	795,729.67	32.058120	-103.512176
15,200.00	90.00	179.57	12,730.00	-2,136.57	906.10	385,749.40	795,730.41	32.057845	-103.512176
15,300.00	90.00	179.57	12,730.00	-2,236.57	906.84	385,649.40	795,731.15	32.057570	-103.512176
15,400.00	90.00	179.57	12,730.00	-2,336.57	907.58	385,549.41	795,731.90	32.057295	-103.512176
15,500.00	90.00	179.57	12,730.00	-2,436.56	908.32	385,449.41	795,732.64	32.057020	-103.512176

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7 FED 11H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3352.90ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3352.90ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7 FED 11H	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
15,600.00	90.00	179.57	12,730.00	-2,536.56	909.07	385,349.41	795,733.38	32.056746	-103.512176
15,700.00	90.00	179.57	12,730.00	-2,636.56	909.81	385,249.42	795,734.13	32.056471	-103.512176
15,800.00	90.00	179.57	12,730.00	-2,736.55	910.55	385,149.42	795,734.87	32.056196	-103.512176
15,900.00	90.00	179.57	12,730.00	-2,836.55	911.29	385,049.42	795,735.61	32.055921	-103.512177
16,000.00	90.00	179.57	12,730.00	-2,936.55	912.04	384,949.43	795,736.35	32.055646	-103.512177
16,100.00	90.00	179.57	12,730.00	-3,036.55	912.78	384,849.43	795,737.10	32.055371	-103.512177
16,200.00	90.00	179.57	12,730.00	-3,136.54	913.52	384,749.43	795,737.84	32.055096	-103.512177
16,300.00	90.00	179.57	12,730.00	-3,236.54	914.27	384,649.43	795,738.58	32.054821	-103.512177
16,400.00	90.00	179.57	12,730.00	-3,336.54	915.01	384,549.44	795,739.32	32.054547	-103.512177
16,500.00	90.00	179.57	12,730.00	-3,436.54	915.75	384,449.44	795,740.07	32.054272	-103.512177
16,600.00	90.00	179.57	12,730.00	-3,536.53	916.49	384,349.44	795,740.81	32.053997	-103.512177
16,700.00	90.00	179.57	12,730.00	-3,636.53	917.24	384,249.45	795,741.55	32.053722	-103.512177
16,800.00	90.00	179.57	12,730.00	-3,736.53	917.98	384,149.45	795,742.30	32.053447	-103.512177
16,900.00	90.00	179.57	12,730.00	-3,836.52	918.72	384,049.45	795,743.04	32.053172	-103.512177
17,000.00	90.00	179.57	12,730.00	-3,936.52	919.47	383,949.46	795,743.78	32.052897	-103.512177
17,100.00	90.00	179.57	12,730.00	-4,036.52	920.21	383,849.46	795,744.52	32.052622	-103.512177
17,200.00	90.00	179.57	12,730.00	-4,136.52	920.95	383,749.46	795,745.27	32.052347	-103.512177
17,300.00	90.00	179.57	12,730.00	-4,236.51	921.69	383,649.46	795,746.01	32.052073	-103.512177
17,400.00	90.00	179.57	12,730.00	-4,336.51	922.44	383,549.47	795,746.75	32.051798	-103.512177
17,500.00	90.00	179.57	12,730.00	-4,436.51	923.18	383,449.47	795,747.50	32.051523	-103.512177
17,600.00	90.00	179.57	12,730.00	-4,536.50	923.92	383,349.47	795,748.24	32.051248	-103.512177
17,700.00	90.00	179.57	12,730.00	-4,636.50	924.67	383,249.48	795,748.98	32.050973	-103.512178
17,700.50	90.00	179.57	12,730.00	-4,637.00	924.67	383,248.98	795,748.99	32.050972	-103.512178
Last Take Point @ 17701' MD, 100' FSL, 1660' FWL									
17,701.25	90.00	179.57	12,730.00	-4,637.75	924.67	383,248.23	795,748.99	32.050970	-103.512178
PBHL; 100' FSL, 1660' FWL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Jayhawk 7 FED	0.00	0.00	0.00	-4,637.75	924.67	383,248.23	795,748.99	32.050970	-103.512178
- hit/miss target									
- Shape									
- plan misses target center by 4729.03ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
VP - Jayhawk 7 Fed 11H	0.00	0.00	11,850.00	497.58	886.53	388,383.55	795,710.84	32.065086	-103.512175
- plan hits target center									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
12,497.81	12,407.38	440.00	886.96	First Take Point @ 12498' MD, 100' FNL, 1657' FWL	
13,138.73	12,730.00	-75.36	890.78	Land Point @ 13139' MD, 615' FNL, 1661' FWL	
17,700.50	12,730.00	-4,637.00	924.67	Last Take Point @ 17701' MD, 100' FSL, 1660' FWL	
17,701.25	12,730.00	-4,637.75	924.67	PBHL; 100' FSL, 1660' FWL	