

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 06-T26S-R34E

Jayhawk 6-7 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 6-7 FED 11H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3338.00ft (Original Well Elev)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3338.00ft (Original Well Elev)
Site:	Sec 06-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 6-7 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 06-T26S-R34E			
Site Position:		Northing:	393,700.60 usft	Latitude:	32.079736
From:	Map	Easting:	794,011.60 usft	Longitude:	-103.517530
Position Uncertainty:	5.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well	Jayhawk 6-7 FED 11H					
Well Position	+N/-S	0.00 ft	Northing:	393,256.09 usft	Latitude:	32.078496
	+E/-W	0.00 ft	Easting:	794,914.09 usft	Longitude:	-103.514627
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,315.10 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/23/2018	6.80	59.92	47,745.58648612

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	170.44

Plan Survey Tool Program	Date	7/24/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,665.51 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	
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,078.05	7.23	61.81	5,076.52	17.20	32.08	1.25	1.25	0.00	61.81	
11,378.13	7.23	61.81	11,326.57	391.56	730.48	0.00	0.00	0.00	0.00	
11,859.84	0.00	0.00	11,807.00	405.89	757.21	1.50	-1.50	0.00	180.00	
12,209.88	0.00	0.00	12,157.04	405.89	757.21	0.00	0.00	0.00	0.00	
13,109.88	90.00	179.57	12,730.00	-167.06	761.50	10.00	10.00	0.00	179.57	PBHL - Jayhawk 6-7 f
17,665.51	90.00	179.57	12,730.00	-4,722.55	795.64	0.00	0.00	0.00	0.00	PBHL - Jayhawk 6-7 f

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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
0.00	0.00	0.00	0.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
100.00	0.00	0.00	100.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
200.00	0.00	0.00	200.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
300.00	0.00	0.00	300.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
400.00	0.00	0.00	400.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
500.00	0.00	0.00	500.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
600.00	0.00	0.00	600.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
700.00	0.00	0.00	700.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
800.00	0.00	0.00	800.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
900.00	0.00	0.00	900.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
1,000.00	0.00	0.00	1,000.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
1,100.00	0.00	0.00	1,100.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
1,200.00	0.00	0.00	1,200.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
1,300.00	0.00	0.00	1,300.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
1,400.00	0.00	0.00	1,400.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
1,500.00	0.00	0.00	1,500.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
1,600.00	0.00	0.00	1,600.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
1,700.00	0.00	0.00	1,700.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
1,800.00	0.00	0.00	1,800.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
1,900.00	0.00	0.00	1,900.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
2,000.00	0.00	0.00	2,000.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
2,100.00	0.00	0.00	2,100.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
2,200.00	0.00	0.00	2,200.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
2,300.00	0.00	0.00	2,300.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
2,400.00	0.00	0.00	2,400.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
2,500.00	0.00	0.00	2,500.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
2,600.00	0.00	0.00	2,600.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
2,700.00	0.00	0.00	2,700.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
2,800.00	0.00	0.00	2,800.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
2,900.00	0.00	0.00	2,900.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
3,000.00	0.00	0.00	3,000.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
3,100.00	0.00	0.00	3,100.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
3,200.00	0.00	0.00	3,200.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
3,300.00	0.00	0.00	3,300.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
3,400.00	0.00	0.00	3,400.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
3,500.00	0.00	0.00	3,500.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
3,600.00	0.00	0.00	3,600.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
3,700.00	0.00	0.00	3,700.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
3,800.00	0.00	0.00	3,800.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
3,900.00	0.00	0.00	3,900.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
4,000.00	0.00	0.00	4,000.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
4,100.00	0.00	0.00	4,100.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
4,200.00	0.00	0.00	4,200.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
4,300.00	0.00	0.00	4,300.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
4,400.00	0.00	0.00	4,400.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
4,500.00	0.00	0.00	4,500.00	0.00	0.00	393,256.09	794,914.09	32.078496	-103.514627
4,600.00	1.25	61.81	4,599.99	0.52	0.96	393,256.60	794,915.05	32.078497	-103.514624
4,700.00	2.50	61.81	4,699.94	2.06	3.85	393,258.15	794,917.93	32.078501	-103.514615
4,800.00	3.75	61.81	4,799.79	4.64	8.65	393,260.73	794,922.74	32.078508	-103.514599
4,900.00	5.00	61.81	4,899.49	8.24	15.37	393,264.33	794,929.46	32.078518	-103.514577
5,000.00	6.25	61.81	4,999.01	12.87	24.01	393,268.96	794,938.10	32.078531	-103.514549
5,078.05	7.23	61.81	5,076.52	17.20	32.08	393,273.29	794,946.17	32.078542	-103.514523
5,100.00	7.23	61.81	5,098.29	18.50	34.52	393,274.59	794,948.60	32.078546	-103.514515
5,200.00	7.23	61.81	5,197.50	24.44	45.60	393,280.53	794,959.69	32.078562	-103.514479
5,300.00	7.23	61.81	5,296.71	30.39	56.69	393,286.47	794,970.77	32.078578	-103.514443

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Well:	Jayhawk 6-7 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
5,400.00	7.23	61.81	5,395.91	36.33	67.77	393,292.42	794,981.86	32.078594	-103.514407
5,500.00	7.23	61.81	5,495.12	42.27	78.86	393,298.36	794,992.95	32.078610	-103.514371
5,600.00	7.23	61.81	5,594.32	48.21	89.94	393,304.30	795,004.03	32.078626	-103.514336
5,700.00	7.23	61.81	5,693.53	54.15	101.03	393,310.24	795,015.12	32.078642	-103.514300
5,800.00	7.23	61.81	5,792.74	60.10	112.11	393,316.19	795,026.20	32.078659	-103.514264
5,900.00	7.23	61.81	5,891.94	66.04	123.20	393,322.13	795,037.29	32.078675	-103.514228
6,000.00	7.23	61.81	5,991.15	71.98	134.28	393,328.07	795,048.37	32.078691	-103.514192
6,100.00	7.23	61.81	6,090.35	77.92	145.37	393,334.01	795,059.46	32.078707	-103.514156
6,200.00	7.23	61.81	6,189.56	83.86	156.46	393,339.95	795,070.54	32.078723	-103.514120
6,300.00	7.23	61.81	6,288.77	89.81	167.54	393,345.90	795,081.63	32.078739	-103.514084
6,400.00	7.23	61.81	6,387.97	95.75	178.63	393,351.84	795,092.71	32.078755	-103.514048
6,500.00	7.23	61.81	6,487.18	101.69	189.71	393,357.78	795,103.80	32.078771	-103.514012
6,600.00	7.23	61.81	6,586.38	107.63	200.80	393,363.72	795,114.89	32.078787	-103.513976
6,700.00	7.23	61.81	6,685.59	113.58	211.88	393,369.66	795,125.97	32.078803	-103.513940
6,800.00	7.23	61.81	6,784.79	119.52	222.97	393,375.61	795,137.06	32.078820	-103.513904
6,900.00	7.23	61.81	6,884.00	125.46	234.05	393,381.55	795,148.14	32.078836	-103.513868
7,000.00	7.23	61.81	6,983.21	131.40	245.14	393,387.49	795,159.23	32.078852	-103.513832
7,100.00	7.23	61.81	7,082.41	137.34	256.23	393,393.43	795,170.31	32.078868	-103.513797
7,200.00	7.23	61.81	7,181.62	143.29	267.31	393,399.37	795,181.40	32.078884	-103.513761
7,300.00	7.23	61.81	7,280.82	149.23	278.40	393,405.32	795,192.48	32.078900	-103.513725
7,400.00	7.23	61.81	7,380.03	155.17	289.48	393,411.26	795,203.57	32.078916	-103.513689
7,500.00	7.23	61.81	7,479.24	161.11	300.57	393,417.20	795,214.65	32.078932	-103.513653
7,600.00	7.23	61.81	7,578.44	167.05	311.65	393,423.14	795,225.74	32.078948	-103.513617
7,700.00	7.23	61.81	7,677.65	173.00	322.74	393,429.09	795,236.82	32.078964	-103.513581
7,800.00	7.23	61.81	7,776.85	178.94	333.82	393,435.03	795,247.91	32.078981	-103.513545
7,900.00	7.23	61.81	7,876.06	184.88	344.91	393,440.97	795,259.00	32.078997	-103.513509
8,000.00	7.23	61.81	7,975.26	190.82	355.99	393,446.91	795,270.08	32.079013	-103.513473
8,100.00	7.23	61.81	8,074.47	196.77	367.08	393,452.85	795,281.17	32.079029	-103.513437
8,200.00	7.23	61.81	8,173.68	202.71	378.17	393,458.80	795,292.25	32.079045	-103.513401
8,300.00	7.23	61.81	8,272.88	208.65	389.25	393,464.74	795,303.34	32.079061	-103.513365
8,400.00	7.23	61.81	8,372.09	214.59	400.34	393,470.68	795,314.42	32.079077	-103.513329
8,500.00	7.23	61.81	8,471.29	220.53	411.42	393,476.62	795,325.51	32.079093	-103.513293
8,600.00	7.23	61.81	8,570.50	226.48	422.51	393,482.56	795,336.59	32.079109	-103.513258
8,700.00	7.23	61.81	8,669.71	232.42	433.59	393,488.51	795,347.68	32.079125	-103.513222
8,800.00	7.23	61.81	8,768.91	238.36	444.68	393,494.45	795,358.76	32.079142	-103.513186
8,900.00	7.23	61.81	8,868.12	244.30	455.76	393,500.39	795,369.85	32.079158	-103.513150
9,000.00	7.23	61.81	8,967.32	250.24	466.85	393,506.33	795,380.94	32.079174	-103.513114
9,100.00	7.23	61.81	9,066.53	256.19	477.93	393,512.28	795,392.02	32.079190	-103.513078
9,200.00	7.23	61.81	9,165.74	262.13	489.02	393,518.22	795,403.11	32.079206	-103.513042
9,300.00	7.23	61.81	9,264.94	268.07	500.11	393,524.16	795,414.19	32.079222	-103.513006
9,400.00	7.23	61.81	9,364.15	274.01	511.19	393,530.10	795,425.28	32.079238	-103.512970
9,500.00	7.23	61.81	9,463.35	279.96	522.28	393,536.04	795,436.36	32.079254	-103.512934
9,600.00	7.23	61.81	9,562.56	285.90	533.36	393,541.99	795,447.45	32.079270	-103.512898
9,700.00	7.23	61.81	9,661.76	291.84	544.45	393,547.93	795,458.53	32.079286	-103.512862
9,800.00	7.23	61.81	9,760.97	297.78	555.53	393,553.87	795,469.62	32.079303	-103.512826
9,900.00	7.23	61.81	9,860.18	303.72	566.62	393,559.81	795,480.70	32.079319	-103.512790
10,000.00	7.23	61.81	9,959.38	309.67	577.70	393,565.75	795,491.79	32.079335	-103.512754
10,100.00	7.23	61.81	10,058.59	315.61	588.79	393,571.70	795,502.88	32.079351	-103.512719
10,200.00	7.23	61.81	10,157.79	321.55	599.87	393,577.64	795,513.96	32.079367	-103.512683
10,300.00	7.23	61.81	10,257.00	327.49	610.96	393,583.58	795,525.05	32.079383	-103.512647
10,400.00	7.23	61.81	10,356.21	333.43	622.05	393,589.52	795,536.13	32.079399	-103.512611
10,500.00	7.23	61.81	10,455.41	339.38	633.13	393,595.46	795,547.22	32.079415	-103.512575
10,600.00	7.23	61.81	10,554.62	345.32	644.22	393,601.41	795,558.30	32.079431	-103.512539

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Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 6-7 FED 11H
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Site:	Sec 06-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 6-7 FED 11H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey										
Measured			Vertical			Map		Map		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)			
10,678.78	7.23	61.81	10,632.77	350.00	652.95	393,606.09	795,567.04	32.079444	-103.512511	
First Take Point @ 10679' MD, 100' FNL, 1553' FWL										
10,700.00	7.23	61.81	10,653.82	351.26	655.30	393,607.35	795,569.39	32.079447	-103.512503	
10,800.00	7.23	61.81	10,753.03	357.20	666.39	393,613.29	795,580.47	32.079464	-103.512467	
10,900.00	7.23	61.81	10,852.24	363.15	677.47	393,619.23	795,591.56	32.079480	-103.512431	
11,000.00	7.23	61.81	10,951.44	369.09	688.56	393,625.18	795,602.64	32.079496	-103.512395	
11,100.00	7.23	61.81	11,050.65	375.03	699.64	393,631.12	795,613.73	32.079512	-103.512359	
11,200.00	7.23	61.81	11,149.85	380.97	710.73	393,637.06	795,624.82	32.079528	-103.512323	
11,300.00	7.23	61.81	11,249.06	386.91	721.81	393,643.00	795,635.90	32.079544	-103.512287	
11,378.13	7.23	61.81	11,326.57	391.56	730.48	393,647.64	795,644.56	32.079557	-103.512259	
11,400.00	6.90	61.81	11,348.27	392.83	732.85	393,648.91	795,646.93	32.079560	-103.512252	
11,500.00	5.40	61.81	11,447.69	397.89	742.28	393,653.97	795,656.37	32.079574	-103.512221	
11,600.00	3.90	61.81	11,547.36	401.71	749.42	393,657.80	795,663.51	32.079584	-103.512198	
11,700.00	2.40	61.81	11,647.21	404.31	754.26	393,660.40	795,668.35	32.079591	-103.512182	
11,800.00	0.90	61.81	11,747.16	405.67	756.80	393,661.75	795,670.88	32.079595	-103.512174	
11,859.84	0.00	0.00	11,807.00	405.89	757.21	393,661.98	795,671.30	32.079595	-103.512173	
11,900.00	0.00	0.00	11,847.16	405.89	757.21	393,661.98	795,671.30	32.079595	-103.512173	
12,000.00	0.00	0.00	11,947.16	405.89	757.21	393,661.98	795,671.30	32.079595	-103.512173	
12,100.00	0.00	0.00	12,047.16	405.89	757.21	393,661.98	795,671.30	32.079595	-103.512173	
12,200.00	0.00	0.00	12,147.16	405.89	757.21	393,661.98	795,671.30	32.079595	-103.512173	
12,209.88	0.00	0.00	12,157.04	405.89	757.21	393,661.98	795,671.30	32.079595	-103.512173	
12,300.00	9.01	179.57	12,246.79	398.81	757.26	393,654.90	795,671.35	32.079576	-103.512173	
12,400.00	19.01	179.57	12,343.69	374.63	757.45	393,630.72	795,671.53	32.079510	-103.512173	
12,500.00	29.01	179.57	12,434.92	333.99	757.75	393,590.08	795,671.84	32.079398	-103.512173	
12,600.00	39.01	179.57	12,517.71	278.13	758.17	393,534.22	795,672.25	32.079244	-103.512173	
12,700.00	49.01	179.57	12,589.54	208.74	758.69	393,464.83	795,672.77	32.079054	-103.512173	
12,800.00	59.01	179.57	12,648.22	127.93	759.29	393,384.02	795,673.38	32.078831	-103.512173	
12,900.00	69.01	179.57	12,691.99	38.16	759.97	393,294.25	795,674.05	32.078585	-103.512173	
13,000.00	79.01	179.57	12,719.50	-57.85	760.69	393,198.24	795,674.77	32.078321	-103.512173	
13,100.00	89.01	179.57	12,729.91	-157.18	761.43	393,098.91	795,675.52	32.078048	-103.512173	
13,109.88	90.00	179.57	12,730.00	-167.06	761.50	393,089.03	795,675.59	32.078021	-103.512173	
Land Point @ 13110' MD, 283' FNL, 1662' FWL										
13,200.00	90.00	179.57	12,730.00	-257.17	762.18	392,998.92	795,676.27	32.077773	-103.512173	
13,300.00	90.00	179.57	12,730.00	-357.17	762.93	392,898.92	795,677.01	32.077498	-103.512173	
13,400.00	90.00	179.57	12,730.00	-457.17	763.68	392,798.92	795,677.76	32.077223	-103.512173	
13,500.00	90.00	179.57	12,730.00	-557.16	764.43	392,698.93	795,678.51	32.076948	-103.512173	
13,600.00	90.00	179.57	12,730.00	-657.16	765.18	392,598.93	795,679.26	32.076673	-103.512173	
13,700.00	90.00	179.57	12,730.00	-757.16	765.93	392,498.93	795,680.01	32.076398	-103.512173	
13,800.00	90.00	179.57	12,730.00	-857.16	766.67	392,398.93	795,680.76	32.076124	-103.512173	
13,900.00	90.00	179.57	12,730.00	-957.15	767.42	392,298.94	795,681.51	32.075849	-103.512173	
14,000.00	90.00	179.57	12,730.00	-1,057.15	768.17	392,198.94	795,682.26	32.075574	-103.512173	
14,100.00	90.00	179.57	12,730.00	-1,157.15	768.92	392,098.94	795,683.01	32.075299	-103.512173	
14,200.00	90.00	179.57	12,730.00	-1,257.15	769.67	391,998.95	795,683.76	32.075024	-103.512173	
14,300.00	90.00	179.57	12,730.00	-1,357.14	770.42	391,898.95	795,684.51	32.074749	-103.512173	
14,400.00	90.00	179.57	12,730.00	-1,457.14	771.17	391,798.95	795,685.26	32.074474	-103.512173	
14,500.00	90.00	179.57	12,730.00	-1,557.14	771.92	391,698.96	795,686.01	32.074199	-103.512173	
14,600.00	90.00	179.57	12,730.00	-1,657.13	772.67	391,598.96	795,686.76	32.073925	-103.512173	
14,700.00	90.00	179.57	12,730.00	-1,757.13	773.42	391,498.96	795,687.50	32.073650	-103.512173	
14,800.00	90.00	179.57	12,730.00	-1,857.13	774.17	391,398.96	795,688.25	32.073375	-103.512173	
14,900.00	90.00	179.57	12,730.00	-1,957.13	774.92	391,298.97	795,689.00	32.073100	-103.512173	
15,000.00	90.00	179.57	12,730.00	-2,057.12	775.67	391,198.97	795,689.75	32.072825	-103.512174	
15,100.00	90.00	179.57	12,730.00	-2,157.12	776.42	391,098.97	795,690.50	32.072550	-103.512174	
15,200.00	90.00	179.57	12,730.00	-2,257.12	777.16	390,998.98	795,691.25	32.072275	-103.512174	
15,300.00	90.00	179.57	12,730.00	-2,357.11	777.91	390,898.98	795,692.00	32.072000	-103.512174	

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 6-7 FED 11H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3338.00ft (Original Well Elev)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3338.00ft (Original Well Elev)
Site:	Sec 06-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 6-7 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
15,400.00	90.00	179.57	12,730.00	-2,457.11	778.66	390,798.98	795,692.75	32.071726	-103.512174
15,500.00	90.00	179.57	12,730.00	-2,557.11	779.41	390,698.99	795,693.50	32.071451	-103.512174
15,600.00	90.00	179.57	12,730.00	-2,657.11	780.16	390,598.99	795,694.25	32.071176	-103.512174
15,700.00	90.00	179.57	12,730.00	-2,757.10	780.91	390,498.99	795,695.00	32.070901	-103.512174
15,800.00	90.00	179.57	12,730.00	-2,857.10	781.66	390,398.99	795,695.75	32.070626	-103.512174
15,900.00	90.00	179.57	12,730.00	-2,957.10	782.41	390,299.00	795,696.50	32.070351	-103.512174
16,000.00	90.00	179.57	12,730.00	-3,057.09	783.16	390,199.00	795,697.24	32.070076	-103.512174
16,100.00	90.00	179.57	12,730.00	-3,157.09	783.91	390,099.00	795,697.99	32.069801	-103.512174
16,200.00	90.00	179.57	12,730.00	-3,257.09	784.66	389,999.01	795,698.74	32.069527	-103.512174
16,300.00	90.00	179.57	12,730.00	-3,357.09	785.41	389,899.01	795,699.49	32.069252	-103.512174
16,400.00	90.00	179.57	12,730.00	-3,457.08	786.16	389,799.01	795,700.24	32.068977	-103.512174
16,500.00	90.00	179.57	12,730.00	-3,557.08	786.90	389,699.02	795,700.99	32.068702	-103.512174
16,600.00	90.00	179.57	12,730.00	-3,657.08	787.65	389,599.02	795,701.74	32.068427	-103.512174
16,700.00	90.00	179.57	12,730.00	-3,757.07	788.40	389,499.02	795,702.49	32.068152	-103.512174
16,800.00	90.00	179.57	12,730.00	-3,857.07	789.15	389,399.02	795,703.24	32.067877	-103.512174
16,900.00	90.00	179.57	12,730.00	-3,957.07	789.90	389,299.03	795,703.99	32.067602	-103.512174
17,000.00	90.00	179.57	12,730.00	-4,057.07	790.65	389,199.03	795,704.74	32.067328	-103.512174
17,100.00	90.00	179.57	12,730.00	-4,157.06	791.40	389,099.03	795,705.49	32.067053	-103.512174
17,200.00	90.00	179.57	12,730.00	-4,257.06	792.15	388,999.04	795,706.24	32.066778	-103.512174
17,300.00	90.00	179.57	12,730.00	-4,357.06	792.90	388,899.04	795,706.98	32.066503	-103.512174
17,400.00	90.00	179.57	12,730.00	-4,457.06	793.65	388,799.04	795,707.73	32.066228	-103.512174
17,500.00	90.00	179.57	12,730.00	-4,557.05	794.40	388,699.05	795,708.48	32.065953	-103.512174
17,600.00	90.00	179.57	12,730.00	-4,657.05	795.15	388,599.05	795,709.23	32.065678	-103.512174
17,664.50	90.00	179.57	12,730.00	-4,721.55	795.63	388,534.55	795,709.72	32.065501	-103.512175
Last Take Point @ 17665' MD, 100' FSL, 1660' FWL									
17,665.50	90.00	179.57	12,730.00	-4,722.55	795.64	388,533.55	795,709.72	32.065498	-103.512175
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 6-7 FEI	0.00	0.01	0.00	-4,722.55	795.64	388,533.55	795,709.72	32.065498	-103.512175
- plan misses target center by 4789.11ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
VP - Jayhawk 11H	0.00	0.00	10,000.00	405.89	757.21	393,661.98	795,671.30	32.079595	-103.512173
- plan misses target center by 196.94ft at 10065.91ft MD (10024.77 TVD, 313.58 N, 585.01 E)									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
10,678.78	10,632.77	350.00	652.95	First Take Point @ 10679' MD, 100' FNL, 1553' FWL	
13,109.88	12,730.00	-167.06	761.50	Land Point @ 13110' MD, 283' FNL, 1662' FWL	
17,664.50	12,730.00	-4,721.55	795.63	Last Take Point @ 17665' MD, 100' FSL, 1660' FWL	
17,665.50	12,730.00	-4,722.55	795.64	PBHL; 100' FSL, 1660' FWL	

WCDSC Permian NM

WELL DETAILS: Jayhawk 6-7 FED 11H

RKB @ 3338.00ft (Original Well Elev)
3315.10

Northing	Easting	Latitude	Longitude
393256.09	794914.09	32.078496	-103.514627



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	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	
5078.05	7.23	61.81	5076.52	17.20	32.08	1.25	-11.63	
11378.13	7.23	61.81	11326.57	391.56	730.48	0.00	-264.76	
11859.84	0.00	0.00	11807.00	405.89	757.21	1.50	-274.45	
12209.88	0.00	0.00	12157.04	405.89	757.21	0.00	-274.45	
13109.88	90.00	179.57	12730.00	-167.06	761.50	10.00	291.25	Land Point @ 13110' MD, 283' FNL, 1662' FWL
17665.50	90.00	179.57	12730.00	-4722.55	795.64	0.00	4789.11	PBHL; 100' FSL, 1660' FWL

