

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 07-T26S-R34E

Jayhawk 7 FED 18H

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 7-6 FED 18H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3351.10ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3351.10ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7-6 FED 18H	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 7-6 FED 18H					
Well Position	+N/-S	0.00 ft	Northing:	387,885.50 usft	Latitude:	32.063737
	+E/-W	0.00 ft	Easting:	794,764.32 usft	Longitude:	-103.515242
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,326.10 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/23/2018	6.80	59.91	47,736.66412592

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	183.88

Plan Survey Tool Program	Date	7/24/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,159.58 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	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,802.21	3.02	310.45	2,802.07	5.17	-6.06	1.00	1.00	0.00	310.45	
11,332.62	3.02	310.45	11,320.62	296.97	-348.27	0.00	0.00	0.00	0.00	
11,534.10	0.00	0.00	11,522.00	300.42	-352.32	1.50	-1.50	0.00	180.00	
11,884.14	0.00	0.00	11,872.04	300.42	-352.32	0.00	0.00	0.00	0.00	
12,784.14	90.00	179.57	12,445.00	-272.52	-348.03	10.00	10.00	0.00	179.57	PBHL - Jayhawk 7-6 f
17,159.58	90.00	179.57	12,445.00	-4,647.84	-315.29	0.00	0.00	0.00	0.00	PBHL - Jayhawk 7-6 f

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Well:	Jayhawk 7-6 FED 18H	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	387,885.50	794,764.32	32.063737	-103.515242
100.00	0.00	0.00	100.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
200.00	0.00	0.00	200.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
300.00	0.00	0.00	300.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
400.00	0.00	0.00	400.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
500.00	0.00	0.00	500.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
600.00	0.00	0.00	600.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
700.00	0.00	0.00	700.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
800.00	0.00	0.00	800.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
900.00	0.00	0.00	900.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
1,000.00	0.00	0.00	1,000.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
1,100.00	0.00	0.00	1,100.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
1,200.00	0.00	0.00	1,200.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
1,300.00	0.00	0.00	1,300.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
1,400.00	0.00	0.00	1,400.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
1,500.00	0.00	0.00	1,500.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
1,600.00	0.00	0.00	1,600.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
1,700.00	0.00	0.00	1,700.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
1,800.00	0.00	0.00	1,800.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
1,900.00	0.00	0.00	1,900.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
2,000.00	0.00	0.00	2,000.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
2,100.00	0.00	0.00	2,100.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
2,200.00	0.00	0.00	2,200.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
2,300.00	0.00	0.00	2,300.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
2,400.00	0.00	0.00	2,400.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
2,500.00	0.00	0.00	2,500.00	0.00	0.00	387,885.50	794,764.32	32.063737	-103.515242
2,600.00	1.00	310.45	2,599.99	0.57	-0.66	387,886.06	794,763.65	32.063738	-103.515244
2,700.00	2.00	310.45	2,699.96	2.26	-2.66	387,887.76	794,761.66	32.063743	-103.515251
2,800.00	3.00	310.45	2,799.86	5.09	-5.97	387,890.59	794,758.34	32.063751	-103.515261
2,802.21	3.02	310.45	2,802.07	5.17	-6.06	387,890.67	794,758.25	32.063751	-103.515261
2,900.00	3.02	310.45	2,899.72	8.52	-9.99	387,894.01	794,754.33	32.063760	-103.515274
3,000.00	3.02	310.45	2,999.58	11.94	-14.00	387,897.43	794,750.32	32.063770	-103.515287
3,100.00	3.02	310.45	3,099.45	15.36	-18.01	387,900.86	794,746.31	32.063779	-103.515300
3,200.00	3.02	310.45	3,199.31	18.78	-22.02	387,904.28	794,742.30	32.063789	-103.515313
3,300.00	3.02	310.45	3,299.17	22.20	-26.03	387,907.70	794,738.28	32.063798	-103.515326
3,400.00	3.02	310.45	3,399.03	25.62	-30.04	387,911.12	794,734.27	32.063808	-103.515338
3,500.00	3.02	310.45	3,498.89	29.04	-34.06	387,914.54	794,730.26	32.063817	-103.515351
3,600.00	3.02	310.45	3,598.75	32.46	-38.07	387,917.96	794,726.25	32.063827	-103.515364
3,700.00	3.02	310.45	3,698.61	35.88	-42.08	387,921.38	794,722.24	32.063836	-103.515377
3,800.00	3.02	310.45	3,798.47	39.30	-46.09	387,924.80	794,718.23	32.063846	-103.515390
3,900.00	3.02	310.45	3,898.33	42.72	-50.10	387,928.22	794,714.21	32.063855	-103.515403
4,000.00	3.02	310.45	3,998.19	46.14	-54.11	387,931.64	794,710.20	32.063865	-103.515416
4,100.00	3.02	310.45	4,098.06	49.56	-58.13	387,935.06	794,706.19	32.063874	-103.515428
4,200.00	3.02	310.45	4,197.92	52.98	-62.14	387,938.48	794,702.18	32.063884	-103.515441
4,300.00	3.02	310.45	4,297.78	56.41	-66.15	387,941.90	794,698.17	32.063893	-103.515454
4,400.00	3.02	310.45	4,397.64	59.83	-70.16	387,945.32	794,694.16	32.063903	-103.515467
4,500.00	3.02	310.45	4,497.50	63.25	-74.17	387,948.75	794,690.15	32.063912	-103.515480
4,600.00	3.02	310.45	4,597.36	66.67	-78.18	387,952.17	794,686.13	32.063922	-103.515493
4,700.00	3.02	310.45	4,697.22	70.09	-82.20	387,955.59	794,682.12	32.063931	-103.515506
4,800.00	3.02	310.45	4,797.08	73.51	-86.21	387,959.01	794,678.11	32.063941	-103.515519
4,900.00	3.02	310.45	4,896.94	76.93	-90.22	387,962.43	794,674.10	32.063950	-103.515531
5,000.00	3.02	310.45	4,996.80	80.35	-94.23	387,965.85	794,670.09	32.063960	-103.515544
5,100.00	3.02	310.45	5,096.66	83.77	-98.24	387,969.27	794,666.08	32.063969	-103.515557
5,200.00	3.02	310.45	5,196.53	87.19	-102.25	387,972.69	794,662.06	32.063978	-103.515570
5,300.00	3.02	310.45	5,296.39	90.61	-106.27	387,976.11	794,658.05	32.063988	-103.515583

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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
5,400.00	3.02	310.45	5,396.25	94.03	-110.28	387,979.53	794,654.04	32.063997	-103.515596
5,500.00	3.02	310.45	5,496.11	97.45	-114.29	387,982.95	794,650.03	32.064007	-103.515609
5,600.00	3.02	310.45	5,595.97	100.88	-118.30	387,986.37	794,646.02	32.064016	-103.515621
5,700.00	3.02	310.45	5,695.83	104.30	-122.31	387,989.79	794,642.01	32.064026	-103.515634
5,800.00	3.02	310.45	5,795.69	107.72	-126.32	387,993.22	794,637.99	32.064035	-103.515647
5,900.00	3.02	310.45	5,895.55	111.14	-130.34	387,996.64	794,633.98	32.064045	-103.515660
6,000.00	3.02	310.45	5,995.41	114.56	-134.35	388,000.06	794,629.97	32.064054	-103.515673
6,100.00	3.02	310.45	6,095.27	117.98	-138.36	388,003.48	794,625.96	32.064064	-103.515686
6,200.00	3.02	310.45	6,195.13	121.40	-142.37	388,006.90	794,621.95	32.064073	-103.515699
6,300.00	3.02	310.45	6,295.00	124.82	-146.38	388,010.32	794,617.94	32.064083	-103.515711
6,400.00	3.02	310.45	6,394.86	128.24	-150.39	388,013.74	794,613.92	32.064092	-103.515724
6,500.00	3.02	310.45	6,494.72	131.66	-154.41	388,017.16	794,609.91	32.064102	-103.515737
6,600.00	3.02	310.45	6,594.58	135.08	-158.42	388,020.58	794,605.90	32.064111	-103.515750
6,700.00	3.02	310.45	6,694.44	138.50	-162.43	388,024.00	794,601.89	32.064121	-103.515763
6,800.00	3.02	310.45	6,794.30	141.92	-166.44	388,027.42	794,597.88	32.064130	-103.515776
6,900.00	3.02	310.45	6,894.16	145.34	-170.45	388,030.84	794,593.87	32.064140	-103.515789
7,000.00	3.02	310.45	6,994.02	148.77	-174.46	388,034.26	794,589.85	32.064149	-103.515802
7,100.00	3.02	310.45	7,093.88	152.19	-178.48	388,037.68	794,585.84	32.064159	-103.515814
7,200.00	3.02	310.45	7,193.74	155.61	-182.49	388,041.11	794,581.83	32.064168	-103.515827
7,300.00	3.02	310.45	7,293.60	159.03	-186.50	388,044.53	794,577.82	32.064178	-103.515840
7,400.00	3.02	310.45	7,393.47	162.45	-190.51	388,047.95	794,573.81	32.064187	-103.515853
7,500.00	3.02	310.45	7,493.33	165.87	-194.52	388,051.37	794,569.80	32.064197	-103.515866
7,600.00	3.02	310.45	7,593.19	169.29	-198.53	388,054.79	794,565.78	32.064206	-103.515879
7,700.00	3.02	310.45	7,693.05	172.71	-202.55	388,058.21	794,561.77	32.064216	-103.515892
7,800.00	3.02	310.45	7,792.91	176.13	-206.56	388,061.63	794,557.76	32.064225	-103.515904
7,900.00	3.02	310.45	7,892.77	179.55	-210.57	388,065.05	794,553.75	32.064235	-103.515917
8,000.00	3.02	310.45	7,992.63	182.97	-214.58	388,068.47	794,549.74	32.064244	-103.515930
8,100.00	3.02	310.45	8,092.49	186.39	-218.59	388,071.89	794,545.73	32.064254	-103.515943
8,200.00	3.02	310.45	8,192.35	189.81	-222.60	388,075.31	794,541.71	32.064263	-103.515956
8,300.00	3.02	310.45	8,292.21	193.24	-226.62	388,078.73	794,537.70	32.064273	-103.515969
8,400.00	3.02	310.45	8,392.08	196.66	-230.63	388,082.15	794,533.69	32.064282	-103.515982
8,500.00	3.02	310.45	8,491.94	200.08	-234.64	388,085.57	794,529.68	32.064292	-103.515995
8,600.00	3.02	310.45	8,591.80	203.50	-238.65	388,089.00	794,525.67	32.064301	-103.516007
8,700.00	3.02	310.45	8,691.66	206.92	-242.66	388,092.42	794,521.66	32.064310	-103.516020
8,800.00	3.02	310.45	8,791.52	210.34	-246.67	388,095.84	794,517.64	32.064320	-103.516033
8,900.00	3.02	310.45	8,891.38	213.76	-250.69	388,099.26	794,513.63	32.064329	-103.516046
9,000.00	3.02	310.45	8,991.24	217.18	-254.70	388,102.68	794,509.62	32.064339	-103.516059
9,100.00	3.02	310.45	9,091.10	220.60	-258.71	388,106.10	794,505.61	32.064348	-103.516072
9,200.00	3.02	310.45	9,190.96	224.02	-262.72	388,109.52	794,501.60	32.064358	-103.516085
9,300.00	3.02	310.45	9,290.82	227.44	-266.73	388,112.94	794,497.59	32.064367	-103.516097
9,400.00	3.02	310.45	9,390.68	230.86	-270.74	388,116.36	794,493.57	32.064377	-103.516110
9,500.00	3.02	310.45	9,490.55	234.28	-274.76	388,119.78	794,489.56	32.064386	-103.516123
9,600.00	3.02	310.45	9,590.41	237.70	-278.77	388,123.20	794,485.55	32.064396	-103.516136
9,700.00	3.02	310.45	9,690.27	241.13	-282.78	388,126.62	794,481.54	32.064405	-103.516149
9,800.00	3.02	310.45	9,790.13	244.55	-286.79	388,130.04	794,477.53	32.064415	-103.516162
9,900.00	3.02	310.45	9,889.99	247.97	-290.80	388,133.47	794,473.52	32.064424	-103.516175
10,000.00	3.02	310.45	9,989.85	251.39	-294.81	388,136.89	794,469.50	32.064434	-103.516188
10,100.00	3.02	310.45	10,089.71	254.81	-298.83	388,140.31	794,465.49	32.064443	-103.516200
10,200.00	3.02	310.45	10,189.57	258.23	-302.84	388,143.73	794,461.48	32.064453	-103.516213
10,300.00	3.02	310.45	10,289.43	261.65	-306.85	388,147.15	794,457.47	32.064462	-103.516226
10,400.00	3.02	310.45	10,389.29	265.07	-310.86	388,150.57	794,453.46	32.064472	-103.516239
10,500.00	3.02	310.45	10,489.15	268.49	-314.87	388,153.99	794,449.45	32.064481	-103.516252
10,600.00	3.02	310.45	10,589.02	271.91	-318.88	388,157.41	794,445.43	32.064491	-103.516265
10,700.00	3.02	310.45	10,688.88	275.33	-322.90	388,160.83	794,441.42	32.064500	-103.516278
10,800.00	3.02	310.45	10,788.74	278.75	-326.91	388,164.25	794,437.41	32.064510	-103.516290

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Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3351.10ft
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Well:	Jayhawk 7-6 FED 18H	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	3.02	310.45	10,888.60	282.17	-330.92	388,167.67	794,433.40	32.064519	-103.516303
11,000.00	3.02	310.45	10,988.46	285.60	-334.93	388,171.09	794,429.39	32.064529	-103.516316
11,100.00	3.02	310.45	11,088.32	289.02	-338.94	388,174.51	794,425.38	32.064538	-103.516329
11,200.00	3.02	310.45	11,188.18	292.44	-342.95	388,177.93	794,421.36	32.064548	-103.516342
11,300.00	3.02	310.45	11,288.04	295.86	-346.97	388,181.36	794,417.35	32.064557	-103.516355
11,332.62	3.02	310.45	11,320.62	296.97	-348.27	388,182.47	794,416.04	32.064560	-103.516359
11,400.00	2.01	310.45	11,387.93	298.89	-350.53	388,184.39	794,413.79	32.064566	-103.516366
11,500.00	0.51	310.45	11,487.90	300.32	-352.20	388,185.82	794,412.12	32.064570	-103.516372
11,534.10	0.00	0.00	11,522.00	300.42	-352.32	388,185.92	794,412.00	32.064570	-103.516372
11,600.00	0.00	0.00	11,587.90	300.42	-352.32	388,185.92	794,412.00	32.064570	-103.516372
11,700.00	0.00	0.00	11,687.90	300.42	-352.32	388,185.92	794,412.00	32.064570	-103.516372
11,800.00	0.00	0.00	11,787.90	300.42	-352.32	388,185.92	794,412.00	32.064570	-103.516372
11,884.14	0.00	0.00	11,872.04	300.42	-352.32	388,185.92	794,412.00	32.064570	-103.516372
11,900.00	1.59	179.57	11,887.90	300.20	-352.32	388,185.70	794,412.00	32.064569	-103.516372
12,000.00	11.59	179.57	11,987.12	288.75	-352.23	388,174.24	794,412.09	32.064538	-103.516372
12,100.00	21.59	179.57	12,082.83	260.24	-352.02	388,145.73	794,412.30	32.064459	-103.516372
12,200.00	31.59	179.57	12,172.15	215.54	-351.68	388,101.04	794,412.64	32.064336	-103.516372
12,300.00	41.59	179.57	12,252.34	156.01	-351.24	388,041.51	794,413.08	32.064173	-103.516372
12,384.14	50.00	179.57	12,310.95	95.76	-350.79	387,981.25	794,413.53	32.064007	-103.516372
First Take Point @ 12384' MD, 450' FNL, 360' FWL									
12,400.00	51.59	179.57	12,320.98	83.47	-350.69	387,968.97	794,413.63	32.063973	-103.516372
12,500.00	61.59	179.57	12,375.98	0.10	-350.07	387,885.60	794,414.25	32.063744	-103.516372
12,600.00	71.59	179.57	12,415.66	-91.54	-349.38	387,793.96	794,414.93	32.063492	-103.516372
12,700.00	81.59	179.57	12,438.83	-188.69	-348.66	387,696.81	794,415.66	32.063225	-103.516372
12,784.14	90.00	179.57	12,445.00	-272.52	-348.03	387,612.97	794,416.29	32.062995	-103.516372
Land Point @ 12784' MD, 812' FNL, 360' FWL									
12,800.00	90.00	179.57	12,445.00	-288.38	-347.91	387,597.12	794,416.41	32.062951	-103.516372
12,900.00	90.00	179.57	12,445.00	-388.38	-347.16	387,497.12	794,417.16	32.062676	-103.516372
13,000.00	90.00	179.57	12,445.00	-488.38	-346.41	387,397.12	794,417.90	32.062401	-103.516372
13,100.00	90.00	179.57	12,445.00	-588.38	-345.67	387,297.12	794,418.65	32.062127	-103.516372
13,200.00	90.00	179.57	12,445.00	-688.37	-344.92	387,197.13	794,419.40	32.061852	-103.516372
13,300.00	90.00	179.57	12,445.00	-788.37	-344.17	387,097.13	794,420.15	32.061577	-103.516372
13,400.00	90.00	179.57	12,445.00	-888.37	-343.42	386,997.13	794,420.90	32.061302	-103.516372
13,500.00	90.00	179.57	12,445.00	-988.36	-342.67	386,897.14	794,421.65	32.061027	-103.516372
13,600.00	90.00	179.57	12,445.00	-1,088.36	-341.92	386,797.14	794,422.39	32.060752	-103.516372
13,700.00	90.00	179.57	12,445.00	-1,188.36	-341.18	386,697.14	794,423.14	32.060477	-103.516372
13,800.00	90.00	179.57	12,445.00	-1,288.36	-340.43	386,597.15	794,423.89	32.060202	-103.516372
13,900.00	90.00	179.57	12,445.00	-1,388.35	-339.68	386,497.15	794,424.64	32.059928	-103.516372
14,000.00	90.00	179.57	12,445.00	-1,488.35	-338.93	386,397.15	794,425.39	32.059653	-103.516372
14,100.00	90.00	179.57	12,445.00	-1,588.35	-338.18	386,297.15	794,426.14	32.059378	-103.516372
14,200.00	90.00	179.57	12,445.00	-1,688.34	-337.43	386,197.16	794,426.88	32.059103	-103.516372
14,300.00	90.00	179.57	12,445.00	-1,788.34	-336.69	386,097.16	794,427.63	32.058828	-103.516372
14,400.00	90.00	179.57	12,445.00	-1,888.34	-335.94	385,997.16	794,428.38	32.058553	-103.516373
14,500.00	90.00	179.57	12,445.00	-1,988.34	-335.19	385,897.17	794,429.13	32.058278	-103.516373
14,600.00	90.00	179.57	12,445.00	-2,088.33	-334.44	385,797.17	794,429.88	32.058003	-103.516373
14,700.00	90.00	179.57	12,445.00	-2,188.33	-333.69	385,697.17	794,430.63	32.057729	-103.516373
14,800.00	90.00	179.57	12,445.00	-2,288.33	-332.94	385,597.18	794,431.38	32.057454	-103.516373
14,900.00	90.00	179.57	12,445.00	-2,388.33	-332.19	385,497.18	794,432.12	32.057179	-103.516373
15,000.00	90.00	179.57	12,445.00	-2,488.32	-331.45	385,397.18	794,432.87	32.056904	-103.516373
15,100.00	90.00	179.57	12,445.00	-2,588.32	-330.70	385,297.18	794,433.62	32.056629	-103.516373
15,200.00	90.00	179.57	12,445.00	-2,688.32	-329.95	385,197.19	794,434.37	32.056354	-103.516373
15,300.00	90.00	179.57	12,445.00	-2,788.31	-329.20	385,097.19	794,435.12	32.056079	-103.516373
15,400.00	90.00	179.57	12,445.00	-2,888.31	-328.45	384,997.19	794,435.87	32.055804	-103.516373
15,500.00	90.00	179.57	12,445.00	-2,988.31	-327.70	384,897.20	794,436.61	32.055530	-103.516373

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7-6 FED 18H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3351.10ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3351.10ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7-6 FED 18H	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	12,445.00	-3,088.31	-326.96	384,797.20	794,437.36	32.055255	-103.516373
15,700.00	90.00	179.57	12,445.00	-3,188.30	-326.21	384,697.20	794,438.11	32.054980	-103.516373
15,800.00	90.00	179.57	12,445.00	-3,288.30	-325.46	384,597.21	794,438.86	32.054705	-103.516373
15,900.00	90.00	179.57	12,445.00	-3,388.30	-324.71	384,497.21	794,439.61	32.054430	-103.516373
16,000.00	90.00	179.57	12,445.00	-3,488.29	-323.96	384,397.21	794,440.36	32.054155	-103.516373
16,100.00	90.00	179.57	12,445.00	-3,588.29	-323.21	384,297.21	794,441.10	32.053880	-103.516373
16,200.00	90.00	179.57	12,445.00	-3,688.29	-322.47	384,197.22	794,441.85	32.053605	-103.516373
16,300.00	90.00	179.57	12,445.00	-3,788.29	-321.72	384,097.22	794,442.60	32.053331	-103.516373
16,400.00	90.00	179.57	12,445.00	-3,888.28	-320.97	383,997.22	794,443.35	32.053056	-103.516373
16,500.00	90.00	179.57	12,445.00	-3,988.28	-320.22	383,897.23	794,444.10	32.052781	-103.516373
16,600.00	90.00	179.57	12,445.00	-4,088.28	-319.47	383,797.23	794,444.85	32.052506	-103.516373
16,700.00	90.00	179.57	12,445.00	-4,188.27	-318.72	383,697.23	794,445.59	32.052231	-103.516373
16,800.00	90.00	179.57	12,445.00	-4,288.27	-317.98	383,597.24	794,446.34	32.051956	-103.516373
16,900.00	90.00	179.57	12,445.00	-4,388.27	-317.23	383,497.24	794,447.09	32.051681	-103.516373
17,000.00	90.00	179.57	12,445.00	-4,488.27	-316.48	383,397.24	794,447.84	32.051406	-103.516373
17,100.00	90.00	179.57	12,445.00	-4,588.26	-315.73	383,297.24	794,448.59	32.051132	-103.516373
17,158.50	90.00	179.57	12,445.00	-4,646.76	-315.29	383,238.75	794,449.03	32.050971	-103.516373
Last Take Point @ 17159' MD, 100' FSL, 360' FWL									
17,159.58	90.00	179.57	12,445.00	-4,647.84	-315.29	383,237.67	794,449.03	32.050968	-103.516373
PBHL; 100' FSL, 360' 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 - Jayhawk 7-6 FEI	0.00	0.00	0.00	-4,647.84	-315.29	383,237.67	794,449.03	32.050968	-103.516373
- plan misses target center by 4658.52ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
VP - Jayhawk 7-6 FED 1	0.00	0.00	11,500.00	337.42	-352.32	388,222.92	794,412.00	32.064671	-103.516371
- plan misses target center by 37.04ft at 11512.20ft MD (11500.11 TVD, 300.38 N, -352.27 E)									
- Point									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
12,384.14	12,310.95	95.76	-350.79	First Take Point @ 12384' MD, 450' FNL, 360' FWL
12,784.14	12,445.00	-272.52	-348.03	Land Point @ 12784' MD, 812' FNL, 360' FWL
17,158.50	12,445.00	-4,646.76	-315.29	Last Take Point @ 17159' MD, 100' FSL, 360' FWL
17,159.58	12,445.00	-4,647.84	-315.29	PBHL; 100' FSL, 360' FWL