

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 07-T26S-R34E

Jayhawk 7 FED 10H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

25 July, 2018

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7 FED 10H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3364.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3364.80ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7 FED 10H	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 10H				
Well Position	+N/-S	0.00 ft	Northing:	387,895.77 usft	Latitude:	32.063737
	+E/-W	0.00 ft	Easting:	796,099.08 usft	Longitude:	-103.510933
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,339.80 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/23/2018	6.79	59.91	47,737.01281732

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	176.18

Plan Survey Tool Program	Date	7/25/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,562.66 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	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,347.64	4.35	28.85	4,347.31	11.54	6.36	1.25	1.25	0.00	28.85	
11,460.36	4.35	28.85	11,439.58	483.56	266.45	0.00	0.00	0.00	0.00	
11,750.06	0.00	0.00	11,729.00	493.18	271.74	1.50	-1.50	0.00	180.00	
12,100.10	0.00	0.00	12,079.04	493.18	271.74	0.00	0.00	0.00	0.00	
13,000.10	90.00	179.57	12,652.00	-79.76	276.00	10.00	10.00	0.00	179.57	PBHL - Jayhawk 7 FE
17,562.66	90.00	179.57	12,652.00	-4,642.19	309.89	0.00	0.00	0.00	0.00	PBHL - Jayhawk 7 FE

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Well:	Jayhawk 7 FED 10H	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	387,895.77	796,099.08	32.063737	-103.510933
100.00	0.00	0.00	100.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
200.00	0.00	0.00	200.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
300.00	0.00	0.00	300.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
400.00	0.00	0.00	400.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
500.00	0.00	0.00	500.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
600.00	0.00	0.00	600.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
700.00	0.00	0.00	700.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
800.00	0.00	0.00	800.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
900.00	0.00	0.00	900.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
1,000.00	0.00	0.00	1,000.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
1,100.00	0.00	0.00	1,100.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
1,200.00	0.00	0.00	1,200.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
1,300.00	0.00	0.00	1,300.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
1,400.00	0.00	0.00	1,400.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
1,500.00	0.00	0.00	1,500.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
1,600.00	0.00	0.00	1,600.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
1,700.00	0.00	0.00	1,700.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
1,800.00	0.00	0.00	1,800.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
1,900.00	0.00	0.00	1,900.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
2,000.00	0.00	0.00	2,000.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
2,100.00	0.00	0.00	2,100.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
2,200.00	0.00	0.00	2,200.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
2,300.00	0.00	0.00	2,300.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
2,400.00	0.00	0.00	2,400.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
2,500.00	0.00	0.00	2,500.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
2,600.00	0.00	0.00	2,600.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
2,700.00	0.00	0.00	2,700.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
2,800.00	0.00	0.00	2,800.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
2,900.00	0.00	0.00	2,900.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
3,000.00	0.00	0.00	3,000.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
3,100.00	0.00	0.00	3,100.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
3,200.00	0.00	0.00	3,200.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
3,300.00	0.00	0.00	3,300.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
3,400.00	0.00	0.00	3,400.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
3,500.00	0.00	0.00	3,500.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
3,600.00	0.00	0.00	3,600.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
3,700.00	0.00	0.00	3,700.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
3,800.00	0.00	0.00	3,800.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
3,900.00	0.00	0.00	3,900.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
4,000.00	0.00	0.00	4,000.00	0.00	0.00	387,895.77	796,099.08	32.063737	-103.510933
4,100.00	1.25	28.85	4,099.99	0.96	0.53	387,896.72	796,099.60	32.063740	-103.510932
4,200.00	2.50	28.85	4,199.94	3.82	2.11	387,899.59	796,101.18	32.063747	-103.510927
4,300.00	3.75	28.85	4,299.79	8.60	4.74	387,904.36	796,103.81	32.063761	-103.510918
4,347.64	4.35	28.85	4,347.31	11.54	6.36	387,907.31	796,105.44	32.063769	-103.510913
4,400.00	4.35	28.85	4,399.52	15.02	8.27	387,910.78	796,107.35	32.063778	-103.510906
4,500.00	4.35	28.85	4,499.23	21.65	11.93	387,917.42	796,111.01	32.063796	-103.510894
4,600.00	4.35	28.85	4,598.94	28.29	15.59	387,924.06	796,114.66	32.063814	-103.510882
4,700.00	4.35	28.85	4,698.65	34.92	19.24	387,930.69	796,118.32	32.063833	-103.510870
4,800.00	4.35	28.85	4,798.37	41.56	22.90	387,937.33	796,121.98	32.063851	-103.510858
4,900.00	4.35	28.85	4,898.08	48.20	26.56	387,943.97	796,125.63	32.063869	-103.510846
5,000.00	4.35	28.85	4,997.79	54.83	30.21	387,950.60	796,129.29	32.063887	-103.510835
5,100.00	4.35	28.85	5,097.50	61.47	33.87	387,957.24	796,132.95	32.063905	-103.510823
5,200.00	4.35	28.85	5,197.22	68.11	37.53	387,963.87	796,136.60	32.063923	-103.510811
5,300.00	4.35	28.85	5,296.93	74.74	41.18	387,970.51	796,140.26	32.063942	-103.510799

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Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3364.80ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7 FED 10H	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	4.35	28.85	5,396.64	81.38	44.84	387,977.15	796,143.92	32.063960	-103.510787
5,500.00	4.35	28.85	5,496.35	88.02	48.50	387,983.78	796,147.57	32.063978	-103.510775
5,600.00	4.35	28.85	5,596.07	94.65	52.15	387,990.42	796,151.23	32.063996	-103.510763
5,700.00	4.35	28.85	5,695.78	101.29	55.81	387,997.06	796,154.89	32.064014	-103.510751
5,800.00	4.35	28.85	5,795.49	107.92	59.47	388,003.69	796,158.54	32.064032	-103.510739
5,900.00	4.35	28.85	5,895.20	114.56	63.12	388,010.33	796,162.20	32.064051	-103.510727
6,000.00	4.35	28.85	5,994.92	121.20	66.78	388,016.97	796,165.86	32.064069	-103.510715
6,100.00	4.35	28.85	6,094.63	127.83	70.44	388,023.60	796,169.51	32.064087	-103.510703
6,200.00	4.35	28.85	6,194.34	134.47	74.09	388,030.24	796,173.17	32.064105	-103.510691
6,300.00	4.35	28.85	6,294.05	141.11	77.75	388,036.87	796,176.83	32.064123	-103.510679
6,400.00	4.35	28.85	6,393.77	147.74	81.41	388,043.51	796,180.48	32.064141	-103.510667
6,500.00	4.35	28.85	6,493.48	154.38	85.06	388,050.15	796,184.14	32.064160	-103.510655
6,600.00	4.35	28.85	6,593.19	161.01	88.72	388,056.78	796,187.80	32.064178	-103.510643
6,700.00	4.35	28.85	6,692.90	167.65	92.38	388,063.42	796,191.45	32.064196	-103.510631
6,800.00	4.35	28.85	6,792.62	174.29	96.03	388,070.06	796,195.11	32.064214	-103.510619
6,900.00	4.35	28.85	6,892.33	180.92	99.69	388,076.69	796,198.77	32.064232	-103.510607
7,000.00	4.35	28.85	6,992.04	187.56	103.35	388,083.33	796,202.42	32.064250	-103.510595
7,100.00	4.35	28.85	7,091.75	194.20	107.00	388,089.96	796,206.08	32.064269	-103.510583
7,200.00	4.35	28.85	7,191.47	200.83	110.66	388,096.60	796,209.74	32.064287	-103.510571
7,300.00	4.35	28.85	7,291.18	207.47	114.32	388,103.24	796,213.39	32.064305	-103.510559
7,400.00	4.35	28.85	7,390.89	214.11	117.97	388,109.87	796,217.05	32.064323	-103.510547
7,500.00	4.35	28.85	7,490.60	220.74	121.63	388,116.51	796,220.71	32.064341	-103.510535
7,600.00	4.35	28.85	7,590.32	227.38	125.29	388,123.15	796,224.36	32.064359	-103.510523
7,700.00	4.35	28.85	7,690.03	234.01	128.94	388,129.78	796,228.02	32.064378	-103.510511
7,800.00	4.35	28.85	7,789.74	240.65	132.60	388,136.42	796,231.68	32.064396	-103.510499
7,900.00	4.35	28.85	7,889.45	247.29	136.26	388,143.05	796,235.33	32.064414	-103.510488
8,000.00	4.35	28.85	7,989.17	253.92	139.91	388,149.69	796,238.99	32.064432	-103.510476
8,100.00	4.35	28.85	8,088.88	260.56	143.57	388,156.33	796,242.65	32.064450	-103.510464
8,200.00	4.35	28.85	8,188.59	267.20	147.23	388,162.96	796,246.30	32.064468	-103.510452
8,300.00	4.35	28.85	8,288.31	273.83	150.88	388,169.60	796,249.96	32.064487	-103.510440
8,400.00	4.35	28.85	8,388.02	280.47	154.54	388,176.24	796,253.62	32.064505	-103.510428
8,500.00	4.35	28.85	8,487.73	287.10	158.20	388,182.87	796,257.27	32.064523	-103.510416
8,600.00	4.35	28.85	8,587.44	293.74	161.85	388,189.51	796,260.93	32.064541	-103.510404
8,700.00	4.35	28.85	8,687.16	300.38	165.51	388,196.15	796,264.59	32.064559	-103.510392
8,800.00	4.35	28.85	8,786.87	307.01	169.17	388,202.78	796,268.24	32.064577	-103.510380
8,900.00	4.35	28.85	8,886.58	313.65	172.82	388,209.42	796,271.90	32.064596	-103.510368
9,000.00	4.35	28.85	8,986.29	320.29	176.48	388,216.05	796,275.56	32.064614	-103.510356
9,100.00	4.35	28.85	9,086.01	326.92	180.14	388,222.69	796,279.21	32.064632	-103.510344
9,200.00	4.35	28.85	9,185.72	333.56	183.79	388,229.33	796,282.87	32.064650	-103.510332
9,300.00	4.35	28.85	9,285.43	340.20	187.45	388,235.96	796,286.53	32.064668	-103.510320
9,400.00	4.35	28.85	9,385.14	346.83	191.11	388,242.60	796,290.18	32.064686	-103.510308
9,500.00	4.35	28.85	9,484.86	353.47	194.76	388,249.24	796,293.84	32.064705	-103.510296
9,600.00	4.35	28.85	9,584.57	360.10	198.42	388,255.87	796,297.50	32.064723	-103.510284
9,700.00	4.35	28.85	9,684.28	366.74	202.08	388,262.51	796,301.15	32.064741	-103.510272
9,800.00	4.35	28.85	9,783.99	373.38	205.73	388,269.14	796,304.81	32.064759	-103.510260
9,900.00	4.35	28.85	9,883.71	380.01	209.39	388,275.78	796,308.47	32.064777	-103.510248
10,000.00	4.35	28.85	9,983.42	386.65	213.05	388,282.42	796,312.12	32.064795	-103.510236
10,100.00	4.35	28.85	10,083.13	393.29	216.70	388,289.05	796,315.78	32.064814	-103.510224
10,200.00	4.35	28.85	10,182.84	399.92	220.36	388,295.69	796,319.44	32.064832	-103.510212
10,300.00	4.35	28.85	10,282.56	406.56	224.02	388,302.33	796,323.09	32.064850	-103.510200
10,400.00	4.35	28.85	10,382.27	413.19	227.67	388,308.96	796,326.75	32.064868	-103.510188
10,500.00	4.35	28.85	10,481.98	419.83	231.33	388,315.60	796,330.41	32.064886	-103.510176
10,600.00	4.35	28.85	10,581.69	426.47	234.99	388,322.24	796,334.06	32.064904	-103.510164
10,700.00	4.35	28.85	10,681.41	433.10	238.64	388,328.87	796,337.72	32.064922	-103.510152
10,800.00	4.35	28.85	10,781.12	439.74	242.30	388,335.51	796,341.38	32.064941	-103.510140

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Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7 FED 10H
Company:	WCDSO Permian NM	TVD Reference:	RKB @ 3364.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3364.80ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7 FED 10H	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	4.35	28.85	10,880.83	446.38	245.96	388,342.14	796,345.03	32.064959	-103.510129
11,000.00	4.35	28.85	10,980.54	453.01	249.61	388,348.78	796,348.69	32.064977	-103.510117
11,100.00	4.35	28.85	11,080.26	459.65	253.27	388,355.42	796,352.35	32.064995	-103.510105
11,200.00	4.35	28.85	11,179.97	466.29	256.93	388,362.05	796,356.00	32.065013	-103.510093
11,300.00	4.35	28.85	11,279.68	472.92	260.58	388,368.69	796,359.66	32.065031	-103.510081
11,400.00	4.35	28.85	11,379.39	479.56	264.24	388,375.33	796,363.32	32.065050	-103.510069
11,460.36	4.35	28.85	11,439.58	483.56	266.45	388,379.33	796,365.52	32.065061	-103.510061
11,500.00	3.75	28.85	11,479.12	486.01	267.80	388,381.78	796,366.87	32.065067	-103.510057
11,600.00	2.25	28.85	11,578.98	490.60	270.32	388,386.37	796,369.40	32.065080	-103.510049
11,700.00	0.75	28.85	11,678.94	492.89	271.59	388,388.66	796,370.66	32.065086	-103.510045
11,750.06	0.00	0.00	11,729.00	493.18	271.74	388,388.95	796,370.82	32.065087	-103.510044
11,800.00	0.00	0.00	11,778.94	493.18	271.74	388,388.95	796,370.82	32.065087	-103.510044
11,900.00	0.00	0.00	11,878.94	493.18	271.74	388,388.95	796,370.82	32.065087	-103.510044
12,000.00	0.00	0.00	11,978.94	493.18	271.74	388,388.95	796,370.82	32.065087	-103.510044
12,100.00	0.00	0.00	12,078.94	493.18	271.74	388,388.95	796,370.82	32.065087	-103.510044
12,100.10	0.00	0.00	12,079.04	493.18	271.74	388,388.95	796,370.82	32.065087	-103.510044
KOP @ 12100' MD, 620' FNL, 2321' FWL									
12,200.00	9.99	179.57	12,178.44	484.49	271.81	388,380.26	796,370.89	32.065063	-103.510044
12,300.00	19.99	179.57	12,274.91	458.66	272.00	388,354.43	796,371.08	32.064992	-103.510044
12,348.91	24.88	179.57	12,320.11	440.00	272.14	388,335.77	796,371.22	32.064941	-103.510044
First Take Point @ 12349' MD, 100' FNL, 2317' FWL									
12,400.00	29.99	179.57	12,365.43	416.47	272.31	388,312.24	796,371.39	32.064876	-103.510044
12,500.00	39.99	179.57	12,447.26	359.20	272.74	388,254.97	796,371.82	32.064719	-103.510044
12,600.00	49.99	179.57	12,517.89	288.59	273.26	388,184.36	796,372.34	32.064525	-103.510044
12,700.00	59.99	179.57	12,575.19	206.80	273.87	388,102.56	796,372.95	32.064300	-103.510044
12,800.00	69.99	179.57	12,617.41	116.29	274.54	388,012.06	796,373.62	32.064051	-103.510044
12,900.00	79.99	179.57	12,643.28	19.83	275.26	387,915.59	796,374.34	32.063786	-103.510044
13,000.00	89.99	179.57	12,652.00	-79.66	276.00	387,816.11	796,375.08	32.063512	-103.510044
13,000.10	90.00	179.57	12,652.00	-79.76	276.00	387,816.01	796,375.08	32.063512	-103.510044
13,100.00	90.00	179.57	12,652.00	-179.66	276.74	387,716.11	796,375.82	32.063237	-103.510045
13,200.00	90.00	179.57	12,652.00	-279.66	277.49	387,616.11	796,376.56	32.062963	-103.510045
13,300.00	90.00	179.57	12,652.00	-379.65	278.23	387,516.12	796,377.31	32.062688	-103.510045
13,400.00	90.00	179.57	12,652.00	-479.65	278.97	387,416.12	796,378.05	32.062413	-103.510045
13,500.00	90.00	179.57	12,652.00	-579.65	279.71	387,316.12	796,378.79	32.062138	-103.510045
13,600.00	90.00	179.57	12,652.00	-679.65	280.46	387,216.12	796,379.53	32.061863	-103.510045
13,700.00	90.00	179.57	12,652.00	-779.64	281.20	387,116.13	796,380.28	32.061588	-103.510045
13,800.00	90.00	179.57	12,652.00	-879.64	281.94	387,016.13	796,381.02	32.061313	-103.510045
13,900.00	90.00	179.57	12,652.00	-979.64	282.69	386,916.13	796,381.76	32.061038	-103.510045
14,000.00	90.00	179.57	12,652.00	-1,079.63	283.43	386,816.14	796,382.51	32.060764	-103.510045
14,100.00	90.00	179.57	12,652.00	-1,179.63	284.17	386,716.14	796,383.25	32.060489	-103.510045
14,200.00	90.00	179.57	12,652.00	-1,279.63	284.91	386,616.14	796,383.99	32.060214	-103.510045
14,300.00	90.00	179.57	12,652.00	-1,379.63	285.66	386,516.14	796,384.73	32.059939	-103.510045
14,400.00	90.00	179.57	12,652.00	-1,479.62	286.40	386,416.15	796,385.48	32.059664	-103.510045
14,500.00	90.00	179.57	12,652.00	-1,579.62	287.14	386,316.15	796,386.22	32.059389	-103.510045
14,600.00	90.00	179.57	12,652.00	-1,679.62	287.89	386,216.15	796,386.96	32.059114	-103.510046
14,700.00	90.00	179.57	12,652.00	-1,779.62	288.63	386,116.16	796,387.71	32.058839	-103.510046
14,800.00	90.00	179.57	12,652.00	-1,879.61	289.37	386,016.16	796,388.45	32.058564	-103.510046
14,900.00	90.00	179.57	12,652.00	-1,979.61	290.11	385,916.16	796,389.19	32.058290	-103.510046
15,000.00	90.00	179.57	12,652.00	-2,079.61	290.86	385,816.17	796,389.93	32.058015	-103.510046
15,100.00	90.00	179.57	12,652.00	-2,179.60	291.60	385,716.17	796,390.68	32.057740	-103.510046
15,200.00	90.00	179.57	12,652.00	-2,279.60	292.34	385,616.17	796,391.42	32.057465	-103.510046
15,300.00	90.00	179.57	12,652.00	-2,379.60	293.08	385,516.17	796,392.16	32.057190	-103.510046
15,400.00	90.00	179.57	12,652.00	-2,479.60	293.83	385,416.18	796,392.90	32.056915	-103.510046
15,500.00	90.00	179.57	12,652.00	-2,579.59	294.57	385,316.18	796,393.65	32.056640	-103.510046

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7 FED 10H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3364.80ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3364.80ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7 FED 10H	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	12,652.00	-2,679.59	295.31	385,216.18	796,394.39	32.056365	-103.510046
15,700.00	90.00	179.57	12,652.00	-2,779.59	296.06	385,116.19	796,395.13	32.056091	-103.510046
15,800.00	90.00	179.57	12,652.00	-2,879.59	296.80	385,016.19	796,395.88	32.055816	-103.510046
15,900.00	90.00	179.57	12,652.00	-2,979.58	297.54	384,916.19	796,396.62	32.055541	-103.510046
16,000.00	90.00	179.57	12,652.00	-3,079.58	298.28	384,816.20	796,397.36	32.055266	-103.510046
16,100.00	90.00	179.57	12,652.00	-3,179.58	299.03	384,716.20	796,398.10	32.054991	-103.510046
16,200.00	90.00	179.57	12,652.00	-3,279.57	299.77	384,616.20	796,398.85	32.054716	-103.510047
16,300.00	90.00	179.57	12,652.00	-3,379.57	300.51	384,516.20	796,399.59	32.054441	-103.510047
16,400.00	90.00	179.57	12,652.00	-3,479.57	301.26	384,416.21	796,400.33	32.054166	-103.510047
16,500.00	90.00	179.57	12,652.00	-3,579.57	302.00	384,316.21	796,401.08	32.053892	-103.510047
16,600.00	90.00	179.57	12,652.00	-3,679.56	302.74	384,216.21	796,401.82	32.053617	-103.510047
16,700.00	90.00	179.57	12,652.00	-3,779.56	303.48	384,116.22	796,402.56	32.053342	-103.510047
16,800.00	90.00	179.57	12,652.00	-3,879.56	304.23	384,016.22	796,403.30	32.053067	-103.510047
16,900.00	90.00	179.57	12,652.00	-3,979.55	304.97	383,916.22	796,404.05	32.052792	-103.510047
17,000.00	90.00	179.57	12,652.00	-4,079.55	305.71	383,816.22	796,404.79	32.052517	-103.510047
17,100.00	90.00	179.57	12,652.00	-4,179.55	306.46	383,716.23	796,405.53	32.052242	-103.510047
17,200.00	90.00	179.57	12,652.00	-4,279.55	307.20	383,616.23	796,406.28	32.051967	-103.510047
17,300.00	90.00	179.57	12,652.00	-4,379.54	307.94	383,516.23	796,407.02	32.051693	-103.510047
17,400.00	90.00	179.57	12,652.00	-4,479.54	308.68	383,416.24	796,407.76	32.051418	-103.510047
17,500.00	90.00	179.57	12,652.00	-4,579.54	309.43	383,316.24	796,408.50	32.051143	-103.510047
17,561.50	90.00	179.57	12,652.00	-4,641.04	309.88	383,254.74	796,408.96	32.050974	-103.510047
Last Take Point @ 17562' MD, 100' FSL, 2320' FWL									
17,562.66	90.00	179.57	12,652.00	-4,642.19	309.89	383,253.59	796,408.97	32.050971	-103.510047
PBHL; 100' FSL, 2320' 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	0.01	0.00	-4,642.19	309.89	383,253.59	796,408.97	32.050971	-103.510047
- hit/miss target									
- Shape									
- plan misses target center by 4652.52ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
VP - Jayhawk 7 FED 10I	0.00	0.00	11,400.00	493.18	271.74	388,388.95	796,370.82	32.065087	-103.510044
- plan misses target center by 13.95ft at 11421.73ft MD (11401.06 TVD, 481.00 N, 265.03 E)									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
12,100.10	12,079.04	493.18	271.74	KOP @ 12100' MD, 620' FNL, 2321' FWL	
12,348.91	12,320.11	440.00	272.14	First Take Point @ 12349' MD, 100' FNL, 2317' FWL	
17,561.50	12,652.00	-4,641.04	309.88	Last Take Point @ 17562' MD, 100' FSL, 2320' FWL	
17,562.66	12,652.00	-4,642.19	309.89	PBHL; 100' FSL, 2320' FWL	

WCDSC Permian NM

WELL DETAILS: Jayhawk 7 FED 10H

RKB @ 3364.80ft 3339.80			
Northing 387895.77	Easting 796099.08	Latitude 32.063737	Longitude -103.510933

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	
	4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	
	4347.64	4.35	28.85	4347.31	11.54	6.36	1.25	-11.09	
	11460.36	4.35	28.85	11439.58	483.56	266.45	0.00	-464.74	
5	11750.06	0.00	0.00	11729.00	493.18	271.74	1.50	-473.99	
6	12100.10	0.00	0.00	12079.04	493.18	271.74	0.00	-473.99	KOP @ 12100' MD, 620' FNL, 2321' FWL
7	13000.10	90.00	179.57	12652.00	-79.76	276.00	10.00	97.97	
8	17562.66	90.00	179.57	12652.00	-4642.19	309.89	0.00	4652.52	PBHL; 100' FSL, 2320' FWL

