

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 06-T26S-R34E

Jayhawk 6-7 FED 10H

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 10H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3341.50ft (Original Well Elev)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3341.50ft (Original Well Elev)
Site:	Sec 06-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 6-7 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 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 10H					
Well Position	+N-S	0.00 ft	Northing:	393,263.10 usft	Latitude:	32.078494
	+E-W	0.00 ft	Easting:	795,923.91 usft	Longitude:	-103.511367
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,316.50 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/23/2018	6.80	59.92	47,745.89927116

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	174.61

Plan Survey Tool Program	Date	7/24/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,401.84 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	
5,343.00	4.29	58.15	5,342.68	6.77	10.90	1.25	1.25	0.00	58.15	
11,460.88	4.29	58.15	11,443.44	248.10	399.42	0.00	0.00	0.00	0.00	
11,746.71	0.00	0.00	11,729.00	253.74	408.50	1.50	-1.50	0.00	180.00	
12,096.75	0.00	0.00	12,079.04	253.74	408.50	0.00	0.00	0.00	0.00	
12,996.75	90.00	179.57	12,652.00	-319.20	412.79	10.00	10.00	0.00	179.57	PBHL - Jayhawk 6-7 f
17,401.84	90.00	179.57	12,652.00	-4,724.16	445.79	0.00	0.00	0.00	0.00	PBHL - Jayhawk 6-7 f

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Well:	Jayhawk 6-7 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	393,263.10	795,923.91	32.078494	-103.511367
100.00	0.00	0.00	100.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
200.00	0.00	0.00	200.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
300.00	0.00	0.00	300.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
400.00	0.00	0.00	400.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
500.00	0.00	0.00	500.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
600.00	0.00	0.00	600.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
700.00	0.00	0.00	700.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
800.00	0.00	0.00	800.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
900.00	0.00	0.00	900.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
1,000.00	0.00	0.00	1,000.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
1,100.00	0.00	0.00	1,100.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
1,200.00	0.00	0.00	1,200.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
1,300.00	0.00	0.00	1,300.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
1,400.00	0.00	0.00	1,400.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
1,500.00	0.00	0.00	1,500.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
1,600.00	0.00	0.00	1,600.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
1,700.00	0.00	0.00	1,700.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
1,800.00	0.00	0.00	1,800.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
1,900.00	0.00	0.00	1,900.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
2,000.00	0.00	0.00	2,000.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
2,100.00	0.00	0.00	2,100.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
2,200.00	0.00	0.00	2,200.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
2,300.00	0.00	0.00	2,300.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
2,400.00	0.00	0.00	2,400.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
2,500.00	0.00	0.00	2,500.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
2,600.00	0.00	0.00	2,600.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
2,700.00	0.00	0.00	2,700.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
2,800.00	0.00	0.00	2,800.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
2,900.00	0.00	0.00	2,900.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
3,000.00	0.00	0.00	3,000.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
3,100.00	0.00	0.00	3,100.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
3,200.00	0.00	0.00	3,200.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
3,300.00	0.00	0.00	3,300.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
3,400.00	0.00	0.00	3,400.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
3,500.00	0.00	0.00	3,500.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
3,600.00	0.00	0.00	3,600.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
3,700.00	0.00	0.00	3,700.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
3,800.00	0.00	0.00	3,800.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
3,900.00	0.00	0.00	3,900.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
4,000.00	0.00	0.00	4,000.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
4,100.00	0.00	0.00	4,100.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
4,200.00	0.00	0.00	4,200.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
4,300.00	0.00	0.00	4,300.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
4,400.00	0.00	0.00	4,400.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
4,500.00	0.00	0.00	4,500.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
4,600.00	0.00	0.00	4,600.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
4,700.00	0.00	0.00	4,700.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
4,800.00	0.00	0.00	4,800.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
4,900.00	0.00	0.00	4,900.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
5,000.00	0.00	0.00	5,000.00	0.00	0.00	393,263.10	795,923.91	32.078494	-103.511367
5,100.00	1.25	58.15	5,099.99	0.58	0.93	393,263.67	795,924.83	32.078495	-103.511364
5,200.00	2.50	58.15	5,199.94	2.30	3.71	393,265.40	795,927.61	32.078500	-103.511355
5,300.00	3.75	58.15	5,299.79	5.18	8.34	393,268.28	795,932.24	32.078508	-103.511340
5,343.00	4.29	58.15	5,342.68	6.77	10.90	393,269.87	795,934.80	32.078512	-103.511332

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Well:	Jayhawk 6-7 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	4.29	58.15	5,399.52	9.02	14.52	393,272.12	795,938.42	32.078518	-103.511320
5,500.00	4.29	58.15	5,499.24	12.96	20.87	393,276.06	795,944.77	32.078529	-103.511299
5,600.00	4.29	58.15	5,598.96	16.91	27.22	393,280.01	795,951.13	32.078540	-103.511279
5,700.00	4.29	58.15	5,698.68	20.85	33.57	393,283.95	795,957.48	32.078550	-103.511258
5,800.00	4.29	58.15	5,798.40	24.80	39.92	393,287.89	795,963.83	32.078561	-103.511237
5,900.00	4.29	58.15	5,898.12	28.74	46.27	393,291.84	795,970.18	32.078572	-103.511217
6,000.00	4.29	58.15	5,997.84	32.69	52.62	393,295.78	795,976.53	32.078583	-103.511196
6,100.00	4.29	58.15	6,097.56	36.63	58.97	393,299.73	795,982.88	32.078593	-103.511176
6,200.00	4.29	58.15	6,197.28	40.57	65.32	393,303.67	795,989.23	32.078604	-103.511155
6,300.00	4.29	58.15	6,297.00	44.52	71.67	393,307.62	795,995.58	32.078615	-103.511134
6,400.00	4.29	58.15	6,396.72	48.46	78.02	393,311.56	796,001.93	32.078625	-103.511114
6,500.00	4.29	58.15	6,496.44	52.41	84.37	393,315.51	796,008.28	32.078636	-103.511093
6,600.00	4.29	58.15	6,596.16	56.35	90.72	393,319.45	796,014.63	32.078647	-103.511073
6,700.00	4.29	58.15	6,695.88	60.30	97.07	393,323.40	796,020.98	32.078658	-103.511052
6,800.00	4.29	58.15	6,795.60	64.24	103.42	393,327.34	796,027.33	32.078668	-103.511031
6,900.00	4.29	58.15	6,895.32	68.19	109.77	393,331.29	796,033.68	32.078679	-103.511011
7,000.00	4.29	58.15	6,995.04	72.13	116.13	393,335.23	796,040.03	32.078690	-103.510990
7,100.00	4.29	58.15	7,094.76	76.08	122.48	393,339.18	796,046.38	32.078700	-103.510970
7,200.00	4.29	58.15	7,194.48	80.02	128.83	393,343.12	796,052.73	32.078711	-103.510949
7,300.00	4.29	58.15	7,294.20	83.97	135.18	393,347.07	796,059.08	32.078722	-103.510928
7,400.00	4.29	58.15	7,393.92	87.91	141.53	393,351.01	796,065.44	32.078732	-103.510908
7,500.00	4.29	58.15	7,493.64	91.86	147.88	393,354.95	796,071.79	32.078743	-103.510887
7,600.00	4.29	58.15	7,593.36	95.80	154.23	393,358.90	796,078.14	32.078754	-103.510867
7,700.00	4.29	58.15	7,693.08	99.75	160.58	393,362.84	796,084.49	32.078765	-103.510846
7,800.00	4.29	58.15	7,792.80	103.69	166.93	393,366.79	796,090.84	32.078775	-103.510825
7,900.00	4.29	58.15	7,892.52	107.63	173.28	393,370.73	796,097.19	32.078786	-103.510805
8,000.00	4.29	58.15	7,992.24	111.58	179.63	393,374.68	796,103.54	32.078797	-103.510784
8,100.00	4.29	58.15	8,091.96	115.52	185.98	393,378.62	796,109.89	32.078807	-103.510764
8,200.00	4.29	58.15	8,191.69	119.47	192.33	393,382.57	796,116.24	32.078818	-103.510743
8,300.00	4.29	58.15	8,291.41	123.41	198.68	393,386.51	796,122.59	32.078829	-103.510722
8,400.00	4.29	58.15	8,391.13	127.36	205.03	393,390.46	796,128.94	32.078840	-103.510702
8,500.00	4.29	58.15	8,490.85	131.30	211.38	393,394.40	796,135.29	32.078850	-103.510681
8,600.00	4.29	58.15	8,590.57	135.25	217.73	393,398.35	796,141.64	32.078861	-103.510661
8,700.00	4.29	58.15	8,690.29	139.19	224.08	393,402.29	796,147.99	32.078872	-103.510640
8,800.00	4.29	58.15	8,790.01	143.14	230.44	393,406.24	796,154.34	32.078882	-103.510619
8,900.00	4.29	58.15	8,889.73	147.08	236.79	393,410.18	796,160.69	32.078893	-103.510599
9,000.00	4.29	58.15	8,989.45	151.03	243.14	393,414.13	796,167.04	32.078904	-103.510578
9,100.00	4.29	58.15	9,089.17	154.97	249.49	393,418.07	796,173.39	32.078915	-103.510558
9,200.00	4.29	58.15	9,188.89	158.92	255.84	393,422.01	796,179.75	32.078925	-103.510537
9,300.00	4.29	58.15	9,288.61	162.86	262.19	393,425.96	796,186.10	32.078936	-103.510516
9,400.00	4.29	58.15	9,388.33	166.81	268.54	393,429.90	796,192.45	32.078947	-103.510496
9,500.00	4.29	58.15	9,488.05	170.75	274.89	393,433.85	796,198.80	32.078957	-103.510475
9,600.00	4.29	58.15	9,587.77	174.70	281.24	393,437.79	796,205.15	32.078968	-103.510455
9,700.00	4.29	58.15	9,687.49	178.64	287.59	393,441.74	796,211.50	32.078979	-103.510434
9,800.00	4.29	58.15	9,787.21	182.58	293.94	393,445.68	796,217.85	32.078990	-103.510413
9,900.00	4.29	58.15	9,886.93	186.53	300.29	393,449.63	796,224.20	32.079000	-103.510393
10,000.00	4.29	58.15	9,986.65	190.47	306.64	393,453.57	796,230.55	32.079011	-103.510372
10,100.00	4.29	58.15	10,086.37	194.42	312.99	393,457.52	796,236.90	32.079022	-103.510352
10,200.00	4.29	58.15	10,186.09	198.36	319.34	393,461.46	796,243.25	32.079032	-103.510331
10,300.00	4.29	58.15	10,285.81	202.31	325.69	393,465.41	796,249.60	32.079043	-103.510310
10,400.00	4.29	58.15	10,385.53	206.25	332.04	393,469.35	796,255.95	32.079054	-103.510290
10,500.00	4.29	58.15	10,485.25	210.20	338.40	393,473.30	796,262.30	32.079064	-103.510269
10,600.00	4.29	58.15	10,584.97	214.14	344.75	393,477.24	796,268.65	32.079075	-103.510249
10,700.00	4.29	58.15	10,684.69	218.09	351.10	393,481.19	796,275.00	32.079086	-103.510228
10,800.00	4.29	58.15	10,784.41	222.03	357.45	393,485.13	796,281.35	32.079097	-103.510207

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Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3341.50ft (Original Well Elev)
Site:	Sec 06-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 6-7 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	4.29	58.15	10,884.13	225.98	363.80	393,489.07	796,287.70	32.079107	-103.510187
11,000.00	4.29	58.15	10,983.85	229.92	370.15	393,493.02	796,294.05	32.079118	-103.510166
11,100.00	4.29	58.15	11,083.57	233.87	376.50	393,496.96	796,300.41	32.079129	-103.510146
11,200.00	4.29	58.15	11,183.29	237.81	382.85	393,500.91	796,306.76	32.079139	-103.510125
11,300.00	4.29	58.15	11,283.01	241.76	389.20	393,504.85	796,313.11	32.079150	-103.510104
11,400.00	4.29	58.15	11,382.73	245.70	395.55	393,508.80	796,319.46	32.079161	-103.510084
11,460.88	4.29	58.15	11,443.44	248.10	399.42	393,511.20	796,323.32	32.079167	-103.510071
11,500.00	3.70	58.15	11,482.46	249.54	401.73	393,512.64	796,325.64	32.079171	-103.510064
11,600.00	2.20	58.15	11,582.33	252.26	406.10	393,515.35	796,330.01	32.079179	-103.510050
11,700.00	0.70	58.15	11,682.29	253.59	408.25	393,516.69	796,332.16	32.079182	-103.510043
11,746.71	0.00	0.00	11,729.00	253.74	408.50	393,516.84	796,332.40	32.079183	-103.510042
11,800.00	0.00	0.00	11,782.29	253.74	408.50	393,516.84	796,332.40	32.079183	-103.510042
11,900.00	0.00	0.00	11,882.29	253.74	408.50	393,516.84	796,332.40	32.079183	-103.510042
12,000.00	0.00	0.00	11,982.29	253.74	408.50	393,516.84	796,332.40	32.079183	-103.510042
12,096.75	0.00	0.00	12,079.04	253.74	408.50	393,516.84	796,332.40	32.079183	-103.510042
12,100.00	0.33	179.57	12,082.29	253.73	408.50	393,516.83	796,332.40	32.079183	-103.510042
12,200.00	10.33	179.57	12,181.74	244.46	408.57	393,507.56	796,332.47	32.079157	-103.510042
12,300.00	20.33	179.57	12,278.06	218.07	408.76	393,481.17	796,332.67	32.079085	-103.510042
12,400.00	30.33	179.57	12,368.33	175.35	409.08	393,438.45	796,332.99	32.078967	-103.510042
12,500.00	40.33	179.57	12,449.82	117.60	409.52	393,380.70	796,333.42	32.078808	-103.510042
12,597.00	50.03	179.57	12,518.11	48.89	410.03	393,311.99	796,333.94	32.078620	-103.510042
First Take Point @ 12597' MD, 400' FNL, 2320' FWL									
12,600.00	50.33	179.57	12,520.04	46.58	410.05	393,309.68	796,333.96	32.078613	-103.510042
12,700.00	60.33	179.57	12,576.86	-35.55	410.66	393,227.55	796,334.57	32.078388	-103.510042
12,800.00	70.33	179.57	12,618.55	-126.30	411.34	393,136.80	796,335.25	32.078138	-103.510042
12,900.00	80.33	179.57	12,643.85	-222.91	412.07	393,040.19	796,335.97	32.077872	-103.510042
12,996.75	90.00	179.57	12,652.00	-319.20	412.79	392,943.90	796,336.70	32.077608	-103.510042
Land Point @ 12997' MD, 770' FNL, 2312' FWL									
13,000.00	90.00	179.57	12,652.00	-322.45	412.81	392,940.65	796,336.72	32.077599	-103.510042
13,100.00	90.00	179.57	12,652.00	-422.45	413.56	392,840.65	796,337.47	32.077324	-103.510042
13,200.00	90.00	179.57	12,652.00	-522.45	414.31	392,740.65	796,338.22	32.077049	-103.510042
13,300.00	90.00	179.57	12,652.00	-622.44	415.06	392,640.66	796,338.97	32.076774	-103.510042
13,400.00	90.00	179.57	12,652.00	-722.44	415.81	392,540.66	796,339.72	32.076499	-103.510042
13,500.00	90.00	179.57	12,652.00	-822.44	416.56	392,440.66	796,340.47	32.076224	-103.510042
13,600.00	90.00	179.57	12,652.00	-922.44	417.31	392,340.67	796,341.22	32.075950	-103.510042
13,700.00	90.00	179.57	12,652.00	-1,022.43	418.06	392,240.67	796,341.97	32.075675	-103.510042
13,800.00	90.00	179.57	12,652.00	-1,122.43	418.81	392,140.67	796,342.71	32.075400	-103.510042
13,900.00	90.00	179.57	12,652.00	-1,222.43	419.56	392,040.67	796,343.46	32.075125	-103.510042
14,000.00	90.00	179.57	12,652.00	-1,322.42	420.31	391,940.68	796,344.21	32.074850	-103.510043
14,100.00	90.00	179.57	12,652.00	-1,422.42	421.06	391,840.68	796,344.96	32.074575	-103.510043
14,200.00	90.00	179.57	12,652.00	-1,522.42	421.80	391,740.68	796,345.71	32.074300	-103.510043
14,300.00	90.00	179.57	12,652.00	-1,622.42	422.55	391,640.69	796,346.46	32.074025	-103.510043
14,400.00	90.00	179.57	12,652.00	-1,722.41	423.30	391,540.69	796,347.21	32.073751	-103.510043
14,500.00	90.00	179.57	12,652.00	-1,822.41	424.05	391,440.69	796,347.96	32.073476	-103.510043
14,600.00	90.00	179.57	12,652.00	-1,922.41	424.80	391,340.70	796,348.71	32.073201	-103.510043
14,700.00	90.00	179.57	12,652.00	-2,022.40	425.55	391,240.70	796,349.46	32.072926	-103.510043
14,800.00	90.00	179.57	12,652.00	-2,122.40	426.30	391,140.70	796,350.21	32.072651	-103.510043
14,900.00	90.00	179.57	12,652.00	-2,222.40	427.05	391,040.70	796,350.96	32.072376	-103.510043
15,000.00	90.00	179.57	12,652.00	-2,322.40	427.80	390,940.71	796,351.71	32.072101	-103.510043
15,100.00	90.00	179.57	12,652.00	-2,422.39	428.55	390,840.71	796,352.45	32.071826	-103.510043
15,200.00	90.00	179.57	12,652.00	-2,522.39	429.30	390,740.71	796,353.20	32.071552	-103.510043
15,300.00	90.00	179.57	12,652.00	-2,622.39	430.05	390,640.72	796,353.95	32.071277	-103.510043
15,400.00	90.00	179.57	12,652.00	-2,722.38	430.80	390,540.72	796,354.70	32.071002	-103.510043
15,500.00	90.00	179.57	12,652.00	-2,822.38	431.55	390,440.72	796,355.45	32.070727	-103.510043

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 6-7 FED 10H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3341.50ft (Original Well Elev)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3341.50ft (Original Well Elev)
Site:	Sec 06-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 6-7 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	-2,922.38	432.29	390,340.73	796,356.20	32.070452	-103.510043
15,700.00	90.00	179.57	12,652.00	-3,022.38	433.04	390,240.73	796,356.95	32.070177	-103.510043
15,800.00	90.00	179.57	12,652.00	-3,122.37	433.79	390,140.73	796,357.70	32.069902	-103.510043
15,900.00	90.00	179.57	12,652.00	-3,222.37	434.54	390,040.73	796,358.45	32.069627	-103.510043
16,000.00	90.00	179.57	12,652.00	-3,322.37	435.29	389,940.74	796,359.20	32.069353	-103.510043
16,100.00	90.00	179.57	12,652.00	-3,422.36	436.04	389,840.74	796,359.95	32.069078	-103.510043
16,200.00	90.00	179.57	12,652.00	-3,522.36	436.79	389,740.74	796,360.70	32.068803	-103.510044
16,300.00	90.00	179.57	12,652.00	-3,622.36	437.54	389,640.75	796,361.45	32.068528	-103.510044
16,400.00	90.00	179.57	12,652.00	-3,722.36	438.29	389,540.75	796,362.20	32.068253	-103.510044
16,500.00	90.00	179.57	12,652.00	-3,822.35	439.04	389,440.75	796,362.94	32.067978	-103.510044
16,600.00	90.00	179.57	12,652.00	-3,922.35	439.79	389,340.76	796,363.69	32.067703	-103.510044
16,700.00	90.00	179.57	12,652.00	-4,022.35	440.54	389,240.76	796,364.44	32.067428	-103.510044
16,800.00	90.00	179.57	12,652.00	-4,122.35	441.29	389,140.76	796,365.19	32.067154	-103.510044
16,900.00	90.00	179.57	12,652.00	-4,222.34	442.03	389,040.76	796,365.94	32.066879	-103.510044
17,000.00	90.00	179.57	12,652.00	-4,322.34	442.78	388,940.77	796,366.69	32.066604	-103.510044
17,100.00	90.00	179.57	12,652.00	-4,422.34	443.53	388,840.77	796,367.44	32.066329	-103.510044
17,200.00	90.00	179.57	12,652.00	-4,522.33	444.28	388,740.77	796,368.19	32.066054	-103.510044
17,300.00	90.00	179.57	12,652.00	-4,622.33	445.03	388,640.78	796,368.94	32.065779	-103.510044
17,400.00	90.00	179.57	12,652.00	-4,722.33	445.78	388,540.78	796,369.69	32.065504	-103.510044
17,400.50	90.00	179.57	12,652.00	-4,722.83	445.78	388,540.28	796,369.69	32.065503	-103.510044
Last Take Point @ 17401' MD, 100' FSL, 2320' FWL									
17,401.84	90.00	179.57	12,652.00	-4,724.16	445.79	388,538.94	796,369.70	32.065499	-103.510044
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
- hit/miss target									
- Shape									
PBHL - Jayhawk 6-7 FEI	0.00	0.00	0.00	-4,724.16	445.79	388,538.94	796,369.70	32.065499	-103.510044
- plan misses target center by 4745.15ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
VP - Jayhawk 10H	0.00	0.00	11,600.00	253.74	408.50	393,516.84	796,332.40	32.079183	-103.510042
- plan misses target center by 2.18ft at 11617.74ft MD (11600.05 TVD, 252.59 N, 406.65 E)									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
12,597.00	12,518.11	48.89	410.03	First Take Point @ 12597' MD, 400' FNL, 2320' FWL	
12,996.75	12,652.00	-319.20	412.79	Land Point @ 12997' MD, 770' FNL, 2312' FWL	
17,400.50	12,652.00	-4,722.83	445.78	Last Take Point @ 17401' MD, 100' FSL, 2320' FWL	
17,401.84	12,652.00	-4,724.16	445.79	PBHL; 100' FSL, 2320' FWL	

WCDSC Permian NM

WELL DETAILS: Jayhawk 6-7 FED 10H

RKB @ 3341.50ft (Original Well Elev)
3316.50

Northing	Easting	Latitude	Longitude
393263.10	795923.91	32.078494	-103.511367



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	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	
5343.00	4.29	58.15	5342.68	6.77	10.90	1.25	-5.71	
11460.88	4.29	58.15	11443.44	248.10	399.42	0.00	-209.48	
11746.71	0.00	0.00	11729.00	253.74	408.50	1.50	-214.24	
12096.75	0.00	0.00	12079.04	253.74	408.50	0.00	-214.24	
12996.75	90.00	179.57	12652.00	-319.20	412.79	10.00	356.57	Land Point @ 12997' MD, 770' FNL, 2312' FWL
17401.84	90.00	179.57	12652.00	-4724.16	445.79	0.00	4745.15	PBHL; 100' FSL, 2320' FWL

