

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 07-T26S-R34E

Jayhawk 7 Fed 13H

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 13H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3364.60ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3364.60ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7 Fed 13H	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 13H					
Well Position	+N/-S	0.00 ft	Northing:	387,895.50 usft	Latitude:	32.063737
	+E/-W	0.00 ft	Easting:	796,069.08 usft	Longitude:	-103.511030
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,339.60 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/23/2018	6.79	59.91	47,737.00413010

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	191.78

Plan Survey Tool Program	Date	7/25/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,435.86 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	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,890.45	7.38	287.21	3,888.82	11.24	-36.28	1.25	1.25	0.00	287.21	
11,311.43	7.38	287.21	11,248.32	293.37	-946.87	0.00	0.00	0.00	0.00	
11,803.48	0.00	0.00	11,739.00	302.74	-977.10	1.50	-1.50	0.00	180.00	
12,153.52	0.00	0.00	12,089.04	302.74	-977.10	0.00	0.00	0.00	0.00	
13,053.52	90.00	179.92	12,662.00	-270.22	-976.29	10.00	10.00	0.00	179.92	PBHL - Jayhawk 7 Fe
17,435.86	90.00	179.92	12,662.00	-4,652.56	-970.07	0.00	0.00	0.00	0.00	PBHL - Jayhawk 7 Fe

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Well:	Jayhawk 7 Fed 13H	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	387,895.50	796,069.08	32.063737	-103.511030
100.00	0.00	0.00	100.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
200.00	0.00	0.00	200.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
300.00	0.00	0.00	300.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
400.00	0.00	0.00	400.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
500.00	0.00	0.00	500.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
600.00	0.00	0.00	600.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
700.00	0.00	0.00	700.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
800.00	0.00	0.00	800.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
900.00	0.00	0.00	900.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
1,000.00	0.00	0.00	1,000.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
1,100.00	0.00	0.00	1,100.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
1,200.00	0.00	0.00	1,200.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
1,300.00	0.00	0.00	1,300.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
1,400.00	0.00	0.00	1,400.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
1,500.00	0.00	0.00	1,500.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
1,600.00	0.00	0.00	1,600.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
1,700.00	0.00	0.00	1,700.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
1,800.00	0.00	0.00	1,800.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
1,900.00	0.00	0.00	1,900.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
2,000.00	0.00	0.00	2,000.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
2,100.00	0.00	0.00	2,100.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
2,200.00	0.00	0.00	2,200.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
2,300.00	0.00	0.00	2,300.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
2,400.00	0.00	0.00	2,400.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
2,500.00	0.00	0.00	2,500.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
2,600.00	0.00	0.00	2,600.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
2,700.00	0.00	0.00	2,700.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
2,800.00	0.00	0.00	2,800.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
2,900.00	0.00	0.00	2,900.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
3,000.00	0.00	0.00	3,000.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
3,100.00	0.00	0.00	3,100.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
3,200.00	0.00	0.00	3,200.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
3,300.00	0.00	0.00	3,300.00	0.00	0.00	387,895.50	796,069.08	32.063737	-103.511030
3,400.00	1.25	287.21	3,399.99	0.32	-1.04	387,895.82	796,068.04	32.063738	-103.511034
3,500.00	2.50	287.21	3,499.94	1.29	-4.17	387,896.79	796,064.91	32.063741	-103.511044
3,600.00	3.75	287.21	3,599.79	2.90	-9.37	387,898.40	796,059.70	32.063745	-103.511060
3,700.00	5.00	287.21	3,699.49	5.16	-16.66	387,900.66	796,052.42	32.063751	-103.511084
3,800.00	6.25	287.21	3,799.01	8.06	-26.02	387,903.56	796,043.05	32.063760	-103.511114
3,890.45	7.38	287.21	3,888.82	11.24	-36.28	387,906.74	796,032.80	32.063769	-103.511147
3,900.00	7.38	287.21	3,898.29	11.60	-37.45	387,907.10	796,031.63	32.063770	-103.511151
4,000.00	7.38	287.21	3,997.46	15.40	-49.72	387,910.90	796,019.36	32.063780	-103.511190
4,100.00	7.38	287.21	4,096.63	19.21	-61.99	387,914.70	796,007.09	32.063791	-103.511230
4,200.00	7.38	287.21	4,195.80	23.01	-74.26	387,918.51	795,994.82	32.063802	-103.511269
4,300.00	7.38	287.21	4,294.98	26.81	-86.53	387,922.31	795,982.55	32.063812	-103.511309
4,400.00	7.38	287.21	4,394.15	30.61	-98.80	387,926.11	795,970.28	32.063823	-103.511348
4,500.00	7.38	287.21	4,493.32	34.41	-111.07	387,929.91	795,958.01	32.063834	-103.511388
4,600.00	7.38	287.21	4,592.49	38.22	-123.34	387,933.71	795,945.74	32.063845	-103.511427
4,700.00	7.38	287.21	4,691.66	42.02	-135.61	387,937.52	795,933.47	32.063855	-103.511467
4,800.00	7.38	287.21	4,790.83	45.82	-147.88	387,941.32	795,921.20	32.063866	-103.511506
4,900.00	7.38	287.21	4,890.00	49.62	-160.15	387,945.12	795,908.93	32.063877	-103.511546
5,000.00	7.38	287.21	4,989.18	53.42	-172.42	387,948.92	795,896.65	32.063887	-103.511585
5,100.00	7.38	287.21	5,088.35	57.22	-184.69	387,952.72	795,884.38	32.063898	-103.511625
5,200.00	7.38	287.21	5,187.52	61.03	-196.96	387,956.53	795,872.11	32.063909	-103.511665
5,300.00	7.38	287.21	5,286.69	64.83	-209.24	387,960.33	795,859.84	32.063919	-103.511704

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Well:	Jayhawk 7 Fed 13H	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	7.38	287.21	5,385.86	68.63	-221.51	387,964.13	795,847.57	32.063930	-103.511744
5,500.00	7.38	287.21	5,485.03	72.43	-233.78	387,967.93	795,835.30	32.063941	-103.511783
5,600.00	7.38	287.21	5,584.20	76.23	-246.05	387,971.73	795,823.03	32.063952	-103.511823
5,700.00	7.38	287.21	5,683.38	80.04	-258.32	387,975.53	795,810.76	32.063962	-103.511862
5,800.00	7.38	287.21	5,782.55	83.84	-270.59	387,979.34	795,798.49	32.063973	-103.511902
5,900.00	7.38	287.21	5,881.72	87.64	-282.86	387,983.14	795,786.22	32.063984	-103.511941
6,000.00	7.38	287.21	5,980.89	91.44	-295.13	387,986.94	795,773.95	32.063994	-103.511981
6,100.00	7.38	287.21	6,080.06	95.24	-307.40	387,990.74	795,761.68	32.064005	-103.512020
6,200.00	7.38	287.21	6,179.23	99.04	-319.67	387,994.54	795,749.41	32.064016	-103.512060
6,300.00	7.38	287.21	6,278.40	102.85	-331.94	387,998.35	795,737.14	32.064027	-103.512099
6,400.00	7.38	287.21	6,377.58	106.65	-344.21	388,002.15	795,724.87	32.064037	-103.512139
6,500.00	7.38	287.21	6,476.75	110.45	-356.48	388,005.95	795,712.60	32.064048	-103.512178
6,600.00	7.38	287.21	6,575.92	114.25	-368.75	388,009.75	795,700.33	32.064059	-103.512218
6,700.00	7.38	287.21	6,675.09	118.05	-381.02	388,013.55	795,688.06	32.064069	-103.512257
6,800.00	7.38	287.21	6,774.26	121.86	-393.29	388,017.35	795,675.79	32.064080	-103.512297
6,900.00	7.38	287.21	6,873.43	125.66	-405.56	388,021.16	795,663.51	32.064091	-103.512336
7,000.00	7.38	287.21	6,972.60	129.46	-417.83	388,024.96	795,651.24	32.064102	-103.512376
7,100.00	7.38	287.21	7,071.78	133.26	-430.10	388,028.76	795,638.97	32.064112	-103.512415
7,200.00	7.38	287.21	7,170.95	137.06	-442.38	388,032.56	795,626.70	32.064123	-103.512455
7,300.00	7.38	287.21	7,270.12	140.87	-454.65	388,036.36	795,614.43	32.064134	-103.512494
7,400.00	7.38	287.21	7,369.29	144.67	-466.92	388,040.17	795,602.16	32.064144	-103.512534
7,500.00	7.38	287.21	7,468.46	148.47	-479.19	388,043.97	795,589.89	32.064155	-103.512573
7,600.00	7.38	287.21	7,567.63	152.27	-491.46	388,047.77	795,577.62	32.064166	-103.512613
7,700.00	7.38	287.21	7,666.81	156.07	-503.73	388,051.57	795,565.35	32.064176	-103.512652
7,800.00	7.38	287.21	7,765.98	159.87	-516.00	388,055.37	795,553.08	32.064187	-103.512692
7,900.00	7.38	287.21	7,865.15	163.68	-528.27	388,059.17	795,540.81	32.064198	-103.512731
8,000.00	7.38	287.21	7,964.32	167.48	-540.54	388,062.98	795,528.54	32.064209	-103.512771
8,100.00	7.38	287.21	8,063.49	171.28	-552.81	388,066.78	795,516.27	32.064219	-103.512810
8,200.00	7.38	287.21	8,162.66	175.08	-565.08	388,070.58	795,504.00	32.064230	-103.512850
8,300.00	7.38	287.21	8,261.83	178.88	-577.35	388,074.38	795,491.73	32.064241	-103.512889
8,400.00	7.38	287.21	8,361.01	182.69	-589.62	388,078.18	795,479.46	32.064251	-103.512929
8,500.00	7.38	287.21	8,460.18	186.49	-601.89	388,081.99	795,467.19	32.064262	-103.512968
8,600.00	7.38	287.21	8,559.35	190.29	-614.16	388,085.79	795,454.92	32.064273	-103.513008
8,700.00	7.38	287.21	8,658.52	194.09	-626.43	388,089.59	795,442.65	32.064284	-103.513048
8,800.00	7.38	287.21	8,757.69	197.89	-638.70	388,093.39	795,430.38	32.064294	-103.513087
8,900.00	7.38	287.21	8,856.86	201.69	-650.97	388,097.19	795,418.10	32.064305	-103.513127
9,000.00	7.38	287.21	8,956.03	205.50	-663.24	388,100.99	795,405.83	32.064316	-103.513166
9,100.00	7.38	287.21	9,055.21	209.30	-675.52	388,104.80	795,393.56	32.064326	-103.513206
9,200.00	7.38	287.21	9,154.38	213.10	-687.79	388,108.60	795,381.29	32.064337	-103.513245
9,300.00	7.38	287.21	9,253.55	216.90	-700.06	388,112.40	795,369.02	32.064348	-103.513285
9,400.00	7.38	287.21	9,352.72	220.70	-712.33	388,116.20	795,356.75	32.064358	-103.513324
9,500.00	7.38	287.21	9,451.89	224.51	-724.60	388,120.00	795,344.48	32.064369	-103.513364
9,600.00	7.38	287.21	9,551.06	228.31	-736.87	388,123.81	795,332.21	32.064380	-103.513403
9,700.00	7.38	287.21	9,650.23	232.11	-749.14	388,127.61	795,319.94	32.064391	-103.513443
9,800.00	7.38	287.21	9,749.41	235.91	-761.41	388,131.41	795,307.67	32.064401	-103.513482
9,900.00	7.38	287.21	9,848.58	239.71	-773.68	388,135.21	795,295.40	32.064412	-103.513522
10,000.00	7.38	287.21	9,947.75	243.52	-785.95	388,139.01	795,283.13	32.064423	-103.513561
10,100.00	7.38	287.21	10,046.92	247.32	-798.22	388,142.82	795,270.86	32.064433	-103.513601
10,200.00	7.38	287.21	10,146.09	251.12	-810.49	388,146.62	795,258.59	32.064444	-103.513640
10,300.00	7.38	287.21	10,245.26	254.92	-822.76	388,150.42	795,246.32	32.064455	-103.513680
10,400.00	7.38	287.21	10,344.43	258.72	-835.03	388,154.22	795,234.05	32.064466	-103.513719
10,500.00	7.38	287.21	10,443.61	262.52	-847.30	388,158.02	795,221.78	32.064476	-103.513759
10,600.00	7.38	287.21	10,542.78	266.33	-859.57	388,161.82	795,209.51	32.064487	-103.513798
10,700.00	7.38	287.21	10,641.95	270.13	-871.84	388,165.63	795,197.24	32.064498	-103.513838
10,800.00	7.38	287.21	10,741.12	273.93	-884.11	388,169.43	795,184.97	32.064508	-103.513877

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Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7 Fed 13H
Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3364.60ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3364.60ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7 Fed 13H	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	7.38	287.21	10,840.29	277.73	-896.38	388,173.23	795,172.69	32.064519	-103.513917
11,000.00	7.38	287.21	10,939.46	281.53	-908.66	388,177.03	795,160.42	32.064530	-103.513956
11,100.00	7.38	287.21	11,038.64	285.34	-920.93	388,180.83	795,148.15	32.064540	-103.513996
11,200.00	7.38	287.21	11,137.81	289.14	-933.20	388,184.64	795,135.88	32.064551	-103.514035
11,300.00	7.38	287.21	11,236.98	292.94	-945.47	388,188.44	795,123.61	32.064562	-103.514075
11,311.43	7.38	287.21	11,248.32	293.37	-946.87	388,188.87	795,122.21	32.064563	-103.514079
11,400.00	6.05	287.21	11,336.27	296.44	-956.76	388,191.94	795,112.32	32.064572	-103.514111
11,500.00	4.55	287.21	11,435.84	299.17	-965.59	388,194.67	795,103.49	32.064579	-103.514140
11,600.00	3.05	287.21	11,535.62	301.14	-971.92	388,196.63	795,097.16	32.064585	-103.514160
11,700.00	1.55	287.21	11,635.54	302.33	-975.76	388,197.82	795,093.32	32.064588	-103.514172
11,800.00	0.05	287.21	11,735.52	302.74	-977.10	388,198.24	795,091.98	32.064589	-103.514177
11,803.48	0.00	0.00	11,739.00	302.74	-977.10	388,198.24	795,091.98	32.064589	-103.514177
11,900.00	0.00	0.00	11,835.52	302.74	-977.10	388,198.24	795,091.98	32.064589	-103.514177
12,000.00	0.00	0.00	11,935.52	302.74	-977.10	388,198.24	795,091.98	32.064589	-103.514177
12,100.00	0.00	0.00	12,035.52	302.74	-977.10	388,198.24	795,091.98	32.064589	-103.514177
12,153.52	0.00	0.00	12,089.04	302.74	-977.10	388,198.24	795,091.98	32.064589	-103.514177
KOP @ 12154' MD, 843' FNL, 1038' FWL									
12,200.00	4.65	179.92	12,135.47	300.86	-977.10	388,196.35	795,091.98	32.064584	-103.514177
12,300.00	14.65	179.92	12,233.93	284.12	-977.07	388,179.61	795,092.01	32.064538	-103.514177
12,400.00	24.65	179.92	12,327.99	250.53	-977.03	388,146.03	795,092.05	32.064446	-103.514178
12,500.00	34.65	179.92	12,414.79	201.13	-976.96	388,096.63	795,092.12	32.064310	-103.514179
12,600.00	44.65	179.92	12,491.69	137.40	-976.87	388,032.90	795,092.21	32.064135	-103.514180
12,653.52	50.00	179.92	12,527.95	98.07	-976.81	387,993.57	795,092.27	32.064027	-103.514181
First Take Point @ 12654' MD, 638' FNL, 1038' FWL									
12,700.00	54.65	179.92	12,556.35	61.29	-976.76	387,956.79	795,092.32	32.063926	-103.514182
12,800.00	64.65	179.92	12,606.82	-24.89	-976.64	387,870.61	795,092.44	32.063689	-103.514183
12,900.00	74.65	179.92	12,641.56	-118.53	-976.50	387,776.97	795,092.58	32.063432	-103.514185
13,000.00	84.65	179.92	12,659.50	-216.78	-976.36	387,678.72	795,092.72	32.063161	-103.514187
13,053.52	90.00	179.92	12,662.00	-270.22	-976.29	387,625.28	795,092.79	32.063015	-103.514188
13,100.00	90.00	179.92	12,662.00	-316.70	-976.22	387,578.80	795,092.86	32.062887	-103.514189
13,200.00	90.00	179.92	12,662.00	-416.70	-976.08	387,478.80	795,093.00	32.062612	-103.514191
13,300.00	90.00	179.92	12,662.00	-516.70	-975.94	387,378.80	795,093.14	32.062337	-103.514193
13,400.00	90.00	179.92	12,662.00	-616.70	-975.80	387,278.80	795,093.28	32.062062	-103.514195
13,500.00	90.00	179.92	12,662.00	-716.70	-975.65	387,178.80	795,093.43	32.061787	-103.514197
13,600.00	90.00	179.92	12,662.00	-816.70	-975.51	387,078.80	795,093.57	32.061512	-103.514199
13,700.00	90.00	179.92	12,662.00	-916.70	-975.37	386,978.80	795,093.71	32.061238	-103.514201
13,800.00	90.00	179.92	12,662.00	-1,016.70	-975.23	386,878.80	795,093.85	32.060963	-103.514203
13,900.00	90.00	179.92	12,662.00	-1,116.70	-975.09	386,778.80	795,093.99	32.060688	-103.514205
14,000.00	90.00	179.92	12,662.00	-1,216.70	-974.94	386,678.80	795,094.14	32.060413	-103.514207
14,100.00	90.00	179.92	12,662.00	-1,316.70	-974.80	386,578.80	795,094.28	32.060138	-103.514209
14,200.00	90.00	179.92	12,662.00	-1,416.70	-974.66	386,478.80	795,094.42	32.059863	-103.514211
14,300.00	90.00	179.92	12,662.00	-1,516.70	-974.52	386,378.80	795,094.56	32.059588	-103.514213
14,400.00	90.00	179.92	12,662.00	-1,616.70	-974.38	386,278.80	795,094.70	32.059313	-103.514215
14,500.00	90.00	179.92	12,662.00	-1,716.70	-974.23	386,178.80	795,094.85	32.059039	-103.514217
14,600.00	90.00	179.92	12,662.00	-1,816.70	-974.09	386,078.80	795,094.99	32.058764	-103.514219
14,700.00	90.00	179.92	12,662.00	-1,916.70	-973.95	385,978.80	795,095.13	32.058489	-103.514221
14,800.00	90.00	179.92	12,662.00	-2,016.70	-973.81	385,878.80	795,095.27	32.058214	-103.514223
14,900.00	90.00	179.92	12,662.00	-2,116.70	-973.67	385,778.80	795,095.41	32.057939	-103.514225
15,000.00	90.00	179.92	12,662.00	-2,216.70	-973.52	385,678.80	795,095.56	32.057664	-103.514227
15,100.00	90.00	179.92	12,662.00	-2,316.70	-973.38	385,578.81	795,095.70	32.057389	-103.514229
15,200.00	90.00	179.92	12,662.00	-2,416.70	-973.24	385,478.81	795,095.84	32.057115	-103.514231
15,300.00	90.00	179.92	12,662.00	-2,516.70	-973.10	385,378.81	795,095.98	32.056840	-103.514233
15,400.00	90.00	179.92	12,662.00	-2,616.70	-972.96	385,278.81	795,096.12	32.056565	-103.514235
15,500.00	90.00	179.92	12,662.00	-2,716.70	-972.82	385,178.81	795,096.26	32.056290	-103.514237

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7 Fed 13H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3364.60ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3364.60ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7 Fed 13H	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	179.92	12,662.00	-2,816.70	-972.67	385,078.81	795,096.41	32.056015	-103.514239
15,700.00	90.00	179.92	12,662.00	-2,916.70	-972.53	384,978.81	795,096.55	32.055740	-103.514241
15,800.00	90.00	179.92	12,662.00	-3,016.70	-972.39	384,878.81	795,096.69	32.055465	-103.514243
15,900.00	90.00	179.92	12,662.00	-3,116.70	-972.25	384,778.81	795,096.83	32.055190	-103.514245
16,000.00	90.00	179.92	12,662.00	-3,216.70	-972.11	384,678.81	795,096.97	32.054916	-103.514247
16,100.00	90.00	179.92	12,662.00	-3,316.70	-971.96	384,578.81	795,097.12	32.054641	-103.514249
16,200.00	90.00	179.92	12,662.00	-3,416.70	-971.82	384,478.81	795,097.26	32.054366	-103.514251
16,300.00	90.00	179.92	12,662.00	-3,516.70	-971.68	384,378.81	795,097.40	32.054091	-103.514253
16,400.00	90.00	179.92	12,662.00	-3,616.70	-971.54	384,278.81	795,097.54	32.053816	-103.514255
16,500.00	90.00	179.92	12,662.00	-3,716.70	-971.40	384,178.81	795,097.68	32.053541	-103.514257
16,600.00	90.00	179.92	12,662.00	-3,816.70	-971.25	384,078.81	795,097.83	32.053266	-103.514259
16,700.00	90.00	179.92	12,662.00	-3,916.70	-971.11	383,978.81	795,097.97	32.052991	-103.514261
16,800.00	90.00	179.92	12,662.00	-4,016.70	-970.97	383,878.81	795,098.11	32.052717	-103.514263
16,900.00	90.00	179.92	12,662.00	-4,116.70	-970.83	383,778.81	795,098.25	32.052442	-103.514265
17,000.00	90.00	179.92	12,662.00	-4,216.70	-970.69	383,678.81	795,098.39	32.052167	-103.514267
17,100.00	90.00	179.92	12,662.00	-4,316.70	-970.54	383,578.81	795,098.54	32.051892	-103.514269
17,200.00	90.00	179.92	12,662.00	-4,416.70	-970.40	383,478.81	795,098.68	32.051617	-103.514271
17,300.00	90.00	179.92	12,662.00	-4,516.70	-970.26	383,378.81	795,098.82	32.051342	-103.514273
17,400.00	90.00	179.92	12,662.00	-4,616.70	-970.12	383,278.81	795,098.96	32.051067	-103.514275
17,434.50	90.00	179.92	12,662.00	-4,651.20	-970.07	383,244.31	795,099.01	32.050972	-103.514275
Last Take Point @ 17435' MD, 100' FSL, 1010' FWL									
17,435.86	90.00	179.92	12,662.00	-4,652.56	-970.07	383,242.95	795,099.01	32.050969	-103.514275
PBHL; 100' FSL, 1010' 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 1	0.00	0.00	0.00	-4,652.56	-970.07	383,242.95	795,099.01	32.050969	-103.514275
- hit/miss target									
- Shape									
- plan misses target center by 4752.61ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
VP - Jayhawk 7 FED 13I	0.00	0.00	11,800.00	332.74	-1,007.10	388,228.24	795,061.98	32.064673	-103.514273
- plan misses target center by 42.43ft at 11864.48ft MD (11800.00 TVD, 302.74 N, -977.10 E)									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
12,153.52	12,089.04	302.74	-977.10	KOP @ 12154' MD, 843' FNL, 1038' FWL	
12,653.52	12,527.95	98.07	-976.81	First Take Point @ 12654' MD, 638' FNL, 1038' FWL	
17,434.50	12,662.00	-4,651.20	-970.07	Last Take Point @ 17435' MD, 100' FSL, 1010' FWL	
17,435.86	12,662.00	-4,652.56	-970.07	PBHL; 100' FSL, 1010' FWL	

WCDSC Permian NM

WELL DETAILS: Jayhawk 7 Fed 13H

RKB @ 3364.60ft
3339.60

Northing
387895.50

Easting
796069.08

Latitude
32.063737

Longitude
-103.511030

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	
	3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	
	3890.45	7.38	287.21	3888.82	11.24	-36.28	1.25	-3.60	
	11311.43	7.38	287.21	11248.32	293.37	-946.87	0.00	-93.93	
5	11803.48	0.00	0.00	11739.00	302.74	-977.10	1.50	-96.93	
6	12153.52	0.00	0.00	12089.04	302.74	-977.10	0.00	-96.93	KOP @ 12154' MD, 843' FNL, 1038' FWL
7	13053.52	90.00	179.92	12662.00	-270.22	-976.29	10.00	463.80	
8	17435.86	90.00	179.92	12662.00	-4652.56	-970.07	0.00	4752.61	PBHL; 100' FSL, 1010' FWL

