

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 06-T26S-R34E

Jayhawk 6-7 FED 9H

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 9H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3341.40ft (Original Well Elev)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3341.40ft (Original Well Elev)
Site:	Sec 06-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 6-7 FED 9H	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 9H					
Well Position	+N/-S	0.00 ft	Northing:	393,263.31 usft	Latitude:	32.078494
	+E/-W	0.00 ft	Easting:	795,953.91 usft	Longitude:	-103.511270
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,316.40 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/23/2018	6.80	59.92	47,745.91005498

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	174.97

Plan Survey Tool Program	Date	7/24/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,729.24 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	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,158.93	3.59	43.08	3,158.70	8.21	7.68	1.00	1.00	0.00	43.08	
11,684.83	3.59	43.08	11,667.87	398.06	372.25	0.00	0.00	0.00	0.00	
11,924.12	0.00	0.00	11,907.00	403.53	377.37	1.50	-1.50	0.00	180.00	
12,274.16	0.00	0.00	12,257.04	403.53	377.37	0.00	0.00	0.00	0.00	
13,174.16	90.00	179.57	12,830.00	-169.41	381.67	10.00	10.00	0.00	179.57	PBHL - Jayhawk 6-7 f
17,729.24	90.00	179.57	12,830.00	-4,724.37	415.79	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	393,263.31	795,953.91	32.078494	-103.511270
100.00	0.00	0.00	100.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
200.00	0.00	0.00	200.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
300.00	0.00	0.00	300.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
400.00	0.00	0.00	400.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
500.00	0.00	0.00	500.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
600.00	0.00	0.00	600.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
700.00	0.00	0.00	700.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
800.00	0.00	0.00	800.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
900.00	0.00	0.00	900.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
1,000.00	0.00	0.00	1,000.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
1,100.00	0.00	0.00	1,100.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
1,200.00	0.00	0.00	1,200.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
1,300.00	0.00	0.00	1,300.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
1,400.00	0.00	0.00	1,400.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
1,500.00	0.00	0.00	1,500.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
1,600.00	0.00	0.00	1,600.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
1,700.00	0.00	0.00	1,700.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
1,800.00	0.00	0.00	1,800.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
1,900.00	0.00	0.00	1,900.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
2,000.00	0.00	0.00	2,000.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
2,100.00	0.00	0.00	2,100.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
2,200.00	0.00	0.00	2,200.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
2,300.00	0.00	0.00	2,300.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
2,400.00	0.00	0.00	2,400.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
2,500.00	0.00	0.00	2,500.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
2,600.00	0.00	0.00	2,600.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
2,700.00	0.00	0.00	2,700.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
2,800.00	0.00	0.00	2,800.00	0.00	0.00	393,263.31	795,953.91	32.078494	-103.511270
2,900.00	1.00	43.08	2,899.99	0.64	0.60	393,263.95	795,954.50	32.078496	-103.511268
3,000.00	2.00	43.08	2,999.96	2.55	2.38	393,265.86	795,956.29	32.078501	-103.511262
3,100.00	3.00	43.08	3,099.86	5.74	5.36	393,269.04	795,959.27	32.078509	-103.511253
3,158.93	3.59	43.08	3,158.70	8.21	7.68	393,271.52	795,961.58	32.078516	-103.511245
3,200.00	3.59	43.08	3,199.68	10.09	9.43	393,273.40	795,963.34	32.078521	-103.511239
3,300.00	3.59	43.08	3,299.49	14.66	13.71	393,277.97	795,967.62	32.078534	-103.511225
3,400.00	3.59	43.08	3,399.29	19.23	17.99	393,282.54	795,971.89	32.078546	-103.511211
3,500.00	3.59	43.08	3,499.10	23.80	22.26	393,287.11	795,976.17	32.078559	-103.511198
3,600.00	3.59	43.08	3,598.90	28.38	26.54	393,291.69	795,980.45	32.078571	-103.511184
3,700.00	3.59	43.08	3,698.70	32.95	30.81	393,296.26	795,984.72	32.078584	-103.511170
3,800.00	3.59	43.08	3,798.51	37.52	35.09	393,300.83	795,989.00	32.078596	-103.511156
3,900.00	3.59	43.08	3,898.31	42.09	39.37	393,305.40	795,993.27	32.078609	-103.511142
4,000.00	3.59	43.08	3,998.12	46.67	43.64	393,309.98	795,997.55	32.078621	-103.511128
4,100.00	3.59	43.08	4,097.92	51.24	47.92	393,314.55	796,001.83	32.078634	-103.511114
4,200.00	3.59	43.08	4,197.72	55.81	52.19	393,319.12	796,006.10	32.078646	-103.511100
4,300.00	3.59	43.08	4,297.53	60.38	56.47	393,323.69	796,010.38	32.078659	-103.511086
4,400.00	3.59	43.08	4,397.33	64.96	60.75	393,328.27	796,014.65	32.078671	-103.511072
4,500.00	3.59	43.08	4,497.13	69.53	65.02	393,332.84	796,018.93	32.078684	-103.511058
4,600.00	3.59	43.08	4,596.94	74.10	69.30	393,337.41	796,023.21	32.078696	-103.511044
4,700.00	3.59	43.08	4,696.74	78.67	73.57	393,341.98	796,027.48	32.078708	-103.511031
4,800.00	3.59	43.08	4,796.55	83.25	77.85	393,346.56	796,031.76	32.078721	-103.511017
4,900.00	3.59	43.08	4,896.35	87.82	82.13	393,351.13	796,036.03	32.078733	-103.511003
5,000.00	3.59	43.08	4,996.15	92.39	86.40	393,355.70	796,040.31	32.078746	-103.510989
5,100.00	3.59	43.08	5,095.96	96.96	90.68	393,360.27	796,044.59	32.078758	-103.510975
5,200.00	3.59	43.08	5,195.76	101.54	94.96	393,364.85	796,048.86	32.078771	-103.510961
5,300.00	3.59	43.08	5,295.57	106.11	99.23	393,369.42	796,053.14	32.078783	-103.510947

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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	3.59	43.08	5,395.37	110.68	103.51	393,373.99	796,057.42	32.078796	-103.510933
5,500.00	3.59	43.08	5,495.17	115.25	107.78	393,378.56	796,061.69	32.078808	-103.510919
5,600.00	3.59	43.08	5,594.98	119.83	112.06	393,383.14	796,065.97	32.078821	-103.510905
5,700.00	3.59	43.08	5,694.78	124.40	116.34	393,387.71	796,070.24	32.078833	-103.510891
5,800.00	3.59	43.08	5,794.58	128.97	120.61	393,392.28	796,074.52	32.078846	-103.510877
5,900.00	3.59	43.08	5,894.39	133.54	124.89	393,396.85	796,078.80	32.078858	-103.510864
6,000.00	3.59	43.08	5,994.19	138.12	129.16	393,401.43	796,083.07	32.078871	-103.510850
6,100.00	3.59	43.08	6,094.00	142.69	133.44	393,406.00	796,087.35	32.078883	-103.510836
6,200.00	3.59	43.08	6,193.80	147.26	137.72	393,410.57	796,091.62	32.078896	-103.510822
6,300.00	3.59	43.08	6,293.60	151.83	141.99	393,415.14	796,095.90	32.078908	-103.510808
6,400.00	3.59	43.08	6,393.41	156.41	146.27	393,419.72	796,100.18	32.078921	-103.510794
6,500.00	3.59	43.08	6,493.21	160.98	150.54	393,424.29	796,104.45	32.078933	-103.510780
6,600.00	3.59	43.08	6,593.02	165.55	154.82	393,428.86	796,108.73	32.078946	-103.510766
6,700.00	3.59	43.08	6,692.82	170.12	159.10	393,433.43	796,113.00	32.078958	-103.510752
6,800.00	3.59	43.08	6,792.62	174.70	163.37	393,438.01	796,117.28	32.078971	-103.510738
6,900.00	3.59	43.08	6,892.43	179.27	167.65	393,442.58	796,121.56	32.078983	-103.510724
7,000.00	3.59	43.08	6,992.23	183.84	171.93	393,447.15	796,125.83	32.078995	-103.510710
7,100.00	3.59	43.08	7,092.03	188.41	176.20	393,451.72	796,130.11	32.079008	-103.510697
7,200.00	3.59	43.08	7,191.84	192.99	180.48	393,456.30	796,134.39	32.079020	-103.510683
7,300.00	3.59	43.08	7,291.64	197.56	184.75	393,460.87	796,138.66	32.079033	-103.510669
7,400.00	3.59	43.08	7,391.45	202.13	189.03	393,465.44	796,142.94	32.079045	-103.510655
7,500.00	3.59	43.08	7,491.25	206.70	193.31	393,470.01	796,147.21	32.079058	-103.510641
7,600.00	3.59	43.08	7,591.05	211.28	197.58	393,474.59	796,151.49	32.079070	-103.510627
7,700.00	3.59	43.08	7,690.86	215.85	201.86	393,479.16	796,155.77	32.079083	-103.510613
7,800.00	3.59	43.08	7,790.66	220.42	206.13	393,483.73	796,160.04	32.079095	-103.510599
7,900.00	3.59	43.08	7,890.47	224.99	210.41	393,488.30	796,164.32	32.079108	-103.510585
8,000.00	3.59	43.08	7,990.27	229.57	214.69	393,492.87	796,168.59	32.079120	-103.510571
8,100.00	3.59	43.08	8,090.07	234.14	218.96	393,497.45	796,172.87	32.079133	-103.510557
8,200.00	3.59	43.08	8,189.88	238.71	223.24	393,502.02	796,177.15	32.079145	-103.510543
8,300.00	3.59	43.08	8,289.68	243.28	227.52	393,506.59	796,181.42	32.079158	-103.510530
8,400.00	3.59	43.08	8,389.48	247.86	231.79	393,511.16	796,185.70	32.079170	-103.510516
8,500.00	3.59	43.08	8,489.29	252.43	236.07	393,515.74	796,189.97	32.079183	-103.510502
8,600.00	3.59	43.08	8,589.09	257.00	240.34	393,520.31	796,194.25	32.079195	-103.510488
8,700.00	3.59	43.08	8,688.90	261.57	244.62	393,524.88	796,198.53	32.079208	-103.510474
8,800.00	3.59	43.08	8,788.70	266.15	248.90	393,529.45	796,202.80	32.079220	-103.510460
8,900.00	3.59	43.08	8,888.50	270.72	253.17	393,534.03	796,207.08	32.079233	-103.510446
9,000.00	3.59	43.08	8,988.31	275.29	257.45	393,538.60	796,211.36	32.079245	-103.510432
9,100.00	3.59	43.08	9,088.11	279.86	261.72	393,543.17	796,215.63	32.079258	-103.510418
9,200.00	3.59	43.08	9,187.92	284.44	266.00	393,547.74	796,219.91	32.079270	-103.510404
9,300.00	3.59	43.08	9,287.72	289.01	270.28	393,552.32	796,224.18	32.079283	-103.510390
9,400.00	3.59	43.08	9,387.52	293.58	274.55	393,556.89	796,228.46	32.079295	-103.510376
9,500.00	3.59	43.08	9,487.33	298.15	278.83	393,561.46	796,232.74	32.079307	-103.510362
9,600.00	3.59	43.08	9,587.13	302.73	283.10	393,566.03	796,237.01	32.079320	-103.510349
9,700.00	3.59	43.08	9,686.93	307.30	287.38	393,570.61	796,241.29	32.079332	-103.510335
9,800.00	3.59	43.08	9,786.74	311.87	291.66	393,575.18	796,245.56	32.079345	-103.510321
9,900.00	3.59	43.08	9,886.54	316.44	295.93	393,579.75	796,249.84	32.079357	-103.510307
10,000.00	3.59	43.08	9,986.35	321.02	300.21	393,584.32	796,254.12	32.079370	-103.510293
10,100.00	3.59	43.08	10,086.15	325.59	304.49	393,588.90	796,258.39	32.079382	-103.510279
10,200.00	3.59	43.08	10,185.95	330.16	308.76	393,593.47	796,262.67	32.079395	-103.510265
10,300.00	3.59	43.08	10,285.76	334.73	313.04	393,598.04	796,266.94	32.079407	-103.510251
10,400.00	3.59	43.08	10,385.56	339.31	317.31	393,602.61	796,271.22	32.079420	-103.510237
10,500.00	3.59	43.08	10,485.37	343.88	321.59	393,607.19	796,275.50	32.079432	-103.510223
10,600.00	3.59	43.08	10,585.17	348.45	325.87	393,611.76	796,279.77	32.079445	-103.510209
10,700.00	3.59	43.08	10,684.97	353.02	330.14	393,616.33	796,284.05	32.079457	-103.510195
10,800.00	3.59	43.08	10,784.78	357.60	334.42	393,620.90	796,288.33	32.079470	-103.510182

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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
10,900.00	3.59	43.08	10,884.58	362.17	338.69	393,625.48	796,292.60	32.079482	-103.510168
11,000.00	3.59	43.08	10,984.38	366.74	342.97	393,630.05	796,296.88	32.079495	-103.510154
11,100.00	3.59	43.08	11,084.19	371.31	347.25	393,634.62	796,301.15	32.079507	-103.510140
11,200.00	3.59	43.08	11,183.99	375.89	351.52	393,639.19	796,305.43	32.079520	-103.510126
11,300.00	3.59	43.08	11,283.80	380.46	355.80	393,643.77	796,309.71	32.079532	-103.510112
11,400.00	3.59	43.08	11,383.60	385.03	360.08	393,648.34	796,313.98	32.079545	-103.510098
11,500.00	3.59	43.08	11,483.40	389.60	364.35	393,652.91	796,318.26	32.079557	-103.510084
11,600.00	3.59	43.08	11,583.21	394.18	368.63	393,657.48	796,322.53	32.079570	-103.510070
11,684.83	3.59	43.08	11,667.87	398.06	372.25	393,661.36	796,326.16	32.079580	-103.510058
11,700.00	3.36	43.08	11,683.01	398.73	372.88	393,662.04	796,326.79	32.079582	-103.510056
11,800.00	1.86	43.08	11,782.91	402.06	376.00	393,665.36	796,329.90	32.079591	-103.510046
11,900.00	0.36	43.08	11,882.89	403.47	377.32	393,666.78	796,331.23	32.079595	-103.510042
11,924.12	0.00	0.00	11,907.00	403.53	377.37	393,666.84	796,331.28	32.079595	-103.510042
12,000.00	0.00	0.00	11,982.88	403.53	377.37	393,666.84	796,331.28	32.079595	-103.510042
12,100.00	0.00	0.00	12,082.88	403.53	377.37	393,666.84	796,331.28	32.079595	-103.510042
12,200.00	0.00	0.00	12,182.88	403.53	377.37	393,666.84	796,331.28	32.079595	-103.510042
12,274.16	0.00	0.00	12,257.04	403.53	377.37	393,666.84	796,331.28	32.079595	-103.510042
12,300.00	2.58	179.57	12,282.88	402.95	377.38	393,666.25	796,331.28	32.079593	-103.510042
12,400.00	12.58	179.57	12,381.88	389.76	377.48	393,653.07	796,331.38	32.079557	-103.510042
12,500.00	22.58	179.57	12,477.08	359.59	377.70	393,622.90	796,331.61	32.079474	-103.510042
12,523.80	24.96	179.57	12,498.86	350.00	377.77	393,613.31	796,331.68	32.079448	-103.510042
First Take Point @ 12524' MD, 100' FNL, 2318' FWL									
12,600.00	32.58	179.57	12,565.60	313.35	378.05	393,576.65	796,331.96	32.079347	-103.510042
12,700.00	42.58	179.57	12,644.75	252.43	378.50	393,515.74	796,332.41	32.079180	-103.510042
12,800.00	52.58	179.57	12,712.11	178.70	379.06	393,442.01	796,332.96	32.078977	-103.510042
12,900.00	62.58	179.57	12,765.65	94.39	379.69	393,357.70	796,333.60	32.078745	-103.510042
13,000.00	72.58	179.57	12,803.73	2.07	380.38	393,265.38	796,334.29	32.078491	-103.510042
13,100.00	82.58	179.57	12,825.21	-95.47	381.11	393,167.84	796,335.02	32.078223	-103.510042
13,174.16	90.00	179.57	12,830.00	-169.42	381.67	393,093.89	796,335.57	32.078020	-103.510042
Land Point @ 13174' MD, 619' FNL, 2322' FWL									
13,200.00	90.00	179.57	12,830.00	-195.26	381.86	393,068.05	796,335.77	32.077949	-103.510042
13,300.00	90.00	179.57	12,830.00	-295.25	382.61	392,968.06	796,336.52	32.077674	-103.510042
13,400.00	90.00	179.57	12,830.00	-395.25	383.36	392,868.06	796,337.26	32.077399	-103.510042
13,500.00	90.00	179.57	12,830.00	-495.25	384.11	392,768.06	796,338.01	32.077124	-103.510042
13,600.00	90.00	179.57	12,830.00	-595.25	384.86	392,668.06	796,338.76	32.076850	-103.510042
13,700.00	90.00	179.57	12,830.00	-695.24	385.61	392,568.07	796,339.51	32.076575	-103.510042
13,800.00	90.00	179.57	12,830.00	-795.24	386.35	392,468.07	796,340.26	32.076300	-103.510042
13,900.00	90.00	179.57	12,830.00	-895.24	387.10	392,368.07	796,341.01	32.076025	-103.510042
14,000.00	90.00	179.57	12,830.00	-995.23	387.85	392,268.08	796,341.76	32.075750	-103.510042
14,100.00	90.00	179.57	12,830.00	-1,095.23	388.60	392,168.08	796,342.51	32.075475	-103.510042
14,200.00	90.00	179.57	12,830.00	-1,195.23	389.35	392,068.08	796,343.26	32.075200	-103.510042
14,300.00	90.00	179.57	12,830.00	-1,295.23	390.10	391,968.09	796,344.01	32.074925	-103.510043
14,400.00	90.00	179.57	12,830.00	-1,395.22	390.85	391,868.09	796,344.76	32.074651	-103.510043
14,500.00	90.00	179.57	12,830.00	-1,495.22	391.60	391,768.09	796,345.51	32.074376	-103.510043
14,600.00	90.00	179.57	12,830.00	-1,595.22	392.35	391,668.09	796,346.26	32.074101	-103.510043
14,700.00	90.00	179.57	12,830.00	-1,695.21	393.10	391,568.10	796,347.00	32.073826	-103.510043
14,800.00	90.00	179.57	12,830.00	-1,795.21	393.85	391,468.10	796,347.75	32.073551	-103.510043
14,900.00	90.00	179.57	12,830.00	-1,895.21	394.60	391,368.10	796,348.50	32.073276	-103.510043
15,000.00	90.00	179.57	12,830.00	-1,995.21	395.35	391,268.11	796,349.25	32.073001	-103.510043
15,100.00	90.00	179.57	12,830.00	-2,095.20	396.09	391,168.11	796,350.00	32.072726	-103.510043
15,200.00	90.00	179.57	12,830.00	-2,195.20	396.84	391,068.11	796,350.75	32.072452	-103.510043
15,300.00	90.00	179.57	12,830.00	-2,295.20	397.59	390,968.12	796,351.50	32.072177	-103.510043
15,400.00	90.00	179.57	12,830.00	-2,395.20	398.34	390,868.12	796,352.25	32.071902	-103.510043
15,500.00	90.00	179.57	12,830.00	-2,495.19	399.09	390,768.12	796,353.00	32.071627	-103.510043

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 6-7 FED 9H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3341.40ft (Original Well Elev)
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3341.40ft (Original Well Elev)
Site:	Sec 06-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 6-7 FED 9H	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	12,830.00	-2,595.19	399.84	390,668.12	796,353.75	32.071352	-103.510043
15,700.00	90.00	179.57	12,830.00	-2,695.19	400.59	390,568.13	796,354.50	32.071077	-103.510043
15,800.00	90.00	179.57	12,830.00	-2,795.18	401.34	390,468.13	796,355.25	32.070802	-103.510043
15,900.00	90.00	179.57	12,830.00	-2,895.18	402.09	390,368.13	796,356.00	32.070527	-103.510043
16,000.00	90.00	179.57	12,830.00	-2,995.18	402.84	390,268.14	796,356.75	32.070253	-103.510043
16,100.00	90.00	179.57	12,830.00	-3,095.18	403.59	390,168.14	796,357.49	32.069978	-103.510043
16,200.00	90.00	179.57	12,830.00	-3,195.17	404.34	390,068.14	796,358.24	32.069703	-103.510043
16,300.00	90.00	179.57	12,830.00	-3,295.17	405.09	389,968.15	796,358.99	32.069428	-103.510043
16,400.00	90.00	179.57	12,830.00	-3,395.17	405.84	389,868.15	796,359.74	32.069153	-103.510043
16,500.00	90.00	179.57	12,830.00	-3,495.16	406.58	389,768.15	796,360.49	32.068878	-103.510043
16,600.00	90.00	179.57	12,830.00	-3,595.16	407.33	389,668.15	796,361.24	32.068603	-103.510044
16,700.00	90.00	179.57	12,830.00	-3,695.16	408.08	389,568.16	796,361.99	32.068328	-103.510044
16,800.00	90.00	179.57	12,830.00	-3,795.16	408.83	389,468.16	796,362.74	32.068054	-103.510044
16,900.00	90.00	179.57	12,830.00	-3,895.15	409.58	389,368.16	796,363.49	32.067779	-103.510044
17,000.00	90.00	179.57	12,830.00	-3,995.15	410.33	389,268.17	796,364.24	32.067504	-103.510044
17,100.00	90.00	179.57	12,830.00	-4,095.15	411.08	389,168.17	796,364.99	32.067229	-103.510044
17,200.00	90.00	179.57	12,830.00	-4,195.14	411.83	389,068.17	796,365.74	32.066954	-103.510044
17,300.00	90.00	179.57	12,830.00	-4,295.14	412.58	388,968.18	796,366.49	32.066679	-103.510044
17,400.00	90.00	179.57	12,830.00	-4,395.14	413.33	388,868.18	796,367.23	32.066404	-103.510044
17,500.00	90.00	179.57	12,830.00	-4,495.14	414.08	388,768.18	796,367.98	32.066129	-103.510044
17,600.00	90.00	179.57	12,830.00	-4,595.13	414.83	388,668.18	796,368.73	32.065855	-103.510044
17,700.00	90.00	179.57	12,830.00	-4,695.13	415.58	388,568.19	796,369.48	32.065580	-103.510044
17,728.50	90.00	179.57	12,830.00	-4,723.63	415.79	388,539.69	796,369.70	32.065501	-103.510044
Last Take Point @ 17729' MD, 100' FSL, 2320' FWL									
17,729.24	90.00	179.57	12,830.00	-4,724.37	415.79	388,538.95	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	-4,724.37	415.79	388,538.94	796,369.70	32.065499	-103.510044
- plan misses target center by 4742.64ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
VP - Jayhawk 9H	0.00	0.00	11,800.00	403.53	377.37	393,666.84	796,331.28	32.079595	-103.510042
- plan misses target center by 1.50ft at 11817.13ft MD (11800.03 TVD, 402.43 N, 376.35 E)									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
12,523.80	12,498.86	350.00	377.77	First Take Point @ 12524' MD, 100' FNL, 2318' FWL	
13,174.16	12,830.00	-169.42	381.67	Land Point @ 13174' MD, 619' FNL, 2322' FWL	
17,728.50	12,830.00	-4,723.63	415.79	Last Take Point @ 17729' MD, 100' FSL, 2320' FWL	
17,729.24	12,830.00	-4,724.37	415.79	PBHL; 100' FSL, 2320' FWL	

WCDSC Permian NM

WELL DETAILS: Jayhawk 6-7 FED 9H

RKB @ 3341.40ft (Original Well Elev)
3316.40

Northing	Easting	Latitude	Longitude
393263.31	795953.91	32.078494	-103.511270



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	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	
3158.93	3.59	43.08	3158.70	8.21	7.68	1.00	-7.50	
11684.83	3.59	43.08	11667.87	398.06	372.25	0.00	-363.89	
11924.12	0.00	0.00	11907.00	403.53	377.37	1.50	-368.89	
12274.16	0.00	0.00	12257.04	403.53	377.37	0.00	-368.89	
13174.16	90.00	179.57	12830.00	-169.41	381.67	10.00	202.22	Land Point @ 13174' MD, 619' FNL, 2322' FWL
17729.24	90.00	179.57	12830.00	-4724.37	415.79	0.00	4742.64	Last Take Point @ 17729' MD, 100' FSL, 2320' FWL

