

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 07-T26S-R34E

Jayhawk 7-6 FED Fee Com 6H

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 7-6 FED Fee Com 6H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3398.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3398.20ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7-6 FED Fee Com 6H	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 Fee Com 6H					
Well Position	+N/-S	0.00 ft	Northing:	383,776.42 usft	Latitude:	32.052389
	+E/-W	0.00 ft	Easting:	797,320.09 usft	Longitude:	-103.507094
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,373.20 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/23/2018	6.79	59.90	47,730.42984025

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	1.84

Plan Survey Tool Program	Date	7/25/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	23,041.88 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	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,622.41	4.22	144.28	2,622.03	-12.64	9.09	1.00	1.00	0.00	144.28	
11,670.61	4.22	144.28	11,645.65	-553.73	398.19	0.00	0.00	0.00	0.00	
11,952.22	0.00	0.00	11,927.00	-562.15	404.25	1.50	-1.50	0.00	180.00	
12,302.26	0.00	0.00	12,277.04	-562.15	404.25	0.00	0.00	0.00	0.00	
13,202.26	90.00	359.52	12,850.00	10.79	399.42	10.00	10.00	0.00	359.52	PBHL - Jayhawk 7-6 f
23,041.88	90.00	359.52	12,850.00	9,850.05	316.40	0.00	0.00	0.00	0.00	PBHL - Jayhawk 7-6 f

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Well:	Jayhawk 7-6 FED Fee Com 6H	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	383,776.42	797,320.09	32.052389	-103.507094
100.00	0.00	0.00	100.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
200.00	0.00	0.00	200.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
300.00	0.00	0.00	300.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
400.00	0.00	0.00	400.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
500.00	0.00	0.00	500.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
600.00	0.00	0.00	600.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
700.00	0.00	0.00	700.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
800.00	0.00	0.00	800.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
900.00	0.00	0.00	900.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
1,000.00	0.00	0.00	1,000.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
1,100.00	0.00	0.00	1,100.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
1,200.00	0.00	0.00	1,200.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
1,300.00	0.00	0.00	1,300.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
1,400.00	0.00	0.00	1,400.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
1,500.00	0.00	0.00	1,500.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
1,600.00	0.00	0.00	1,600.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
1,700.00	0.00	0.00	1,700.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
1,800.00	0.00	0.00	1,800.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
1,900.00	0.00	0.00	1,900.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
2,000.00	0.00	0.00	2,000.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
2,100.00	0.00	0.00	2,100.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
2,200.00	0.00	0.00	2,200.00	0.00	0.00	383,776.42	797,320.09	32.052389	-103.507094
2,300.00	1.00	144.28	2,299.99	-0.71	0.51	383,775.71	797,320.60	32.052387	-103.507092
2,400.00	2.00	144.28	2,399.96	-2.83	2.04	383,773.58	797,322.13	32.052381	-103.507087
2,500.00	3.00	144.28	2,499.86	-6.37	4.58	383,770.04	797,324.67	32.052371	-103.507079
2,600.00	4.00	144.28	2,599.68	-11.33	8.15	383,765.09	797,328.24	32.052357	-103.507068
2,622.41	4.22	144.28	2,622.03	-12.64	9.09	383,763.78	797,329.17	32.052354	-103.507065
2,700.00	4.22	144.28	2,699.41	-17.28	12.42	383,759.14	797,332.51	32.052341	-103.507054
2,800.00	4.22	144.28	2,799.14	-23.26	16.72	383,753.16	797,336.81	32.052324	-103.507041
2,900.00	4.22	144.28	2,898.86	-29.24	21.02	383,747.18	797,341.11	32.052308	-103.507027
3,000.00	4.22	144.28	2,998.59	-35.22	25.32	383,741.20	797,345.41	32.052291	-103.507013
3,100.00	4.22	144.28	3,098.32	-41.20	29.62	383,735.22	797,349.71	32.052275	-103.506999
3,200.00	4.22	144.28	3,198.05	-47.18	33.93	383,729.24	797,354.01	32.052258	-103.506986
3,300.00	4.22	144.28	3,297.78	-53.16	38.23	383,723.26	797,358.31	32.052242	-103.506972
3,400.00	4.22	144.28	3,397.51	-59.14	42.53	383,717.28	797,362.61	32.052225	-103.506958
3,500.00	4.22	144.28	3,497.23	-65.12	46.83	383,711.30	797,366.91	32.052209	-103.506944
3,600.00	4.22	144.28	3,596.96	-71.10	51.13	383,705.32	797,371.21	32.052192	-103.506931
3,700.00	4.22	144.28	3,696.69	-77.08	55.43	383,699.34	797,375.51	32.052176	-103.506917
3,800.00	4.22	144.28	3,796.42	-83.06	59.73	383,693.36	797,379.82	32.052159	-103.506903
3,900.00	4.22	144.28	3,896.15	-89.04	64.03	383,687.38	797,384.12	32.052142	-103.506890
4,000.00	4.22	144.28	3,995.88	-95.02	68.33	383,681.40	797,388.42	32.052126	-103.506876
4,100.00	4.22	144.28	4,095.60	-101.00	72.63	383,675.42	797,392.72	32.052109	-103.506862
4,200.00	4.22	144.28	4,195.33	-106.98	76.93	383,669.44	797,397.02	32.052093	-103.506848
4,300.00	4.22	144.28	4,295.06	-112.96	81.23	383,663.46	797,401.32	32.052076	-103.506835
4,400.00	4.22	144.28	4,394.79	-118.94	85.53	383,657.48	797,405.62	32.052060	-103.506821
4,500.00	4.22	144.28	4,494.52	-124.92	89.83	383,651.50	797,409.92	32.052043	-103.506807
4,600.00	4.22	144.28	4,594.25	-130.90	94.13	383,645.52	797,414.22	32.052027	-103.506793
4,700.00	4.22	144.28	4,693.97	-136.88	98.43	383,639.54	797,418.52	32.052010	-103.506780
4,800.00	4.22	144.28	4,793.70	-142.86	102.73	383,633.56	797,422.82	32.051994	-103.506766
4,900.00	4.22	144.28	4,893.43	-148.84	107.03	383,627.58	797,427.12	32.051977	-103.506752
5,000.00	4.22	144.28	4,993.16	-154.82	111.33	383,621.60	797,431.42	32.051961	-103.506738
5,100.00	4.22	144.28	5,092.89	-160.80	115.63	383,615.62	797,435.72	32.051944	-103.506725
5,200.00	4.22	144.28	5,192.62	-166.78	119.93	383,609.64	797,440.02	32.051928	-103.506711
5,300.00	4.22	144.28	5,292.34	-172.76	124.23	383,603.66	797,444.32	32.051911	-103.506697

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Well:	Jayhawk 7-6 FED Fee Com 6H	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	4.22	144.28	5,392.07	-178.74	128.53	383,597.68	797,448.62	32.051895	-103.506684
5,500.00	4.22	144.28	5,491.80	-184.72	132.83	383,591.70	797,452.92	32.051878	-103.506670
5,600.00	4.22	144.28	5,591.53	-190.70	137.13	383,585.72	797,457.22	32.051862	-103.506656
5,700.00	4.22	144.28	5,691.26	-196.68	141.43	383,579.74	797,461.52	32.051845	-103.506642
5,800.00	4.22	144.28	5,790.99	-202.66	145.73	383,573.76	797,465.82	32.051828	-103.506629
5,900.00	4.22	144.28	5,890.71	-208.64	150.04	383,567.78	797,470.12	32.051812	-103.506615
6,000.00	4.22	144.28	5,990.44	-214.62	154.34	383,561.80	797,474.42	32.051795	-103.506601
6,100.00	4.22	144.28	6,090.17	-220.60	158.64	383,555.82	797,478.72	32.051779	-103.506587
6,200.00	4.22	144.28	6,189.90	-226.58	162.94	383,549.84	797,483.02	32.051762	-103.506574
6,300.00	4.22	144.28	6,289.63	-232.56	167.24	383,543.86	797,487.32	32.051746	-103.506560
6,400.00	4.22	144.28	6,389.36	-238.54	171.54	383,537.88	797,491.62	32.051729	-103.506546
6,500.00	4.22	144.28	6,489.08	-244.52	175.84	383,531.90	797,495.92	32.051713	-103.506533
6,600.00	4.22	144.28	6,588.81	-250.50	180.14	383,525.92	797,500.23	32.051696	-103.506519
6,700.00	4.22	144.28	6,688.54	-256.48	184.44	383,519.94	797,504.53	32.051680	-103.506505
6,800.00	4.22	144.28	6,788.27	-262.46	188.74	383,513.96	797,508.83	32.051663	-103.506491
6,900.00	4.22	144.28	6,888.00	-268.44	193.04	383,507.98	797,513.13	32.051647	-103.506478
7,000.00	4.22	144.28	6,987.73	-274.42	197.34	383,502.00	797,517.43	32.051630	-103.506464
7,100.00	4.22	144.28	7,087.45	-280.40	201.64	383,496.02	797,521.73	32.051614	-103.506450
7,200.00	4.22	144.28	7,187.18	-286.38	205.94	383,490.04	797,526.03	32.051597	-103.506436
7,300.00	4.22	144.28	7,286.91	-292.36	210.24	383,484.06	797,530.33	32.051581	-103.506423
7,400.00	4.22	144.28	7,386.64	-298.34	214.54	383,478.08	797,534.63	32.051564	-103.506409
7,500.00	4.22	144.28	7,486.37	-304.32	218.84	383,472.10	797,538.93	32.051547	-103.506395
7,600.00	4.22	144.28	7,586.10	-310.30	223.14	383,466.12	797,543.23	32.051531	-103.506381
7,700.00	4.22	144.28	7,685.82	-316.28	227.44	383,460.14	797,547.53	32.051514	-103.506368
7,800.00	4.22	144.28	7,785.55	-322.26	231.74	383,454.16	797,551.83	32.051498	-103.506354
7,900.00	4.22	144.28	7,885.28	-328.24	236.04	383,448.18	797,556.13	32.051481	-103.506340
8,000.00	4.22	144.28	7,985.01	-334.22	240.34	383,442.20	797,560.43	32.051465	-103.506327
8,100.00	4.22	144.28	8,084.74	-340.20	244.64	383,436.22	797,564.73	32.051448	-103.506313
8,200.00	4.22	144.28	8,184.47	-346.18	248.94	383,430.24	797,569.03	32.051432	-103.506299
8,300.00	4.22	144.28	8,284.19	-352.16	253.24	383,424.26	797,573.33	32.051415	-103.506285
8,400.00	4.22	144.28	8,383.92	-358.14	257.54	383,418.28	797,577.63	32.051399	-103.506272
8,500.00	4.22	144.28	8,483.65	-364.12	261.84	383,412.30	797,581.93	32.051382	-103.506258
8,600.00	4.22	144.28	8,583.38	-370.10	266.15	383,406.32	797,586.23	32.051366	-103.506244
8,700.00	4.22	144.28	8,683.11	-376.08	270.45	383,400.34	797,590.53	32.051349	-103.506230
8,800.00	4.22	144.28	8,782.84	-382.06	274.75	383,394.36	797,594.83	32.051333	-103.506217
8,900.00	4.22	144.28	8,882.56	-388.04	279.05	383,388.38	797,599.13	32.051316	-103.506203
9,000.00	4.22	144.28	8,982.29	-394.02	283.35	383,382.40	797,603.43	32.051300	-103.506189
9,100.00	4.22	144.28	9,082.02	-400.00	287.65	383,376.42	797,607.73	32.051283	-103.506176
9,200.00	4.22	144.28	9,181.75	-405.98	291.95	383,370.44	797,612.03	32.051267	-103.506162
9,300.00	4.22	144.28	9,281.48	-411.96	296.25	383,364.46	797,616.34	32.051250	-103.506148
9,400.00	4.22	144.28	9,381.21	-417.94	300.55	383,358.48	797,620.64	32.051233	-103.506134
9,500.00	4.22	144.28	9,480.94	-423.92	304.85	383,352.50	797,624.94	32.051217	-103.506121
9,600.00	4.22	144.28	9,580.66	-429.90	309.15	383,346.52	797,629.24	32.051200	-103.506107
9,700.00	4.22	144.28	9,680.39	-435.88	313.45	383,340.53	797,633.54	32.051184	-103.506093
9,800.00	4.22	144.28	9,780.12	-441.86	317.75	383,334.55	797,637.84	32.051167	-103.506079
9,900.00	4.22	144.28	9,879.85	-447.84	322.05	383,328.57	797,642.14	32.051151	-103.506066
10,000.00	4.22	144.28	9,979.58	-453.82	326.35	383,322.59	797,646.44	32.051134	-103.506052
10,100.00	4.22	144.28	10,079.31	-459.80	330.65	383,316.61	797,650.74	32.051118	-103.506038
10,200.00	4.22	144.28	10,179.03	-465.79	334.95	383,310.63	797,655.04	32.051101	-103.506024
10,300.00	4.22	144.28	10,278.76	-471.77	339.25	383,304.65	797,659.34	32.051085	-103.506011
10,400.00	4.22	144.28	10,378.49	-477.75	343.55	383,298.67	797,663.64	32.051068	-103.505997
10,500.00	4.22	144.28	10,478.22	-483.73	347.85	383,292.69	797,667.94	32.051052	-103.505983
10,600.00	4.22	144.28	10,577.95	-489.71	352.15	383,286.71	797,672.24	32.051035	-103.505970
10,700.00	4.22	144.28	10,677.68	-495.69	356.45	383,280.73	797,676.54	32.051019	-103.505956
10,800.00	4.22	144.28	10,777.40	-501.67	360.75	383,274.75	797,680.84	32.051002	-103.505942

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Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7-6 FED Fee Com 6H	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	4.22	144.28	10,877.13	-507.65	365.05	383,268.77	797,685.14	32.050986	-103.505928
11,000.00	4.22	144.28	10,976.86	-513.63	369.35	383,262.79	797,689.44	32.050969	-103.505915
11,100.00	4.22	144.28	11,076.59	-519.61	373.65	383,256.81	797,693.74	32.050952	-103.505901
11,200.00	4.22	144.28	11,176.32	-525.59	377.96	383,250.83	797,698.04	32.050936	-103.505887
11,300.00	4.22	144.28	11,276.05	-531.57	382.26	383,244.85	797,702.34	32.050919	-103.505873
11,400.00	4.22	144.28	11,375.77	-537.55	386.56	383,238.87	797,706.64	32.050903	-103.505860
11,500.00	4.22	144.28	11,475.50	-543.53	390.86	383,232.89	797,710.94	32.050886	-103.505846
11,600.00	4.22	144.28	11,575.23	-549.51	395.16	383,226.91	797,715.24	32.050870	-103.505832
11,670.61	4.22	144.28	11,645.65	-553.73	398.19	383,222.69	797,718.28	32.050858	-103.505823
11,700.00	3.78	144.28	11,674.97	-555.40	399.39	383,221.02	797,719.48	32.050854	-103.505819
11,800.00	2.28	144.28	11,774.82	-559.69	402.48	383,216.73	797,722.57	32.050842	-103.505809
11,900.00	0.78	144.28	11,874.79	-561.86	404.04	383,214.56	797,724.13	32.050836	-103.505804
11,952.22	0.00	0.00	11,927.00	-562.15	404.25	383,214.27	797,724.34	32.050835	-103.505803
12,000.00	0.00	0.00	11,974.78	-562.15	404.25	383,214.27	797,724.34	32.050835	-103.505803
12,100.00	0.00	0.00	12,074.78	-562.15	404.25	383,214.27	797,724.34	32.050835	-103.505803
12,200.00	0.00	0.00	12,174.78	-562.15	404.25	383,214.27	797,724.34	32.050835	-103.505803
12,300.00	0.00	0.00	12,274.78	-562.15	404.25	383,214.27	797,724.34	32.050835	-103.505803
12,302.26	0.00	0.00	12,277.04	-562.15	404.25	383,214.27	797,724.34	32.050835	-103.505803
12,302.56	0.03	359.52	12,277.34	-562.15	404.25	383,214.27	797,724.34	32.050835	-103.505803
KOP @ 12303' MD, 52' FSL, 1656' FEL									
12,400.00	9.77	359.52	12,374.31	-553.84	404.18	383,222.58	797,724.27	32.050858	-103.505803
12,500.00	19.77	359.52	12,470.88	-528.37	403.97	383,248.05	797,724.05	32.050928	-103.505803
12,536.34	23.41	359.52	12,504.67	-515.00	403.85	383,261.42	797,723.94	32.050964	-103.505803
First Take Point @ 12536' MD, 100' FSL, 1656' FEL									
12,600.00	29.77	359.52	12,561.56	-486.52	403.61	383,289.90	797,723.70	32.051043	-103.505803
12,700.00	39.77	359.52	12,643.60	-429.56	403.13	383,346.86	797,723.22	32.051199	-103.505804
12,800.00	49.77	359.52	12,714.50	-359.22	402.54	383,417.20	797,722.63	32.051393	-103.505804
12,900.00	59.77	359.52	12,772.10	-277.64	401.85	383,498.78	797,721.94	32.051617	-103.505804
13,000.00	69.77	359.52	12,814.67	-187.29	401.09	383,589.13	797,721.18	32.051865	-103.505804
13,100.00	79.77	359.52	12,840.90	-90.93	400.28	383,685.49	797,720.36	32.052130	-103.505804
13,200.00	89.77	359.52	12,849.99	8.53	399.44	383,784.95	797,719.52	32.052404	-103.505805
13,202.26	90.00	359.52	12,850.00	10.79	399.42	383,787.20	797,719.50	32.052410	-103.505805
13,300.00	90.00	359.52	12,850.00	108.52	398.59	383,884.94	797,718.68	32.052678	-103.505805
13,400.00	90.00	359.52	12,850.00	208.52	397.75	383,984.94	797,717.84	32.052953	-103.505805
13,500.00	90.00	359.52	12,850.00	308.52	396.90	384,084.93	797,716.99	32.053228	-103.505805
13,600.00	90.00	359.52	12,850.00	408.51	396.06	384,184.93	797,716.15	32.053503	-103.505806
13,700.00	90.00	359.52	12,850.00	508.51	395.22	384,284.93	797,715.30	32.053778	-103.505806
13,800.00	90.00	359.52	12,850.00	608.51	394.37	384,384.92	797,714.46	32.054053	-103.505806
13,900.00	90.00	359.52	12,850.00	708.50	393.53	384,484.92	797,713.62	32.054328	-103.505806
14,000.00	90.00	359.52	12,850.00	808.50	392.69	384,584.92	797,712.77	32.054603	-103.505807
14,100.00	90.00	359.52	12,850.00	908.49	391.84	384,684.91	797,711.93	32.054877	-103.505807
14,200.00	90.00	359.52	12,850.00	1,008.49	391.00	384,784.91	797,711.09	32.055152	-103.505807
14,300.00	90.00	359.52	12,850.00	1,108.49	390.16	384,884.90	797,710.24	32.055427	-103.505807
14,400.00	90.00	359.52	12,850.00	1,208.48	389.31	384,984.90	797,709.40	32.055702	-103.505808
14,500.00	90.00	359.52	12,850.00	1,308.48	388.47	385,084.90	797,708.56	32.055977	-103.505808
14,600.00	90.00	359.52	12,850.00	1,408.48	387.62	385,184.89	797,707.71	32.056252	-103.505808
14,700.00	90.00	359.52	12,850.00	1,508.47	386.78	385,284.89	797,706.87	32.056527	-103.505808
14,800.00	90.00	359.52	12,850.00	1,608.47	385.94	385,384.89	797,706.02	32.056802	-103.505809
14,900.00	90.00	359.52	12,850.00	1,708.47	385.09	385,484.88	797,705.18	32.057077	-103.505809
15,000.00	90.00	359.52	12,850.00	1,808.46	384.25	385,584.88	797,704.34	32.057351	-103.505809
15,100.00	90.00	359.52	12,850.00	1,908.46	383.41	385,684.87	797,703.49	32.057626	-103.505809
15,200.00	90.00	359.52	12,850.00	2,008.46	382.56	385,784.87	797,702.65	32.057901	-103.505810
15,300.00	90.00	359.52	12,850.00	2,108.45	381.72	385,884.87	797,701.81	32.058176	-103.505810
15,400.00	90.00	359.52	12,850.00	2,208.45	380.88	385,984.86	797,700.96	32.058451	-103.505810

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7-6 FED Fee Com 6H
Company:	WCDCS Permian NM	TVD Reference:	RKB @ 3398.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3398.20ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7-6 FED Fee Com 6H	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
15,500.00	90.00	359.52	12,850.00	2,308.45	380.03	386,084.86	797,700.12	32.058726	-103.505810
15,600.00	90.00	359.52	12,850.00	2,408.44	379.19	386,184.86	797,699.27	32.059001	-103.505811
15,700.00	90.00	359.52	12,850.00	2,508.44	378.34	386,284.85	797,698.43	32.059276	-103.505811
15,800.00	90.00	359.52	12,850.00	2,608.43	377.50	386,384.85	797,697.59	32.059550	-103.505811
15,900.00	90.00	359.52	12,850.00	2,708.43	376.66	386,484.84	797,696.74	32.059825	-103.505811
16,000.00	90.00	359.52	12,850.00	2,808.43	375.81	386,584.84	797,695.90	32.060100	-103.505812
16,100.00	90.00	359.52	12,850.00	2,908.42	374.97	386,684.84	797,695.06	32.060375	-103.505812
16,200.00	90.00	359.52	12,850.00	3,008.42	374.13	386,784.83	797,694.21	32.060650	-103.505812
16,300.00	90.00	359.52	12,850.00	3,108.42	373.28	386,884.83	797,693.37	32.060925	-103.505812
16,400.00	90.00	359.52	12,850.00	3,208.41	372.44	386,984.83	797,692.53	32.061200	-103.505813
16,500.00	90.00	359.52	12,850.00	3,308.41	371.59	387,084.82	797,691.68	32.061475	-103.505813
16,600.00	90.00	359.52	12,850.00	3,408.41	370.75	387,184.82	797,690.84	32.061749	-103.505813
16,700.00	90.00	359.52	12,850.00	3,508.40	369.91	387,284.81	797,689.99	32.062024	-103.505813
16,800.00	90.00	359.52	12,850.00	3,608.40	369.06	387,384.81	797,689.15	32.062299	-103.505814
16,900.00	90.00	359.52	12,850.00	3,708.40	368.22	387,484.81	797,688.31	32.062574	-103.505814
17,000.00	90.00	359.52	12,850.00	3,808.39	367.38	387,584.80	797,687.46	32.062849	-103.505814
17,100.00	90.00	359.52	12,850.00	3,908.39	366.53	387,684.80	797,686.62	32.063124	-103.505814
17,200.00	90.00	359.52	12,850.00	4,008.38	365.69	387,784.80	797,685.78	32.063399	-103.505815
17,300.00	90.00	359.52	12,850.00	4,108.38	364.85	387,884.79	797,684.93	32.063674	-103.505815
17,400.00	90.00	359.52	12,850.00	4,208.38	364.00	387,984.79	797,684.09	32.063948	-103.505815
17,500.00	90.00	359.52	12,850.00	4,308.37	363.16	388,084.78	797,683.25	32.064223	-103.505815
17,600.00	90.00	359.52	12,850.00	4,408.37	362.31	388,184.78	797,682.40	32.064498	-103.505816
17,700.00	90.00	359.52	12,850.00	4,508.37	361.47	388,284.78	797,681.56	32.064773	-103.505816
17,800.00	90.00	359.52	12,850.00	4,608.36	360.63	388,384.77	797,680.71	32.065048	-103.505816
17,900.00	90.00	359.52	12,850.00	4,708.36	359.78	388,484.77	797,679.87	32.065323	-103.505816
18,000.00	90.00	359.52	12,850.00	4,808.36	358.94	388,584.77	797,679.03	32.065598	-103.505817
18,100.00	90.00	359.52	12,850.00	4,908.35	358.10	388,684.76	797,678.18	32.065873	-103.505817
18,200.00	90.00	359.52	12,850.00	5,008.35	357.25	388,784.76	797,677.34	32.066147	-103.505817
18,300.00	90.00	359.52	12,850.00	5,108.35	356.41	388,884.75	797,676.50	32.066422	-103.505817
18,400.00	90.00	359.52	12,850.00	5,208.34	355.57	388,984.75	797,675.65	32.066697	-103.505818
18,500.00	90.00	359.52	12,850.00	5,308.34	354.72	389,084.75	797,674.81	32.066972	-103.505818
18,600.00	90.00	359.52	12,850.00	5,408.33	353.88	389,184.74	797,673.96	32.067247	-103.505818
18,700.00	90.00	359.52	12,850.00	5,508.33	353.03	389,284.74	797,673.12	32.067522	-103.505818
18,800.00	90.00	359.52	12,850.00	5,608.33	352.19	389,384.74	797,672.28	32.067797	-103.505819
18,900.00	90.00	359.52	12,850.00	5,708.32	351.35	389,484.73	797,671.43	32.068072	-103.505819
19,000.00	90.00	359.52	12,850.00	5,808.32	350.50	389,584.73	797,670.59	32.068346	-103.505819
19,100.00	90.00	359.52	12,850.00	5,908.32	349.66	389,684.72	797,669.75	32.068621	-103.505819
19,200.00	90.00	359.52	12,850.00	6,008.31	348.82	389,784.72	797,668.90	32.068896	-103.505820
19,300.00	90.00	359.52	12,850.00	6,108.31	347.97	389,884.72	797,668.06	32.069171	-103.505820
19,400.00	90.00	359.52	12,850.00	6,208.31	347.13	389,984.71	797,667.22	32.069446	-103.505820
19,500.00	90.00	359.52	12,850.00	6,308.30	346.28	390,084.71	797,666.37	32.069721	-103.505820
19,600.00	90.00	359.52	12,850.00	6,408.30	345.44	390,184.71	797,665.53	32.069996	-103.505821
19,700.00	90.00	359.52	12,850.00	6,508.30	344.60	390,284.70	797,664.68	32.070271	-103.505821
19,800.00	90.00	359.52	12,850.00	6,608.29	343.75	390,384.70	797,663.84	32.070545	-103.505821
19,900.00	90.00	359.52	12,850.00	6,708.29	342.91	390,484.69	797,663.00	32.070820	-103.505821
20,000.00	90.00	359.52	12,850.00	6,808.29	342.07	390,584.69	797,662.15	32.071095	-103.505822
20,100.00	90.00	359.52	12,850.00	6,908.28	341.22	390,684.69	797,661.31	32.071370	-103.505822
20,200.00	90.00	359.52	12,850.00	7,008.28	340.38	390,784.68	797,660.47	32.071645	-103.505822
20,300.00	90.00	359.52	12,850.00	7,108.27	339.54	390,884.68	797,659.62	32.071920	-103.505822
20,400.00	90.00	359.52	12,850.00	7,208.27	338.69	390,984.68	797,658.78	32.072195	-103.505822
20,500.00	90.00	359.52	12,850.00	7,308.27	337.85	391,084.67	797,657.94	32.072470	-103.505823
20,600.00	90.00	359.52	12,850.00	7,408.26	337.00	391,184.67	797,657.09	32.072744	-103.505823
20,700.00	90.00	359.52	12,850.00	7,508.26	336.16	391,284.66	797,656.25	32.073019	-103.505823
20,800.00	90.00	359.52	12,850.00	7,608.26	335.32	391,384.66	797,655.40	32.073294	-103.505823
20,900.00	90.00	359.52	12,850.00	7,708.25	334.47	391,484.66	797,654.56	32.073569	-103.505824

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7-6 FED Fee Com 6H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3398.20ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3398.20ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7-6 FED Fee Com 6H	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
21,000.00	90.00	359.52	12,850.00	7,808.25	333.63	391,584.65	797,653.72	32.073844	-103.505824
21,100.00	90.00	359.52	12,850.00	7,908.25	332.79	391,684.65	797,652.87	32.074119	-103.505824
21,200.00	90.00	359.52	12,850.00	8,008.24	331.94	391,784.65	797,652.03	32.074394	-103.505824
21,300.00	90.00	359.52	12,850.00	8,108.24	331.10	391,884.64	797,651.19	32.074669	-103.505825
21,400.00	90.00	359.52	12,850.00	8,208.24	330.25	391,984.64	797,650.34	32.074943	-103.505825
21,500.00	90.00	359.52	12,850.00	8,308.23	329.41	392,084.63	797,649.50	32.075218	-103.505825
21,600.00	90.00	359.52	12,850.00	8,408.23	328.57	392,184.63	797,648.65	32.075493	-103.505825
21,700.00	90.00	359.52	12,850.00	8,508.22	327.72	392,284.63	797,647.81	32.075768	-103.505826
21,800.00	90.00	359.52	12,850.00	8,608.22	326.88	392,384.62	797,646.97	32.076043	-103.505826
21,900.00	90.00	359.52	12,850.00	8,708.22	326.04	392,484.62	797,646.12	32.076318	-103.505826
22,000.00	90.00	359.52	12,850.00	8,808.21	325.19	392,584.61	797,645.28	32.076593	-103.505826
22,100.00	90.00	359.52	12,850.00	8,908.21	324.35	392,684.61	797,644.44	32.076868	-103.505827
22,200.00	90.00	359.52	12,850.00	9,008.21	323.51	392,784.61	797,643.59	32.077142	-103.505827
22,300.00	90.00	359.52	12,850.00	9,108.20	322.66	392,884.60	797,642.75	32.077417	-103.505827
22,400.00	90.00	359.52	12,850.00	9,208.20	321.82	392,984.60	797,641.91	32.077692	-103.505827
22,500.00	90.00	359.52	12,850.00	9,308.20	320.97	393,084.60	797,641.06	32.077967	-103.505828
22,600.00	90.00	359.52	12,850.00	9,408.19	320.13	393,184.59	797,640.22	32.078242	-103.505828
22,700.00	90.00	359.52	12,850.00	9,508.19	319.29	393,284.59	797,639.37	32.078517	-103.505828
22,800.00	90.00	359.52	12,850.00	9,608.19	318.44	393,384.58	797,638.53	32.078792	-103.505828
22,900.00	90.00	359.52	12,850.00	9,708.18	317.60	393,484.58	797,637.69	32.079067	-103.505829
23,000.00	90.00	359.52	12,850.00	9,808.18	316.76	393,584.58	797,636.84	32.079341	-103.505829
23,040.50	90.00	359.52	12,850.00	9,848.68	316.41	393,625.08	797,636.50	32.079453	-103.505829
Last Take Point @ 23040' MD, 100' FNL, 1660' FEL									
23,041.88	90.00	359.52	12,850.00	9,850.05	316.40	393,626.45	797,636.49	32.079457	-103.505829
PBHL; 100' FNL, 1660' FEL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Jayhawk 7-6 FEL	0.00	0.00	0.00	9,850.05	316.40	393,626.45	797,636.49	32.079457	-103.505829
- hit/miss target									
- Shape									
- plan misses target center by 9855.13ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
VP - Jayhawk 7-6 Fed 6H	0.00	0.00	11,800.00	-562.15	404.25	383,214.27	797,724.34	32.050835	-103.505803
- hit/miss target									
- Shape									
- plan misses target center by 2.11ft at 11825.25ft MD (11800.06 TVD, -560.44 N, 403.02 E)									
- Point									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
12,302.56	12,277.34	-562.15	404.25	KOP @ 12303' MD, 52' FSL, 1656' FEL
12,536.34	12,504.67	-515.00	403.85	First Take Point @ 12536' MD, 100' FSL, 1656' FEL
23,040.50	12,850.00	9,848.68	316.41	Last Take Point @ 23040' MD, 100' FNL, 1660' FEL
23,041.88	12,850.00	9,850.05	316.40	PBHL; 100' FNL, 1660' FEL