

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 06-T26S-R34E

Jayhawk 6-7 FED 13H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

27 July, 2018

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 6-7 FED 13H
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 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 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 13H					
Well Position	+N/-S	0.00 ft	Northing:	393,262.89 usft	Latitude:	32.078494
	+E/-W	0.00 ft	Easting:	795,893.92 usft	Longitude:	-103.511464
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	47,745.88922123

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	189.99

Plan Survey Tool Program	Date	7/27/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,395.61 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	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,083.30	5.83	282.93	3,082.29	6.64	-28.91	1.00	1.00	0.00	282.93	
11,394.85	5.83	282.93	11,350.81	195.58	-852.20	0.00	0.00	0.00	0.00	
11,783.71	0.00	0.00	11,739.00	200.00	-871.48	1.50	-1.50	0.00	180.00	
12,133.75	0.00	0.00	12,089.04	200.00	-871.48	0.00	0.00	0.00	0.00	
13,033.75	90.00	179.57	12,662.00	-372.94	-867.15	10.00	10.00	0.00	179.57	PBHL - Jayhawk 6-7 f
17,395.61	90.00	179.57	12,662.00	-4,734.67	-834.17	0.00	0.00	0.00	0.00	PBHL - Jayhawk 6-7 f

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Well:	Jayhawk 6-7 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	393,262.89	795,893.92	32.078494	-103.511464
100.00	0.00	0.00	100.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
200.00	0.00	0.00	200.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
300.00	0.00	0.00	300.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
400.00	0.00	0.00	400.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
500.00	0.00	0.00	500.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
600.00	0.00	0.00	600.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
700.00	0.00	0.00	700.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
800.00	0.00	0.00	800.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
900.00	0.00	0.00	900.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
1,000.00	0.00	0.00	1,000.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
1,100.00	0.00	0.00	1,100.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
1,200.00	0.00	0.00	1,200.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
1,300.00	0.00	0.00	1,300.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
1,400.00	0.00	0.00	1,400.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
1,500.00	0.00	0.00	1,500.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
1,600.00	0.00	0.00	1,600.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
1,700.00	0.00	0.00	1,700.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
1,800.00	0.00	0.00	1,800.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
1,900.00	0.00	0.00	1,900.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
2,000.00	0.00	0.00	2,000.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
2,100.00	0.00	0.00	2,100.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
2,200.00	0.00	0.00	2,200.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
2,300.00	0.00	0.00	2,300.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
2,400.00	0.00	0.00	2,400.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
2,500.00	0.00	0.00	2,500.00	0.00	0.00	393,262.89	795,893.92	32.078494	-103.511464
2,600.00	1.00	282.93	2,599.99	0.20	-0.85	393,263.08	795,893.07	32.078494	-103.511466
2,700.00	2.00	282.93	2,699.96	0.78	-3.40	393,263.67	795,890.52	32.078496	-103.511475
2,800.00	3.00	282.93	2,799.86	1.76	-7.65	393,264.65	795,886.26	32.078499	-103.511488
2,900.00	4.00	282.93	2,899.68	3.12	-13.60	393,266.01	795,880.31	32.078503	-103.511508
3,000.00	5.00	282.93	2,999.37	4.88	-21.25	393,267.77	795,872.67	32.078508	-103.511532
3,083.30	5.83	282.93	3,082.29	6.64	-28.91	393,269.52	795,865.00	32.078513	-103.511557
3,100.00	5.83	282.93	3,098.91	7.02	-30.57	393,269.90	795,863.35	32.078514	-103.511562
3,200.00	5.83	282.93	3,198.39	9.29	-40.47	393,272.18	795,853.44	32.078520	-103.511594
3,300.00	5.83	282.93	3,297.87	11.56	-50.38	393,274.45	795,843.54	32.078527	-103.511626
3,400.00	5.83	282.93	3,397.35	13.83	-60.28	393,276.72	795,833.63	32.078533	-103.511658
3,500.00	5.83	282.93	3,496.84	16.11	-70.19	393,279.00	795,823.73	32.078540	-103.511690
3,600.00	5.83	282.93	3,596.32	18.38	-80.10	393,281.27	795,813.82	32.078546	-103.511722
3,700.00	5.83	282.93	3,695.80	20.65	-90.00	393,283.54	795,803.92	32.078553	-103.511754
3,800.00	5.83	282.93	3,795.28	22.93	-99.91	393,285.82	795,794.01	32.078559	-103.511786
3,900.00	5.83	282.93	3,894.76	25.20	-109.81	393,288.09	795,784.11	32.078565	-103.511818
4,000.00	5.83	282.93	3,994.25	27.47	-119.72	393,290.36	795,774.20	32.078572	-103.511849
4,100.00	5.83	282.93	4,093.73	29.75	-129.62	393,292.64	795,764.30	32.078578	-103.511881
4,200.00	5.83	282.93	4,193.21	32.02	-139.53	393,294.91	795,754.39	32.078585	-103.511913
4,300.00	5.83	282.93	4,292.69	34.29	-149.43	393,297.18	795,744.49	32.078591	-103.511945
4,400.00	5.83	282.93	4,392.18	36.57	-159.34	393,299.46	795,734.58	32.078598	-103.511977
4,500.00	5.83	282.93	4,491.66	38.84	-169.24	393,301.73	795,724.67	32.078604	-103.512009
4,600.00	5.83	282.93	4,591.14	41.11	-179.15	393,304.00	795,714.77	32.078611	-103.512041
4,700.00	5.83	282.93	4,690.62	43.39	-189.05	393,306.28	795,704.86	32.078617	-103.512073
4,800.00	5.83	282.93	4,790.10	45.66	-198.96	393,308.55	795,694.96	32.078624	-103.512105
4,900.00	5.83	282.93	4,889.59	47.93	-208.87	393,310.82	795,685.05	32.078630	-103.512137
5,000.00	5.83	282.93	4,989.07	50.21	-218.77	393,313.10	795,675.15	32.078636	-103.512169
5,100.00	5.83	282.93	5,088.55	52.48	-228.68	393,315.37	795,665.24	32.078643	-103.512201
5,200.00	5.83	282.93	5,188.03	54.75	-238.58	393,317.64	795,655.34	32.078649	-103.512233
5,300.00	5.83	282.93	5,287.52	57.03	-248.49	393,319.92	795,645.43	32.078656	-103.512264

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Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

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5,400.00	5.83	282.93	5,387.00	59.30	-258.39	393,322.19	795,635.53	32.078662	-103.512296
5,500.00	5.83	282.93	5,486.48	61.57	-268.30	393,324.46	795,625.62	32.078669	-103.512328
5,600.00	5.83	282.93	5,585.96	63.85	-278.20	393,326.73	795,615.72	32.078675	-103.512360
5,700.00	5.83	282.93	5,685.44	66.12	-288.11	393,329.01	795,605.81	32.078682	-103.512392
5,800.00	5.83	282.93	5,784.93	68.39	-298.01	393,331.28	795,595.90	32.078688	-103.512424
5,900.00	5.83	282.93	5,884.41	70.67	-307.92	393,333.55	795,586.00	32.078695	-103.512456
6,000.00	5.83	282.93	5,983.89	72.94	-317.82	393,335.83	795,576.09	32.078701	-103.512488
6,100.00	5.83	282.93	6,083.37	75.21	-327.73	393,338.10	795,566.19	32.078707	-103.512520
6,200.00	5.83	282.93	6,182.86	77.49	-337.64	393,340.37	795,556.28	32.078714	-103.512552
6,300.00	5.83	282.93	6,282.34	79.76	-347.54	393,342.65	795,546.38	32.078720	-103.512584
6,400.00	5.83	282.93	6,381.82	82.03	-357.45	393,344.92	795,536.47	32.078727	-103.512616
6,500.00	5.83	282.93	6,481.30	84.31	-367.35	393,347.19	795,526.57	32.078733	-103.512648
6,600.00	5.83	282.93	6,580.78	86.58	-377.26	393,349.47	795,516.66	32.078740	-103.512679
6,700.00	5.83	282.93	6,680.27	88.85	-387.16	393,351.74	795,506.76	32.078746	-103.512711
6,800.00	5.83	282.93	6,779.75	91.12	-397.07	393,354.01	795,496.85	32.078753	-103.512743
6,900.00	5.83	282.93	6,879.23	93.40	-406.97	393,356.29	795,486.95	32.078759	-103.512775
7,000.00	5.83	282.93	6,978.71	95.67	-416.88	393,358.56	795,477.04	32.078766	-103.512807
7,100.00	5.83	282.93	7,078.20	97.94	-426.78	393,360.83	795,467.13	32.078772	-103.512839
7,200.00	5.83	282.93	7,177.68	100.22	-436.69	393,363.11	795,457.23	32.078778	-103.512871
7,300.00	5.83	282.93	7,277.16	102.49	-446.59	393,365.38	795,447.32	32.078785	-103.512903
7,400.00	5.83	282.93	7,376.64	104.76	-456.50	393,367.65	795,437.42	32.078791	-103.512935
7,500.00	5.83	282.93	7,476.13	107.04	-466.41	393,369.93	795,427.51	32.078798	-103.512967
7,600.00	5.83	282.93	7,575.61	109.31	-476.31	393,372.20	795,417.61	32.078804	-103.512999
7,700.00	5.83	282.93	7,675.09	111.58	-486.22	393,374.47	795,407.70	32.078811	-103.513031
7,800.00	5.83	282.93	7,774.57	113.86	-496.12	393,376.75	795,397.80	32.078817	-103.513063
7,900.00	5.83	282.93	7,874.05	116.13	-506.03	393,379.02	795,387.89	32.078824	-103.513094
8,000.00	5.83	282.93	7,973.54	118.40	-515.93	393,381.29	795,377.99	32.078830	-103.513126
8,100.00	5.83	282.93	8,073.02	120.68	-525.84	393,383.57	795,368.08	32.078837	-103.513158
8,200.00	5.83	282.93	8,172.50	122.95	-535.74	393,385.84	795,358.18	32.078843	-103.513190
8,300.00	5.83	282.93	8,271.98	125.22	-545.65	393,388.11	795,348.27	32.078849	-103.513222
8,400.00	5.83	282.93	8,371.47	127.50	-555.55	393,390.39	795,338.37	32.078856	-103.513254
8,500.00	5.83	282.93	8,470.95	129.77	-565.46	393,392.66	795,328.46	32.078862	-103.513286
8,600.00	5.83	282.93	8,570.43	132.04	-575.36	393,394.93	795,318.55	32.078869	-103.513318
8,700.00	5.83	282.93	8,669.91	134.32	-585.27	393,397.20	795,308.65	32.078875	-103.513350
8,800.00	5.83	282.93	8,769.39	136.59	-595.18	393,399.48	795,298.74	32.078882	-103.513382
8,900.00	5.83	282.93	8,868.88	138.86	-605.08	393,401.75	795,288.84	32.078888	-103.513414
9,000.00	5.83	282.93	8,968.36	141.14	-614.99	393,404.02	795,278.93	32.078895	-103.513446
9,100.00	5.83	282.93	9,067.84	143.41	-624.89	393,406.30	795,269.03	32.078901	-103.513478
9,200.00	5.83	282.93	9,167.32	145.68	-634.80	393,408.57	795,259.12	32.078908	-103.513509
9,300.00	5.83	282.93	9,266.81	147.96	-644.70	393,410.84	795,249.22	32.078914	-103.513541
9,400.00	5.83	282.93	9,366.29	150.23	-654.61	393,413.12	795,239.31	32.078920	-103.513573
9,500.00	5.83	282.93	9,465.77	152.50	-664.51	393,415.39	795,229.41	32.078927	-103.513605
9,600.00	5.83	282.93	9,565.25	154.78	-674.42	393,417.66	795,219.50	32.078933	-103.513637
9,700.00	5.83	282.93	9,664.73	157.05	-684.32	393,419.94	795,209.60	32.078940	-103.513669
9,800.00	5.83	282.93	9,764.22	159.32	-694.23	393,422.21	795,199.69	32.078946	-103.513701
9,900.00	5.83	282.93	9,863.70	161.59	-704.13	393,424.48	795,189.78	32.078953	-103.513733
10,000.00	5.83	282.93	9,963.18	163.87	-714.04	393,426.76	795,179.88	32.078959	-103.513765
10,100.00	5.83	282.93	10,062.66	166.14	-723.95	393,429.03	795,169.97	32.078966	-103.513797
10,200.00	5.83	282.93	10,162.15	168.41	-733.85	393,431.30	795,160.07	32.078972	-103.513829
10,300.00	5.83	282.93	10,261.63	170.69	-743.76	393,433.58	795,150.16	32.078979	-103.513861
10,400.00	5.83	282.93	10,361.11	172.96	-753.66	393,435.85	795,140.26	32.078985	-103.513893
10,500.00	5.83	282.93	10,460.59	175.23	-763.57	393,438.12	795,130.35	32.078992	-103.513924
10,600.00	5.83	282.93	10,560.07	177.51	-773.47	393,440.40	795,120.45	32.078998	-103.513956
10,700.00	5.83	282.93	10,659.56	179.78	-783.38	393,442.67	795,110.54	32.079004	-103.513988
10,800.00	5.83	282.93	10,759.04	182.05	-793.28	393,444.94	795,100.64	32.079011	-103.514020

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Company:	WCDCS 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 13H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Permit Plan 1		

Planned Survey									
Measured			Vertical			Map	Map		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
10,900.00	5.83	282.93	10,858.52	184.33	-803.19	393,447.22	795,090.73	32.079017	-103.514052
11,000.00	5.83	282.93	10,958.00	186.60	-813.09	393,449.49	795,080.83	32.079024	-103.514084
11,100.00	5.83	282.93	11,057.49	188.87	-823.00	393,451.76	795,070.92	32.079030	-103.514116
11,200.00	5.83	282.93	11,156.97	191.15	-832.90	393,454.04	795,061.02	32.079037	-103.514148
11,300.00	5.83	282.93	11,256.45	193.42	-842.81	393,456.31	795,051.11	32.079043	-103.514180
11,394.85	5.83	282.93	11,350.81	195.58	-852.20	393,458.46	795,041.71	32.079049	-103.514210
11,400.00	5.76	282.93	11,355.93	195.69	-852.71	393,458.58	795,041.21	32.079050	-103.514212
11,500.00	4.26	282.93	11,455.55	197.64	-861.22	393,460.53	795,032.70	32.079055	-103.514239
11,600.00	2.76	282.93	11,555.36	199.01	-867.18	393,461.90	795,026.74	32.079059	-103.514258
11,700.00	1.26	282.93	11,655.29	199.79	-870.59	393,462.68	795,023.33	32.079061	-103.514269
11,783.71	0.00	0.00	11,739.00	200.00	-871.48	393,462.89	795,022.44	32.079062	-103.514272
11,800.00	0.00	0.00	11,755.29	200.00	-871.48	393,462.89	795,022.44	32.079062	-103.514272
11,900.00	0.00	0.00	11,855.29	200.00	-871.48	393,462.89	795,022.44	32.079062	-103.514272
12,000.00	0.00	0.00	11,955.29	200.00	-871.48	393,462.89	795,022.44	32.079062	-103.514272
12,100.00	0.00	0.00	12,055.29	200.00	-871.48	393,462.89	795,022.44	32.079062	-103.514272
12,133.75	0.00	0.00	12,089.04	200.00	-871.48	393,462.89	795,022.44	32.079062	-103.514272
KOP @ 12134' MD, 250' FNL,1009' FWL									
12,200.00	6.62	179.57	12,155.14	196.17	-871.45	393,459.06	795,022.47	32.079051	-103.514272
12,300.00	16.62	179.57	12,252.96	176.05	-871.30	393,438.94	795,022.62	32.078996	-103.514272
12,400.00	26.62	179.57	12,345.81	139.25	-871.02	393,402.13	795,022.90	32.078895	-103.514272
12,500.00	36.62	179.57	12,430.85	86.88	-870.63	393,349.77	795,023.29	32.078751	-103.514272
12,600.00	46.62	179.57	12,505.51	20.54	-870.12	393,283.43	795,023.80	32.078569	-103.514272
12,633.75	50.00	179.57	12,527.95	-4.66	-869.93	393,258.23	795,023.99	32.078499	-103.514272
First Take Point @ 12634' MD, 455' FNL, 1010' FWL									
12,700.00	56.62	179.57	12,567.51	-57.75	-869.53	393,205.13	795,024.39	32.078353	-103.514272
12,800.00	66.62	179.57	12,614.97	-145.63	-868.87	393,117.26	795,025.05	32.078112	-103.514272
12,900.00	76.62	179.57	12,646.46	-240.40	-868.15	393,022.49	795,025.77	32.077851	-103.514272
13,000.00	86.62	179.57	12,661.01	-339.21	-867.40	392,923.68	795,026.52	32.077580	-103.514272
13,033.75	90.00	179.57	12,662.00	-372.94	-867.15	392,889.95	795,026.77	32.077487	-103.514272
13,100.00	90.00	179.57	12,662.00	-439.19	-866.65	392,823.70	795,027.27	32.077305	-103.514272
13,200.00	90.00	179.57	12,662.00	-539.18	-865.89	392,723.71	795,028.03	32.077030	-103.514272
13,300.00	90.00	179.57	12,662.00	-639.18	-865.14	392,623.71	795,028.78	32.076755	-103.514272
13,400.00	90.00	179.57	12,662.00	-739.18	-864.38	392,523.71	795,029.54	32.076480	-103.514272
13,500.00	90.00	179.57	12,662.00	-839.18	-863.62	392,423.72	795,030.30	32.076205	-103.514272
13,600.00	90.00	179.57	12,662.00	-939.17	-862.87	392,323.72	795,031.05	32.075930	-103.514272
13,700.00	90.00	179.57	12,662.00	-1,039.17	-862.11	392,223.72	795,031.81	32.075656	-103.514272
13,800.00	90.00	179.57	12,662.00	-1,139.17	-861.36	392,123.72	795,032.56	32.075381	-103.514272
13,900.00	90.00	179.57	12,662.00	-1,239.16	-860.60	392,023.73	795,033.32	32.075106	-103.514272
14,000.00	90.00	179.57	12,662.00	-1,339.16	-859.84	391,923.73	795,034.07	32.074831	-103.514272
14,100.00	90.00	179.57	12,662.00	-1,439.16	-859.09	391,823.73	795,034.83	32.074556	-103.514272
14,200.00	90.00	179.57	12,662.00	-1,539.16	-858.33	391,723.74	795,035.59	32.074281	-103.514272
14,300.00	90.00	179.57	12,662.00	-1,639.15	-857.58	391,623.74	795,036.34	32.074006	-103.514272
14,400.00	90.00	179.57	12,662.00	-1,739.15	-856.82	391,523.74	795,037.10	32.073731	-103.514272
14,500.00	90.00	179.57	12,662.00	-1,839.15	-856.06	391,423.75	795,037.85	32.073457	-103.514272
14,600.00	90.00	179.57	12,662.00	-1,939.14	-855.31	391,323.75	795,038.61	32.073182	-103.514272
14,700.00	90.00	179.57	12,662.00	-2,039.14	-854.55	391,223.75	795,039.37	32.072907	-103.514272
14,800.00	90.00	179.57	12,662.00	-2,139.14	-853.80	391,123.76	795,040.12	32.072632	-103.514272
14,900.00	90.00	179.57	12,662.00	-2,239.14	-853.04	391,023.76	795,040.88	32.072357	-103.514272
15,000.00	90.00	179.57	12,662.00	-2,339.13	-852.28	390,923.76	795,041.63	32.072082	-103.514272
15,100.00	90.00	179.57	12,662.00	-2,439.13	-851.53	390,823.76	795,042.39	32.071807	-103.514272
15,200.00	90.00	179.57	12,662.00	-2,539.13	-850.77	390,723.77	795,043.15	32.071532	-103.514272
15,300.00	90.00	179.57	12,662.00	-2,639.12	-850.02	390,623.77	795,043.90	32.071258	-103.514272
15,400.00	90.00	179.57	12,662.00	-2,739.12	-849.26	390,523.77	795,044.66	32.070983	-103.514273
15,500.00	90.00	179.57	12,662.00	-2,839.12	-848.50	390,423.78	795,045.41	32.070708	-103.514273

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 6-7 FED 13H
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 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	179.57	12,662.00	-2,939.12	-847.75	390,323.78	795,046.17	32.070433	-103.514273
15,700.00	90.00	179.57	12,662.00	-3,039.11	-846.99	390,223.78	795,046.93	32.070158	-103.514273
15,800.00	90.00	179.57	12,662.00	-3,139.11	-846.24	390,123.79	795,047.68	32.069883	-103.514273
15,900.00	90.00	179.57	12,662.00	-3,239.11	-845.48	390,023.79	795,048.44	32.069608	-103.514273
16,000.00	90.00	179.57	12,662.00	-3,339.10	-844.72	389,923.79	795,049.19	32.069333	-103.514273
16,100.00	90.00	179.57	12,662.00	-3,439.10	-843.97	389,823.79	795,049.95	32.069059	-103.514273
16,200.00	90.00	179.57	12,662.00	-3,539.10	-843.21	389,723.80	795,050.71	32.068784	-103.514273
16,300.00	90.00	179.57	12,662.00	-3,639.10	-842.46	389,623.80	795,051.46	32.068509	-103.514273
16,400.00	90.00	179.57	12,662.00	-3,739.09	-841.70	389,523.80	795,052.22	32.068234	-103.514273
16,500.00	90.00	179.57	12,662.00	-3,839.09	-840.95	389,423.81	795,052.97	32.067959	-103.514273
16,600.00	90.00	179.57	12,662.00	-3,939.09	-840.19	389,323.81	795,053.73	32.067684	-103.514273
16,700.00	90.00	179.57	12,662.00	-4,039.08	-839.43	389,223.81	795,054.49	32.067409	-103.514273
16,800.00	90.00	179.57	12,662.00	-4,139.08	-838.68	389,123.82	795,055.24	32.067134	-103.514273
16,900.00	90.00	179.57	12,662.00	-4,239.08	-837.92	389,023.82	795,056.00	32.066860	-103.514273
17,000.00	90.00	179.57	12,662.00	-4,339.08	-837.17	388,923.82	795,056.75	32.066585	-103.514273
17,100.00	90.00	179.57	12,662.00	-4,439.07	-836.41	388,823.83	795,057.51	32.066310	-103.514273
17,200.00	90.00	179.57	12,662.00	-4,539.07	-835.65	388,723.83	795,058.27	32.066035	-103.514273
17,300.00	90.00	179.57	12,662.00	-4,639.07	-834.90	388,623.83	795,059.02	32.065760	-103.514273
17,394.50	90.00	179.57	12,662.00	-4,733.56	-834.18	388,529.33	795,059.74	32.065500	-103.514273
Last Take Point @ 17395' MD, 100' FSL, 1010' FWL									
17,395.60	90.00	179.57	12,662.00	-4,734.66	-834.17	388,528.23	795,059.74	32.065497	-103.514273
PBHL; 100' FSL, 1010' FWL									
17,395.61	90.00	179.57	12,662.00	-4,734.67	-834.17	388,528.23	795,059.74	32.065497	-103.514273

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL - Jayhawk 6-7 FEI	0.00	0.00	0.00	-4,734.67	-834.17	388,528.23	795,059.74	32.065497	-103.514273
- plan misses target center by 4807.59ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
VP - Jayhawk 13H	0.00	0.00	11,400.00	244.30	-871.48	393,507.19	795,022.44	32.079184	-103.514271
- plan misses target center by 49.84ft at 11446.45ft MD (11402.17 TVD, 196.67 N, -856.98 E)									
- Point									

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
12,133.75	12,089.04	200.00	-871.48	KOP @ 12134' MD, 250' FNL, 1009' FWL	
12,633.75	12,527.95	-4.66	-869.93	First Take Point @ 12634' MD, 455' FNL, 1010' FWL	
17,394.50	12,662.00	-54.90	-869.55	Last Take Point @ 17395' MD, 100' FSL, 1010' FWL	
17,395.60	12,662.00	-4,733.56	-834.18	PBHL; 100' FSL, 1010' FWL	

WCDSC Permian NM

WELL DETAILS: Jayhawk 6-7 FED 13H

RKB @ 3341.50ft (Original Well Elev)
3316.50

Northing 393262.89 Easting 795893.92 Latitude 32.078494 Longitude -103.511463

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	
	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	
	3083.30	5.83	282.93	3082.29	6.64	-28.91	1.00	-1.52	
	11394.85	5.83	282.93	11350.81	195.58	-852.20	0.00	-44.74	
5	11783.71	0.00	0.00	11739.00	200.00	-871.48	1.50	-45.75	
6	12133.75	0.00	0.00	12089.04	200.00	-871.48	0.00	-45.75	KOP @ 12134' MD, 250' FNL,1009' FWL
7	13033.75	90.00	179.57	12662.00	-372.94	-867.15	10.00	517.75	
8	17395.61	90.00	179.57	12662.00	-4734.67	-834.17	0.00	4807.59	PBHL; 100' FSL, 1010' FWL

