

WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 07-T26S-R34E

Jayhawk 7-6 FED Fee Com 7H

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 7H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3397.50ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3397.50ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7-6 FED Fee Com 7H	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 7H					
Well Position	+N/-S	0.00 ft	Northing:	383,776.16 usft	Latitude:	32.052388
	+E/-W	0.00 ft	Easting:	797,290.10 usft	Longitude:	-103.507191
Position Uncertainty		0.50 ft	Wellhead Elevation:		Ground Level:	3,372.50 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	7/23/2018	6.79	59.90	47,730.42483125

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	2.01

Plan Survey Tool Program	Date	7/25/2018		
Depth From (ft)	Depth To (ft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	22,670.32 Permit Plan 1 (Wellbore #1)	MWD+HDGM	
			OWSG MWD + HDGM	

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,433.11	5.41	133.57	5,432.46	-14.09	14.81	1.25	1.25	0.00	133.57	
11,369.74	5.41	133.57	11,342.62	-400.15	420.62	0.00	0.00	0.00	0.00	
11,730.66	0.00	0.00	11,703.00	-411.90	432.97	1.50	-1.50	0.00	180.00	
12,080.70	0.00	0.00	12,053.04	-411.90	432.97	0.00	0.00	0.00	0.00	
12,980.70	90.00	359.52	12,626.00	161.04	428.13	10.00	10.00	0.00	359.52	PBHL - Jayhawk 7-6 f
22,670.32	90.00	359.52	12,626.00	9,850.31	346.39	0.00	0.00	0.00	0.00	PBHL - Jayhawk 7-6 f

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Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7-6 FED Fee Com 7H	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	383,776.16	797,290.10	32.052388	-103.507191
100.00	0.00	0.00	100.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
200.00	0.00	0.00	200.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
300.00	0.00	0.00	300.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
400.00	0.00	0.00	400.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
500.00	0.00	0.00	500.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
600.00	0.00	0.00	600.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
700.00	0.00	0.00	700.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
800.00	0.00	0.00	800.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
900.00	0.00	0.00	900.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
1,000.00	0.00	0.00	1,000.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
1,100.00	0.00	0.00	1,100.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
1,200.00	0.00	0.00	1,200.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
1,300.00	0.00	0.00	1,300.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
1,400.00	0.00	0.00	1,400.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
1,500.00	0.00	0.00	1,500.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
1,600.00	0.00	0.00	1,600.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
1,700.00	0.00	0.00	1,700.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
1,800.00	0.00	0.00	1,800.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
1,900.00	0.00	0.00	1,900.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
2,000.00	0.00	0.00	2,000.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
2,100.00	0.00	0.00	2,100.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
2,200.00	0.00	0.00	2,200.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
2,300.00	0.00	0.00	2,300.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
2,400.00	0.00	0.00	2,400.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
2,500.00	0.00	0.00	2,500.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
2,600.00	0.00	0.00	2,600.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
2,700.00	0.00	0.00	2,700.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
2,800.00	0.00	0.00	2,800.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
2,900.00	0.00	0.00	2,900.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
3,000.00	0.00	0.00	3,000.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
3,100.00	0.00	0.00	3,100.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
3,200.00	0.00	0.00	3,200.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
3,300.00	0.00	0.00	3,300.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
3,400.00	0.00	0.00	3,400.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
3,500.00	0.00	0.00	3,500.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
3,600.00	0.00	0.00	3,600.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
3,700.00	0.00	0.00	3,700.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
3,800.00	0.00	0.00	3,800.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
3,900.00	0.00	0.00	3,900.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
4,000.00	0.00	0.00	4,000.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
4,100.00	0.00	0.00	4,100.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
4,200.00	0.00	0.00	4,200.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
4,300.00	0.00	0.00	4,300.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
4,400.00	0.00	0.00	4,400.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
4,500.00	0.00	0.00	4,500.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
4,600.00	0.00	0.00	4,600.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
4,700.00	0.00	0.00	4,700.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
4,800.00	0.00	0.00	4,800.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
4,900.00	0.00	0.00	4,900.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
5,000.00	0.00	0.00	5,000.00	0.00	0.00	383,776.16	797,290.10	32.052388	-103.507191
5,100.00	1.25	133.57	5,099.99	-0.75	0.79	383,775.41	797,290.89	32.052386	-103.507188
5,200.00	2.50	133.57	5,199.94	-3.01	3.16	383,773.15	797,293.26	32.052380	-103.507181
5,300.00	3.75	133.57	5,299.79	-6.76	7.11	383,769.39	797,297.21	32.052370	-103.507168
5,400.00	5.00	133.57	5,399.49	-12.02	12.64	383,764.14	797,302.73	32.052355	-103.507150

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Well:	Jayhawk 7-6 FED Fee Com 7H	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
5,433.11	5.41	133.57	5,432.46	-14.09	14.81	383,762.07	797,304.91	32.052349	-103.507143
5,500.00	5.41	133.57	5,499.06	-18.44	19.39	383,757.72	797,309.48	32.052337	-103.507129
5,600.00	5.41	133.57	5,598.61	-24.95	26.22	383,751.21	797,316.32	32.052319	-103.507107
5,700.00	5.41	133.57	5,698.17	-31.45	33.06	383,744.71	797,323.16	32.052301	-103.507085
5,800.00	5.41	133.57	5,797.72	-37.95	39.89	383,738.21	797,329.99	32.052283	-103.507063
5,900.00	5.41	133.57	5,897.27	-44.46	46.73	383,731.70	797,336.83	32.052265	-103.507041
6,000.00	5.41	133.57	5,996.83	-50.96	53.56	383,725.20	797,343.66	32.052247	-103.507019
6,100.00	5.41	133.57	6,096.38	-57.46	60.40	383,718.70	797,350.50	32.052229	-103.506997
6,200.00	5.41	133.57	6,195.94	-63.96	67.24	383,712.19	797,357.33	32.052211	-103.506975
6,300.00	5.41	133.57	6,295.49	-70.47	74.07	383,705.69	797,364.17	32.052193	-103.506953
6,400.00	5.41	133.57	6,395.04	-76.97	80.91	383,699.19	797,371.01	32.052175	-103.506932
6,500.00	5.41	133.57	6,494.60	-83.47	87.74	383,692.69	797,377.84	32.052157	-103.506910
6,600.00	5.41	133.57	6,594.15	-89.98	94.58	383,686.18	797,384.68	32.052139	-103.506888
6,700.00	5.41	133.57	6,693.70	-96.48	101.41	383,679.68	797,391.51	32.052121	-103.506866
6,800.00	5.41	133.57	6,793.26	-102.98	108.25	383,673.18	797,398.35	32.052103	-103.506844
6,900.00	5.41	133.57	6,892.81	-109.49	115.09	383,666.67	797,405.18	32.052085	-103.506822
7,000.00	5.41	133.57	6,992.37	-115.99	121.92	383,660.17	797,412.02	32.052067	-103.506800
7,100.00	5.41	133.57	7,091.92	-122.49	128.76	383,653.67	797,418.85	32.052049	-103.506778
7,200.00	5.41	133.57	7,191.47	-128.99	135.59	383,647.16	797,425.69	32.052031	-103.506756
7,300.00	5.41	133.57	7,291.03	-135.50	142.43	383,640.66	797,432.53	32.052013	-103.506734
7,400.00	5.41	133.57	7,390.58	-142.00	149.26	383,634.16	797,439.36	32.051995	-103.506713
7,500.00	5.41	133.57	7,490.14	-148.50	156.10	383,627.66	797,446.20	32.051977	-103.506691
7,600.00	5.41	133.57	7,589.69	-155.01	162.94	383,621.15	797,453.03	32.051959	-103.506669
7,700.00	5.41	133.57	7,689.24	-161.51	169.77	383,614.65	797,459.87	32.051941	-103.506647
7,800.00	5.41	133.57	7,788.80	-168.01	176.61	383,608.15	797,466.70	32.051923	-103.506625
7,900.00	5.41	133.57	7,888.35	-174.52	183.44	383,601.64	797,473.54	32.051905	-103.506603
8,000.00	5.41	133.57	7,987.91	-181.02	190.28	383,595.14	797,480.38	32.051887	-103.506581
8,100.00	5.41	133.57	8,087.46	-187.52	197.11	383,588.64	797,487.21	32.051869	-103.506559
8,200.00	5.41	133.57	8,187.01	-194.03	203.95	383,582.13	797,494.05	32.051851	-103.506537
8,300.00	5.41	133.57	8,286.57	-200.53	210.79	383,575.63	797,500.88	32.051833	-103.506515
8,400.00	5.41	133.57	8,386.12	-207.03	217.62	383,569.13	797,507.72	32.051815	-103.506494
8,500.00	5.41	133.57	8,485.68	-213.53	224.46	383,562.62	797,514.55	32.051797	-103.506472
8,600.00	5.41	133.57	8,585.23	-220.04	231.29	383,556.12	797,521.39	32.051779	-103.506450
8,700.00	5.41	133.57	8,684.78	-226.54	238.13	383,549.62	797,528.22	32.051761	-103.506428
8,800.00	5.41	133.57	8,784.34	-233.04	244.96	383,543.12	797,535.06	32.051743	-103.506406
8,900.00	5.41	133.57	8,883.89	-239.55	251.80	383,536.61	797,541.90	32.051725	-103.506384
9,000.00	5.41	133.57	8,983.45	-246.05	258.63	383,530.11	797,548.73	32.051707	-103.506362
9,100.00	5.41	133.57	9,083.00	-252.55	265.47	383,523.61	797,555.57	32.051689	-103.506340
9,200.00	5.41	133.57	9,182.55	-259.06	272.31	383,517.10	797,562.40	32.051671	-103.506318
9,300.00	5.41	133.57	9,282.11	-265.56	279.14	383,510.60	797,569.24	32.051653	-103.506296
9,400.00	5.41	133.57	9,381.66	-272.06	285.98	383,504.10	797,576.07	32.051635	-103.506275
9,500.00	5.41	133.57	9,481.21	-278.56	292.81	383,497.59	797,582.91	32.051617	-103.506253
9,600.00	5.41	133.57	9,580.77	-285.07	299.65	383,491.09	797,589.75	32.051599	-103.506231
9,700.00	5.41	133.57	9,680.32	-291.57	306.48	383,484.59	797,596.58	32.051581	-103.506209
9,800.00	5.41	133.57	9,779.88	-298.07	313.32	383,478.09	797,603.42	32.051563	-103.506187
9,900.00	5.41	133.57	9,879.43	-304.58	320.16	383,471.58	797,610.25	32.051545	-103.506165
10,000.00	5.41	133.57	9,978.98	-311.08	326.99	383,465.08	797,617.09	32.051527	-103.506143
10,100.00	5.41	133.57	10,078.54	-317.58	333.83	383,458.58	797,623.92	32.051509	-103.506121
10,200.00	5.41	133.57	10,178.09	-324.09	340.66	383,452.07	797,630.76	32.051491	-103.506099
10,300.00	5.41	133.57	10,277.65	-330.59	347.50	383,445.57	797,637.60	32.051472	-103.506077
10,400.00	5.41	133.57	10,377.20	-337.09	354.33	383,439.07	797,644.43	32.051454	-103.506056
10,500.00	5.41	133.57	10,476.75	-343.59	361.17	383,432.56	797,651.27	32.051436	-103.506034
10,600.00	5.41	133.57	10,576.31	-350.10	368.01	383,426.06	797,658.10	32.051418	-103.506012
10,700.00	5.41	133.57	10,675.86	-356.60	374.84	383,419.56	797,664.94	32.051400	-103.505990
10,800.00	5.41	133.57	10,775.42	-363.10	381.68	383,413.06	797,671.77	32.051382	-103.505968

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Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3397.50ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7-6 FED Fee Com 7H	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	5.41	133.57	10,874.97	-369.61	388.51	383,406.55	797,678.61	32.051364	-103.505946
11,000.00	5.41	133.57	10,974.52	-376.11	395.35	383,400.05	797,685.44	32.051346	-103.505924
11,100.00	5.41	133.57	11,074.08	-382.61	402.18	383,393.55	797,692.28	32.051328	-103.505902
11,200.00	5.41	133.57	11,173.63	-389.12	409.02	383,387.04	797,699.12	32.051310	-103.505880
11,300.00	5.41	133.57	11,273.19	-395.62	415.85	383,380.54	797,705.95	32.051292	-103.505858
11,369.74	5.41	133.57	11,342.62	-400.15	420.62	383,376.01	797,710.72	32.051280	-103.505843
11,400.00	4.96	133.57	11,372.75	-402.04	422.60	383,374.12	797,712.70	32.051275	-103.505837
11,500.00	3.46	133.57	11,472.48	-407.10	427.92	383,369.06	797,718.02	32.051260	-103.505820
11,600.00	1.96	133.57	11,572.36	-410.36	431.35	383,365.80	797,721.44	32.051251	-103.505809
11,700.00	0.46	133.57	11,672.34	-411.81	432.88	383,364.35	797,722.97	32.051247	-103.505804
11,730.66	0.00	0.00	11,703.00	-411.90	432.97	383,364.26	797,723.06	32.051247	-103.505804
11,800.00	0.00	0.00	11,772.34	-411.90	432.97	383,364.26	797,723.06	32.051247	-103.505804
11,900.00	0.00	0.00	11,872.34	-411.90	432.97	383,364.26	797,723.06	32.051247	-103.505804
12,000.00	0.00	0.00	11,972.34	-411.90	432.97	383,364.26	797,723.06	32.051247	-103.505804
12,080.70	0.00	0.00	12,053.04	-411.90	432.97	383,364.26	797,723.06	32.051247	-103.505804
KOP @ 12081' MD, 204' FSL, 1657' FEL									
12,100.00	1.93	359.52	12,072.33	-411.57	432.96	383,364.59	797,723.06	32.051248	-103.505804
12,200.00	11.93	359.52	12,171.48	-399.52	432.86	383,376.64	797,722.96	32.051281	-103.505804
12,300.00	21.93	359.52	12,267.02	-370.44	432.62	383,405.72	797,722.71	32.051361	-103.505804
12,400.00	31.93	359.52	12,356.07	-325.21	432.24	383,450.95	797,722.33	32.051485	-103.505804
12,500.00	41.93	359.52	12,435.90	-265.21	431.73	383,510.95	797,721.83	32.051650	-103.505804
12,580.70	50.00	359.52	12,491.95	-207.24	431.24	383,568.92	797,721.34	32.051810	-103.505804
First Take Point @ 12581' MD, 408' FSL, 1659' FEL									
12,600.00	51.93	359.52	12,504.10	-192.25	431.11	383,583.91	797,721.21	32.051851	-103.505804
12,700.00	61.93	359.52	12,558.60	-108.56	430.41	383,667.60	797,720.50	32.052081	-103.505804
12,800.00	71.93	359.52	12,597.74	-16.68	429.63	383,759.48	797,719.73	32.052334	-103.505805
12,900.00	81.93	359.52	12,620.32	80.61	428.81	383,856.76	797,718.91	32.052601	-103.505805
12,980.70	90.00	359.52	12,626.00	161.04	428.13	383,937.20	797,718.23	32.052822	-103.505805
13,000.00	90.00	359.52	12,626.00	180.33	427.97	383,956.49	797,718.07	32.052875	-103.505805
13,100.00	90.00	359.52	12,626.00	280.33	427.13	384,056.49	797,717.22	32.053150	-103.505805
13,200.00	90.00	359.52	12,626.00	380.33	426.28	384,156.49	797,716.38	32.053425	-103.505806
13,300.00	90.00	359.52	12,626.00	480.32	425.44	384,256.48	797,715.54	32.053700	-103.505806
13,400.00	90.00	359.52	12,626.00	580.32	424.60	384,356.48	797,714.69	32.053975	-103.505806
13,500.00	90.00	359.52	12,626.00	680.32	423.75	384,456.47	797,713.85	32.054250	-103.505806
13,600.00	90.00	359.52	12,626.00	780.31	422.91	384,556.47	797,713.01	32.054524	-103.505807
13,700.00	90.00	359.52	12,626.00	880.31	422.07	384,656.47	797,712.16	32.054799	-103.505807
13,800.00	90.00	359.52	12,626.00	980.31	421.22	384,756.46	797,711.32	32.055074	-103.505807
13,900.00	90.00	359.52	12,626.00	1,080.30	420.38	384,856.46	797,710.48	32.055349	-103.505807
14,000.00	90.00	359.52	12,626.00	1,180.30	419.53	384,956.46	797,709.63	32.055624	-103.505808
14,100.00	90.00	359.52	12,626.00	1,280.30	418.69	385,056.45	797,708.79	32.055899	-103.505808
14,200.00	90.00	359.52	12,626.00	1,380.29	417.85	385,156.45	797,707.94	32.056174	-103.505808
14,300.00	90.00	359.52	12,626.00	1,480.29	417.00	385,256.44	797,707.10	32.056449	-103.505808
14,400.00	90.00	359.52	12,626.00	1,580.29	416.16	385,356.44	797,706.26	32.056723	-103.505809
14,500.00	90.00	359.52	12,626.00	1,680.28	415.32	385,456.44	797,705.41	32.056998	-103.505809
14,600.00	90.00	359.52	12,626.00	1,780.28	414.47	385,556.43	797,704.57	32.057273	-103.505809
14,700.00	90.00	359.52	12,626.00	1,880.27	413.63	385,656.43	797,703.73	32.057548	-103.505809
14,800.00	90.00	359.52	12,626.00	1,980.27	412.79	385,756.43	797,702.88	32.057823	-103.505810
14,900.00	90.00	359.52	12,626.00	2,080.27	411.94	385,856.42	797,702.04	32.058098	-103.505810
15,000.00	90.00	359.52	12,626.00	2,180.26	411.10	385,956.42	797,701.20	32.058373	-103.505810
15,100.00	90.00	359.52	12,626.00	2,280.26	410.26	386,056.41	797,700.35	32.058648	-103.505810
15,200.00	90.00	359.52	12,626.00	2,380.26	409.41	386,156.41	797,699.51	32.058922	-103.505811
15,300.00	90.00	359.52	12,626.00	2,480.25	408.57	386,256.41	797,698.67	32.059197	-103.505811
15,400.00	90.00	359.52	12,626.00	2,580.25	407.72	386,356.40	797,697.82	32.059472	-103.505811
15,500.00	90.00	359.52	12,626.00	2,680.25	406.88	386,456.40	797,696.98	32.059747	-103.505811

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7-6 FED Fee Com 7H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3397.50ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3397.50ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7-6 FED Fee Com 7H	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	359.52	12,626.00	2,780.24	406.04	386,556.40	797,696.13	32.060022	-103.505812
15,700.00	90.00	359.52	12,626.00	2,880.24	405.19	386,656.39	797,695.29	32.060297	-103.505812
15,800.00	90.00	359.52	12,626.00	2,980.24	404.35	386,756.39	797,694.45	32.060572	-103.505812
15,900.00	90.00	359.52	12,626.00	3,080.23	403.51	386,856.38	797,693.60	32.060847	-103.505812
16,000.00	90.00	359.52	12,626.00	3,180.23	402.66	386,956.38	797,692.76	32.061121	-103.505813
16,100.00	90.00	359.52	12,626.00	3,280.22	401.82	387,056.38	797,691.92	32.061396	-103.505813
16,200.00	90.00	359.52	12,626.00	3,380.22	400.98	387,156.37	797,691.07	32.061671	-103.505813
16,300.00	90.00	359.52	12,626.00	3,480.22	400.13	387,256.37	797,690.23	32.061946	-103.505813
16,400.00	90.00	359.52	12,626.00	3,580.21	399.29	387,356.37	797,689.39	32.062221	-103.505814
16,500.00	90.00	359.52	12,626.00	3,680.21	398.45	387,456.36	797,688.54	32.062496	-103.505814
16,600.00	90.00	359.52	12,626.00	3,780.21	397.60	387,556.36	797,687.70	32.062771	-103.505814
16,700.00	90.00	359.52	12,626.00	3,880.20	396.76	387,656.35	797,686.85	32.063046	-103.505814
16,800.00	90.00	359.52	12,626.00	3,980.20	395.91	387,756.35	797,686.01	32.063320	-103.505815
16,900.00	90.00	359.52	12,626.00	4,080.20	395.07	387,856.35	797,685.17	32.063595	-103.505815
17,000.00	90.00	359.52	12,626.00	4,180.19	394.23	387,956.34	797,684.32	32.063870	-103.505815
17,100.00	90.00	359.52	12,626.00	4,280.19	393.38	388,056.34	797,683.48	32.064145	-103.505815
17,200.00	90.00	359.52	12,626.00	4,380.19	392.54	388,156.34	797,682.64	32.064420	-103.505815
17,300.00	90.00	359.52	12,626.00	4,480.18	391.70	388,256.33	797,681.79	32.064695	-103.505816
17,400.00	90.00	359.52	12,626.00	4,580.18	390.85	388,356.33	797,680.95	32.064970	-103.505816
17,500.00	90.00	359.52	12,626.00	4,680.17	390.01	388,456.32	797,680.11	32.065245	-103.505816
17,600.00	90.00	359.52	12,626.00	4,780.17	389.17	388,556.32	797,679.26	32.065519	-103.505816
17,700.00	90.00	359.52	12,626.00	4,880.17	388.32	388,656.32	797,678.42	32.065794	-103.505817
17,800.00	90.00	359.52	12,626.00	4,980.16	387.48	388,756.31	797,677.58	32.066069	-103.505817
17,900.00	90.00	359.52	12,626.00	5,080.16	386.63	388,856.31	797,676.73	32.066344	-103.505817
18,000.00	90.00	359.52	12,626.00	5,180.16	385.79	388,956.31	797,675.89	32.066619	-103.505817
18,100.00	90.00	359.52	12,626.00	5,280.15	384.95	389,056.30	797,675.04	32.066894	-103.505818
18,200.00	90.00	359.52	12,626.00	5,380.15	384.10	389,156.30	797,674.20	32.067169	-103.505818
18,300.00	90.00	359.52	12,626.00	5,480.15	383.26	389,256.29	797,673.36	32.067444	-103.505818
18,400.00	90.00	359.52	12,626.00	5,580.14	382.42	389,356.29	797,672.51	32.067718	-103.505818
18,500.00	90.00	359.52	12,626.00	5,680.14	381.57	389,456.29	797,671.67	32.067993	-103.505819
18,600.00	90.00	359.52	12,626.00	5,780.14	380.73	389,556.28	797,670.83	32.068268	-103.505819
18,700.00	90.00	359.52	12,626.00	5,880.13	379.89	389,656.28	797,669.98	32.068543	-103.505819
18,800.00	90.00	359.52	12,626.00	5,980.13	379.04	389,756.28	797,669.14	32.068818	-103.505819
18,900.00	90.00	359.52	12,626.00	6,080.13	378.20	389,856.27	797,668.30	32.069093	-103.505820
19,000.00	90.00	359.52	12,626.00	6,180.12	377.36	389,956.27	797,667.45	32.069368	-103.505820
19,100.00	90.00	359.52	12,626.00	6,280.12	376.51	390,056.26	797,666.61	32.069643	-103.505820
19,200.00	90.00	359.52	12,626.00	6,380.11	375.67	390,156.26	797,665.77	32.069917	-103.505820
19,300.00	90.00	359.52	12,626.00	6,480.11	374.82	390,256.26	797,664.92	32.070192	-103.505821
19,400.00	90.00	359.52	12,626.00	6,580.11	373.98	390,356.25	797,664.08	32.070467	-103.505821
19,500.00	90.00	359.52	12,626.00	6,680.10	373.14	390,456.25	797,663.23	32.070742	-103.505821
19,600.00	90.00	359.52	12,626.00	6,780.10	372.29	390,556.25	797,662.39	32.071017	-103.505821
19,700.00	90.00	359.52	12,626.00	6,880.10	371.45	390,656.24	797,661.55	32.071292	-103.505822
19,800.00	90.00	359.52	12,626.00	6,980.09	370.61	390,756.24	797,660.70	32.071567	-103.505822
19,900.00	90.00	359.52	12,626.00	7,080.09	369.76	390,856.23	797,659.86	32.071842	-103.505822
20,000.00	90.00	359.52	12,626.00	7,180.09	368.92	390,956.23	797,659.02	32.072117	-103.505822
20,100.00	90.00	359.52	12,626.00	7,280.08	368.08	391,056.23	797,658.17	32.072391	-103.505823
20,200.00	90.00	359.52	12,626.00	7,380.08	367.23	391,156.22	797,657.33	32.072666	-103.505823
20,300.00	90.00	359.52	12,626.00	7,480.08	366.39	391,256.22	797,656.49	32.072941	-103.505823
20,400.00	90.00	359.52	12,626.00	7,580.07	365.55	391,356.22	797,655.64	32.073216	-103.505823
20,500.00	90.00	359.52	12,626.00	7,680.07	364.70	391,456.21	797,654.80	32.073491	-103.505824
20,600.00	90.00	359.52	12,626.00	7,780.06	363.86	391,556.21	797,653.95	32.073766	-103.505824
20,700.00	90.00	359.52	12,626.00	7,880.06	363.01	391,656.20	797,653.11	32.074041	-103.505824
20,800.00	90.00	359.52	12,626.00	7,980.06	362.17	391,756.20	797,652.27	32.074316	-103.505824
20,900.00	90.00	359.52	12,626.00	8,080.05	361.33	391,856.20	797,651.42	32.074590	-103.505825
21,000.00	90.00	359.52	12,626.00	8,180.05	360.48	391,956.19	797,650.58	32.074865	-103.505825

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Jayhawk 7-6 FED Fee Com 7H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3397.50ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3397.50ft
Site:	Sec 07-T26S-R34E	North Reference:	Grid
Well:	Jayhawk 7-6 FED Fee Com 7H	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
21,100.00	90.00	359.52	12,626.00	8,280.05	359.64	392,056.19	797,649.74	32.075140	-103.505825
21,200.00	90.00	359.52	12,626.00	8,380.04	358.80	392,156.19	797,648.89	32.075415	-103.505825
21,300.00	90.00	359.52	12,626.00	8,480.04	357.95	392,256.18	797,648.05	32.075690	-103.505826
21,400.00	90.00	359.52	12,626.00	8,580.04	357.11	392,356.18	797,647.21	32.075965	-103.505826
21,500.00	90.00	359.52	12,626.00	8,680.03	356.27	392,456.17	797,646.36	32.076240	-103.505826
21,600.00	90.00	359.52	12,626.00	8,780.03	355.42	392,556.17	797,645.52	32.076515	-103.505826
21,700.00	90.00	359.52	12,626.00	8,880.03	354.58	392,656.17	797,644.68	32.076789	-103.505827
21,800.00	90.00	359.52	12,626.00	8,980.02	353.73	392,756.16	797,643.83	32.077064	-103.505827
21,900.00	90.00	359.52	12,626.00	9,080.02	352.89	392,856.16	797,642.99	32.077339	-103.505827
22,000.00	90.00	359.52	12,626.00	9,180.01	352.05	392,956.16	797,642.14	32.077614	-103.505827
22,100.00	90.00	359.52	12,626.00	9,280.01	351.20	393,056.15	797,641.30	32.077889	-103.505828
22,200.00	90.00	359.52	12,626.00	9,380.01	350.36	393,156.15	797,640.46	32.078164	-103.505828
22,300.00	90.00	359.52	12,626.00	9,480.00	349.52	393,256.14	797,639.61	32.078439	-103.505828
22,400.00	90.00	359.52	12,626.00	9,580.00	348.67	393,356.14	797,638.77	32.078714	-103.505828
22,500.00	90.00	359.52	12,626.00	9,680.00	347.83	393,456.14	797,637.93	32.078988	-103.505829
22,600.00	90.00	359.52	12,626.00	9,779.99	346.99	393,556.13	797,637.08	32.079263	-103.505829
22,669.50	90.00	359.52	12,626.00	9,849.49	346.40	393,625.63	797,636.50	32.079454	-103.505829
Last Take Point @ 22670' MD, 100' FNL, 1660' FEL									
22,670.32	90.00	359.52	12,626.00	9,850.31	346.39	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
- hit/miss target									
- Shape									
PBHL - Jayhawk 7-6 Fed Fee Com 7H	0.00	0.01	0.00	9,850.31	346.39	393,626.45	797,636.49	32.079457	-103.505829
- plan misses target center by 9856.40ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
VP - Jayhawk 6-7 Fed Fee Com 7H	0.00	0.00	11,800.00	-411.90	432.97	383,364.26	797,723.06	32.051247	-103.505804
- plan hits target center									
- Point									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
12,080.70	12,053.04	-411.90	432.97	KOP @ 12081' MD, 204' FSL, 1657' FEL
12,580.70	12,491.95	-207.24	431.24	First Take Point @ 12581' MD, 408' FSL, 1659' FEL
22,669.50	12,626.00	9,849.49	346.40	Last Take Point @ 22670' MD, 100' FNL, 1660' FEL
22,670.32	12,626.00	9,850.31	346.39	PBHL; 100' FNL, 1660' FEL