

Cathedral Energy Services
Planning Report

Database:	USA EDM 5000 Multi Users DB	Local Co-ordinate Reference:	Well Dejour Federal 14/15-7-21
Company:	Dejour Energy, Inc.	TVD Reference:	KB=20' @ 6952.0usft
Project:	Garfield County, CO	MD Reference:	KB=20' @ 6952.0usft
Site:	S21 T6S R91W (21B Pad)	North Reference:	True
Well:	Dejour Federal 14/15-7-21	Survey Calculation Method:	Minimum Curvature
Wellbore:	DD		
Design:	Plan #1		

Project	Garfield County, CO		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	S21 T6S R91W (21B Pad)				
Site Position:		Northing:	1,072,631.30 usft	Latitude:	39.514322
From:	Lat/Long	Easting:	2,420,925.95 usft	Longitude:	-107.552555
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-1.33 °

Well	Dejour Federal 14/15-7-21					
Well Position	+N/-S	0.0 usft	Northing:	1,072,660.11 usft	Latitude:	39.514404
	+E/-W	0.0 usft	Easting:	2,420,971.49 usft	Longitude:	-107.552396
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	6,932.0 usft	

Wellbore	DD				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/25/2014	9.75	65.75	51,995

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	11.40

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.00	0.00	
950.2	10.00	11.40	947.6	42.7	8.6	2.00	2.00	0.00	11.40	
1,606.0	10.00	11.40	1,593.5	154.4	31.1	0.00	0.00	0.00	0.00	
2,272.9	0.00	0.00	2,257.0	211.3	42.6	1.50	-1.50	0.00	180.00	
13,015.9	0.00	0.00	13,000.0	211.3	42.6	0.00	0.00	0.00	0.00	Dejour Federal 14/15

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.0	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.0	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.0	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.0	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.0	0.00	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.0	0.00	0.00 KOP @ 450'
500.0	1.00	11.40	500.0	0.4	0.1	0.4	2.00	2.00	2.00
600.0	3.00	11.40	599.9	3.8	0.8	3.9	2.00	2.00	2.00
700.0	5.00	11.40	699.7	10.7	2.2	10.9	2.00	2.00	2.00
800.0	7.00	11.40	799.1	20.9	4.2	21.4	2.00	2.00	2.00
900.0	9.00	11.40	898.2	34.6	7.0	35.3	2.00	2.00	2.00
950.2	10.00	11.40	947.6	42.7	8.6	43.6	2.00	2.00	2.00 EOB @ 10° INC
1,000.0	10.00	11.40	996.7	51.2	10.3	52.2	0.00	0.00	0.00
1,100.0	10.00	11.40	1,095.2	68.2	13.8	69.6	0.00	0.00	0.00
1,200.0	10.00	11.40	1,193.7	85.2	17.2	86.9	0.00	0.00	0.00
1,300.0	10.00	11.40	1,292.1	102.3	20.6	104.3	0.00	0.00	0.00
1,400.0	10.00	11.40	1,390.6	119.3	24.1	121.7	0.00	0.00	0.00
1,500.0	10.00	11.40	1,489.1	136.3	27.5	139.1	0.00	0.00	0.00
1,511.1	10.00	11.40	1,500.0	138.2	27.9	141.0	0.00	0.00	0.00 Surface
1,606.0	10.00	11.40	1,593.5	154.4	31.1	157.5	0.00	0.00	0.00 Start 1.5° Drop
1,700.0	8.59	11.40	1,686.3	169.3	34.1	172.7	1.50	-1.50	-1.50
1,800.0	7.09	11.40	1,785.3	182.6	36.8	186.3	1.50	-1.50	-1.50
1,900.0	5.59	11.40	1,884.7	193.5	39.0	197.4	1.50	-1.50	-1.50
2,000.0	4.09	11.40	1,984.3	201.7	40.7	205.8	1.50	-1.50	-1.50
2,100.0	2.59	11.40	2,084.2	207.5	41.8	211.6	1.50	-1.50	-1.50
2,200.0	1.09	11.40	2,184.1	210.6	42.5	214.8	1.50	-1.50	-1.50
2,272.9	0.00	0.00	2,257.0	211.3	42.6	215.5	1.50	-1.50	-1.50 EOD @ 0° INC
2,300.0	0.00	0.00	2,284.1	211.3	42.6	215.5	0.00	0.00	0.00
2,400.0	0.00	0.00	2,384.1	211.3	42.6	215.5	0.00	0.00	0.00
2,500.0	0.00	0.00	2,484.1	211.3	42.6	215.5	0.00	0.00	0.00
2,600.0	0.00	0.00	2,584.1	211.3	42.6	215.5	0.00	0.00	0.00
2,700.0	0.00	0.00	2,684.1	211.3	42.6	215.5	0.00	0.00	0.00
2,800.0	0.00	0.00	2,784.1	211.3	42.6	215.5	0.00	0.00	0.00
2,900.0	0.00	0.00	2,884.1	211.3	42.6	215.5	0.00	0.00	0.00
3,000.0	0.00	0.00	2,984.1	211.3	42.6	215.5	0.00	0.00	0.00
3,100.0	0.00	0.00	3,084.1	211.3	42.6	215.5	0.00	0.00	0.00
3,200.0	0.00	0.00	3,184.1	211.3	42.6	215.5	0.00	0.00	0.00
3,300.0	0.00	0.00	3,284.1	211.3	42.6	215.5	0.00	0.00	0.00
3,400.0	0.00	0.00	3,384.1	211.3	42.6	215.5	0.00	0.00	0.00
3,500.0	0.00	0.00	3,484.1	211.3	42.6	215.5	0.00	0.00	0.00
3,600.0	0.00	0.00	3,584.1	211.3	42.6	215.5	0.00	0.00	0.00
3,700.0	0.00	0.00	3,684.1	211.3	42.6	215.5	0.00	0.00	0.00
3,800.0	0.00	0.00	3,784.1	211.3	42.6	215.5	0.00	0.00	0.00
3,900.0	0.00	0.00	3,884.1	211.3	42.6	215.5	0.00	0.00	0.00
4,000.0	0.00	0.00	3,984.1	211.3	42.6	215.5	0.00	0.00	0.00
4,100.0	0.00	0.00	4,084.1	211.3	42.6	215.5	0.00	0.00	0.00
4,115.9	0.00	0.00	4,100.0	211.3	42.6	215.5	0.00	0.00	0.00 Williams Fork
4,200.0	0.00	0.00	4,184.1	211.3	42.6	215.5	0.00	0.00	0.00
4,300.0	0.00	0.00	4,284.1	211.3	42.6	215.5	0.00	0.00	0.00
4,400.0	0.00	0.00	4,384.1	211.3	42.6	215.5	0.00	0.00	0.00
4,500.0	0.00	0.00	4,484.1	211.3	42.6	215.5	0.00	0.00	0.00
4,600.0	0.00	0.00	4,584.1	211.3	42.6	215.5	0.00	0.00	0.00

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
4,700.0	0.00	0.00	4,684.1	211.3	42.6	215.5	215.5	0.00	0.00
4,800.0	0.00	0.00	4,784.1	211.3	42.6	215.5	215.5	0.00	0.00
4,900.0	0.00	0.00	4,884.1	211.3	42.6	215.5	215.5	0.00	0.00
5,000.0	0.00	0.00	4,984.1	211.3	42.6	215.5	215.5	0.00	0.00
5,100.0	0.00	0.00	5,084.1	211.3	42.6	215.5	215.5	0.00	0.00
5,200.0	0.00	0.00	5,184.1	211.3	42.6	215.5	215.5	0.00	0.00
5,300.0	0.00	0.00	5,284.1	211.3	42.6	215.5	215.5	0.00	0.00
5,400.0	0.00	0.00	5,384.1	211.3	42.6	215.5	215.5	0.00	0.00
5,500.0	0.00	0.00	5,484.1	211.3	42.6	215.5	215.5	0.00	0.00
5,600.0	0.00	0.00	5,584.1	211.3	42.6	215.5	215.5	0.00	0.00
5,700.0	0.00	0.00	5,684.1	211.3	42.6	215.5	215.5	0.00	0.00
5,800.0	0.00	0.00	5,784.1	211.3	42.6	215.5	215.5	0.00	0.00
5,900.0	0.00	0.00	5,884.1	211.3	42.6	215.5	215.5	0.00	0.00
6,000.0	0.00	0.00	5,984.1	211.3	42.6	215.5	215.5	0.00	0.00
6,100.0	0.00	0.00	6,084.1	211.3	42.6	215.5	215.5	0.00	0.00
6,200.0	0.00	0.00	6,184.1	211.3	42.6	215.5	215.5	0.00	0.00
6,300.0	0.00	0.00	6,284.1	211.3	42.6	215.5	215.5	0.00	0.00
6,400.0	0.00	0.00	6,384.1	211.3	42.6	215.5	215.5	0.00	0.00
6,500.0	0.00	0.00	6,484.1	211.3	42.6	215.5	215.5	0.00	0.00
6,600.0	0.00	0.00	6,584.1	211.3	42.6	215.5	215.5	0.00	0.00
6,700.0	0.00	0.00	6,684.1	211.3	42.6	215.5	215.5	0.00	0.00
6,800.0	0.00	0.00	6,784.1	211.3	42.6	215.5	215.5	0.00	0.00
6,900.0	0.00	0.00	6,884.1	211.3	42.6	215.5	215.5	0.00	0.00
7,000.0	0.00	0.00	6,984.1	211.3	42.6	215.5	215.5	0.00	0.00
7,100.0	0.00	0.00	7,084.1	211.3	42.6	215.5	215.5	0.00	0.00
7,200.0	0.00	0.00	7,184.1	211.3	42.6	215.5	215.5	0.00	0.00
7,300.0	0.00	0.00	7,284.1	211.3	42.6	215.5	215.5	0.00	0.00
7,400.0	0.00	0.00	7,384.1	211.3	42.6	215.5	215.5	0.00	0.00
7,500.0	0.00	0.00	7,484.1	211.3	42.6	215.5	215.5	0.00	0.00
7,600.0	0.00	0.00	7,584.1	211.3	42.6	215.5	215.5	0.00	0.00
7,700.0	0.00	0.00	7,684.1	211.3	42.6	215.5	215.5	0.00	0.00
7,715.9	0.00	0.00	7,700.0	211.3	42.6	215.5	215.5	0.00	0.00 Rollins SS
7,800.0	0.00	0.00	7,784.1	211.3	42.6	215.5	215.5	0.00	0.00
7,900.0	0.00	0.00	7,884.1	211.3	42.6	215.5	215.5	0.00	0.00
8,000.0	0.00	0.00	7,984.1	211.3	42.6	215.5	215.5	0.00	0.00
8,100.0	0.00	0.00	8,084.1	211.3	42.6	215.5	215.5	0.00	0.00
8,200.0	0.00	0.00	8,184.1	211.3	42.6	215.5	215.5	0.00	0.00
8,300.0	0.00	0.00	8,284.1	211.3	42.6	215.5	215.5	0.00	0.00
8,345.9	0.00	0.00	8,330.0	211.3	42.6	215.5	215.5	0.00	0.00 Cozzette
8,400.0	0.00	0.00	8,384.1	211.3	42.6	215.5	215.5	0.00	0.00
8,500.0	0.00	0.00	8,484.1	211.3	42.6	215.5	215.5	0.00	0.00
8,565.9	0.00	0.00	8,550.0	211.3	42.6	215.5	215.5	0.00	0.00 Corcoran
8,600.0	0.00	0.00	8,584.1	211.3	42.6	215.5	215.5	0.00	0.00
8,700.0	0.00	0.00	8,684.1	211.3	42.6	215.5	215.5	0.00	0.00
8,800.0	0.00	0.00	8,784.1	211.3	42.6	215.5	215.5	0.00	0.00
8,900.0	0.00	0.00	8,884.1	211.3	42.6	215.5	215.5	0.00	0.00
8,965.9	0.00	0.00	8,950.0	211.3	42.6	215.5	215.5	0.00	0.00 7" Int. Casing Point - 7"
9,000.0	0.00	0.00	8,984.1	211.3	42.6	215.5	215.5	0.00	0.00
9,100.0	0.00	0.00	9,084.1	211.3	42.6	215.5	215.5	0.00	0.00
9,115.9	0.00	0.00	9,100.0	211.3	42.6	215.5	215.5	0.00	0.00 Niobrara
9,200.0	0.00	0.00	9,184.1	211.3	42.6	215.5	215.5	0.00	0.00
9,300.0	0.00	0.00	9,284.1	211.3	42.6	215.5	215.5	0.00	0.00

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100u)	Comments / Formations
9,400.0	0.00	0.00	9,384.1	211.3	42.6	215.5	215.5	0.00	0.00
9,500.0	0.00	0.00	9,484.1	211.3	42.6	215.5	215.5	0.00	0.00
9,515.9	0.00	0.00	9,500.0	211.3	42.6	215.5	215.5	0.00	0.00 Mancos Top
9,600.0	0.00	0.00	9,584.1	211.3	42.6	215.5	215.5	0.00	0.00
9,700.0	0.00	0.00	9,684.1	211.3	42.6	215.5	215.5	0.00	0.00
9,800.0	0.00	0.00	9,784.1	211.3	42.6	215.5	215.5	0.00	0.00
9,900.0	0.00	0.00	9,884.1	211.3	42.6	215.5	215.5	0.00	0.00
10,000.0	0.00	0.00	9,984.1	211.3	42.6	215.5	215.5	0.00	0.00
10,100.0	0.00	0.00	10,084.1	211.3	42.6	215.5	215.5	0.00	0.00
10,200.0	0.00	0.00	10,184.1	211.3	42.6	215.5	215.5	0.00	0.00
10,300.0	0.00	0.00	10,284.1	211.3	42.6	215.5	215.5	0.00	0.00
10,400.0	0.00	0.00	10,384.1	211.3	42.6	215.5	215.5	0.00	0.00
10,500.0	0.00	0.00	10,484.1	211.3	42.6	215.5	215.5	0.00	0.00
10,600.0	0.00	0.00	10,584.1	211.3	42.6	215.5	215.5	0.00	0.00
10,700.0	0.00	0.00	10,684.1	211.3	42.6	215.5	215.5	0.00	0.00
10,800.0	0.00	0.00	10,784.1	211.3	42.6	215.5	215.5	0.00	0.00
10,900.0	0.00	0.00	10,884.1	211.3	42.6	215.5	215.5	0.00	0.00
11,000.0	0.00	0.00	10,984.1	211.3	42.6	215.5	215.5	0.00	0.00
11,100.0	0.00	0.00	11,084.1	211.3	42.6	215.5	215.5	0.00	0.00
11,200.0	0.00	0.00	11,184.1	211.3	42.6	215.5	215.5	0.00	0.00
11,300.0	0.00	0.00	11,284.1	211.3	42.6	215.5	215.5	0.00	0.00
11,400.0	0.00	0.00	11,384.1	211.3	42.6	215.5	215.5	0.00	0.00
11,500.0	0.00	0.00	11,484.1	211.3	42.6	215.5	215.5	0.00	0.00
11,600.0	0.00	0.00	11,584.1	211.3	42.6	215.5	215.5	0.00	0.00
11,700.0	0.00	0.00	11,684.1	211.3	42.6	215.5	215.5	0.00	0.00
11,800.0	0.00	0.00	11,784.1	211.3	42.6	215.5	215.5	0.00	0.00
11,900.0	0.00	0.00	11,884.1	211.3	42.6	215.5	215.5	0.00	0.00
12,000.0	0.00	0.00	11,984.1	211.3	42.6	215.5	215.5	0.00	0.00
12,100.0	0.00	0.00	12,084.1	211.3	42.6	215.5	215.5	0.00	0.00
12,200.0	0.00	0.00	12,184.1	211.3	42.6	215.5	215.5	0.00	0.00
12,300.0	0.00	0.00	12,284.1	211.3	42.6	215.5	215.5	0.00	0.00
12,400.0	0.00	0.00	12,384.1	211.3	42.6	215.5	215.5	0.00	0.00
12,500.0	0.00	0.00	12,484.1	211.3	42.6	215.5	215.5	0.00	0.00
12,600.0	0.00	0.00	12,584.1	211.3	42.6	215.5	215.5	0.00	0.00
12,700.0	0.00	0.00	12,684.1	211.3	42.6	215.5	215.5	0.00	0.00
12,800.0	0.00	0.00	12,784.1	211.3	42.6	215.5	215.5	0.00	0.00
12,900.0	0.00	0.00	12,884.1	211.3	42.6	215.5	215.5	0.00	0.00
13,000.0	0.00	0.00	12,984.1	211.3	42.6	215.5	215.5	0.00	0.00
13,015.9	0.00	0.00	13,000.0	211.3	42.6	215.5	215.5	0.00	0.00 TD @ 13,015.9' MD - Mancos Bottom - 4 1/2"

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Dejour Federal 14/15-7-21 PBH	0.00	0.00	13,000.0	211.3	42.6	1,072,870.36	2,421,018.97	39.514984	-107.552245
- plan hits target center									
- Circle (radius 100.0)									

Casing Points

Measured Depth	Vertical Depth	Casing	Hole
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(usft)	(usft)	Name	Diameter (")	Diameter (")
1,511.1	1,500.0	Surface	9-5/8	9-5/8
8,965.9	8,950.0	7"	7	7
13,015.9	13,000.0	4 1/2"	4-1/2	4-1/2

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,115.9	4,100.0	Williams Fork			
7,715.9	7,700.0	Rollins SS			
8,345.9	8,330.0	Cozzette			
8,565.9	8,550.0	Corcoran			
8,965.9	8,950.0	7" Int. Casing Point			
9,115.9	9,100.0	Niobrara			
9,515.9	9,500.0	Mancos Top			
13,015.9	13,000.0	Mancos Bottom			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
450.0	450.0	0.0		0.0 KOP @ 450'
950.2	947.6	42.7		8.6 EOB @ 10° INC
1,606.0	1,593.5	154.4		31.1 Start 1.5° Drop
2,272.9	2,257.0	211.3		42.6 EOD @ 0° INC
13,015.9	13,000.0	211.3		42.6 TD @ 13,015.9' MD