

FEB 26 2019

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Devon Energy

WELL DETAILS: Bell Lake 19-18 State Com 37H

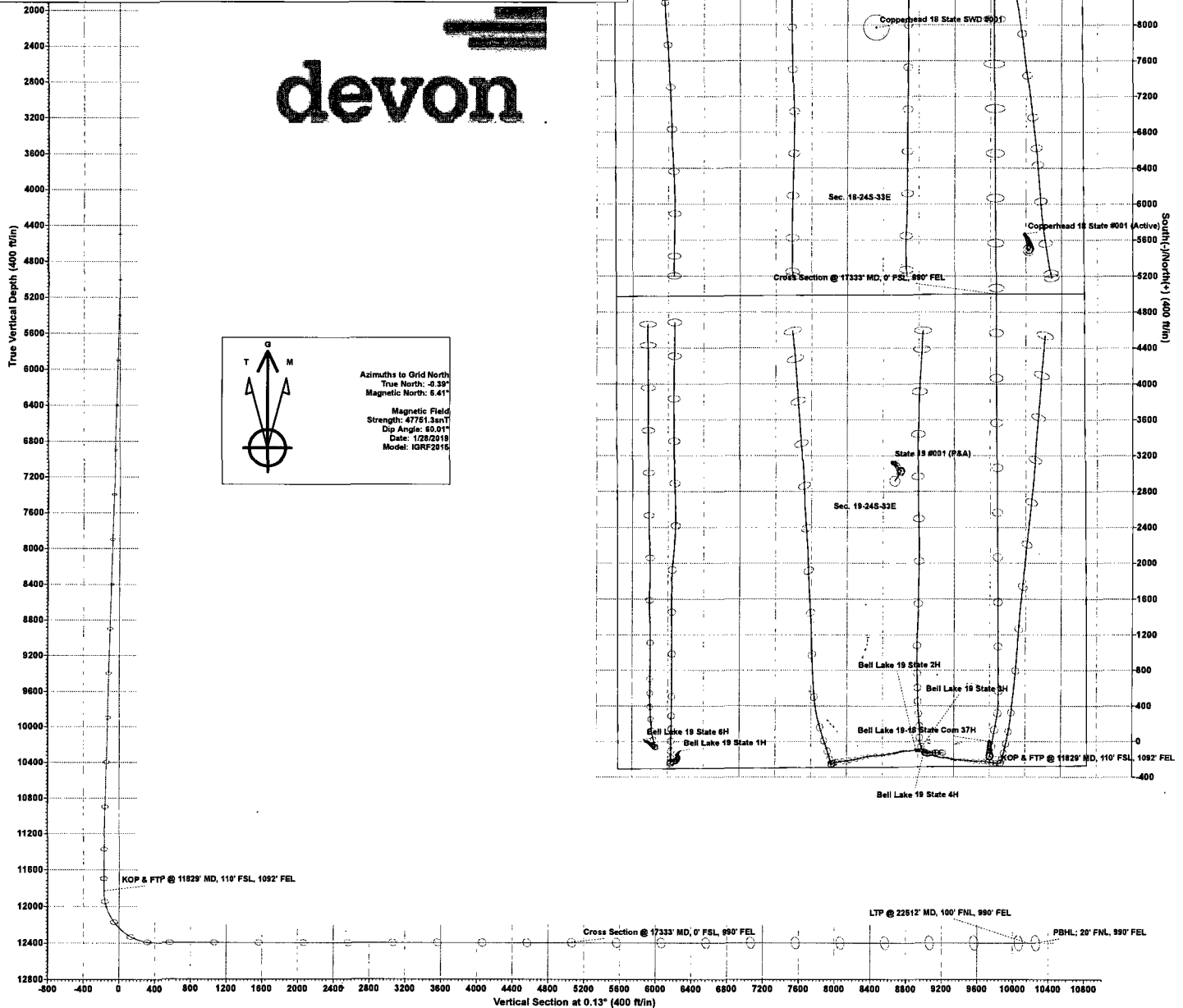
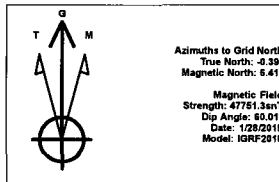
RKB @ 3565.40ft
3540.40

Northings	Easting	Latitude	Longitude
436049.97	766201.53	32.196689	-103.606390

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	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	
5123.13	1.54	180.00	5123.12	-1.65	0.00	1.25	-1.65	
11376.67	1.54	180.00	11374.40	-169.62	0.00	0.00	-169.62	
11479.28	0.00	0.00	11477.00	-171.00	0.00	1.50	-171.00	
11829.32	0.00	0.00	11827.04	-171.00	0.00	0.00	-171.00	KOP & FTP @ 11829' MD, 110' FSL, 1092' FEL
12643.79	81.97	10.19	12390.74	311.07	86.62	10.06	311.27	
12775.76	90.00	359.57	12400.00	441.94	97.73	10.06	442.17	
22592.26	90.00	359.57	12400.00	10258.18	24.06	0.00	10258.19	PBHL: 20' FNL, 990' FEL

devon



WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 19-T24S-R33E

Bell Lake 19-18 State Com 37H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

29 January, 2019

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Bell Lake 19-18 State Com 37H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3565.40ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3565.40ft
Site:	Sec 19-T24S-R33E	North Reference:	Grid
Well:	Bell Lake 19-18 State Com 37H	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 19-T24S-R33E		
Site Position:		Northing:	435,739.64 usft
From:	Map	Easting:	762,046.84 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	32.195913
		Longitude:	-103.619827
		Grid Convergence:	0.38 °

Well	Bell Lake 19-18 State Com 37H		
Well Position	+N/-S	0.00 ft	Northing: 436,049.97 usft
	+E/-W	0.00 ft	Easting: 766,201.53 usft
Position Uncertainty	0.50 ft	Wellhead Elevation:	Latitude: 32.196689
			Longitude: -103.606390
			Ground Level: 3,540.40 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2015	1/28/2019	6.79	60.01	47,751.25177335

Design	Permit Plan 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.00	0.00	0.00	0.13

Plan Survey Tool Program	Date	1/29/2019		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(ft)	(ft)			
1	0.00	22,592.26 Permit Plan 1 (Wellbore #1)	MWD+HDGM	
			OWSG MWD + HDGM	

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100usft)	(°/100usft)	(°/100usft)		
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	
5,123.13	1.54	180.00	5,123.12	-1.65	0.00	1.25	1.25	0.00	180.00	
11,376.67	1.54	180.00	11,374.40	-169.62	0.00	0.00	0.00	0.00	0.00	
11,479.28	0.00	0.00	11,477.00	-171.00	0.00	1.50	-1.50	0.00	180.00	
11,829.32	0.00	0.00	11,827.04	-171.00	0.00	0.00	0.00	0.00	0.00	
12,643.79	81.97	10.19	12,390.74	311.07	86.62	10.06	10.06	0.00	10.19	
12,775.76	90.00	359.57	12,400.00	441.94	97.73	10.06	6.08	-8.04	-53.31	
22,592.26	90.00	359.57	12,400.00	10,258.16	24.06	0.00	0.00	0.00	0.00	PBHL - Bell Lake 19-1

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Bell Lake 19-18 State Com 37H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3565.40ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3565.40ft
Site:	Sec 19-T24S-R33E	North Reference:	Grid
Well:	Bell Lake 19-18 State Com 37H	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	436,049.97	766,201.53	32.196689	-103.606390
100.00	0.00	0.00	100.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
200.00	0.00	0.00	200.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
300.00	0.00	0.00	300.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
400.00	0.00	0.00	400.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
500.00	0.00	0.00	500.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
600.00	0.00	0.00	600.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
700.00	0.00	0.00	700.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
800.00	0.00	0.00	800.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
900.00	0.00	0.00	900.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
1,000.00	0.00	0.00	1,000.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
1,100.00	0.00	0.00	1,100.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
1,200.00	0.00	0.00	1,200.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
1,300.00	0.00	0.00	1,300.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
1,400.00	0.00	0.00	1,400.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
1,500.00	0.00	0.00	1,500.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
1,600.00	0.00	0.00	1,600.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
1,700.00	0.00	0.00	1,700.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
1,800.00	0.00	0.00	1,800.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
1,900.00	0.00	0.00	1,900.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
2,000.00	0.00	0.00	2,000.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
2,100.00	0.00	0.00	2,100.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
2,200.00	0.00	0.00	2,200.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
2,300.00	0.00	0.00	2,300.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
2,400.00	0.00	0.00	2,400.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
2,500.00	0.00	0.00	2,500.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
2,600.00	0.00	0.00	2,600.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
2,700.00	0.00	0.00	2,700.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
2,800.00	0.00	0.00	2,800.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
2,900.00	0.00	0.00	2,900.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
3,000.00	0.00	0.00	3,000.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
3,100.00	0.00	0.00	3,100.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
3,200.00	0.00	0.00	3,200.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
3,300.00	0.00	0.00	3,300.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
3,400.00	0.00	0.00	3,400.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
3,500.00	0.00	0.00	3,500.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
3,600.00	0.00	0.00	3,600.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
3,700.00	0.00	0.00	3,700.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
3,800.00	0.00	0.00	3,800.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
3,900.00	0.00	0.00	3,900.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
4,000.00	0.00	0.00	4,000.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
4,100.00	0.00	0.00	4,100.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
4,200.00	0.00	0.00	4,200.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
4,300.00	0.00	0.00	4,300.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
4,400.00	0.00	0.00	4,400.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
4,500.00	0.00	0.00	4,500.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
4,600.00	0.00	0.00	4,600.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
4,700.00	0.00	0.00	4,700.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
4,800.00	0.00	0.00	4,800.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
4,900.00	0.00	0.00	4,900.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
5,000.00	0.00	0.00	5,000.00	0.00	0.00	436,049.97	766,201.53	32.196689	-103.606390
5,100.00	1.25	180.00	5,099.99	-1.09	0.00	436,048.88	766,201.53	32.196686	-103.606390
5,123.13	1.54	180.00	5,123.12	-1.65	0.00	436,048.32	766,201.53	32.196685	-103.606390
5,200.00	1.54	180.00	5,199.96	-3.72	0.00	436,046.25	766,201.53	32.196679	-103.606390
5,300.00	1.54	180.00	5,299.92	-6.40	0.00	436,043.57	766,201.53	32.196672	-103.606390

Planning Report - Geographic

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Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3565.40ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3565.40ft
Site:	Sec 19-T24S-R33E	North Reference:	Grid
Well:	Bell Lake 19-18 State Com 37H	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	1.54	180.00	5,399.89	-9.09	0.00	436,040.88	766,201.53	32.196664	-103.606390
5,500.00	1.54	180.00	5,499.85	-11.78	0.00	436,038.19	766,201.53	32.196657	-103.606390
5,600.00	1.54	180.00	5,599.81	-14.46	0.00	436,035.51	766,201.53	32.196649	-103.606390
5,700.00	1.54	180.00	5,699.78	-17.15	0.00	436,032.82	766,201.53	32.196642	-103.606391
5,800.00	1.54	180.00	5,799.74	-19.83	0.00	436,030.14	766,201.53	32.196635	-103.606391
5,900.00	1.54	180.00	5,899.71	-22.52	0.00	436,027.45	766,201.53	32.196627	-103.606391
6,000.00	1.54	180.00	5,999.67	-25.21	0.00	436,024.76	766,201.53	32.196620	-103.606391
6,100.00	1.54	180.00	6,099.63	-27.89	0.00	436,022.08	766,201.53	32.196613	-103.606391
6,200.00	1.54	180.00	6,199.60	-30.58	0.00	436,019.39	766,201.53	32.196605	-103.606391
6,300.00	1.54	180.00	6,299.56	-33.26	0.00	436,016.71	766,201.53	32.196598	-103.606391
6,400.00	1.54	180.00	6,399.52	-35.95	0.00	436,014.02	766,201.53	32.196590	-103.606391
6,500.00	1.54	180.00	6,499.49	-38.64	0.00	436,011.33	766,201.53	32.196583	-103.606391
6,600.00	1.54	180.00	6,599.45	-41.32	0.00	436,008.65	766,201.53	32.196576	-103.606391
6,700.00	1.54	180.00	6,699.42	-44.01	0.00	436,005.96	766,201.53	32.196568	-103.606391
6,800.00	1.54	180.00	6,799.38	-46.69	0.00	436,003.28	766,201.53	32.196561	-103.606391
6,900.00	1.54	180.00	6,899.34	-49.38	0.00	436,000.59	766,201.53	32.196553	-103.606391
7,000.00	1.54	180.00	6,999.31	-52.07	0.00	435,997.90	766,201.53	32.196546	-103.606391
7,100.00	1.54	180.00	7,099.27	-54.75	0.00	435,995.22	766,201.53	32.196539	-103.606391
7,200.00	1.54	180.00	7,199.24	-57.44	0.00	435,992.53	766,201.53	32.196531	-103.606391
7,300.00	1.54	180.00	7,299.20	-60.12	0.00	435,989.85	766,201.53	32.196524	-103.606391
7,400.00	1.54	180.00	7,399.16	-62.81	0.00	435,987.16	766,201.53	32.196517	-103.606392
7,500.00	1.54	180.00	7,499.13	-65.50	0.00	435,984.47	766,201.53	32.196509	-103.606392
7,600.00	1.54	180.00	7,599.09	-68.18	0.00	435,981.79	766,201.53	32.196502	-103.606392
7,700.00	1.54	180.00	7,699.06	-70.87	0.00	435,979.10	766,201.53	32.196494	-103.606392
7,800.00	1.54	180.00	7,799.02	-73.55	0.00	435,976.42	766,201.53	32.196487	-103.606392
7,900.00	1.54	180.00	7,898.98	-76.24	0.00	435,973.73	766,201.53	32.196480	-103.606392
8,000.00	1.54	180.00	7,998.95	-78.93	0.00	435,971.04	766,201.53	32.196472	-103.606392
8,100.00	1.54	180.00	8,098.91	-81.61	0.00	435,968.36	766,201.53	32.196465	-103.606392
8,200.00	1.54	180.00	8,198.88	-84.30	0.00	435,965.67	766,201.53	32.196458	-103.606392
8,300.00	1.54	180.00	8,298.84	-86.98	0.00	435,962.99	766,201.53	32.196450	-103.606392
8,400.00	1.54	180.00	8,398.80	-89.67	0.00	435,960.30	766,201.53	32.196443	-103.606392
8,500.00	1.54	180.00	8,498.77	-92.36	0.00	435,957.61	766,201.53	32.196435	-103.606392
8,600.00	1.54	180.00	8,598.73	-95.04	0.00	435,954.93	766,201.53	32.196428	-103.606392
8,700.00	1.54	180.00	8,698.69	-97.73	0.00	435,952.24	766,201.53	32.196421	-103.606392
8,800.00	1.54	180.00	8,798.66	-100.41	0.00	435,949.56	766,201.53	32.196413	-103.606392
8,900.00	1.54	180.00	8,898.62	-103.10	0.00	435,946.87	766,201.53	32.196406	-103.606392
9,000.00	1.54	180.00	8,998.59	-105.79	0.00	435,944.18	766,201.53	32.196398	-103.606392
9,100.00	1.54	180.00	9,098.55	-108.47	0.00	435,941.50	766,201.53	32.196391	-103.606393
9,200.00	1.54	180.00	9,198.51	-111.16	0.00	435,938.81	766,201.53	32.196384	-103.606393
9,300.00	1.54	180.00	9,298.48	-113.84	0.00	435,936.13	766,201.53	32.196376	-103.606393
9,400.00	1.54	180.00	9,398.44	-116.53	0.00	435,933.44	766,201.53	32.196369	-103.606393
9,500.00	1.54	180.00	9,498.41	-119.22	0.00	435,930.75	766,201.53	32.196362	-103.606393
9,600.00	1.54	180.00	9,598.37	-121.90	0.00	435,928.07	766,201.53	32.196354	-103.606393
9,700.00	1.54	180.00	9,698.33	-124.59	0.00	435,925.38	766,201.53	32.196347	-103.606393
9,800.00	1.54	180.00	9,798.30	-127.27	0.00	435,922.70	766,201.53	32.196339	-103.606393
9,900.00	1.54	180.00	9,898.26	-129.96	0.00	435,920.01	766,201.53	32.196332	-103.606393
10,000.00	1.54	180.00	9,998.23	-132.64	0.00	435,917.33	766,201.53	32.196325	-103.606393
10,100.00	1.54	180.00	10,098.19	-135.33	0.00	435,914.64	766,201.53	32.196317	-103.606393
10,200.00	1.54	180.00	10,198.15	-138.02	0.00	435,911.95	766,201.53	32.196310	-103.606393
10,300.00	1.54	180.00	10,298.12	-140.70	0.00	435,909.27	766,201.53	32.196302	-103.606393
10,400.00	1.54	180.00	10,398.08	-143.39	0.00	435,906.58	766,201.53	32.196295	-103.606393
10,500.00	1.54	180.00	10,498.05	-146.07	0.00	435,903.90	766,201.53	32.196288	-103.606393
10,600.00	1.54	180.00	10,598.01	-148.76	0.00	435,901.21	766,201.53	32.196280	-103.606393
10,700.00	1.54	180.00	10,697.97	-151.45	0.00	435,898.52	766,201.53	32.196273	-103.606393
10,800.00	1.54	180.00	10,797.94	-154.13	0.00	435,895.84	766,201.53	32.196266	-103.606394

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Bell Lake 19-18 State Com 37H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3565.40ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3565.40ft
Site:	Sec 19-T24S-R33E	North Reference:	Grid
Well:	Bell Lake 19-18 State Com 37H	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	1.54	180.00	10,897.90	-156.82	0.00	435,893.15	766,201.53	32.196258	-103.606394
11,000.00	1.54	180.00	10,997.87	-159.50	0.00	435,890.47	766,201.53	32.196251	-103.606394
11,100.00	1.54	180.00	11,097.83	-162.19	0.00	435,887.78	766,201.53	32.196243	-103.606394
11,200.00	1.54	180.00	11,197.79	-164.88	0.00	435,885.09	766,201.53	32.196236	-103.606394
11,300.00	1.54	180.00	11,297.76	-167.56	0.00	435,882.41	766,201.53	32.196229	-103.606394
11,376.67	1.54	180.00	11,374.40	-169.62	0.00	435,880.35	766,201.53	32.196223	-103.606394
11,400.00	1.19	180.00	11,397.72	-170.18	0.00	435,879.79	766,201.53	32.196221	-103.606394
11,479.28	0.00	0.00	11,477.00	-171.00	0.00	435,878.97	766,201.53	32.196219	-103.606394
11,500.00	0.00	0.00	11,497.72	-171.00	0.00	435,878.97	766,201.53	32.196219	-103.606394
11,600.00	0.00	0.00	11,597.72	-171.00	0.00	435,878.97	766,201.53	32.196219	-103.606394
11,700.00	0.00	0.00	11,697.72	-171.00	0.00	435,878.97	766,201.53	32.196219	-103.606394
11,800.00	0.00	0.00	11,797.72	-171.00	0.00	435,878.97	766,201.53	32.196219	-103.606394
11,829.32	0.00	0.00	11,827.04	-171.00	0.00	435,878.97	766,201.53	32.196219	-103.606394
KOP & FTP @ 11829' MD, 110' FSL, 1092' FEL									
11,900.00	7.11	10.19	11,897.54	-166.69	0.77	435,883.28	766,202.30	32.196231	-103.606391
12,000.00	17.18	10.19	11,995.17	-146.01	4.49	435,903.96	766,206.02	32.196288	-103.606379
12,100.00	27.24	10.19	12,087.63	-108.85	11.17	435,941.12	766,212.69	32.196390	-103.606356
12,200.00	37.31	10.19	12,172.07	-56.36	20.60	435,993.61	766,222.13	32.196534	-103.606325
12,300.00	47.37	10.19	12,245.90	9.84	32.50	436,059.81	766,234.02	32.196716	-103.606285
12,400.00	57.44	10.19	12,306.83	87.73	46.49	436,137.70	766,248.02	32.196930	-103.606238
12,500.00	67.50	10.19	12,352.99	174.89	62.15	436,224.86	766,263.68	32.197169	-103.606185
12,600.00	77.57	10.19	12,382.97	268.66	79.00	436,318.63	766,280.53	32.197426	-103.606129
12,643.79	81.97	10.19	12,390.74	311.07	86.62	436,361.03	766,288.15	32.197543	-103.606103
12,700.00	85.37	5.64	12,396.94	366.38	94.30	436,416.35	766,295.83	32.197695	-103.606077
12,775.76	90.00	359.57	12,400.00	441.94	97.73	436,491.91	766,299.26	32.197902	-103.606065
12,800.00	90.00	359.57	12,400.00	466.18	97.55	436,516.15	766,299.08	32.197969	-103.606065
12,900.00	90.00	359.57	12,400.00	566.18	96.80	436,616.15	766,298.32	32.198244	-103.606065
13,000.00	90.00	359.57	12,400.00	666.17	96.05	436,716.14	766,297.57	32.198519	-103.606065
13,100.00	90.00	359.57	12,400.00	766.17	95.30	436,816.14	766,296.82	32.198793	-103.606065
13,200.00	90.00	359.57	12,400.00	866.17	94.55	436,916.14	766,296.07	32.199068	-103.606066
13,300.00	90.00	359.57	12,400.00	966.17	93.80	437,016.13	766,295.32	32.199343	-103.606066
13,400.00	90.00	359.57	12,400.00	1,066.16	93.05	437,116.13	766,294.57	32.199618	-103.606066
13,500.00	90.00	359.57	12,400.00	1,166.16	92.29	437,216.13	766,293.82	32.199893	-103.606066
13,600.00	90.00	359.57	12,400.00	1,266.16	91.54	437,316.13	766,293.07	32.200168	-103.606067
13,700.00	90.00	359.57	12,400.00	1,366.15	90.79	437,416.12	766,292.32	32.200443	-103.606067
13,800.00	90.00	359.57	12,400.00	1,466.15	90.04	437,516.12	766,291.57	32.200718	-103.606067
13,900.00	90.00	359.57	12,400.00	1,566.15	89.29	437,616.12	766,290.82	32.200992	-103.606067
14,000.00	90.00	359.57	12,400.00	1,666.15	88.54	437,716.11	766,290.07	32.201267	-103.606068
14,100.00	90.00	359.57	12,400.00	1,766.14	87.79	437,816.11	766,289.32	32.201542	-103.606068
14,200.00	90.00	359.57	12,400.00	1,866.14	87.04	437,916.11	766,288.57	32.201817	-103.606068
14,300.00	90.00	359.57	12,400.00	1,966.14	86.29	438,016.10	766,287.82	32.202092	-103.606068
14,400.00	90.00	359.57	12,400.00	2,066.14	85.54	438,116.10	766,287.07	32.202367	-103.606068
14,500.00	90.00	359.57	12,400.00	2,166.13	84.79	438,216.10	766,286.32	32.202642	-103.606069
14,600.00	90.00	359.57	12,400.00	2,266.13	84.04	438,316.09	766,285.57	32.202917	-103.606069
14,700.00	90.00	359.57	12,400.00	2,366.13	83.29	438,416.09	766,284.82	32.203191	-103.606069
14,800.00	90.00	359.57	12,400.00	2,466.12	82.54	438,516.09	766,284.07	32.203466	-103.606069
14,900.00	90.00	359.57	12,400.00	2,566.12	81.79	438,616.09	766,283.31	32.203741	-103.606070
15,000.00	90.00	359.57	12,400.00	2,666.12	81.04	438,716.08	766,282.56	32.204016	-103.606070
15,100.00	90.00	359.57	12,400.00	2,766.12	80.29	438,816.08	766,281.81	32.204291	-103.606070
15,200.00	90.00	359.57	12,400.00	2,866.11	79.54	438,916.08	766,281.06	32.204566	-103.606070
15,300.00	90.00	359.57	12,400.00	2,966.11	78.79	439,016.07	766,280.31	32.204841	-103.606071
15,400.00	90.00	359.57	12,400.00	3,066.11	78.04	439,116.07	766,279.56	32.205116	-103.606071
15,500.00	90.00	359.57	12,400.00	3,166.10	77.28	439,216.07	766,278.81	32.205390	-103.606071
15,600.00	90.00	359.57	12,400.00	3,266.10	76.53	439,316.06	766,278.06	32.205665	-103.606071

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Bell Lake 19-18 State Com 37H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3565.40ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3565.40ft
Site:	Sec 19-T24S-R33E	North Reference:	Grid
Well:	Bell Lake 19-18 State Com 37H	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
15,700.00	90.00	359.57	12,400.00	3,366.10	75.78	439,416.06	766,277.31	32.205940	-103.606072
15,800.00	90.00	359.57	12,400.00	3,466.10	75.03	439,516.06	766,276.56	32.206215	-103.606072
15,900.00	90.00	359.57	12,400.00	3,566.09	74.28	439,616.06	766,275.81	32.206490	-103.606072
16,000.00	90.00	359.57	12,400.00	3,666.09	73.53	439,716.05	766,275.06	32.206765	-103.606072
16,100.00	90.00	359.57	12,400.00	3,766.09	72.78	439,816.05	766,274.31	32.207040	-103.606073
16,200.00	90.00	359.57	12,400.00	3,866.08	72.03	439,916.05	766,273.56	32.207315	-103.606073
16,300.00	90.00	359.57	12,400.00	3,966.08	71.28	440,016.04	766,272.81	32.207589	-103.606073
16,400.00	90.00	359.57	12,400.00	4,066.08	70.53	440,116.04	766,272.06	32.207864	-103.606073
16,500.00	90.00	359.57	12,400.00	4,166.08	69.78	440,216.04	766,271.31	32.208139	-103.606074
16,600.00	90.00	359.57	12,400.00	4,266.07	69.03	440,316.03	766,270.56	32.208414	-103.606074
16,700.00	90.00	359.57	12,400.00	4,366.07	68.28	440,416.03	766,269.81	32.208689	-103.606074
16,800.00	90.00	359.57	12,400.00	4,466.07	67.53	440,516.03	766,269.06	32.208964	-103.606074
16,900.00	90.00	359.57	12,400.00	4,566.06	66.78	440,616.03	766,268.31	32.209239	-103.606074
17,000.00	90.00	359.57	12,400.00	4,666.06	66.03	440,716.02	766,267.55	32.209514	-103.606075
17,100.00	90.00	359.57	12,400.00	4,766.06	65.28	440,816.02	766,266.80	32.209788	-103.606075
17,200.00	90.00	359.57	12,400.00	4,866.06	64.53	440,916.02	766,266.05	32.210063	-103.606075
17,300.00	90.00	359.57	12,400.00	4,966.05	63.78	441,016.01	766,265.30	32.210338	-103.606075
17,333.00	90.00	359.57	12,400.00	4,999.05	63.53	441,049.01	766,265.06	32.210429	-103.606076
Cross Section @ 17333' MD, 0' FSL, 990' FEL									
17,400.00	90.00	359.57	12,400.00	5,066.05	63.03	441,116.01	766,264.55	32.210613	-103.606076
17,500.00	90.00	359.57	12,400.00	5,166.05	62.28	441,216.01	766,263.80	32.210888	-103.606076
17,600.00	90.00	359.57	12,400.00	5,266.05	61.52	441,316.00	766,263.05	32.211163	-103.606076
17,700.00	90.00	359.57	12,400.00	5,366.04	60.77	441,416.00	766,262.30	32.211438	-103.606076
17,800.00	90.00	359.57	12,400.00	5,466.04	60.02	441,516.00	766,261.55	32.211713	-103.606077
17,900.00	90.00	359.57	12,400.00	5,566.04	59.27	441,616.00	766,260.80	32.211987	-103.606077
18,000.00	90.00	359.57	12,400.00	5,666.03	58.52	441,715.99	766,260.05	32.212262	-103.606077
18,100.00	90.00	359.57	12,400.00	5,766.03	57.77	441,815.99	766,259.30	32.212537	-103.606077
18,200.00	90.00	359.57	12,400.00	5,866.03	57.02	441,915.99	766,258.55	32.212812	-103.606078
18,300.00	90.00	359.57	12,400.00	5,966.03	56.27	442,015.98	766,257.80	32.213087	-103.606078
18,400.00	90.00	359.57	12,400.00	6,066.02	55.52	442,115.98	766,257.05	32.213362	-103.606078
18,500.00	90.00	359.57	12,400.00	6,166.02	54.77	442,215.98	766,256.30	32.213637	-103.606078
18,600.00	90.00	359.57	12,400.00	6,266.02	54.02	442,315.97	766,255.55	32.213912	-103.606079
18,700.00	90.00	359.57	12,400.00	6,366.01	53.27	442,415.97	766,254.80	32.214186	-103.606079
18,800.00	90.00	359.57	12,400.00	6,466.01	52.52	442,515.97	766,254.05	32.214461	-103.606079
18,900.00	90.00	359.57	12,400.00	6,566.01	51.77	442,615.97	766,253.30	32.214736	-103.606079
19,000.00	90.00	359.57	12,400.00	6,666.01	51.02	442,715.96	766,252.55	32.215011	-103.606079
19,100.00	90.00	359.57	12,400.00	6,766.00	50.27	442,815.96	766,251.79	32.215286	-103.606080
19,200.00	90.00	359.57	12,400.00	6,866.00	49.52	442,915.96	766,251.04	32.215561	-103.606080
19,300.00	90.00	359.57	12,400.00	6,966.00	48.77	443,015.95	766,250.29	32.215836	-103.606080
19,400.00	90.00	359.57	12,400.00	7,065.99	48.02	443,115.95	766,249.54	32.216111	-103.606080
19,500.00	90.00	359.57	12,400.00	7,165.99	47.27	443,215.95	766,248.79	32.216385	-103.606081
19,600.00	90.00	359.57	12,400.00	7,265.99	46.52	443,315.94	766,248.04	32.216660	-103.606081
19,700.00	90.00	359.57	12,400.00	7,365.99	45.76	443,415.94	766,247.29	32.216935	-103.606081
19,800.00	90.00	359.57	12,400.00	7,465.98	45.01	443,515.94	766,246.54	32.217210	-103.606081
19,900.00	90.00	359.57	12,400.00	7,565.98	44.26	443,615.94	766,245.79	32.217485	-103.606082
20,000.00	90.00	359.57	12,400.00	7,665.98	43.51	443,715.93	766,245.04	32.217760	-103.606082
20,100.00	90.00	359.57	12,400.00	7,765.97	42.76	443,815.93	766,244.29	32.218035	-103.606082
20,200.00	90.00	359.57	12,400.00	7,865.97	42.01	443,915.93	766,243.54	32.218310	-103.606082
20,300.00	90.00	359.57	12,400.00	7,965.97	41.26	444,015.92	766,242.79	32.218584	-103.606083
20,400.00	90.00	359.57	12,400.00	8,065.97	40.51	444,115.92	766,242.04	32.218859	-103.606083
20,500.00	90.00	359.57	12,400.00	8,165.96	39.76	444,215.92	766,241.29	32.219134	-103.606083
20,600.00	90.00	359.57	12,400.00	8,265.96	39.01	444,315.91	766,240.54	32.219409	-103.606083
20,700.00	90.00	359.57	12,400.00	8,365.96	38.26	444,415.91	766,239.79	32.219684	-103.606084
20,800.00	90.00	359.57	12,400.00	8,465.96	37.51	444,515.91	766,239.04	32.219959	-103.606084

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Bell Lake 19-18 State Com 37H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3565.40ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3565.40ft
Site:	Sec 19-T24S-R33E	North Reference:	Grid
Well:	Bell Lake 19-18 State Com 37H	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
20,900.00	90.00	359.57	12,400.00	8,565.95	36.76	444,615.90	766,238.29	32.220234	-103.606084
21,000.00	90.00	359.57	12,400.00	8,665.95	36.01	444,715.90	766,237.54	32.220509	-103.606084
21,100.00	90.00	359.57	12,400.00	8,765.95	35.26	444,815.90	766,236.78	32.220783	-103.606084
21,200.00	90.00	359.57	12,400.00	8,865.94	34.51	444,915.90	766,236.03	32.221058	-103.606085
21,300.00	90.00	359.57	12,400.00	8,965.94	33.76	445,015.89	766,235.28	32.221333	-103.606085
21,400.00	90.00	359.57	12,400.00	9,065.94	33.01	445,115.89	766,234.53	32.221608	-103.606085
21,500.00	90.00	359.57	12,400.00	9,165.94	32.26	445,215.89	766,233.78	32.221883	-103.606085
21,600.00	90.00	359.57	12,400.00	9,265.93	31.51	445,315.88	766,233.03	32.222158	-103.606086
21,700.00	90.00	359.57	12,400.00	9,365.93	30.75	445,415.88	766,232.28	32.222433	-103.606086
21,800.00	90.00	359.57	12,400.00	9,465.93	30.00	445,515.88	766,231.53	32.222708	-103.606086
21,900.00	90.00	359.57	12,400.00	9,565.92	29.25	445,615.87	766,230.78	32.222982	-103.606086
22,000.00	90.00	359.57	12,400.00	9,665.92	28.50	445,715.87	766,230.03	32.223257	-103.606087
22,100.00	90.00	359.57	12,400.00	9,765.92	27.75	445,815.87	766,229.28	32.223532	-103.606087
22,200.00	90.00	359.57	12,400.00	9,865.92	27.00	445,915.87	766,228.53	32.223807	-103.606087
22,300.00	90.00	359.57	12,400.00	9,965.91	26.25	446,015.86	766,227.78	32.224082	-103.606087
22,400.00	90.00	359.57	12,400.00	10,065.91	25.50	446,115.86	766,227.03	32.224357	-103.606088
22,500.00	90.00	359.57	12,400.00	10,165.91	24.75	446,215.86	766,226.28	32.224632	-103.606088
22,512.25	90.00	359.57	12,400.00	10,178.16	24.66	446,228.11	766,226.19	32.224665	-103.606088
LTP @ 22512' MD, 100' FNL, 990' FEL									
22,592.25	90.00	359.57	12,400.00	10,258.15	24.06	446,308.10	766,225.59	32.224885	-103.606088
PBHL; 20' FNL, 990' FEL									
22,592.26	90.00	359.57	12,400.00	10,258.16	24.06	446,308.11	766,225.59	32.224885	-103.606088

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 - Bell Lake 19-18	0.00	0.00	0.00	10,258.16	24.55	446,308.11	766,226.08	32.224885	-103.606086
- plan misses target center by 10258.19ft at 0.00ft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
11,829.32	11,827.04	-171.00	0.00	KOP & FTP @ 11829' MD, 110' FSL, 1092' FEL
17,333.00	12,400.00	4,999.05	63.53	Cross Section @ 17333' MD, 0' FSL, 990' FEL
22,512.25	12,400.00	10,178.16	24.66	LTP @ 22512' MD, 100' FNL, 990' FEL
22,592.25	12,400.00	10,258.15	24.06	PBHL; 20' FNL, 990' FEL