

HOBBS OCD

DEC 18 2018

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WCDSC Permian NM

Lea County (NAD83 New Mexico East)

Sec 19-T24S-R33E

Bell Lake 19-18 State Com 9H

Wellbore #1

Plan: Permit Plan 1

Standard Planning Report - Geographic

12 December, 2018

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Bell Lake 19-18 State Com 9H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3566.10ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3566.10ft
Site:	Sec 19-T24S-R33E	North Reference:	Grid
Well:	Bell Lake 19-18 State Com 9H	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 9H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.50 ft	Wellhead Elevation:	
		Latitude:	32.197239
		Longitude:	-103.606391
		Ground Level:	3,541.10 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2015	12/11/2018	6.81
			Dip Angle
			(°)
			60.01
			Field Strength
			(nT)
			47,765.08493452

Design	Permit Plan 1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			3.62

Plan Survey Tool Program	Date	12/12/2018		
Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
(ft)	(ft)			
1	0.00	19,571.84 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	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,556.57	8.57	111.54	3,553.38	-23.46	59.45	1.00	1.00	0.00	111.54	
7,980.61	8.57	111.54	7,928.08	-265.36	672.37	0.00	0.00	0.00	0.00	
8,551.66	0.00	0.00	8,497.00	-281.00	712.00	1.50	-1.50	0.00	180.00	
8,901.70	0.00	0.00	8,847.04	-281.00	712.00	0.00	0.00	0.00	0.00	
9,801.70	90.00	359.58	9,420.00	291.94	707.80	10.00	10.00	0.00	359.58	PBHL - Bell Lake 19-1
19,571.84	90.00	359.58	9,420.00	10,061.82	636.14	0.00	0.00	0.00	0.00	PBHL - Bell Lake 19-1

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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	436,249.96	766,199.93	32.197239	-103.606391
100.00	0.00	0.00	100.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
200.00	0.00	0.00	200.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
300.00	0.00	0.00	300.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
400.00	0.00	0.00	400.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
500.00	0.00	0.00	500.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
600.00	0.00	0.00	600.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
700.00	0.00	0.00	700.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
800.00	0.00	0.00	800.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
900.00	0.00	0.00	900.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
1,000.00	0.00	0.00	1,000.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
1,100.00	0.00	0.00	1,100.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
1,200.00	0.00	0.00	1,200.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
1,300.00	0.00	0.00	1,300.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
1,400.00	0.00	0.00	1,400.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
1,500.00	0.00	0.00	1,500.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
1,600.00	0.00	0.00	1,600.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
1,700.00	0.00	0.00	1,700.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
1,800.00	0.00	0.00	1,800.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
1,900.00	0.00	0.00	1,900.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
2,000.00	0.00	0.00	2,000.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
2,100.00	0.00	0.00	2,100.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
2,200.00	0.00	0.00	2,200.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
2,300.00	0.00	0.00	2,300.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
2,400.00	0.00	0.00	2,400.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
2,500.00	0.00	0.00	2,500.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
2,600.00	0.00	0.00	2,600.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
2,700.00	0.00	0.00	2,700.00	0.00	0.00	436,249.96	766,199.93	32.197239	-103.606391
2,800.00	1.00	111.54	2,799.99	-0.32	0.81	436,249.64	766,200.74	32.197238	-103.606388
2,900.00	2.00	111.54	2,899.96	-1.28	3.25	436,248.68	766,203.17	32.197235	-103.606381
3,000.00	3.00	111.54	2,999.86	-2.88	7.30	436,247.08	766,207.23	32.197231	-103.606367
3,100.00	4.00	111.54	3,099.68	-5.12	12.98	436,244.84	766,212.91	32.197225	-103.606349
3,200.00	5.00	111.54	3,199.37	-8.00	20.28	436,241.96	766,220.21	32.197217	-103.606326
3,300.00	6.00	111.54	3,298.90	-11.52	29.20	436,238.44	766,229.12	32.197207	-103.606297
3,400.00	7.00	111.54	3,398.26	-15.68	39.73	436,234.28	766,239.65	32.197195	-103.606263
3,500.00	8.00	111.54	3,497.40	-20.47	51.87	436,229.49	766,251.79	32.197182	-103.606224
3,556.57	8.57	111.54	3,553.38	-23.46	59.45	436,226.50	766,259.37	32.197173	-103.606199
3,600.00	8.57	111.54	3,596.33	-25.84	65.46	436,224.12	766,265.39	32.197167	-103.606180
3,700.00	8.57	111.54	3,695.21	-31.30	79.32	436,218.66	766,279.25	32.197151	-103.606135
3,800.00	8.57	111.54	3,794.10	-36.77	93.17	436,213.19	766,293.10	32.197136	-103.606091
3,900.00	8.57	111.54	3,892.98	-42.24	107.03	436,207.72	766,306.95	32.197121	-103.606046
4,000.00	8.57	111.54	3,991.87	-47.71	120.88	436,202.25	766,320.81	32.197106	-103.606001
4,100.00	8.57	111.54	4,090.75	-53.18	134.74	436,196.78	766,334.66	32.197090	-103.605957
4,200.00	8.57	111.54	4,189.64	-58.64	148.59	436,191.32	766,348.52	32.197075	-103.605912
4,300.00	8.57	111.54	4,288.52	-64.11	162.44	436,185.85	766,362.37	32.197060	-103.605867
4,400.00	8.57	111.54	4,387.41	-69.58	176.30	436,180.38	766,376.23	32.197044	-103.605823
4,500.00	8.57	111.54	4,486.29	-75.05	190.15	436,174.91	766,390.08	32.197029	-103.605778
4,600.00	8.57	111.54	4,585.17	-80.51	204.01	436,169.45	766,403.93	32.197014	-103.605733
4,700.00	8.57	111.54	4,684.06	-85.98	217.86	436,163.98	766,417.79	32.196999	-103.605689
4,800.00	8.57	111.54	4,782.94	-91.45	231.72	436,158.51	766,431.64	32.196983	-103.605644
4,900.00	8.57	111.54	4,881.83	-96.92	245.57	436,153.04	766,445.50	32.196968	-103.605599
5,000.00	8.57	111.54	4,980.71	-102.39	259.42	436,147.57	766,459.35	32.196953	-103.605555
5,100.00	8.57	111.54	5,079.60	-107.85	273.28	436,142.11	766,473.21	32.196937	-103.605510
5,200.00	8.57	111.54	5,178.48	-113.32	287.13	436,136.64	766,487.06	32.196922	-103.605465
5,300.00	8.57	111.54	5,277.37	-118.79	300.99	436,131.17	766,500.91	32.196907	-103.605421

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Well:	Bell Lake 19-18 State Com 9H	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	8.57	111.54	5,376.25	-124.26	314.84	436,125.70	766,514.77	32.196892	-103.605376
5,500.00	8.57	111.54	5,475.14	-129.72	328.70	436,120.24	766,528.62	32.196876	-103.605331
5,600.00	8.57	111.54	5,574.02	-135.19	342.55	436,114.77	766,542.48	32.196861	-103.605287
5,700.00	8.57	111.54	5,672.90	-140.66	356.41	436,109.30	766,556.33	32.196846	-103.605242
5,800.00	8.57	111.54	5,771.79	-146.13	370.26	436,103.83	766,570.19	32.196830	-103.605197
5,900.00	8.57	111.54	5,870.67	-151.60	384.11	436,098.36	766,584.04	32.196815	-103.605153
6,000.00	8.57	111.54	5,969.56	-157.06	397.97	436,092.90	766,597.89	32.196800	-103.605108
6,100.00	8.57	111.54	6,068.44	-162.53	411.82	436,087.43	766,611.75	32.196785	-103.605063
6,200.00	8.57	111.54	6,167.33	-168.00	425.68	436,081.96	766,625.60	32.196769	-103.605019
6,300.00	8.57	111.54	6,266.21	-173.47	439.53	436,076.49	766,639.46	32.196754	-103.604974
6,400.00	8.57	111.54	6,365.10	-178.93	453.39	436,071.03	766,653.31	32.196739	-103.604929
6,500.00	8.57	111.54	6,463.98	-184.40	467.24	436,065.56	766,667.17	32.196723	-103.604885
6,600.00	8.57	111.54	6,562.87	-189.87	481.09	436,060.09	766,681.02	32.196708	-103.604840
6,700.00	8.57	111.54	6,661.75	-195.34	494.95	436,054.62	766,694.87	32.196693	-103.604795
6,800.00	8.57	111.54	6,760.64	-200.81	508.80	436,049.15	766,708.73	32.196678	-103.604751
6,900.00	8.57	111.54	6,859.52	-206.27	522.66	436,043.69	766,722.58	32.196662	-103.604706
7,000.00	8.57	111.54	6,958.40	-211.74	536.51	436,038.22	766,736.44	32.196647	-103.604661
7,100.00	8.57	111.54	7,057.29	-217.21	550.37	436,032.75	766,750.29	32.196632	-103.604617
7,200.00	8.57	111.54	7,156.17	-222.68	564.22	436,027.28	766,764.15	32.196616	-103.604572
7,300.00	8.57	111.54	7,255.06	-228.14	578.07	436,021.82	766,778.00	32.196601	-103.604527
7,400.00	8.57	111.54	7,353.94	-233.61	591.93	436,016.35	766,791.85	32.196586	-103.604483
7,500.00	8.57	111.54	7,452.83	-239.08	605.78	436,010.88	766,805.71	32.196571	-103.604438
7,600.00	8.57	111.54	7,551.71	-244.55	619.64	436,005.41	766,819.56	32.196555	-103.604393
7,700.00	8.57	111.54	7,650.60	-250.02	633.49	435,999.94	766,833.42	32.196540	-103.604349
7,800.00	8.57	111.54	7,749.48	-255.48	647.35	435,994.48	766,847.27	32.196525	-103.604304
7,900.00	8.57	111.54	7,848.37	-260.95	661.20	435,989.01	766,861.13	32.196509	-103.604259
7,980.61	8.57	111.54	7,928.08	-265.36	672.37	435,984.60	766,872.29	32.196497	-103.604223
8,000.00	8.27	111.54	7,947.26	-266.40	675.01	435,983.56	766,874.94	32.196494	-103.604215
8,100.00	6.77	111.54	8,046.39	-271.21	687.19	435,978.75	766,887.12	32.196481	-103.604176
8,200.00	5.27	111.54	8,145.84	-275.06	696.95	435,974.90	766,896.88	32.196470	-103.604144
8,300.00	3.77	111.54	8,245.52	-277.96	704.29	435,972.00	766,904.22	32.196462	-103.604120
8,400.00	2.27	111.54	8,345.38	-279.89	709.20	435,970.07	766,909.13	32.196456	-103.604105
8,500.00	0.77	111.54	8,445.34	-280.87	711.68	435,969.09	766,911.60	32.196454	-103.604097
8,551.66	0.00	0.00	8,497.00	-281.00	712.00	435,968.96	766,911.93	32.196453	-103.604096
8,600.00	0.00	0.00	8,545.34	-281.00	712.00	435,968.96	766,911.93	32.196453	-103.604096
8,700.00	0.00	0.00	8,645.34	-281.00	712.00	435,968.96	766,911.93	32.196453	-103.604096
8,800.00	0.00	0.00	8,745.34	-281.00	712.00	435,968.96	766,911.93	32.196453	-103.604096
8,900.00	0.00	0.00	8,845.34	-281.00	712.00	435,968.96	766,911.93	32.196453	-103.604096
8,901.70	0.00	0.00	8,847.04	-281.00	712.00	435,968.96	766,911.93	32.196453	-103.604096
KOP & FTP @ 8902' MD, 200' FSL, 380' FEL									
9,000.00	9.83	359.58	8,944.86	-272.59	711.94	435,977.37	766,911.86	32.196476	-103.604096
9,100.00	19.83	359.58	9,041.41	-247.03	711.75	436,002.93	766,911.68	32.196547	-103.604096
9,200.00	29.83	359.58	9,132.05	-205.09	711.44	436,044.87	766,911.37	32.196662	-103.604096
9,300.00	39.83	359.58	9,214.03	-148.05	711.02	436,101.91	766,910.95	32.196819	-103.604096
9,400.00	49.83	359.58	9,284.86	-77.64	710.51	436,172.32	766,910.43	32.197012	-103.604096
9,500.00	59.83	359.58	9,342.39	4.00	709.91	436,253.96	766,909.84	32.197237	-103.604096
9,600.00	69.83	359.58	9,384.86	94.39	709.25	436,344.35	766,909.17	32.197485	-103.604096
9,700.00	79.83	359.58	9,411.00	190.78	708.54	436,440.74	766,908.47	32.197750	-103.604096
9,800.00	89.83	359.58	9,420.00	290.24	707.81	436,540.20	766,907.74	32.198024	-103.604097
9,801.70	90.00	359.58	9,420.00	291.94	707.80	436,541.90	766,907.72	32.198028	-103.604097
9,900.00	90.00	359.58	9,420.00	390.24	707.08	436,640.20	766,907.00	32.198298	-103.604097
10,000.00	90.00	359.58	9,420.00	490.24	706.34	436,740.20	766,906.27	32.198573	-103.604097
10,100.00	90.00	359.58	9,420.00	590.24	705.61	436,840.19	766,905.54	32.198848	-103.604097
10,200.00	90.00	359.58	9,420.00	690.23	704.88	436,940.19	766,904.80	32.199123	-103.604097

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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
10,300.00	90.00	359.58	9,420.00	790.23	704.14	437,040.19	766,904.07	32.199398	-103.604097
10,400.00	90.00	359.58	9,420.00	890.23	703.41	437,140.19	766,903.34	32.199673	-103.604098
10,500.00	90.00	359.58	9,420.00	990.22	702.68	437,240.18	766,902.60	32.199948	-103.604098
10,600.00	90.00	359.58	9,420.00	1,090.22	701.94	437,340.18	766,901.87	32.200223	-103.604098
10,700.00	90.00	359.58	9,420.00	1,190.22	701.21	437,440.18	766,901.14	32.200497	-103.604098
10,800.00	90.00	359.58	9,420.00	1,290.22	700.48	437,540.17	766,900.40	32.200772	-103.604098
10,900.00	90.00	359.58	9,420.00	1,390.21	699.74	437,640.17	766,899.67	32.201047	-103.604099
11,000.00	90.00	359.58	9,420.00	1,490.21	699.01	437,740.17	766,898.93	32.201322	-103.604099
11,100.00	90.00	359.58	9,420.00	1,590.21	698.28	437,840.16	766,898.20	32.201597	-103.604099
11,200.00	90.00	359.58	9,420.00	1,690.21	697.54	437,940.16	766,897.47	32.201872	-103.604099
11,300.00	90.00	359.58	9,420.00	1,790.20	696.81	438,040.16	766,896.73	32.202147	-103.604099
11,400.00	90.00	359.58	9,420.00	1,890.20	696.08	438,140.16	766,896.00	32.202422	-103.604099
11,500.00	90.00	359.58	9,420.00	1,990.20	695.34	438,240.15	766,895.27	32.202696	-103.604100
11,600.00	90.00	359.58	9,420.00	2,090.19	694.61	438,340.15	766,894.53	32.202971	-103.604100
11,700.00	90.00	359.58	9,420.00	2,190.19	693.88	438,440.15	766,893.80	32.203246	-103.604100
11,800.00	90.00	359.58	9,420.00	2,290.19	693.14	438,540.14	766,893.07	32.203521	-103.604100
11,900.00	90.00	359.58	9,420.00	2,390.19	692.41	438,640.14	766,892.33	32.203796	-103.604100
12,000.00	90.00	359.58	9,420.00	2,490.18	691.67	438,740.14	766,891.60	32.204071	-103.604100
12,100.00	90.00	359.58	9,420.00	2,590.18	690.94	438,840.14	766,890.87	32.204346	-103.604101
12,200.00	90.00	359.58	9,420.00	2,690.18	690.21	438,940.13	766,890.13	32.204621	-103.604101
12,300.00	90.00	359.58	9,420.00	2,790.18	689.47	439,040.13	766,889.40	32.204895	-103.604101
12,400.00	90.00	359.58	9,420.00	2,890.17	688.74	439,140.13	766,888.67	32.205170	-103.604101
12,500.00	90.00	359.58	9,420.00	2,990.17	688.01	439,240.12	766,887.93	32.205445	-103.604101
12,600.00	90.00	359.58	9,420.00	3,090.17	687.27	439,340.12	766,887.20	32.205720	-103.604102
12,700.00	90.00	359.58	9,420.00	3,190.17	686.54	439,440.12	766,886.47	32.205995	-103.604102
12,800.00	90.00	359.58	9,420.00	3,290.16	685.81	439,540.12	766,885.73	32.206270	-103.604102
12,900.00	90.00	359.58	9,420.00	3,390.16	685.07	439,640.11	766,885.00	32.206545	-103.604102
13,000.00	90.00	359.58	9,420.00	3,490.16	684.34	439,740.11	766,884.27	32.206820	-103.604102
13,100.00	90.00	359.58	9,420.00	3,590.15	683.61	439,840.11	766,883.53	32.207094	-103.604102
13,200.00	90.00	359.58	9,420.00	3,690.15	682.87	439,940.10	766,882.80	32.207369	-103.604103
13,300.00	90.00	359.58	9,420.00	3,790.15	682.14	440,040.10	766,882.07	32.207644	-103.604103
13,400.00	90.00	359.58	9,420.00	3,890.15	681.41	440,140.10	766,881.33	32.207919	-103.604103
13,500.00	90.00	359.58	9,420.00	3,990.14	680.67	440,240.10	766,880.60	32.208194	-103.604103
13,600.00	90.00	359.58	9,420.00	4,090.14	679.94	440,340.09	766,879.87	32.208469	-103.604103
13,700.00	90.00	359.58	9,420.00	4,190.14	679.21	440,440.09	766,879.13	32.208744	-103.604104
13,800.00	90.00	359.58	9,420.00	4,290.14	678.47	440,540.09	766,878.40	32.209019	-103.604104
13,900.00	90.00	359.58	9,420.00	4,390.13	677.74	440,640.08	766,877.67	32.209293	-103.604104
14,000.00	90.00	359.58	9,420.00	4,490.13	677.01	440,740.08	766,876.93	32.209568	-103.604104
14,100.00	90.00	359.58	9,420.00	4,590.13	676.27	440,840.08	766,876.20	32.209843	-103.604104
14,200.00	90.00	359.58	9,420.00	4,690.12	675.54	440,940.08	766,875.47	32.210118	-103.604104
14,300.00	90.00	359.58	9,420.00	4,790.12	674.81	441,040.07	766,874.73	32.210393	-103.604105
14,309.00	90.00	359.58	9,420.00	4,799.12	674.74	441,049.07	766,874.67	32.210418	-103.604105
Cross Section @ 14309' MD, 0' FSL, 380' FEL									
14,400.00	90.00	359.58	9,420.00	4,890.12	674.07	441,140.07	766,874.00	32.210668	-103.604105
14,500.00	90.00	359.58	9,420.00	4,990.12	673.34	441,240.07	766,873.27	32.210943	-103.604105
14,600.00	90.00	359.58	9,420.00	5,090.11	672.61	441,340.06	766,872.53	32.211218	-103.604105
14,700.00	90.00	359.58	9,420.00	5,190.11	671.87	441,440.06	766,871.80	32.211492	-103.604105
14,800.00	90.00	359.58	9,420.00	5,290.11	671.14	441,540.06	766,871.06	32.211767	-103.604105
14,900.00	90.00	359.58	9,420.00	5,390.11	670.41	441,640.06	766,870.33	32.212042	-103.604106
15,000.00	90.00	359.58	9,420.00	5,490.10	669.67	441,740.05	766,869.60	32.212317	-103.604106
15,100.00	90.00	359.58	9,420.00	5,590.10	668.94	441,840.05	766,868.86	32.212592	-103.604106
15,200.00	90.00	359.58	9,420.00	5,690.10	668.21	441,940.05	766,868.13	32.212867	-103.604106
15,300.00	90.00	359.58	9,420.00	5,790.10	667.47	442,040.04	766,867.40	32.213142	-103.604106
15,400.00	90.00	359.58	9,420.00	5,890.09	666.74	442,140.04	766,866.66	32.213417	-103.604107

Planning Report - Geographic

Database:	EDM r5000.141_Prod US	Local Co-ordinate Reference:	Well Bell Lake 19-18 State Com 9H
Company:	WCDSC Permian NM	TVD Reference:	RKB @ 3566.10ft
Project:	Lea County (NAD83 New Mexico East)	MD Reference:	RKB @ 3566.10ft
Site:	Sec 19-T24S-R33E	North Reference:	Grid
Well:	Bell Lake 19-18 State Com 9H	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	359.58	9,420.00	5,990.09	666.01	442,240.04	766,865.93	32.213691	-103.604107
15,600.00	90.00	359.58	9,420.00	6,090.09	665.27	442,340.03	766,865.20	32.213966	-103.604107
15,700.00	90.00	359.58	9,420.00	6,190.08	664.54	442,440.03	766,864.46	32.214241	-103.604107
15,800.00	90.00	359.58	9,420.00	6,290.08	663.80	442,540.03	766,863.73	32.214516	-103.604107
15,900.00	90.00	359.58	9,420.00	6,390.08	663.07	442,640.03	766,863.00	32.214791	-103.604107
16,000.00	90.00	359.58	9,420.00	6,490.08	662.34	442,740.02	766,862.26	32.215066	-103.604108
16,100.00	90.00	359.58	9,420.00	6,590.07	661.60	442,840.02	766,861.53	32.215341	-103.604108
16,200.00	90.00	359.58	9,420.00	6,690.07	660.87	442,940.02	766,860.80	32.215616	-103.604108
16,300.00	90.00	359.58	9,420.00	6,790.07	660.14	443,040.01	766,860.06	32.215890	-103.604108
16,400.00	90.00	359.58	9,420.00	6,890.07	659.40	443,140.01	766,859.33	32.216165	-103.604108
16,500.00	90.00	359.58	9,420.00	6,990.06	658.67	443,240.01	766,858.60	32.216440	-103.604108
16,600.00	90.00	359.58	9,420.00	7,090.06	657.94	443,340.01	766,857.86	32.216715	-103.604109
16,700.00	90.00	359.58	9,420.00	7,190.06	657.20	443,440.00	766,857.13	32.216990	-103.604109
16,800.00	90.00	359.58	9,420.00	7,290.06	656.47	443,540.00	766,856.40	32.217265	-103.604109
16,900.00	90.00	359.58	9,420.00	7,390.05	655.74	443,640.00	766,855.66	32.217540	-103.604109
17,000.00	90.00	359.58	9,420.00	7,490.05	655.00	443,739.99	766,854.93	32.217815	-103.604109
17,100.00	90.00	359.58	9,420.00	7,590.05	654.27	443,839.99	766,854.20	32.218089	-103.604110
17,200.00	90.00	359.58	9,420.00	7,690.04	653.54	443,939.99	766,853.46	32.218364	-103.604110
17,300.00	90.00	359.58	9,420.00	7,790.04	652.80	444,039.99	766,852.73	32.218639	-103.604110
17,400.00	90.00	359.58	9,420.00	7,890.04	652.07	444,139.98	766,852.00	32.218914	-103.604110
17,500.00	90.00	359.58	9,420.00	7,990.04	651.34	444,239.98	766,851.26	32.219189	-103.604110
17,600.00	90.00	359.58	9,420.00	8,090.03	650.60	444,339.98	766,850.53	32.219464	-103.604110
17,700.00	90.00	359.58	9,420.00	8,190.03	649.87	444,439.97	766,849.80	32.219739	-103.604111
17,800.00	90.00	359.58	9,420.00	8,290.03	649.14	444,539.97	766,849.06	32.220014	-103.604111
17,900.00	90.00	359.58	9,420.00	8,390.03	648.40	444,639.97	766,848.33	32.220288	-103.604111
18,000.00	90.00	359.58	9,420.00	8,490.02	647.67	444,739.97	766,847.60	32.220563	-103.604111
18,100.00	90.00	359.58	9,420.00	8,590.02	646.94	444,839.96	766,846.86	32.220838	-103.604111
18,200.00	90.00	359.58	9,420.00	8,690.02	646.20	444,939.96	766,846.13	32.221113	-103.604111
18,300.00	90.00	359.58	9,420.00	8,790.01	645.47	445,039.96	766,845.40	32.221388	-103.604112
18,400.00	90.00	359.58	9,420.00	8,890.01	644.74	445,139.95	766,844.66	32.221663	-103.604112
18,500.00	90.00	359.58	9,420.00	8,990.01	644.00	445,239.95	766,843.93	32.221938	-103.604112
18,600.00	90.00	359.58	9,420.00	9,090.01	643.27	445,339.95	766,843.19	32.222213	-103.604112
18,700.00	90.00	359.58	9,420.00	9,190.00	642.54	445,439.95	766,842.46	32.222487	-103.604112
18,800.00	90.00	359.58	9,420.00	9,290.00	641.80	445,539.94	766,841.73	32.222762	-103.604113
18,900.00	90.00	359.58	9,420.00	9,390.00	641.07	445,639.94	766,840.99	32.223037	-103.604113
19,000.00	90.00	359.58	9,420.00	9,490.00	640.34	445,739.94	766,840.26	32.223312	-103.604113
19,100.00	90.00	359.58	9,420.00	9,589.99	639.60	445,839.93	766,839.53	32.223587	-103.604113
19,200.00	90.00	359.58	9,420.00	9,689.99	638.87	445,939.93	766,838.79	32.223862	-103.604113
19,300.00	90.00	359.58	9,420.00	9,789.99	638.14	446,039.93	766,838.06	32.224137	-103.604113
19,400.00	90.00	359.58	9,420.00	9,889.99	637.40	446,139.93	766,837.33	32.224412	-103.604114
19,491.83	90.00	359.58	9,420.00	9,981.81	636.73	446,231.75	766,836.65	32.224664	-103.604114
LTP @ 19492' MD, 100' FNL, 380' FEL									
19,500.00	90.00	359.58	9,420.00	9,989.98	636.67	446,239.92	766,836.59	32.224686	-103.604114
19,571.83	90.00	359.58	9,420.00	10,061.81	636.14	446,311.75	766,836.07	32.224884	-103.604114
PBHL; 20' FNL, 380' FEL									
19,571.84	90.00	359.58	9,420.00	10,061.82	636.14	446,311.76	766,836.07	32.224884	-103.604114

Planning Report - Geographic

Database: EDM r5000.141_Prod US
Company: WCDSC Permian NM
Project: Lea County (NAD83 New Mexico East)
Site: Sec 19-T24S-R33E
Well: Bell Lake 19-18 State Com 9H
Wellbore: Wellbore #1
Design: Permit Plan 1

Local Co-ordinate Reference: Well Bell Lake 19-18 State Com 9H
TVD Reference: RKB @ 3566.10ft
MD Reference: RKB @ 3566.10ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name

- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
PBHL - Bell Lake 19-18 :	0.00	0.00	0.00	10,061.82	636.14	446,311.76	766,836.07	32.224884	-103.604114
- plan misses target center by 9420.00ft at 19571.84ft MD (9420.00 TVD, 10061.82 N, 636.14 E)									
- Point									
PBHL - Bell Lake 19-18 :	0.00	0.00	1.20	10,051.01	-1,171.83	446,300.95	765,028.10	32.224888	-103.609960
- plan misses target center by 9590.76ft at 19571.84ft MD (9420.00 TVD, 10061.82 N, 636.14 E)									
- Point									

Plan Annotations

Measured	Vertical	Local Coordinates		Comment
Depth	Depth	+N/-S	+E/-W	
(ft)	(ft)	(ft)	(ft)	
8,901.70	8,847.04	-281.00	712.00	KOP & FTP @ 8902' MD, 200' FSL, 380' FEL
14,309.00	9,420.00	4,799.12	674.74	Cross Section @ 14309' MD, 0' FSL, 380' FEL
19,491.83	9,420.00	9,981.81	636.73	LTP @ 19492' MD, 100' FNL, 380' FEL
19,571.83	9,420.00	10,061.81	636.14	PBHL; 20' FNL, 380' FEL