

C O N C H O

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MAR 14 2019

RECEIVED

NORTHERN DELAWARE BASIN

LEA COUNTY, NM

BULLDOG

DOMINATOR 25 FED #712H

OWB

Design: ACTUAL WELLPATH

Standard Survey Report

01 October, 2018

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Project	LEA COUNTY, NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	BULLDOG		
Site Position:		Northing:	398,637.10 usft
From:	Map	Easting:	741,887.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 5' 36.820 N
		Longitude:	103° 33' 8.116 W
		Grid Convergence:	0.42 °

Well:	DOMINATOR 25 FED #712H		
Well Position	+N-S	0.0 usft	Northing: 399,175.80 usft
	+E-W	0.0 usft	Easting: 748,989.80 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 5' 41.634 N
		Longitude:	103° 31' 45.513 W
		Ground Level:	3,339.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	WMM2015	1/29/2018	6.88	59.93	47,789.58316933

Design	ACTUAL WELLPATH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	356.68

Survey Program	Date 9/27/2018			
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	11,698.7	GYRO (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
11,898.0	17,563.0	MWD-CURVE/LATERAL (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

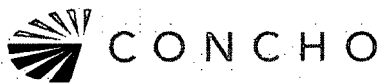
Survey										
Measured	Inclination	Azimuth	Vertical	+N-S	+E-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.79	152.60	100.0	-0.6	0.3	-0.6	0.79	0.79	0.00	
125.0	0.70	142.51	125.0	-0.9	0.5	-0.9	0.64	-0.36	-40.36	
150.0	0.74	136.76	150.0	-1.1	0.7	-1.2	0.33	0.16	-23.00	
175.0	0.90	138.56	175.0	-1.4	0.9	-1.4	0.65	0.64	7.20	
200.0	0.94	131.71	200.0	-1.7	1.2	-1.7	0.47	0.16	-27.40	
225.0	1.05	140.23	225.0	-2.0	1.5	-2.1	0.74	0.44	34.08	
250.0	1.05	141.09	250.0	-2.3	1.8	-2.4	0.06	0.00	3.44	
275.0	1.11	140.44	275.0	-2.7	2.1	-2.8	0.24	0.24	-2.60	
300.0	1.03	140.02	300.0	-3.1	2.4	-3.2	0.32	-0.32	-1.68	

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
325.0	1.04	144.26	325.0	-3.4	2.7	-3.6	0.31	0.04	16.96
350.0	1.01	141.74	350.0	-3.8	2.9	-3.9	0.22	-0.12	-10.08
375.0	1.04	140.85	375.0	-4.1	3.2	-4.3	0.14	0.12	-3.56
400.0	0.85	144.97	400.0	-4.5	3.5	-4.6	0.81	-0.76	16.48
425.0	0.99	143.23	425.0	-4.8	3.7	-5.0	0.57	0.56	-6.96
450.0	0.99	144.61	449.9	-5.1	4.0	-5.3	0.10	0.00	5.52
475.0	0.82	147.39	474.9	-5.5	4.2	-5.7	0.70	-0.68	11.12
500.0	0.83	147.54	499.9	-5.8	4.4	-6.0	0.04	0.04	0.60
525.0	0.80	145.53	524.9	-6.1	4.6	-6.3	0.17	-0.12	-8.04
550.0	0.80	148.25	549.9	-6.3	4.8	-6.6	0.15	0.00	10.88
575.0	0.80	149.17	574.9	-6.6	5.0	-6.9	0.05	0.00	3.68
600.0	0.74	148.30	599.9	-6.9	5.1	-7.2	0.24	-0.24	-3.48
625.0	0.69	153.43	624.9	-7.2	5.3	-7.5	0.32	-0.20	20.52
650.0	0.69	148.99	649.9	-7.5	5.4	-7.8	0.21	0.00	-17.76
675.0	0.50	158.99	674.9	-7.7	5.5	-8.0	0.86	-0.76	40.00
700.0	0.26	188.17	699.9	-7.9	5.6	-8.2	1.20	-0.96	116.72
725.0	0.28	293.55	724.9	-7.9	5.5	-8.2	1.72	0.08	421.52
750.0	0.39	303.69	749.9	-7.8	5.4	-8.1	0.50	0.44	40.56
775.0	0.46	307.04	774.9	-7.7	5.2	-8.0	0.30	0.28	13.40
800.0	0.51	306.63	799.9	-7.6	5.1	-7.9	0.20	0.20	-1.64
825.0	0.47	307.50	824.9	-7.5	4.9	-7.7	0.16	-0.16	3.48
850.0	0.46	302.31	849.9	-7.3	4.7	-7.6	0.17	-0.04	-20.76
875.0	0.41	317.62	874.9	-7.2	4.6	-7.5	0.50	-0.20	61.24
900.0	0.45	316.56	899.9	-7.1	4.4	-7.3	0.16	0.16	-4.24
925.0	0.30	321.07	924.9	-7.0	4.3	-7.2	0.61	-0.60	18.04
950.0	0.33	311.03	949.9	-6.9	4.2	-7.1	0.25	0.12	-40.16
975.0	0.22	325.80	974.9	-6.8	4.2	-7.0	0.52	-0.44	59.08
1,000.0	0.29	341.38	999.9	-6.7	4.1	-6.9	0.39	0.28	62.32
1,025.0	0.12	11.52	1,024.9	-6.6	4.1	-6.8	0.78	-0.68	120.56
1,050.0	0.20	24.10	1,049.9	-6.5	4.1	-6.8	0.35	0.32	50.32
1,075.0	0.23	35.75	1,074.9	-6.4	4.2	-6.7	0.21	0.12	46.60
1,100.0	0.28	27.57	1,099.9	-6.3	4.2	-6.6	0.25	0.20	-32.72
1,125.0	0.23	51.32	1,124.9	-6.3	4.3	-6.5	0.46	-0.20	95.00
1,150.0	0.27	49.42	1,149.9	-6.2	4.4	-6.4	0.16	0.16	-7.60
1,175.0	0.21	47.81	1,174.9	-6.1	4.5	-6.4	0.24	-0.24	-6.44
1,200.0	0.31	51.12	1,199.9	-6.1	4.5	-6.3	0.40	0.40	13.24
1,225.0	0.40	41.56	1,224.9	-5.9	4.7	-6.2	0.43	0.36	-38.24
1,250.0	0.48	48.08	1,249.9	-5.8	4.8	-6.1	0.38	0.32	26.08
1,275.0	0.55	42.65	1,274.9	-5.6	5.0	-5.9	0.34	0.28	-21.72
1,300.0	0.62	35.99	1,299.9	-5.5	5.1	-5.7	0.39	0.28	-26.64
1,325.0	0.54	37.26	1,324.9	-5.2	5.3	-5.5	0.32	-0.32	5.08
1,350.0	0.55	36.97	1,349.9	-5.1	5.4	-5.4	0.04	0.04	-1.16
1,375.0	0.45	31.21	1,374.9	-4.9	5.5	-5.2	0.45	-0.40	-23.04

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Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,400.0	0.40	36.15	1,399.9	-4.7	5.6	-5.0	0.25	-0.20	19.76	
1,425.0	0.37	45.20	1,424.9	-4.6	5.7	-4.9	0.27	-0.12	36.20	
1,450.0	0.24	53.50	1,449.9	-4.5	5.8	-4.8	0.55	-0.52	33.20	
1,475.0	0.29	193.22	1,474.9	-4.5	5.9	-4.9	1.99	0.20	558.88	
1,500.0	0.69	205.65	1,499.9	-4.7	5.8	-5.1	1.65	1.60	49.72	
1,525.0	1.24	209.90	1,524.9	-5.1	5.6	-5.4	2.22	2.20	17.00	
1,550.0	1.56	210.39	1,549.9	-5.6	5.3	-5.9	1.28	1.28	1.96	
1,575.0	1.48	212.57	1,574.9	-6.2	4.9	-6.5	0.39	-0.32	8.72	
1,600.0	1.58	210.65	1,599.9	-6.8	4.6	-7.0	0.45	0.40	-7.68	
1,625.0	1.52	211.09	1,624.9	-7.3	4.2	-7.6	0.24	-0.24	1.76	
1,650.0	1.53	210.43	1,649.9	-7.9	3.9	-8.1	0.08	0.04	-2.64	
1,675.0	1.60	211.60	1,674.9	-8.5	3.5	-8.7	0.31	0.28	4.68	
1,700.0	1.49	212.27	1,699.8	-9.1	3.2	-9.2	0.45	-0.44	2.68	
1,725.0	1.51	212.15	1,724.8	-9.6	2.8	-9.8	0.08	0.08	-0.48	
1,750.0	1.36	213.44	1,749.8	-10.2	2.5	-10.3	0.61	-0.60	5.16	
1,775.0	1.52	211.77	1,774.8	-10.7	2.2	-10.8	0.66	0.64	-6.68	
1,800.0	1.36	217.55	1,799.8	-11.2	1.8	-11.3	0.86	-0.64	23.12	
1,825.0	1.30	223.05	1,824.8	-11.6	1.4	-11.7	0.56	-0.24	22.00	
1,850.0	1.46	239.08	1,849.8	-12.0	1.0	-12.1	1.66	0.64	64.12	
1,875.0	1.48	253.44	1,874.8	-12.3	0.4	-12.3	1.47	0.08	57.44	
1,900.0	1.60	255.62	1,899.8	-12.5	-0.3	-12.4	0.53	0.48	8.72	
1,925.0	1.64	263.00	1,924.8	-12.6	-1.0	-12.5	0.85	0.16	29.52	
1,950.0	1.62	265.85	1,949.8	-12.7	-1.7	-12.5	0.33	-0.08	11.40	
1,975.0	1.61	266.24	1,974.8	-12.7	-2.4	-12.5	0.06	-0.04	1.56	
2,000.0	1.53	265.33	1,999.7	-12.8	-3.0	-12.6	0.34	-0.32	-3.64	
2,025.0	1.64	264.94	2,024.7	-12.8	-3.7	-12.6	0.44	0.44	-1.56	
2,050.0	1.68	265.31	2,049.7	-12.9	-4.5	-12.6	0.17	0.16	1.48	
2,075.0	1.60	266.26	2,074.7	-12.9	-5.2	-12.6	0.34	-0.32	3.80	
2,100.0	1.59	267.41	2,099.7	-13.0	-5.9	-12.6	0.13	-0.04	4.60	
2,125.0	1.63	269.37	2,124.7	-13.0	-6.6	-12.6	0.27	0.16	7.84	
2,150.0	1.59	272.09	2,149.7	-13.0	-7.3	-12.5	0.34	-0.16	10.88	
2,175.0	1.60	270.31	2,174.7	-13.0	-8.0	-12.5	0.20	0.04	-7.12	
2,200.0	1.52	275.30	2,199.7	-12.9	-8.6	-12.4	0.63	-0.32	19.96	
2,225.0	1.55	273.69	2,224.7	-12.9	-9.3	-12.3	0.21	0.12	-6.44	
2,250.0	1.47	278.18	2,249.6	-12.8	-10.0	-12.2	0.57	-0.32	17.96	
2,275.0	1.56	275.91	2,274.6	-12.7	-10.6	-12.1	0.43	0.36	-9.08	
2,300.0	1.50	273.33	2,299.6	-12.7	-11.3	-12.0	0.37	-0.24	-10.32	
2,325.0	1.51	277.86	2,324.6	-12.6	-11.9	-11.9	0.48	0.04	18.12	
2,350.0	1.52	276.98	2,349.6	-12.5	-12.6	-11.8	0.10	0.04	-3.52	
2,375.0	1.48	276.86	2,374.6	-12.4	-13.2	-11.7	0.16	-0.16	-0.48	
2,400.0	1.44	272.70	2,399.6	-12.4	-13.9	-11.6	0.45	-0.16	-16.64	
2,425.0	1.36	273.09	2,424.6	-12.4	-14.5	-11.5	0.32	-0.32	1.56	
2,450.0	1.31	284.08	2,449.6	-12.4	-15.1	-11.5	0.86	-0.20	-36.04	



Survey Report

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Survey:									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,475.0	1.29	264.55	2,474.6	-12.4	-15.6	-11.5	0.09	-0.08	1.88
2,500.0	1.24	260.29	2,499.6	-12.5	-16.2	-11.5	0.43	-0.20	-17.04
2,525.0	1.09	256.75	2,524.6	-12.6	-16.7	-11.6	0.67	-0.60	-14.16
2,550.0	1.09	250.48	2,549.6	-12.7	-17.1	-11.7	0.48	0.00	-25.08
2,575.0	1.10	244.08	2,574.6	-12.9	-17.6	-11.9	0.49	0.04	-25.60
2,600.0	1.03	238.91	2,599.5	-13.1	-18.0	-12.1	0.48	-0.28	-20.68
2,625.0	0.92	230.35	2,624.5	-13.4	-18.3	-12.3	0.73	-0.44	-34.24
2,650.0	0.96	223.36	2,649.5	-13.7	-18.6	-12.6	0.49	0.16	-27.96
2,675.0	1.03	220.86	2,674.5	-14.0	-18.9	-12.9	0.33	0.28	-10.00
2,700.0	1.06	220.40	2,699.5	-14.3	-19.2	-13.2	0.12	0.12	-1.84
2,725.0	1.03	216.28	2,724.5	-14.7	-19.5	-13.5	0.32	-0.12	-16.48
2,750.0	1.09	212.58	2,749.5	-15.1	-19.8	-13.9	0.36	0.24	-14.80
2,775.0	1.01	207.56	2,774.5	-15.5	-20.0	-14.3	0.49	-0.32	-20.08
2,800.0	0.89	203.33	2,799.5	-15.8	-20.2	-14.6	0.56	-0.48	-16.92
2,825.0	0.92	199.53	2,824.5	-16.2	-20.3	-15.0	0.27	0.12	-15.20
2,850.0	0.91	200.40	2,849.5	-16.6	-20.5	-15.4	0.07	-0.04	3.48
2,875.0	0.78	200.73	2,874.5	-16.9	-20.6	-15.7	0.52	-0.52	1.32
2,900.0	0.75	196.81	2,899.5	-17.2	-20.7	-16.0	0.24	-0.12	-15.68
2,925.0	0.78	198.69	2,924.5	-17.6	-20.8	-16.3	0.16	0.12	7.52
2,950.0	0.74	200.04	2,949.5	-17.9	-20.9	-16.6	0.18	-0.16	5.40
2,975.0	0.72	192.91	2,974.5	-18.2	-21.0	-16.9	0.37	-0.08	-28.52
3,000.0	0.62	191.15	2,999.5	-18.5	-21.1	-17.2	0.41	-0.40	-7.04
3,025.0	0.66	190.20	3,024.5	-18.7	-21.1	-17.5	0.17	0.16	-3.80
3,050.0	0.76	192.01	3,049.5	-19.0	-21.2	-17.8	0.41	0.40	7.24
3,075.0	0.78	185.43	3,074.5	-19.4	-21.2	-18.1	0.36	0.08	-26.32
3,100.0	0.81	191.59	3,099.5	-19.7	-21.3	-18.5	0.36	0.12	24.64
3,125.0	0.87	183.63	3,124.5	-20.1	-21.3	-18.8	0.52	0.24	-31.84
3,150.0	0.88	181.96	3,149.5	-20.5	-21.3	-19.2	0.11	0.04	-6.68
3,175.0	0.81	171.38	3,174.5	-20.8	-21.3	-19.6	0.68	-0.28	-42.32
3,200.0	0.84	166.91	3,199.5	-21.2	-21.2	-19.9	0.28	0.12	-17.88
3,225.0	1.00	156.50	3,224.5	-21.6	-21.1	-20.3	0.92	0.64	-41.64
3,250.0	1.14	146.53	3,249.5	-22.0	-20.9	-20.7	0.93	0.56	-39.88
3,275.0	1.18	135.19	3,274.5	-22.4	-20.6	-21.1	0.93	0.16	-45.36
3,300.0	1.25	131.77	3,299.5	-22.7	-20.2	-21.5	0.40	0.28	-13.68
3,325.0	1.29	130.53	3,324.5	-23.1	-19.8	-21.9	0.19	0.16	-4.96
3,350.0	1.24	126.58	3,349.4	-23.4	-19.3	-22.3	0.40	-0.20	-15.80
3,375.0	1.29	129.05	3,374.4	-23.8	-18.9	-22.6	0.30	0.20	9.88
3,400.0	1.28	129.87	3,399.4	-24.1	-18.5	-23.0	0.08	-0.04	3.28
3,425.0	1.28	128.13	3,424.4	-24.5	-18.0	-23.4	0.16	0.00	-6.96
3,450.0	1.27	121.68	3,449.4	-24.8	-17.6	-23.7	0.58	-0.04	-25.80
3,475.0	1.11	112.23	3,474.4	-25.0	-17.1	-24.0	1.01	-0.64	-37.80
3,500.0	1.06	105.75	3,499.4	-25.2	-16.7	-24.2	0.53	-0.20	-25.92
3,525.0	0.85	96.49	3,524.4	-25.3	-16.3	-24.3	1.04	-0.84	-37.04
3,550.0	0.51	72.59	3,549.4	-25.3	-16.0	-24.3	1.74	-1.36	-95.60

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/S (usft)	+E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,575.0	0.36	355.26	3,574.4	-25.1	-15.9	-24.2	2.22	-0.60	-309.32
3,600.0	0.71	313.49	3,599.4	-25.0	-16.0	-24.0	2.01	1.40	-167.08
3,625.0	0.84	305.81	3,624.4	-24.7	-16.3	-23.8	0.66	0.52	-30.72
3,650.0	0.92	297.94	3,649.4	-24.5	-16.6	-23.5	0.58	0.32	-31.48
3,675.0	0.91	294.32	3,674.4	-24.4	-16.9	-23.3	0.23	-0.04	-14.48
3,700.0	0.95	296.42	3,699.4	-24.2	-17.3	-23.2	0.21	0.16	8.40
3,725.0	0.97	298.31	3,724.4	-24.0	-17.7	-22.9	0.15	0.08	7.56
3,750.0	0.98	300.65	3,749.4	-23.8	-18.1	-22.7	0.16	0.04	9.36
3,775.0	0.94	306.07	3,774.4	-23.6	-18.4	-22.5	0.40	-0.16	21.68
3,800.0	1.00	298.59	3,799.4	-23.3	-18.8	-22.2	0.56	0.24	-29.92
3,825.0	0.98	301.24	3,824.4	-23.1	-19.1	-22.0	0.20	-0.08	10.60
3,850.0	1.03	302.59	3,849.4	-22.9	-19.5	-21.7	0.22	0.20	5.40
3,875.0	1.01	300.98	3,874.4	-22.7	-19.9	-21.5	0.14	-0.08	-6.44
3,900.0	0.85	304.76	3,899.4	-22.4	-20.2	-21.2	0.69	-0.64	15.12
3,925.0	0.74	320.54	3,924.4	-22.2	-20.5	-21.0	0.98	-0.44	63.12
3,950.0	0.61	341.83	3,949.4	-22.0	-20.6	-20.7	1.12	-0.52	85.16
3,975.0	0.67	356.02	3,974.4	-21.7	-20.7	-20.5	0.68	0.24	56.76
4,000.0	0.67	352.86	3,999.4	-21.4	-20.7	-20.2	0.15	0.00	-12.64
4,025.0	0.46	320.74	4,024.4	-21.2	-20.8	-19.9	1.49	-0.84	-128.48
4,050.0	0.79	251.17	4,049.4	-21.2	-21.0	-19.9	3.05	1.32	-278.28
4,075.0	1.56	234.23	4,074.4	-21.4	-21.5	-20.1	3.35	3.08	-67.76
4,100.0	1.79	231.57	4,099.3	-21.8	-22.0	-20.5	0.97	0.92	-10.64
4,125.0	1.92	230.68	4,124.3	-22.4	-22.7	-21.0	0.53	0.52	-3.56
4,150.0	1.90	230.14	4,149.3	-22.9	-23.3	-21.5	0.11	-0.08	-2.16
4,175.0	1.95	229.91	4,174.3	-23.4	-23.9	-22.0	0.20	0.20	-0.92
4,200.0	1.91	227.71	4,199.3	-24.0	-24.6	-22.5	0.34	-0.16	-8.80
4,225.0	1.88	227.01	4,224.3	-24.5	-25.2	-23.0	0.15	-0.12	-2.80
4,250.0	1.86	230.66	4,249.3	-25.1	-25.8	-23.5	0.48	-0.08	14.60
4,275.0	1.94	230.17	4,274.2	-25.6	-26.4	-24.0	0.33	0.32	-1.96
4,300.0	1.97	228.32	4,299.2	-26.2	-27.1	-24.5	0.28	0.12	-7.40
4,325.0	1.99	229.44	4,324.2	-26.7	-27.7	-25.1	0.17	0.08	4.48
4,350.0	1.82	224.70	4,349.2	-27.3	-28.3	-25.6	0.93	-0.68	-18.96
4,375.0	1.76	220.32	4,374.2	-27.9	-28.9	-26.1	0.60	-0.24	-17.52
4,400.0	1.71	214.52	4,399.2	-28.5	-29.3	-26.7	0.73	-0.20	-23.20
4,425.0	1.58	207.77	4,424.2	-29.1	-29.7	-27.3	0.93	-0.52	-27.00
4,450.0	1.64	199.82	4,449.2	-29.7	-30.0	-27.9	0.92	0.24	-31.80
4,475.0	1.69	197.10	4,474.1	-30.4	-30.2	-28.6	0.37	0.20	-10.88
4,500.0	1.50	197.00	4,499.1	-31.1	-30.4	-29.3	0.76	-0.76	-0.40
4,525.0	1.46	200.83	4,524.1	-31.7	-30.6	-29.9	0.43	-0.16	15.32
4,550.0	1.60	201.79	4,549.1	-32.3	-30.9	-30.5	0.57	0.56	3.84
4,575.0	1.63	208.50	4,574.1	-32.9	-31.2	-31.1	0.77	0.12	26.84
4,600.0	1.71	214.84	4,599.1	-33.6	-31.6	-31.7	0.80	0.32	25.36
4,625.0	1.69	215.06	4,624.1	-34.2	-32.0	-32.3	0.08	-0.08	0.88

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N/S (usft)	E/W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buid Rate (°/100usft)	Turn Rate (°/100usft)	
4,650.0	1.68	215.45	4,649.1	-34.8	-32.4	-32.8	0.06	-0.04	1.56	
4,675.0	1.76	213.63	4,674.1	-35.4	-32.8	-33.4	0.39	0.32	-7.28	
4,700.0	1.61	203.45	4,699.1	-36.0	-33.2	-34.0	1.34	-0.60	-40.72	
4,725.0	1.77	189.32	4,724.0	-36.7	-33.4	-34.7	1.78	0.64	-56.52	
4,750.0	1.88	181.96	4,749.0	-37.5	-33.5	-35.5	1.03	0.44	-29.44	
4,775.0	1.92	176.50	4,774.0	-38.4	-33.5	-36.3	0.74	0.16	-21.84	
4,800.0	1.98	176.49	4,799.0	-39.2	-33.4	-37.2	0.24	0.24	-0.04	
4,825.0	2.10	173.77	4,824.0	-40.1	-33.3	-38.1	0.62	0.48	-10.88	
4,850.0	2.34	170.35	4,849.0	-41.0	-33.2	-39.1	1.10	0.96	-13.68	
4,875.0	2.34	167.70	4,873.9	-42.0	-33.0	-40.1	0.43	0.00	-10.60	
4,900.0	2.39	167.15	4,898.9	-43.1	-32.8	-41.1	0.22	0.20	-2.20	
4,925.0	2.43	167.73	4,923.9	-44.1	-32.5	-42.1	0.19	0.16	2.32	
4,950.0	2.36	167.84	4,948.9	-45.1	-32.3	-43.2	0.28	-0.28	0.44	
4,975.0	1.97	178.28	4,973.9	-46.0	-32.2	-44.1	2.21	-1.56	41.76	
5,000.0	1.83	205.63	4,998.9	-46.8	-32.4	-44.9	3.63	-0.56	109.40	
5,025.0	1.82	225.53	5,023.8	-47.5	-32.8	-45.5	2.52	-0.04	79.60	
5,050.0	1.97	231.49	5,048.8	-48.0	-33.4	-46.0	0.99	0.60	23.84	
5,075.0	2.11	248.64	5,073.8	-48.4	-34.2	-46.4	2.50	0.56	68.60	
5,100.0	2.36	258.83	5,098.8	-48.7	-35.1	-46.6	1.87	1.00	40.76	
5,125.0	2.36	263.08	5,123.8	-48.9	-36.1	-46.7	0.70	0.00	17.00	
5,150.0	2.36	264.18	5,148.7	-49.0	-37.2	-46.7	0.18	0.00	4.40	
5,175.0	2.42	266.75	5,173.7	-49.1	-38.2	-46.8	0.49	0.24	10.28	
5,200.0	2.45	264.02	5,198.7	-49.2	-39.3	-46.8	0.48	0.12	-10.92	
5,225.0	2.35	265.63	5,223.7	-49.3	-40.3	-46.8	0.48	-0.40	6.44	
5,250.0	2.39	264.45	5,248.7	-49.3	-41.3	-46.9	0.25	0.16	-4.72	
5,275.0	2.30	263.35	5,273.6	-49.4	-42.4	-46.9	0.40	-0.36	-4.40	
5,300.0	2.28	266.96	5,298.6	-49.5	-43.4	-46.9	0.58	-0.08	14.44	
5,325.0	2.33	263.97	5,323.6	-49.6	-44.4	-47.0	0.52	0.20	-11.96	
5,350.0	2.34	265.96	5,348.6	-49.7	-45.4	-47.0	0.33	0.04	7.96	
5,375.0	2.34	265.57	5,373.6	-49.8	-46.4	-47.0	0.06	0.00	-1.56	
5,400.0	2.30	265.34	5,398.5	-49.9	-47.4	-47.0	0.16	-0.16	-0.92	
5,425.0	2.21	265.33	5,423.5	-49.9	-48.4	-47.0	0.36	-0.36	-0.04	
5,450.0	2.12	265.39	5,448.5	-50.0	-49.3	-47.1	0.36	-0.36	0.24	
5,475.0	2.18	265.16	5,473.5	-50.1	-50.3	-47.1	0.24	0.24	-0.92	
5,500.0	2.14	266.58	5,498.5	-50.2	-51.2	-47.1	0.27	-0.16	5.68	
5,525.0	2.13	264.55	5,523.4	-50.2	-52.1	-47.1	0.31	-0.04	-8.12	
5,550.0	2.05	265.30	5,548.4	-50.3	-53.0	-47.2	0.34	-0.32	3.00	
5,575.0	1.86	267.15	5,573.4	-50.4	-53.9	-47.2	0.80	-0.76	7.40	
5,600.0	1.89	263.93	5,598.4	-50.4	-54.7	-47.2	0.44	0.12	-12.88	
5,625.0	1.87	265.92	5,623.4	-50.5	-55.5	-47.2	0.27	-0.08	7.96	
5,650.0	1.66	263.36	5,648.4	-50.6	-56.3	-47.2	0.90	-0.84	-10.24	
5,675.0	1.27	263.76	5,673.4	-50.6	-56.9	-47.3	1.56	-1.56	1.60	
5,700.0	1.19	262.27	5,698.4	-50.7	-57.4	-47.3	0.34	-0.32	-5.96	

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,725.0	1.11	263.26	5,723.4	-50.8	-57.9	-47.3	0.33	-0.32	3.96	
5,750.0	1.12	263.42	5,748.4	-50.8	-58.4	-47.4	0.04	-0.04	0.64	
5,775.0	1.15	262.17	5,773.3	-50.9	-58.9	-47.4	0.16	0.12	-5.00	
5,800.0	1.17	268.28	5,798.3	-50.9	-59.4	-47.4	0.50	0.08	24.44	
5,825.0	1.18	265.93	5,823.3	-51.0	-59.9	-47.4	0.20	0.04	-9.40	
5,850.0	1.21	267.56	5,848.3	-51.0	-60.5	-47.4	0.18	0.12	6.52	
5,875.0	1.19	271.13	5,873.3	-51.0	-61.0	-47.4	0.31	-0.08	14.28	
5,900.0	1.16	266.91	5,898.3	-51.0	-61.5	-47.4	0.37	-0.12	-16.88	
5,925.0	1.18	267.79	5,923.3	-51.0	-62.0	-47.3	0.11	0.08	3.52	
5,950.0	1.21	262.95	5,948.3	-51.1	-62.5	-47.4	0.42	0.12	-19.36	
5,975.0	1.17	262.25	5,973.3	-51.1	-63.0	-47.4	0.17	-0.16	-2.80	
6,000.0	1.19	264.87	5,998.3	-51.2	-63.5	-47.4	0.23	0.08	10.48	
6,025.0	1.15	264.52	6,023.3	-51.2	-64.1	-47.4	0.16	-0.16	-1.40	
6,050.0	1.09	265.35	6,048.3	-51.3	-64.5	-47.5	0.25	-0.24	3.32	
6,075.0	1.08	268.26	6,073.3	-51.3	-65.0	-47.5	0.22	-0.04	11.64	
6,100.0	1.21	263.34	6,098.3	-51.4	-65.5	-47.5	0.65	0.52	-19.68	
6,125.0	1.19	267.76	6,123.3	-51.4	-66.0	-47.5	0.38	-0.08	17.68	
6,150.0	1.22	265.69	6,148.3	-51.4	-66.6	-47.5	0.21	0.12	-8.28	
6,175.0	1.09	263.18	6,173.3	-51.5	-67.1	-47.5	0.56	-0.52	-10.04	
6,200.0	1.09	267.02	6,198.3	-51.5	-67.5	-47.5	0.29	0.00	15.36	
6,225.0	1.21	267.19	6,223.3	-51.5	-68.0	-47.5	0.48	0.48	0.68	
6,250.0	1.19	266.88	6,248.3	-51.6	-68.6	-47.5	0.08	-0.08	-1.24	
6,275.0	1.26	265.58	6,273.2	-51.6	-69.1	-47.5	0.30	0.28	-5.20	
6,300.0	1.20	263.50	6,298.2	-51.6	-69.6	-47.5	0.30	-0.24	-8.32	
6,325.0	1.09	266.36	6,323.2	-51.7	-70.1	-47.5	0.50	-0.44	11.44	
6,350.0	1.18	266.26	6,348.2	-51.7	-70.6	-47.5	0.36	0.36	-0.40	
6,375.0	1.21	267.85	6,373.2	-51.8	-71.1	-47.5	0.18	0.12	6.36	
6,400.0	1.17	267.16	6,398.2	-51.8	-71.7	-47.5	0.17	-0.16	-2.76	
6,425.0	1.09	263.87	6,423.2	-51.8	-72.1	-47.5	0.41	-0.32	-13.16	
6,450.0	1.09	266.18	6,448.2	-51.9	-72.6	-47.6	0.18	0.00	9.24	
6,475.0	1.15	268.63	6,473.2	-51.9	-73.1	-47.5	0.31	0.24	9.80	
6,500.0	1.14	265.34	6,498.2	-51.9	-73.6	-47.5	0.27	-0.04	-13.16	
6,525.0	1.14	253.15	6,523.2	-52.0	-74.1	-47.6	0.97	0.00	-48.76	
6,550.0	1.14	245.43	6,548.2	-52.2	-74.6	-47.8	0.61	0.00	-30.88	
6,575.0	0.94	252.00	6,573.2	-52.3	-75.0	-47.9	0.93	-0.80	26.28	
6,600.0	0.80	244.82	6,598.2	-52.5	-75.3	-48.0	0.71	-0.56	-28.72	
6,625.0	0.87	245.23	6,623.2	-52.6	-75.7	-48.2	0.28	0.28	1.64	
6,650.0	0.88	249.47	6,648.2	-52.8	-76.0	-48.3	0.26	0.04	16.96	
6,675.0	0.83	234.29	6,673.2	-52.9	-76.3	-48.4	0.92	-0.20	-60.72	
6,700.0	0.73	234.12	6,698.2	-53.1	-76.6	-48.6	0.40	-0.40	-0.68	
6,725.0	0.77	235.15	6,723.2	-53.3	-76.9	-48.8	0.17	0.16	4.12	
6,750.0	0.71	238.02	6,748.2	-53.5	-77.1	-49.0	0.28	-0.24	11.48	
6,775.0	0.76	243.13	6,773.2	-53.7	-77.4	-49.1	0.33	0.20	20.44	
6,800.0	0.78	239.57	6,798.2	-53.8	-77.7	-49.2	0.21	0.08	-14.24	

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,825.0	0.71	236.00	6,823.2	-54.0	-78.0	-49.4	0.34	-0.28	-14.28	
6,850.0	0.70	243.97	6,848.2	-54.2	-78.3	-49.5	0.39	-0.04	31.88	
6,875.0	0.80	247.20	6,873.2	-54.3	-78.6	-49.6	0.43	0.40	12.92	
6,900.0	0.75	241.32	6,898.2	-54.4	-78.9	-49.8	0.38	-0.20	-23.52	
6,925.0	0.71	239.89	6,923.2	-54.6	-79.1	-49.9	0.18	-0.16	-5.72	
6,950.0	0.79	241.38	6,948.2	-54.8	-79.4	-50.1	0.33	0.32	5.96	
6,975.0	0.88	239.40	6,973.1	-54.9	-79.7	-50.2	0.38	0.36	-7.92	
7,000.0	1.03	228.93	6,998.1	-55.2	-80.1	-50.4	0.92	0.60	-41.88	
7,025.0	0.97	223.34	7,023.1	-55.5	-80.4	-50.7	0.46	-0.24	-22.36	
7,050.0	0.95	208.53	7,048.1	-55.8	-80.6	-51.0	0.99	-0.08	-59.24	
7,075.0	0.91	195.01	7,073.1	-56.2	-80.8	-51.4	0.89	-0.16	-54.08	
7,100.0	1.18	179.60	7,098.1	-56.6	-80.8	-51.9	1.55	1.08	-61.64	
7,125.0	1.25	175.68	7,123.1	-57.2	-80.8	-52.4	0.43	0.28	-15.68	
7,150.0	1.18	174.84	7,148.1	-57.7	-80.8	-52.9	0.29	-0.28	-3.36	
7,175.0	1.17	175.88	7,173.1	-58.2	-80.7	-53.4	0.09	-0.04	4.16	
7,200.0	1.22	178.99	7,198.1	-58.7	-80.7	-54.0	0.33	0.20	12.44	
7,225.0	1.27	176.33	7,223.1	-59.3	-80.7	-54.5	0.31	0.20	-10.64	
7,250.0	1.29	176.48	7,248.1	-59.8	-80.7	-55.1	0.08	0.08	0.60	
7,275.0	1.23	172.16	7,273.1	-60.4	-80.6	-55.6	0.45	-0.24	-17.28	
7,300.0	1.19	175.88	7,298.1	-60.9	-80.5	-56.1	0.35	-0.16	14.88	
7,325.0	1.21	178.30	7,323.1	-61.4	-80.5	-56.7	0.22	0.08	9.68	
7,350.0	1.26	173.74	7,348.1	-62.0	-80.5	-57.2	0.44	0.20	-18.24	
7,375.0	1.17	179.74	7,373.1	-62.5	-80.4	-57.7	0.62	-0.36	24.00	
7,400.0	1.27	179.09	7,398.1	-63.0	-80.4	-58.3	0.40	0.40	-2.60	
7,425.0	1.22	177.00	7,423.1	-63.6	-80.4	-58.8	0.27	-0.20	-8.36	
7,450.0	1.25	184.00	7,448.0	-64.1	-80.4	-59.3	0.61	0.12	28.00	
7,475.0	1.18	181.51	7,473.0	-64.6	-80.5	-59.9	0.35	-0.28	-9.96	
7,500.0	1.18	183.24	7,498.0	-65.1	-80.5	-60.4	0.14	0.00	6.92	
7,525.0	1.18	186.22	7,523.0	-65.7	-80.5	-60.9	0.25	0.00	11.92	
7,550.0	1.11	183.87	7,548.0	-66.2	-80.6	-61.4	0.34	-0.28	-9.40	
7,575.0	1.11	188.73	7,573.0	-66.6	-80.6	-61.9	0.38	0.00	19.44	
7,600.0	1.21	185.56	7,598.0	-67.1	-80.7	-62.4	0.48	0.40	-12.68	
7,625.0	1.08	182.25	7,623.0	-67.6	-80.7	-62.8	0.58	-0.52	-13.24	
7,650.0	1.15	187.18	7,648.0	-68.1	-80.8	-63.3	0.47	0.28	19.72	
7,675.0	1.22	187.74	7,673.0	-68.6	-80.8	-63.8	0.28	0.28	2.24	
7,700.0	1.30	189.62	7,698.0	-69.2	-80.9	-64.4	0.36	0.32	7.52	
7,725.0	1.27	186.64	7,723.0	-69.7	-81.0	-64.9	0.29	-0.12	-11.92	
7,750.0	1.29	186.51	7,748.0	-70.3	-81.0	-65.5	0.08	0.08	-0.52	
7,775.0	1.46	187.98	7,773.0	-70.9	-81.1	-66.1	0.69	0.68	5.88	
7,800.0	1.26	189.80	7,798.0	-71.5	-81.2	-66.6	0.82	-0.80	7.28	
7,825.0	1.19	188.38	7,823.0	-72.0	-81.3	-67.2	0.31	-0.28	-5.68	
7,850.0	1.20	191.00	7,848.0	-72.5	-81.4	-67.7	0.22	0.04	10.48	
7,875.0	1.12	190.75	7,873.0	-73.0	-81.5	-68.2	0.32	-0.32	-1.00	

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,900.0	1.33	194.19	7,897.9	-73.5	-81.6	-68.7	0.89	0.84	13.76
7,925.0	1.33	191.40	7,922.9	-74.1	-81.7	-69.2	0.26	0.00	-11.16
7,950.0	1.34	189.21	7,947.9	-74.7	-81.8	-69.8	0.21	0.04	-8.76
7,975.0	1.39	192.56	7,972.9	-75.3	-81.9	-70.4	0.38	0.20	13.40
8,000.0	1.34	191.06	7,997.9	-75.8	-82.1	-70.9	0.25	-0.20	-6.00
8,025.0	1.39	190.44	8,022.9	-76.4	-82.2	-71.5	0.21	0.20	-2.48
8,050.0	1.47	192.06	8,047.9	-77.0	-82.3	-72.1	0.36	0.32	6.48
8,075.0	1.40	185.82	8,072.9	-77.7	-82.4	-72.7	0.68	-0.28	-24.96
8,100.0	1.26	189.22	8,097.9	-78.2	-82.5	-73.3	0.64	-0.56	13.60
8,125.0	1.39	193.05	8,122.9	-78.8	-82.6	-73.9	0.63	0.52	15.32
8,150.0	1.33	190.89	8,147.9	-79.4	-82.7	-74.4	0.32	-0.24	-8.64
8,175.0	1.31	191.43	8,172.9	-79.9	-82.8	-75.0	0.09	-0.08	2.16
8,200.0	1.21	187.13	8,197.9	-80.5	-82.9	-75.5	0.55	-0.40	-17.20
8,225.0	1.31	191.94	8,222.9	-81.0	-83.0	-76.1	0.58	0.40	19.24
8,250.0	1.33	189.96	8,247.9	-81.6	-83.1	-76.6	0.20	0.08	-7.92
8,275.0	1.25	186.69	8,272.8	-82.1	-83.2	-77.2	0.43	-0.32	-13.08
8,300.0	1.37	190.60	8,297.8	-82.7	-83.3	-77.7	0.60	0.48	15.64
8,325.0	1.38	194.84	8,322.8	-83.3	-83.4	-78.3	0.41	0.04	16.96
8,350.0	1.36	194.68	8,347.8	-83.9	-83.6	-78.9	0.08	-0.08	-0.64
8,375.0	1.11	218.34	8,372.8	-84.3	-83.8	-79.3	2.25	-1.00	94.64
8,400.0	1.21	233.23	8,397.8	-84.7	-84.2	-79.7	1.27	0.40	59.56
8,425.0	1.33	235.78	8,422.8	-85.0	-84.6	-80.0	0.53	0.48	10.20
8,450.0	1.23	238.02	8,447.8	-85.3	-85.1	-80.2	0.45	-0.40	8.96
8,475.0	1.31	240.41	8,472.8	-85.6	-85.5	-80.5	0.38	0.32	9.56
8,500.0	1.45	239.73	8,497.8	-85.9	-86.1	-80.8	0.56	0.56	-2.72
8,525.0	1.38	236.48	8,522.8	-86.2	-86.6	-81.1	0.43	-0.28	-13.00
8,550.0	1.28	242.42	8,547.8	-86.5	-87.1	-81.3	0.68	-0.40	23.76
8,575.0	1.35	243.31	8,572.8	-86.8	-87.6	-81.6	0.29	-0.28	3.56
8,600.0	1.41	237.37	8,597.8	-87.1	-88.1	-81.8	0.62	0.24	-23.76
8,625.0	1.29	237.82	8,622.8	-87.4	-88.6	-82.1	0.48	-0.48	1.80
8,650.0	1.39	240.25	8,647.7	-87.7	-89.1	-82.4	0.46	0.40	9.72
8,675.0	1.32	234.70	8,672.7	-88.0	-89.6	-82.7	0.59	-0.28	-22.20
8,700.0	1.39	239.11	8,697.7	-88.3	-90.1	-83.0	0.50	0.28	17.64
8,725.0	1.56	242.34	8,722.7	-88.7	-90.7	-83.2	0.76	0.68	12.92
8,750.0	1.73	254.09	8,747.7	-88.9	-91.3	-83.5	1.51	0.68	47.00
8,775.0	2.10	264.00	8,772.7	-89.1	-92.2	-83.6	1.98	1.48	39.64
8,800.0	2.23	264.39	8,797.7	-89.2	-93.1	-83.6	0.52	0.52	1.56
8,825.0	2.19	265.13	8,822.7	-89.3	-94.1	-83.6	0.20	-0.16	2.96
8,850.0	2.36	264.73	8,847.6	-89.3	-95.0	-83.7	0.68	0.68	-1.60
8,875.0	2.24	262.35	8,872.6	-89.5	-96.0	-83.7	0.61	-0.48	-9.52
8,900.0	2.21	269.90	8,897.6	-89.5	-97.0	-83.7	1.18	-0.12	30.20
8,925.0	2.38	267.48	8,922.6	-89.5	-98.0	-83.7	0.78	0.68	-9.68
8,950.0	2.30	266.34	8,947.6	-89.6	-99.0	-83.7	0.37	-0.32	-4.56

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,975.0	2.37	264.99	8,972.5	-89.7	-100.0	-83.7	0.36	0.28	-5.40	
9,000.0	2.29	264.98	8,997.5	-89.8	-101.1	-83.8	0.32	-0.32	-0.04	
9,025.0	2.33	266.09	9,022.5	-89.8	-102.1	-83.8	0.24	0.16	4.44	
9,050.0	2.31	264.00	9,047.5	-89.9	-103.1	-83.8	0.35	-0.08	-8.36	
9,075.0	2.29	267.20	9,072.5	-90.0	-104.1	-83.8	0.52	-0.08	12.80	
9,100.0	2.33	264.13	9,097.4	-90.1	-105.1	-83.8	0.52	0.16	-12.28	
9,125.0	2.31	265.17	9,122.4	-90.2	-106.1	-83.9	0.19	-0.08	4.16	
9,150.0	2.35	267.20	9,147.4	-90.2	-107.1	-83.9	0.37	0.16	8.12	
9,175.0	2.43	267.31	9,172.4	-90.3	-108.1	-83.9	0.32	0.32	0.44	
9,200.0	2.39	264.33	9,197.4	-90.4	-109.2	-83.9	0.53	-0.16	-11.92	
9,225.0	2.50	258.97	9,222.3	-90.5	-110.2	-84.0	1.01	0.44	-21.44	
9,250.0	2.67	255.49	9,247.3	-90.8	-111.3	-84.2	0.93	0.68	-13.92	
9,275.0	2.62	256.79	9,272.3	-91.1	-112.5	-84.4	0.31	-0.20	5.20	
9,300.0	2.73	256.50	9,297.3	-91.3	-113.6	-84.6	0.44	0.44	-1.16	
9,325.0	2.89	253.63	9,322.2	-91.6	-114.8	-84.8	0.85	0.64	-11.48	
9,350.0	2.98	254.31	9,347.2	-92.0	-116.0	-85.1	0.39	0.36	2.72	
9,375.0	3.04	252.99	9,372.2	-92.4	-117.3	-85.4	0.37	0.24	-5.28	
9,400.0	3.15	249.82	9,397.1	-92.8	-118.5	-85.8	0.81	0.44	-12.68	
9,425.0	3.47	243.57	9,422.1	-93.4	-119.9	-86.3	1.93	1.28	-25.00	
9,450.0	3.67	242.69	9,447.0	-94.1	-121.3	-86.9	0.83	0.80	-3.52	
9,475.0	3.75	240.86	9,472.0	-94.8	-122.7	-87.6	0.57	0.32	-7.32	
9,500.0	3.82	240.77	9,496.9	-95.6	-124.1	-88.3	0.28	0.28	-0.36	
9,525.0	3.92	241.37	9,521.9	-96.5	-125.6	-89.0	0.43	0.40	2.40	
9,550.0	3.83	240.58	9,546.8	-97.3	-127.1	-89.7	0.42	-0.36	-3.16	
9,575.0	3.89	237.44	9,571.8	-98.1	-128.5	-90.5	0.88	0.24	-12.56	
9,600.0	4.05	235.36	9,596.7	-99.1	-130.0	-91.4	0.86	0.64	-8.32	
9,625.0	4.23	233.45	9,621.6	-100.2	-131.4	-92.4	0.91	0.72	-7.64	
9,650.0	4.14	233.76	9,646.6	-101.2	-132.9	-93.4	0.37	-0.36	1.24	
9,675.0	4.35	233.35	9,671.5	-102.3	-134.4	-94.4	0.85	0.84	-1.64	
9,700.0	4.41	234.15	9,696.4	-103.5	-135.9	-95.4	0.34	0.24	3.20	
9,725.0	4.50	233.87	9,721.3	-104.6	-137.5	-96.5	0.37	0.36	-1.12	
9,750.0	4.67	235.56	9,746.3	-105.8	-139.1	-97.5	0.87	0.68	6.76	
9,775.0	4.58	236.38	9,771.2	-106.9	-140.8	-98.5	0.45	-0.36	3.28	
9,800.0	4.55	237.40	9,796.1	-108.0	-142.5	-99.5	0.35	-0.12	4.08	
9,825.0	4.64	236.79	9,821.0	-109.1	-144.1	-100.5	0.41	0.36	-2.44	
9,850.0	4.67	237.03	9,845.9	-110.2	-145.8	-101.5	0.14	0.12	0.96	
9,875.0	4.69	238.03	9,870.9	-111.3	-147.6	-102.5	0.34	0.08	4.00	
9,900.0	4.75	237.27	9,895.8	-112.4	-149.3	-103.5	0.35	0.24	-3.04	
9,925.0	4.67	237.99	9,920.7	-113.5	-151.0	-104.5	0.40	-0.32	2.88	
9,950.0	4.62	237.32	9,945.6	-114.5	-152.7	-105.5	0.30	-0.20	-2.68	
9,975.0	4.56	236.65	9,970.5	-115.6	-154.4	-106.5	0.32	-0.24	-2.68	
10,000.0	4.64	235.56	9,995.4	-116.8	-156.1	-107.5	0.47	0.32	-4.36	
10,025.0	4.50	234.77	10,020.4	-117.9	-157.7	-108.5	0.61	-0.56	-3.16	
10,050.0	4.55	234.79	10,045.3	-119.0	-159.3	-109.6	0.20	0.20	0.08	

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,075.0	4.53	235.08	10,070.2	-120.2	-161.0	-110.6	0.12	-0.08	1.16
10,100.0	4.33	235.87	10,095.1	-121.3	-162.5	-111.6	0.84	-0.80	3.16
10,125.0	4.38	238.07	10,120.1	-122.3	-164.1	-112.6	0.70	0.20	8.80
10,150.0	4.28	237.01	10,145.0	-123.3	-165.7	-113.5	0.51	-0.40	-4.24
10,175.0	3.52	227.54	10,169.9	-124.3	-167.1	-114.4	3.98	-3.04	-37.88
10,200.0	3.03	225.05	10,194.9	-125.3	-168.1	-115.4	2.04	-1.96	-9.96
10,225.0	3.05	225.24	10,219.9	-126.3	-169.1	-116.2	0.09	0.08	0.76
10,250.0	2.82	225.08	10,244.8	-127.2	-170.0	-117.1	0.92	-0.92	-0.64
10,275.0	2.91	222.89	10,269.8	-128.1	-170.8	-117.9	0.57	0.36	-8.76
10,300.0	2.81	225.58	10,294.8	-129.0	-171.7	-118.8	0.67	-0.40	10.76
10,325.0	2.88	221.20	10,319.7	-129.9	-172.5	-119.6	0.91	0.28	-17.52
10,350.0	2.87	221.92	10,344.7	-130.8	-173.4	-120.5	0.15	-0.04	2.88
10,375.0	2.83	219.34	10,369.7	-131.7	-174.2	-121.4	0.54	-0.16	-10.32
10,400.0	2.94	217.31	10,394.6	-132.7	-175.0	-122.3	0.60	0.44	-8.12
10,425.0	2.77	216.37	10,419.6	-133.7	-175.7	-123.3	0.71	-0.68	-3.76
10,450.0	2.77	213.40	10,444.6	-134.7	-176.4	-124.2	0.57	0.00	-11.88
10,475.0	2.61	214.43	10,469.5	-135.7	-177.1	-125.2	0.67	-0.64	4.12
10,500.0	2.44	212.67	10,494.5	-136.6	-177.7	-126.1	0.75	-0.68	-7.04
10,525.0	2.57	211.70	10,519.5	-137.5	-178.3	-127.0	0.55	0.52	-3.88
10,550.0	2.59	213.16	10,544.5	-138.5	-178.9	-127.9	0.27	0.08	5.84
10,575.0	2.59	212.31	10,569.5	-139.4	-179.5	-128.8	0.15	0.00	-3.40
10,600.0	2.44	210.23	10,594.4	-140.4	-180.0	-129.7	0.70	-0.60	-8.32
10,625.0	2.81	212.12	10,619.4	-141.3	-180.6	-130.6	1.52	1.48	7.56
10,650.0	3.09	213.41	10,644.4	-142.4	-181.3	-131.7	1.15	1.12	5.16
10,675.0	3.25	212.24	10,669.3	-143.6	-182.1	-132.8	0.69	0.64	-4.68
10,700.0	3.33	211.53	10,694.3	-144.8	-182.8	-134.0	0.36	0.32	-2.84
10,725.0	3.47	211.80	10,719.2	-146.1	-183.6	-135.2	0.56	0.56	1.08
10,750.0	3.43	213.98	10,744.2	-147.3	-184.4	-136.4	0.55	-0.16	8.72
10,775.0	3.48	213.90	10,769.2	-148.6	-185.3	-137.6	0.20	0.20	-0.32
10,800.0	3.48	212.99	10,794.1	-149.8	-186.1	-138.8	0.22	0.00	-3.64
10,825.0	3.63	215.39	10,819.1	-151.1	-187.0	-140.0	0.85	0.60	9.60
10,850.0	3.85	219.19	10,844.0	-152.4	-188.0	-141.3	1.33	0.88	15.20
10,875.0	3.91	220.06	10,868.9	-153.7	-189.0	-142.5	0.34	0.24	3.48
10,900.0	3.74	219.44	10,893.9	-155.0	-190.1	-143.7	0.70	-0.68	-2.48
10,925.0	3.80	221.41	10,918.8	-156.3	-191.2	-144.9	0.57	0.24	7.88
10,950.0	3.78	221.69	10,943.8	-157.5	-192.3	-146.1	0.11	-0.08	1.12
10,975.0	3.92	220.86	10,968.7	-158.8	-193.4	-147.3	0.60	0.56	-3.32
11,000.0	4.13	221.20	10,993.7	-160.1	-194.5	-148.5	0.85	0.84	1.36
11,025.0	4.57	224.58	11,018.6	-161.5	-195.8	-149.8	2.04	1.76	13.52
11,050.0	4.85	225.09	11,043.5	-162.9	-197.3	-151.2	1.13	1.12	2.04
11,075.0	4.98	225.32	11,068.4	-164.4	-198.8	-152.6	0.53	0.52	0.92
11,100.0	5.00	225.01	11,093.3	-166.0	-200.3	-154.1	0.13	0.08	-1.24
11,125.0	5.07	225.80	11,118.2	-167.5	-201.9	-155.5	0.39	0.28	3.16

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TV D Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,150.0	4.95	227.91	11,143.1	-169.0	-203.5	-156.9	0.88	-0.48	8.44	
11,175.0	4.87	228.14	11,168.0	-170.4	-205.1	-158.2	0.33	-0.32	0.92	
11,200.0	4.67	229.53	11,193.0	-171.8	-206.6	-159.5	0.92	-0.80	5.56	
11,225.0	4.49	230.70	11,217.9	-173.1	-208.2	-160.7	0.81	-0.72	4.68	
11,250.0	4.40	230.19	11,242.8	-174.3	-209.7	-161.9	0.39	-0.36	-2.04	
11,275.0	4.30	229.64	11,267.7	-175.5	-211.1	-163.0	0.43	-0.40	-2.20	
11,300.0	4.20	227.66	11,292.7	-176.8	-212.5	-164.1	0.71	-0.40	-7.92	
11,325.0	3.85	224.31	11,317.6	-178.0	-213.8	-165.3	1.69	-1.40	-13.40	
11,350.0	3.77	222.85	11,342.5	-179.2	-214.9	-166.4	0.50	-0.32	-5.84	
11,375.0	3.62	223.50	11,367.5	-180.3	-216.0	-167.5	0.62	-0.60	2.60	
11,400.0	3.49	222.78	11,392.4	-181.5	-217.1	-168.6	0.55	-0.52	-2.88	
11,425.0	3.25	222.72	11,417.4	-182.6	-218.1	-169.6	0.96	-0.96	-0.24	
11,450.0	2.89	223.64	11,442.4	-183.5	-219.0	-170.5	1.45	-1.44	3.68	
11,475.0	2.65	222.11	11,467.3	-184.4	-219.8	-171.4	1.00	-0.96	-6.12	
11,500.0	2.53	224.81	11,492.3	-185.2	-220.6	-172.1	0.68	-0.48	10.80	
11,525.0	2.38	227.48	11,517.3	-186.0	-221.4	-172.8	0.75	-0.60	10.68	
11,550.0	2.28	226.77	11,542.3	-186.7	-222.1	-173.5	0.42	-0.40	-2.84	
11,575.0	2.09	228.72	11,567.2	-187.3	-222.8	-174.1	0.82	-0.76	7.80	
11,600.0	2.02	229.20	11,592.2	-187.9	-223.5	-174.6	0.29	-0.28	1.92	
11,625.0	1.98	229.81	11,617.2	-188.5	-224.2	-175.2	0.18	-0.16	2.44	
11,650.0	1.83	232.12	11,642.2	-189.0	-224.8	-175.6	0.67	-0.60	9.24	
11,675.0	1.93	229.89	11,667.2	-189.5	-225.4	-176.1	0.50	0.40	-8.92	
11,698.7	1.94	232.41	11,690.8	-190.0	-226.1	-176.6	0.36	0.04	10.65	
11,898.0	1.68	240.39	11,890.1	-193.5	-231.3	-179.8	0.18	-0.13	4.00	
11,992.0	1.34	266.55	11,984.0	-194.3	-233.6	-180.4	0.81	-0.36	27.83	
12,087.0	1.74	262.45	12,079.0	-194.5	-236.1	-180.5	0.44	0.42	-4.32	
12,181.0	1.29	269.23	12,173.0	-194.7	-238.6	-180.6	0.51	-0.48	7.21	
12,275.0	2.59	284.23	12,266.9	-194.2	-241.7	-179.9	1.47	1.38	15.96	
12,306.0	4.74	306.54	12,297.9	-193.3	-243.4	-178.8	8.20	6.94	71.97	
12,337.0	6.69	318.60	12,328.7	-191.2	-245.6	-176.6	7.35	6.29	38.90	
12,369.0	7.15	337.12	12,360.5	-187.9	-247.6	-173.2	7.09	1.44	57.88	
12,416.0	9.23	345.14	12,407.0	-181.6	-249.7	-166.8	5.04	4.43	17.06	
12,463.0	12.22	2.32	12,453.2	-173.0	-250.5	-158.1	9.25	6.36	36.55	
12,495.0	19.31	4.27	12,484.0	-164.3	-250.0	-149.5	22.21	22.16	6.09	
12,526.0	25.80	4.91	12,512.6	-152.5	-249.0	-137.8	20.95	20.94	2.06	
12,558.0	32.11	1.50	12,540.6	-137.0	-248.2	-122.4	20.38	19.72	-10.66	
12,589.0	35.91	0.15	12,566.2	-119.7	-248.0	-105.1	12.50	12.26	-4.35	
12,621.0	40.01	2.05	12,591.5	-100.0	-247.6	-85.5	13.32	12.81	5.94	
12,653.0	43.83	2.91	12,615.3	-78.6	-246.6	-64.2	12.07	11.94	2.69	
12,684.0	48.23	2.64	12,636.8	-56.4	-245.6	-42.0	14.21	14.19	-0.87	
12,716.0	52.10	1.86	12,657.3	-31.8	-244.6	-17.6	12.24	12.09	-2.44	
12,747.0	55.26	1.73	12,675.6	-6.8	-243.8	7.3	10.20	10.19	-0.42	
12,778.0	57.48	2.39	12,692.8	18.9	-242.9	33.0	7.38	7.16	2.13	

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore Design:	OWB	Survey Calculation Method:	Minimum Curvature
	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
12,810.0	59.17	2.24	12,709.6	46.2	-241.8	60.1	5.30	5.28	-0.47
12,841.0	61.59	2.11	12,724.9	73.1	-240.8	86.9	7.81	7.81	-0.42
12,872.0	64.28	2.28	12,739.0	100.7	-239.7	114.4	8.69	8.68	0.55
12,904.0	68.45	2.47	12,751.9	130.0	-238.5	143.6	13.04	13.03	0.59
12,936.0	72.20	1.67	12,762.6	160.1	-237.4	173.6	11.95	11.72	-2.50
12,968.0	76.54	0.61	12,771.3	190.9	-236.8	204.3	13.93	13.56	-3.31
12,999.0	81.62	359.89	12,777.1	221.3	-236.7	234.6	16.54	16.39	-2.32
13,029.0	86.75	359.55	12,780.2	251.1	-236.8	264.4	17.14	17.10	-1.13
13,061.0	90.17	359.44	12,781.0	283.1	-237.1	296.4	10.69	10.69	-0.34
13,121.0	91.12	356.93	12,780.4	343.1	-239.0	356.4	4.47	1.58	-4.18
13,216.0	91.12	356.44	12,778.5	437.9	-244.5	451.3	0.52	0.00	-0.52
13,311.0	87.62	357.70	12,779.5	532.7	-249.3	546.3	3.92	-3.68	1.33
13,404.0	89.61	359.83	12,781.8	625.7	-251.3	639.2	3.13	2.14	2.29
13,496.0	87.79	359.48	12,783.9	717.7	-251.9	731.1	2.01	-1.98	-0.38
13,590.0	87.68	359.85	12,787.6	811.6	-252.4	824.9	0.41	-0.12	0.39
13,685.0	87.82	1.33	12,791.3	906.5	-251.5	919.6	1.56	0.15	1.56
13,780.0	90.81	2.59	12,792.5	1,001.4	-248.2	1,014.1	3.42	3.15	1.33
13,873.0	92.24	2.82	12,790.0	1,094.3	-243.8	1,106.6	1.56	1.54	0.25
13,966.0	94.26	3.02	12,784.7	1,187.0	-239.1	1,198.9	2.18	2.17	0.22
14,060.0	90.11	359.95	12,781.1	1,280.9	-236.7	1,292.4	5.49	-4.41	-3.27
14,153.0	91.71	0.41	12,779.7	1,373.9	-236.4	1,385.3	1.79	1.72	0.49
14,248.0	86.50	357.97	12,781.1	1,468.8	-237.7	1,480.1	6.06	-5.48	-2.57
14,342.0	91.32	359.19	12,782.9	1,562.7	-240.0	1,574.0	5.29	5.13	1.30
14,436.0	88.29	358.12	12,783.2	1,656.7	-242.3	1,667.9	3.42	-3.22	-1.14
14,530.0	83.88	357.01	12,789.7	1,750.4	-246.2	1,761.7	4.84	-4.69	-1.18
14,623.0	84.14	357.49	12,799.4	1,842.7	-250.7	1,854.2	0.58	0.28	0.52
14,717.0	85.99	359.78	12,807.5	1,936.4	-252.9	1,947.8	3.12	1.97	2.44
14,811.0	88.63	358.99	12,811.9	2,030.2	-253.9	2,041.6	2.93	2.81	-0.84
14,905.0	91.12	358.27	12,812.1	2,124.2	-256.2	2,135.5	2.76	2.65	-0.77
14,999.0	91.79	357.43	12,809.7	2,218.1	-259.7	2,229.4	1.14	0.71	-0.89
15,094.0	92.77	359.24	12,805.9	2,313.0	-262.4	2,324.3	2.17	1.03	1.91
15,187.0	91.79	358.68	12,802.2	2,405.9	-264.1	2,417.2	1.21	-1.05	-0.60
15,282.0	87.96	358.18	12,802.4	2,500.8	-266.7	2,512.1	4.07	-4.03	-0.53
15,376.0	86.95	357.16	12,806.6	2,594.7	-270.5	2,606.0	1.53	-1.07	-1.09
15,471.0	90.17	358.27	12,809.0	2,689.6	-274.3	2,700.9	3.59	3.39	1.17
15,565.0	87.79	358.39	12,810.6	2,783.5	-277.1	2,794.9	2.54	-2.53	0.13
15,659.0	88.38	358.14	12,813.8	2,877.4	-279.9	2,888.8	0.68	0.63	-0.27
15,754.0	89.94	358.17	12,815.2	2,972.3	-283.0	2,983.7	1.64	1.64	0.03
15,848.0	90.62	359.30	12,814.7	3,066.3	-285.0	3,077.7	1.40	0.72	1.20
15,941.0	92.13	359.10	12,812.5	3,159.3	-286.3	3,170.6	1.64	1.62	-0.22
16,036.0	88.99	359.51	12,811.6	3,254.2	-287.5	3,265.4	3.33	-3.31	0.43
16,130.0	87.73	359.80	12,814.2	3,348.2	-288.1	3,359.3	1.38	-1.34	0.31
16,224.0	89.50	359.30	12,816.5	3,442.2	-288.8	3,453.1	1.96	1.88	-0.53
16,318.0	89.19	359.29	12,817.6	3,536.2	-290.0	3,547.0	0.33	-0.33	-0.01

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well DOMINATOR 25 FED #712H
Project:	LEA COUNTY, NM	TVD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Site:	BULLDOG	MD Reference:	RKB=3339+30 @ 3369.0usft (NABORS 894)
Well:	DOMINATOR 25 FED #712H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,413.0	88.18	357.53	12,819.8	3,631.1	-292.6	3,641.9	2.14	-1.06	-1.85
16,506.0	89.19	356.97	12,821.9	3,724.0	-297.1	3,734.9	1.24	1.09	-0.60
16,601.0	91.62	357.87	12,821.2	3,818.8	-301.3	3,829.9	2.73	2.56	0.95
16,695.0	91.76	359.53	12,818.5	3,912.8	-303.5	3,923.8	1.77	0.15	1.77
16,789.0	91.65	1.68	12,815.7	4,006.7	-302.5	4,017.5	2.29	-0.12	2.29
16,884.0	90.08	2.63	12,814.2	4,101.6	-298.9	4,112.1	1.93	-1.65	1.00
16,979.0	90.06	2.77	12,814.1	4,196.5	-294.4	4,206.6	0.15	-0.02	0.15
17,073.0	90.92	4.13	12,813.3	4,290.4	-288.8	4,299.9	1.71	0.91	1.45
17,168.0	90.06	1.83	12,812.5	4,385.2	-283.8	4,394.3	2.58	-0.91	-2.42
17,263.0	90.03	0.50	12,812.4	4,480.2	-281.9	4,489.0	1.40	-0.03	-1.40
17,356.0	91.29	0.50	12,811.4	4,573.2	-281.1	4,581.8	1.35	1.35	0.00
17,450.0	90.67	0.09	12,809.7	4,667.2	-280.6	4,675.6	0.79	-0.66	-0.44
17,504.0	90.92	0.01	12,809.0	4,721.2	-280.6	4,729.5	0.49	0.46	-0.15
17,563.0	90.92	0.01	12,808.0	4,780.2	-280.5	4,788.4	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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