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NORTHERN DELAWARE BASIN

EDDY COUNTY, NM

ATLAS

MYOX 21 ST COM #35H

OWB

Design: AWP

Standard Survey Report

24 June, 2019

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #35H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Site:	ATLAS	MD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Well:	MYOX 21 ST COM #35H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

Project	EDDY 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	ATLAS		
Site Position:		Northing:	371,480.80 usft
From:	Map	Easting:	573,599.60 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 15.933 N
		Longitude:	104° 5' 45.086 W
		Grid Convergence:	0.13 °

Well	MYOX 21 ST COM #35H		
Well Position	+N/-S	0.0 usft	Northing: 403,324.60 usft
	+E/-W	0.0 usft	Easting: 573,901.60 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 6' 31.070 N
		Longitude:	104° 5' 40.760 W
		Ground Level:	2,977.3 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination
			(°)
	WMM2015	12/19/2016	7.26
			Dip Angle
			(°)
			59.87
			Field Strength
			(nT)
			47,856.76099093

Design	AWP		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			4.49

Survey Program	Date	6/24/2019		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.0	8,740.0	KEEPER GYROS (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
8,840.0	19,712.0	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	0.30	324.87	100.0	0.2	-0.2	0.2	0.30	0.30	0.00
125.0	0.28	343.93	125.0	0.3	-0.2	0.3	0.39	-0.08	76.24
150.0	0.20	287.20	150.0	0.4	-0.3	0.4	0.95	-0.32	-226.92
175.0	0.26	319.91	175.0	0.5	-0.3	0.4	0.57	0.24	130.84
200.0	0.30	276.10	200.0	0.5	-0.4	0.5	0.85	0.16	-175.24
225.0	0.45	279.86	225.0	0.5	-0.6	0.5	0.61	0.60	15.04
250.0	0.48	279.54	250.0	0.6	-0.8	0.5	0.12	0.12	-1.28
275.0	0.49	274.38	275.0	0.6	-1.0	0.5	0.18	0.04	-20.64
300.0	0.49	279.42	300.0	0.6	-1.2	0.5	0.17	0.00	20.16

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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	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	0.52	273.84	325.0	0.6	-1.4	0.5	0.23	0.12	-22.32
350.0	0.56	268.76	350.0	0.6	-1.7	0.5	0.25	0.16	-20.32
375.0	0.46	272.15	375.0	0.6	-1.9	0.5	0.42	-0.40	13.56
400.0	0.45	279.40	400.0	0.7	-2.1	0.5	0.23	-0.04	29.00
425.0	0.42	279.19	425.0	0.7	-2.3	0.5	0.12	-0.12	-0.84
450.0	0.46	294.31	450.0	0.8	-2.5	0.6	0.49	0.16	60.48
475.0	0.50	279.28	475.0	0.8	-2.7	0.6	0.53	0.16	-60.12
500.0	0.50	274.69	500.0	0.8	-2.9	0.6	0.16	0.00	-18.36
525.0	0.50	270.50	525.0	0.8	-3.1	0.6	0.15	0.00	-16.76
550.0	0.47	272.68	550.0	0.9	-3.3	0.6	0.14	-0.12	8.72
575.0	0.44	282.52	575.0	0.9	-3.5	0.6	0.33	-0.12	39.36
600.0	0.42	282.48	600.0	0.9	-3.7	0.6	0.08	-0.08	-0.16
625.0	0.45	278.19	625.0	1.0	-3.9	0.6	0.18	0.12	-17.16
650.0	0.42	272.99	650.0	1.0	-4.1	0.6	0.20	-0.12	-20.80
675.0	0.46	258.07	675.0	1.0	-4.3	0.6	0.48	0.16	-59.68
700.0	0.43	242.50	700.0	0.9	-4.4	0.5	0.50	-0.12	-62.28
725.0	0.40	225.27	725.0	0.8	-4.6	0.4	0.51	-0.12	-68.92
750.0	0.41	216.70	750.0	0.7	-4.7	0.3	0.25	0.04	-34.28
775.0	0.39	208.12	775.0	0.5	-4.8	0.1	0.25	-0.08	-34.32
800.0	0.37	205.59	800.0	0.4	-4.9	0.0	0.10	-0.08	-10.12
825.0	0.27	202.16	825.0	0.2	-4.9	-0.2	0.41	-0.40	-13.72
850.0	0.35	209.67	850.0	0.1	-5.0	-0.3	0.36	0.32	30.04
875.0	0.30	198.65	875.0	0.0	-5.0	-0.4	0.32	-0.20	-44.08
900.0	0.33	194.24	900.0	-0.1	-5.1	-0.5	0.15	0.12	-17.64
925.0	0.47	163.98	925.0	-0.3	-5.1	-0.7	0.99	0.56	-121.04
950.0	0.81	145.10	950.0	-0.6	-4.9	-0.9	1.58	1.36	-75.52
975.0	1.03	140.37	975.0	-0.9	-4.7	-1.2	0.93	0.88	-18.92
1,000.0	1.14	137.77	1,000.0	-1.2	-4.4	-1.6	0.48	0.44	-10.40
1,025.0	1.18	133.02	1,025.0	-1.6	-4.0	-1.9	0.42	0.16	-19.00
1,050.0	1.12	137.39	1,050.0	-2.0	-3.7	-2.2	0.42	-0.24	17.48
1,075.0	1.12	134.33	1,075.0	-2.3	-3.3	-2.6	0.24	0.00	-12.24
1,100.0	1.14	136.82	1,099.9	-2.7	-3.0	-2.9	0.21	0.08	9.96
1,125.0	1.11	135.73	1,124.9	-3.0	-2.7	-3.2	0.15	-0.12	-4.36
1,150.0	1.10	132.15	1,149.9	-3.3	-2.3	-3.5	0.28	-0.04	-14.32
1,175.0	1.16	137.02	1,174.9	-3.7	-2.0	-3.8	0.45	0.24	19.48
1,200.0	1.10	137.80	1,199.9	-4.1	-1.6	-4.2	0.25	-0.24	3.12
1,225.0	1.09	113.89	1,224.9	-4.3	-1.2	-4.4	1.81	-0.04	-95.64
1,250.0	1.14	109.59	1,249.9	-4.5	-0.8	-4.6	0.39	0.20	-17.20
1,275.0	1.16	104.46	1,274.9	-4.7	-0.3	-4.7	0.42	0.08	-20.52
1,300.0	1.19	102.27	1,299.9	-4.8	0.2	-4.7	0.22	0.12	-8.76
1,325.0	1.22	99.24	1,324.9	-4.9	0.7	-4.8	0.28	0.12	-12.12
1,350.0	1.13	111.77	1,349.9	-5.0	1.2	-4.9	1.09	-0.36	50.12
1,375.0	1.47	83.12	1,374.9	-5.1	1.7	-4.9	2.89	1.36	-114.60

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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	1.23	103.24	1,399.9	-5.1	2.3	-4.9	2.11	-0.96	80.48	
1,425.0	1.28	103.85	1,424.9	-5.2	2.9	-5.0	0.21	0.20	2.44	
1,450.0	1.27	98.26	1,449.9	-5.3	3.4	-5.0	0.50	-0.04	-22.36	
1,475.0	1.35	99.35	1,474.9	-5.4	4.0	-5.1	0.34	0.32	4.36	
1,500.0	1.33	100.84	1,499.9	-5.5	4.5	-5.1	0.16	-0.08	5.96	
1,525.0	1.37	100.80	1,524.9	-5.6	5.1	-5.2	0.16	0.16	-0.16	
1,550.0	1.48	97.02	1,549.8	-5.7	5.7	-5.2	0.58	0.44	-15.12	
1,575.0	1.46	100.34	1,574.8	-5.8	6.4	-5.3	0.35	-0.08	13.28	
1,600.0	1.53	97.50	1,599.8	-5.9	7.0	-5.3	0.41	0.28	-11.36	
1,625.0	1.52	97.94	1,624.8	-6.0	7.7	-5.4	0.06	-0.04	1.76	
1,650.0	1.50	96.70	1,649.8	-6.1	8.3	-5.4	0.15	-0.08	-4.96	
1,675.0	1.54	97.42	1,674.8	-6.2	9.0	-5.4	0.18	0.16	2.88	
1,700.0	1.59	99.78	1,699.8	-6.3	9.7	-5.5	0.33	0.20	9.44	
1,725.0	1.70	97.68	1,724.8	-6.4	10.4	-5.5	0.50	0.44	-8.40	
1,750.0	1.83	99.33	1,749.8	-6.5	11.1	-5.6	0.56	0.52	6.60	
1,775.0	2.09	97.34	1,774.8	-6.6	12.0	-5.7	1.07	1.04	-7.96	
1,800.0	2.39	96.03	1,799.7	-6.7	12.9	-5.7	1.22	1.20	-5.24	
1,825.0	2.90	96.08	1,824.7	-6.8	14.1	-5.7	2.04	2.04	0.20	
1,850.0	3.02	97.51	1,849.7	-7.0	15.4	-5.8	0.56	0.48	5.72	
1,875.0	3.15	96.26	1,874.6	-7.2	16.7	-5.8	0.59	0.52	-5.00	
1,900.0	3.21	97.22	1,899.6	-7.3	18.1	-5.9	0.32	0.24	3.84	
1,925.0	3.12	98.14	1,924.6	-7.5	19.4	-6.0	0.41	-0.36	3.68	
1,950.0	2.55	103.40	1,949.5	-7.7	20.7	-6.1	2.50	-2.28	21.04	
1,975.0	2.32	107.18	1,974.5	-8.0	21.7	-6.3	1.12	-0.92	15.12	
2,000.0	2.21	106.99	1,999.5	-8.3	22.6	-6.5	0.44	-0.44	-0.76	
2,025.0	2.37	108.79	2,024.5	-8.6	23.6	-6.7	0.70	0.64	7.20	
2,050.0	2.61	109.63	2,049.4	-9.0	24.6	-7.0	0.97	0.96	3.36	
2,075.0	2.59	109.56	2,074.4	-9.3	25.7	-7.3	0.08	-0.08	-0.28	
2,100.0	2.67	109.33	2,099.4	-9.7	26.8	-7.6	0.32	0.32	-0.92	
2,125.0	2.62	109.42	2,124.4	-10.1	27.8	-7.9	0.20	-0.20	0.36	
2,150.0	2.45	113.63	2,149.3	-10.5	28.9	-8.2	1.01	-0.68	16.84	
2,175.0	2.37	104.42	2,174.3	-10.9	29.9	-8.5	1.58	-0.32	-36.84	
2,200.0	2.15	109.64	2,199.3	-11.1	30.8	-8.7	1.20	-0.88	20.88	
2,225.0	2.10	107.22	2,224.3	-11.4	31.7	-8.9	0.41	-0.20	-9.68	
2,250.0	1.31	115.96	2,249.3	-11.7	32.4	-9.1	3.32	-3.16	34.96	
2,275.0	0.54	125.57	2,274.3	-11.9	32.7	-9.3	3.13	-3.08	38.44	
2,300.0	0.46	147.74	2,299.3	-12.0	32.9	-9.4	0.83	-0.32	88.68	
2,325.0	0.37	159.73	2,324.3	-12.2	33.0	-9.6	0.50	-0.36	47.96	
2,350.0	0.44	165.18	2,349.3	-12.4	33.0	-9.8	0.32	0.28	21.80	
2,375.0	0.40	171.26	2,374.3	-12.6	33.1	-9.9	0.24	-0.16	24.32	
2,400.0	0.43	179.86	2,399.3	-12.7	33.1	-10.1	0.28	0.12	34.40	
2,425.0	0.38	190.98	2,424.3	-12.9	33.1	-10.3	0.37	-0.20	44.48	
2,450.0	0.49	181.43	2,449.3	-13.1	33.0	-10.5	0.53	0.44	-38.20	

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2,475.0	0.44	182.08	2,474.3	-13.3	33.0	-10.7	0.20	-0.20	2.60	
2,500.0	0.53	189.45	2,499.3	-13.5	33.0	-10.9	0.44	0.36	29.48	
2,525.0	0.51	181.40	2,524.3	-13.7	33.0	-11.1	0.30	-0.08	-32.20	
2,550.0	0.59	189.62	2,549.3	-14.0	33.0	-11.4	0.45	0.32	32.88	
2,575.0	0.64	195.52	2,574.3	-14.2	32.9	-11.6	0.32	0.20	23.60	
2,600.0	0.62	188.74	2,599.3	-14.5	32.8	-11.9	0.31	-0.08	-27.12	
2,625.0	0.64	187.10	2,624.3	-14.8	32.8	-12.2	0.11	0.08	-6.56	
2,650.0	0.68	188.55	2,649.3	-15.1	32.8	-12.4	0.17	0.16	5.80	
2,675.0	0.73	187.22	2,674.3	-15.4	32.7	-12.8	0.21	0.20	-5.32	
2,700.0	0.65	189.74	2,699.3	-15.7	32.7	-13.1	0.34	-0.32	10.08	
2,725.0	0.62	182.57	2,724.3	-15.9	32.7	-13.3	0.34	-0.12	-28.68	
2,750.0	0.58	184.87	2,749.3	-16.2	32.6	-13.6	0.19	-0.16	9.20	
2,775.0	0.66	186.44	2,774.2	-16.5	32.6	-13.9	0.33	0.32	6.28	
2,800.0	0.64	189.52	2,799.2	-16.7	32.6	-14.1	0.16	-0.08	12.32	
2,825.0	0.32	202.26	2,824.2	-17.0	32.5	-14.4	1.34	-1.28	50.96	
2,850.0	0.30	228.68	2,849.2	-17.1	32.4	-14.5	0.57	-0.08	105.68	
2,875.0	0.23	240.06	2,874.2	-17.1	32.3	-14.5	0.35	-0.28	45.52	
2,900.0	0.28	245.18	2,899.2	-17.2	32.3	-14.6	0.22	0.20	20.48	
2,925.0	0.52	231.09	2,924.2	-17.3	32.1	-14.7	1.03	0.96	-56.36	
2,950.0	0.27	252.85	2,949.2	-17.4	32.0	-14.8	1.15	-1.00	87.04	
2,975.0	0.18	297.24	2,974.2	-17.4	31.9	-14.8	0.76	-0.36	177.56	
3,000.0	0.22	294.89	2,999.2	-17.3	31.8	-14.8	0.16	0.16	-9.40	
3,025.0	0.25	296.21	3,024.2	-17.3	31.7	-14.7	0.12	0.12	5.28	
3,050.0	0.17	304.24	3,049.2	-17.2	31.6	-14.7	0.34	-0.32	32.12	
3,075.0	0.45	92.85	3,074.2	-17.2	31.7	-14.7	2.41	1.12	594.44	
3,100.0	0.92	90.35	3,099.2	-17.2	32.0	-14.7	1.88	1.88	-10.00	
3,125.0	1.15	94.24	3,124.2	-17.2	32.4	-14.7	0.96	0.92	15.56	
3,150.0	1.61	93.83	3,149.2	-17.3	33.0	-14.6	1.84	1.84	-1.64	
3,175.0	2.64	94.78	3,174.2	-17.4	34.0	-14.6	4.12	4.12	3.80	
3,200.0	3.28	96.05	3,199.2	-17.5	35.2	-14.7	2.57	2.56	5.08	
3,225.0	3.57	96.06	3,224.1	-17.6	36.7	-14.7	1.16	1.16	0.04	
3,250.0	4.11	95.90	3,249.1	-17.8	38.4	-14.8	2.16	2.16	-0.64	
3,275.0	4.98	96.51	3,274.0	-18.0	40.4	-14.8	3.49	3.48	2.44	
3,300.0	5.50	95.95	3,298.9	-18.3	42.6	-14.9	2.09	2.08	-2.24	
3,325.0	5.71	95.93	3,323.8	-18.5	45.1	-14.9	0.84	0.84	-0.08	
3,350.0	6.24	96.83	3,348.6	-18.8	47.7	-15.0	2.15	2.12	3.60	
3,375.0	6.94	97.21	3,373.5	-19.2	50.5	-15.2	2.81	2.80	1.52	
3,400.0	7.21	97.92	3,398.3	-19.6	53.6	-15.3	1.14	1.08	2.84	
3,425.0	7.40	97.97	3,423.1	-20.0	56.7	-15.5	0.76	0.76	0.20	
3,450.0	7.99	99.20	3,447.9	-20.5	60.0	-15.8	2.45	2.36	4.92	
3,475.0	8.36	99.85	3,472.6	-21.1	63.5	-16.1	1.53	1.48	2.60	
3,500.0	8.57	99.90	3,497.3	-21.7	67.1	-16.4	0.84	0.84	0.20	
3,525.0	8.58	99.68	3,522.0	-22.4	70.8	-16.8	0.14	0.04	-0.88	
3,550.0	8.71	99.71	3,546.8	-23.0	74.5	-17.1	0.52	0.52	0.12	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #35H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Site:	ATLAS	MD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Well:	MYOX 21 ST COM #35H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	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	8.72	99.19	3,571.5	-23.6	78.3	-17.4	0.32	0.04	-2.08
3,600.0	8.86	99.74	3,596.2	-24.3	82.0	-17.8	0.65	0.56	2.20
3,625.0	8.83	100.02	3,620.9	-24.9	85.8	-18.1	0.21	-0.12	1.12
3,650.0	8.84	99.84	3,645.6	-25.6	89.6	-18.5	0.12	0.04	-0.72
3,675.0	9.01	99.37	3,670.3	-26.2	93.4	-18.8	0.74	0.68	-1.88
3,700.0	9.05	99.18	3,695.0	-26.9	97.3	-19.2	0.20	0.16	-0.76
3,725.0	9.05	99.51	3,719.7	-27.5	101.2	-19.5	0.21	0.00	1.32
3,750.0	9.08	99.09	3,744.4	-28.1	105.1	-19.8	0.29	0.12	-1.68
3,775.0	9.12	98.98	3,769.0	-28.8	109.0	-20.1	0.17	0.16	-0.44
3,800.0	9.16	100.00	3,793.7	-29.4	112.9	-20.5	0.67	0.16	4.08
3,825.0	9.14	99.23	3,818.4	-30.1	116.8	-20.8	0.50	-0.08	-3.08
3,850.0	9.21	98.79	3,843.1	-30.7	120.7	-21.1	0.40	0.28	-1.76
3,875.0	9.17	98.97	3,867.8	-31.3	124.7	-21.5	0.20	-0.16	0.72
3,900.0	9.26	98.26	3,892.4	-31.9	128.6	-21.7	0.58	0.36	-2.84
3,925.0	9.26	98.29	3,917.1	-32.5	132.6	-22.0	0.02	0.00	0.12
3,950.0	9.27	98.82	3,941.8	-33.1	136.6	-22.3	0.34	0.04	2.12
3,975.0	9.23	98.45	3,966.5	-33.7	140.6	-22.6	0.29	-0.16	-1.48
4,000.0	9.24	98.16	3,991.1	-34.3	144.5	-22.9	0.19	0.04	-1.16
4,025.0	9.19	98.58	4,015.8	-34.9	148.5	-23.1	0.34	-0.20	1.68
4,050.0	9.07	98.46	4,040.5	-35.4	152.4	-23.4	0.49	-0.48	-0.48
4,075.0	9.11	99.14	4,065.2	-36.0	156.3	-23.7	0.46	0.16	2.72
4,100.0	9.02	98.13	4,089.9	-36.6	160.2	-24.0	0.73	-0.36	-4.04
4,125.0	8.68	98.32	4,114.6	-37.2	164.0	-24.2	1.37	-1.36	0.76
4,150.0	8.25	97.81	4,139.3	-37.7	167.7	-24.5	1.75	-1.72	-2.04
4,175.0	8.10	98.21	4,164.0	-38.2	171.2	-24.7	0.64	-0.60	1.60
4,200.0	8.03	97.90	4,188.8	-38.7	174.7	-24.9	0.33	-0.28	-1.24
4,225.0	8.05	97.79	4,213.6	-39.2	178.1	-25.1	0.10	0.08	-0.44
4,250.0	8.06	97.63	4,238.3	-39.6	181.6	-25.3	0.10	0.04	-0.64
4,275.0	8.13	98.13	4,263.1	-40.1	185.1	-25.5	0.40	0.28	2.00
4,300.0	8.11	97.61	4,287.8	-40.6	188.6	-25.7	0.30	-0.08	-2.08
4,325.0	8.08	97.88	4,312.6	-41.1	192.1	-25.9	0.19	-0.12	1.08
4,350.0	8.12	98.08	4,337.3	-41.6	195.6	-26.1	0.20	0.16	0.80
4,375.0	8.05	97.68	4,362.1	-42.0	199.0	-26.3	0.36	-0.28	-1.60
4,400.0	7.64	98.62	4,386.8	-42.5	202.4	-26.6	1.72	-1.64	3.76
4,425.0	7.18	99.27	4,411.6	-43.0	205.6	-26.8	1.87	-1.84	2.60
4,450.0	6.92	100.05	4,436.4	-43.5	208.6	-27.1	1.11	-1.04	3.12
4,475.0	6.86	99.81	4,461.3	-44.1	211.6	-27.4	0.27	-0.24	-0.96
4,500.0	6.71	100.39	4,486.1	-44.6	214.5	-27.7	0.66	-0.60	2.32
4,525.0	6.58	100.79	4,510.9	-45.1	217.3	-28.0	0.55	-0.52	1.60
4,550.0	6.44	101.20	4,535.7	-45.7	220.1	-28.3	0.59	-0.56	1.64
4,575.0	6.46	101.46	4,560.6	-46.2	222.9	-28.6	0.14	0.08	1.04
4,600.0	6.36	101.67	4,585.4	-46.8	225.6	-29.0	0.41	-0.40	0.84
4,625.0	6.27	102.18	4,610.3	-47.3	228.3	-29.3	0.42	-0.36	2.04

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #35H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Site:	ATLAS	MD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Well:	MYOX 21 ST COM #35H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	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)
4,650.0	6.14	103.27	4,635.1	-47.9	230.9	-29.7	0.70	-0.52	4.36
4,675.0	6.17	103.47	4,660.0	-48.5	233.5	-30.1	0.15	0.12	0.80
4,700.0	6.07	104.20	4,684.8	-49.2	236.1	-30.6	0.51	-0.40	2.92
4,725.0	6.01	104.77	4,709.7	-49.8	238.7	-31.0	0.34	-0.24	2.28
4,750.0	5.94	105.51	4,734.6	-50.5	241.2	-31.5	0.42	-0.28	2.96
4,775.0	5.72	105.78	4,759.4	-51.2	243.6	-32.0	0.89	-0.88	1.08
4,800.0	5.70	106.15	4,784.3	-51.9	246.0	-32.5	0.17	-0.08	1.48
4,825.0	5.54	106.03	4,809.2	-52.6	248.4	-33.0	0.64	-0.64	-0.48
4,850.0	5.46	107.25	4,834.1	-53.3	250.7	-33.5	0.57	-0.32	4.88
4,875.0	5.51	106.47	4,859.0	-53.9	253.0	-34.0	0.36	0.20	-3.12
4,900.0	5.41	107.64	4,883.9	-54.6	255.2	-34.5	0.60	-0.40	4.68
4,925.0	5.28	106.68	4,908.7	-55.3	257.5	-35.0	0.63	-0.52	-3.84
4,950.0	5.24	105.66	4,933.6	-56.0	259.7	-35.5	0.41	-0.16	-4.08
4,975.0	5.28	105.22	4,958.5	-56.6	261.9	-35.9	0.23	0.16	-1.76
5,000.0	5.17	105.59	4,983.4	-57.2	264.1	-36.3	0.46	-0.44	1.48
5,025.0	5.22	104.59	5,008.3	-57.8	266.3	-36.8	0.41	0.20	-4.00
5,050.0	5.24	104.35	5,033.2	-58.3	268.5	-37.2	0.12	0.08	-0.96
5,075.0	5.20	104.68	5,058.1	-58.9	270.7	-37.6	0.20	-0.16	1.32
5,100.0	5.20	105.38	5,083.0	-59.5	272.8	-38.0	0.25	0.00	2.80
5,125.0	5.23	105.38	5,107.9	-60.1	275.0	-38.4	0.12	0.12	0.00
5,150.0	5.32	105.76	5,132.8	-60.7	277.3	-38.8	0.39	0.36	1.52
5,175.0	5.59	106.30	5,157.7	-61.4	279.5	-39.3	1.10	1.08	2.16
5,200.0	6.01	105.81	5,182.6	-62.1	282.0	-39.8	1.69	1.68	-1.96
5,225.0	6.07	106.18	5,207.4	-62.8	284.5	-40.3	0.29	0.24	1.48
5,250.0	6.18	105.64	5,232.3	-63.5	287.1	-40.9	0.50	0.44	-2.16
5,275.0	6.38	104.91	5,257.1	-64.3	289.7	-41.4	0.86	0.80	-2.92
5,300.0	6.38	104.82	5,282.0	-65.0	292.4	-41.9	0.04	0.00	-0.36
5,325.0	6.53	104.58	5,306.8	-65.7	295.1	-42.4	0.61	0.60	-0.96
5,350.0	6.79	105.07	5,331.7	-66.4	297.9	-42.9	1.06	1.04	1.96
5,375.0	7.00	104.41	5,356.5	-67.2	300.8	-43.4	0.90	0.84	-2.64
5,400.0	7.08	104.38	5,381.3	-67.9	303.8	-44.0	0.32	0.32	-0.12
5,425.0	7.14	103.93	5,406.1	-68.7	306.8	-44.5	0.33	0.24	-1.80
5,450.0	7.14	104.77	5,430.9	-69.5	309.8	-45.0	0.42	0.00	3.36
5,475.0	7.00	105.13	5,455.7	-70.3	312.8	-45.6	0.59	-0.56	1.44
5,500.0	6.82	106.11	5,480.5	-71.1	315.7	-46.2	0.86	-0.72	3.92
5,525.0	6.71	106.45	5,505.4	-71.9	318.5	-46.8	0.47	-0.44	1.36
5,550.0	6.71	108.03	5,530.2	-72.8	321.3	-47.4	0.74	0.00	6.32
5,575.0	6.66	108.13	5,555.0	-73.7	324.0	-48.1	0.21	-0.20	0.40
5,600.0	6.63	109.94	5,579.8	-74.6	326.8	-48.8	0.85	-0.12	7.24
5,625.0	6.68	109.18	5,604.7	-75.6	329.5	-49.6	0.41	0.20	-3.04
5,650.0	6.64	109.57	5,629.5	-76.5	332.2	-50.3	0.24	-0.16	1.56
5,675.0	6.77	109.43	5,654.3	-77.5	335.0	-51.1	0.52	0.52	-0.56
5,700.0	6.67	109.75	5,679.2	-78.5	337.7	-51.8	0.43	-0.40	1.28

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #35H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Site:	ATLAS	MD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Well:	MYOX 21 ST COM #35H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	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	6.76	110.07	5,704.0	-79.5	340.5	-52.6	0.39	0.36	1.28	
5,750.0	6.71	110.05	5,728.8	-80.5	343.2	-53.4	0.20	-0.20	-0.08	
5,775.0	6.73	110.39	5,753.6	-81.5	346.0	-54.2	0.18	0.08	1.36	
5,800.0	6.43	111.57	5,778.5	-82.5	348.7	-55.0	1.32	-1.20	4.72	
5,825.0	5.67	111.75	5,803.3	-83.5	351.1	-55.8	3.04	-3.04	0.72	
5,850.0	5.25	112.18	5,828.2	-84.4	353.3	-56.5	1.69	-1.68	1.72	
5,875.0	5.06	112.92	5,853.1	-85.3	355.4	-57.2	0.81	-0.76	2.96	
5,900.0	5.06	112.15	5,878.0	-86.1	357.4	-57.9	0.27	0.00	-3.08	
5,925.0	5.02	113.67	5,902.9	-87.0	359.5	-58.6	0.56	-0.16	6.08	
5,950.0	5.05	113.18	5,927.8	-87.8	361.5	-59.3	0.21	0.12	-1.96	
5,975.0	5.18	113.90	5,952.7	-88.7	363.5	-60.0	0.58	0.52	2.88	
6,000.0	5.15	113.22	5,977.6	-89.6	365.6	-60.7	0.27	-0.12	-2.72	
6,025.0	5.20	113.58	6,002.5	-90.5	367.6	-61.5	0.24	0.20	1.44	
6,050.0	5.24	113.42	6,027.4	-91.4	369.7	-62.2	0.17	0.16	-0.64	
6,075.0	5.20	113.59	6,052.3	-92.3	371.8	-63.0	0.17	-0.16	0.68	
6,100.0	4.62	114.45	6,077.2	-93.2	373.8	-63.7	2.34	-2.32	3.44	
6,125.0	3.88	117.21	6,102.2	-94.0	375.4	-64.3	3.07	-2.96	11.04	
6,150.0	3.42	119.35	6,127.1	-94.8	376.8	-65.0	1.92	-1.84	8.56	
6,175.0	3.39	120.60	6,152.1	-95.5	378.1	-65.6	0.32	-0.12	5.00	
6,200.0	3.34	119.93	6,177.0	-96.2	379.4	-66.3	0.25	-0.20	-2.68	
6,225.0	3.53	121.72	6,202.0	-97.0	380.7	-66.9	0.87	0.76	7.16	
6,250.0	3.54	123.01	6,226.9	-97.8	382.0	-67.6	0.32	0.04	5.16	
6,275.0	3.68	123.20	6,251.9	-98.7	383.3	-68.4	0.56	0.56	0.76	
6,300.0	3.76	123.62	6,276.8	-99.6	384.7	-69.2	0.34	0.32	1.68	
6,325.0	3.84	124.65	6,301.8	-100.5	386.0	-70.0	0.42	0.32	4.12	
6,350.0	3.85	124.68	6,326.7	-101.5	387.4	-70.8	0.04	0.04	0.12	
6,375.0	3.88	124.21	6,351.7	-102.4	388.8	-71.7	0.17	0.12	-1.88	
6,400.0	3.93	124.82	6,376.6	-103.4	390.2	-72.5	0.26	0.20	2.44	
6,425.0	3.90	124.11	6,401.6	-104.4	391.6	-73.4	0.23	-0.12	-2.84	
6,450.0	3.57	121.28	6,426.5	-105.2	393.0	-74.2	1.51	-1.32	-11.32	
6,475.0	3.05	117.70	6,451.5	-105.9	394.2	-74.8	2.24	-2.08	-14.32	
6,500.0	2.67	113.36	6,476.4	-106.5	395.4	-75.2	1.75	-1.52	-17.36	
6,525.0	2.62	112.05	6,501.4	-106.9	396.4	-75.6	0.31	-0.20	-5.24	
6,550.0	2.57	113.45	6,526.4	-107.4	397.5	-75.9	0.32	-0.20	5.60	
6,575.0	2.49	112.43	6,551.3	-107.8	398.5	-76.3	0.37	-0.32	-4.08	
6,600.0	2.41	111.28	6,576.3	-108.2	399.5	-76.6	0.38	-0.32	-4.60	
6,625.0	2.25	108.65	6,601.3	-108.5	400.4	-76.9	0.77	-0.64	-10.52	
6,650.0	2.20	109.23	6,626.3	-108.9	401.3	-77.1	0.22	-0.20	2.32	
6,675.0	2.11	113.51	6,651.3	-109.2	402.2	-77.4	0.74	-0.36	17.12	
6,700.0	2.31	95.89	6,676.3	-109.4	403.1	-77.6	2.82	0.80	-70.48	
6,725.0	2.01	101.58	6,701.2	-109.6	404.1	-77.6	1.47	-1.20	22.76	
6,750.0	1.96	101.65	6,726.2	-109.8	404.9	-77.7	0.20	-0.20	0.28	
6,775.0	1.93	101.67	6,751.2	-109.9	405.8	-77.8	0.12	-0.12	0.08	
6,800.0	1.96	101.39	6,776.2	-110.1	406.6	-77.9	0.13	0.12	-1.12	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #35H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Site:	ATLAS	MD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Well:	MYOX 21 ST COM #35H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	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	2.05	99.50	6,801.2	-110.3	407.4	-78.0	0.45	0.36	-7.56
6,850.0	2.09	100.52	6,826.2	-110.4	408.3	-78.1	0.22	0.16	4.08
6,875.0	2.21	97.80	6,851.1	-110.6	409.3	-78.2	0.63	0.48	-10.88
6,900.0	2.30	98.43	6,876.1	-110.7	410.2	-78.3	0.37	0.36	2.52
6,925.0	2.43	98.48	6,901.1	-110.8	411.3	-78.3	0.52	0.52	0.20
6,950.0	2.50	99.20	6,926.1	-111.0	412.3	-78.4	0.31	0.28	2.88
6,975.0	2.53	98.39	6,951.1	-111.2	413.4	-78.5	0.19	0.12	-3.24
7,000.0	2.54	98.48	6,976.0	-111.3	414.5	-78.6	0.04	0.04	0.36
7,025.0	2.52	99.75	7,001.0	-111.5	415.6	-78.7	0.24	-0.08	5.08
7,050.0	2.51	98.55	7,026.0	-111.7	416.7	-78.7	0.21	-0.04	-4.80
7,075.0	2.46	99.28	7,051.0	-111.9	417.7	-78.8	0.24	-0.20	2.92
7,100.0	2.32	98.63	7,075.9	-112.0	418.8	-78.9	0.57	-0.56	-2.60
7,125.0	2.21	100.57	7,100.9	-112.2	419.7	-79.0	0.54	-0.44	7.76
7,150.0	2.19	98.97	7,125.9	-112.4	420.7	-79.1	0.26	-0.08	-6.40
7,175.0	2.13	101.29	7,150.9	-112.5	421.6	-79.2	0.42	-0.24	9.28
7,200.0	2.10	101.23	7,175.9	-112.7	422.5	-79.3	0.12	-0.12	-0.24
7,225.0	1.88	103.50	7,200.8	-112.9	423.4	-79.4	0.93	-0.88	9.08
7,250.0	1.75	105.77	7,225.8	-113.1	424.1	-79.5	0.59	-0.52	9.08
7,275.0	1.72	108.71	7,250.8	-113.3	424.9	-79.7	0.38	-0.12	11.76
7,300.0	1.81	106.29	7,275.8	-113.5	425.6	-79.9	0.47	0.36	-9.68
7,325.0	1.90	103.99	7,300.8	-113.7	426.4	-80.0	0.47	0.36	-9.20
7,350.0	2.26	99.28	7,325.8	-113.9	427.3	-80.1	1.59	1.44	-18.84
7,375.0	2.62	96.78	7,350.8	-114.1	428.3	-80.2	1.50	1.44	-10.00
7,400.0	2.95	97.78	7,375.7	-114.2	429.5	-80.3	1.33	1.32	4.00
7,425.0	3.34	101.69	7,400.7	-114.5	430.9	-80.4	1.78	1.56	15.64
7,450.0	3.56	105.24	7,425.6	-114.8	432.3	-80.6	1.23	0.88	14.20
7,475.0	3.78	105.57	7,450.6	-115.2	433.9	-80.9	0.88	0.88	1.32
7,500.0	3.82	107.17	7,475.5	-115.7	435.5	-81.3	0.45	0.16	6.40
7,525.0	3.69	109.69	7,500.5	-116.2	437.0	-81.7	0.84	-0.52	10.08
7,550.0	3.51	111.74	7,525.4	-116.8	438.5	-82.1	0.89	-0.72	8.20
7,575.0	3.42	111.73	7,550.4	-117.3	439.9	-82.6	0.36	-0.36	-0.04
7,600.0	3.44	112.92	7,575.3	-117.9	441.3	-83.0	0.30	0.08	4.76
7,625.0	3.57	111.78	7,600.3	-118.5	442.7	-83.5	0.59	0.52	-4.56
7,650.0	3.64	113.09	7,625.2	-119.1	444.1	-84.0	0.43	0.28	5.24
7,675.0	3.67	112.78	7,650.2	-119.7	445.6	-84.5	0.14	0.12	-1.24
7,700.0	3.64	113.96	7,675.1	-120.3	447.1	-85.0	0.32	-0.12	4.72
7,725.0	3.43	117.08	7,700.1	-121.0	448.5	-85.5	1.14	-0.84	12.48
7,750.0	3.13	121.94	7,725.1	-121.7	449.7	-86.1	1.64	-1.20	19.44
7,775.0	3.08	121.54	7,750.0	-122.4	450.9	-86.8	0.22	-0.20	-1.60
7,800.0	3.21	121.27	7,775.0	-123.1	452.0	-87.4	0.52	0.52	-1.08
7,825.0	3.40	117.68	7,799.9	-123.8	453.3	-88.0	1.12	0.76	-14.36
7,850.0	3.65	116.16	7,824.9	-124.5	454.7	-88.6	1.07	1.00	-6.08
7,875.0	3.92	113.37	7,849.8	-125.2	456.1	-89.1	1.31	1.08	-11.16

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #35H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Site:	ATLAS	MD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Well:	MYOX 21 ST COM #35H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	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	4.36	111.82	7,874.8	-125.9	457.8	-89.7	1.82	1.76	-6.20
7,925.0	5.00	109.63	7,899.7	-126.6	459.7	-90.3	2.66	2.56	-8.76
7,950.0	5.46	108.95	7,924.6	-127.4	461.9	-90.8	1.86	1.84	-2.72
7,975.0	5.67	109.06	7,949.5	-128.2	464.2	-91.5	0.84	0.84	0.44
8,000.0	5.72	109.34	7,974.3	-129.0	466.5	-92.1	0.23	0.20	1.12
8,025.0	5.78	109.59	7,999.2	-129.8	468.9	-92.7	0.26	0.24	1.00
8,050.0	5.75	110.09	8,024.1	-130.7	471.2	-93.4	0.23	-0.12	2.00
8,075.0	5.55	110.42	8,049.0	-131.5	473.5	-94.1	0.81	-0.80	1.32
8,100.0	5.26	110.59	8,073.9	-132.4	475.7	-94.7	1.16	-1.16	0.68
8,125.0	5.07	110.87	8,098.8	-133.2	477.9	-95.3	0.77	-0.76	1.12
8,150.0	5.11	110.36	8,123.7	-133.9	479.9	-96.0	0.24	0.16	-2.04
8,175.0	5.24	109.66	8,148.6	-134.7	482.0	-96.6	0.58	0.52	-2.80
8,200.0	5.35	110.23	8,173.5	-135.5	484.2	-97.2	0.49	0.44	2.28
8,225.0	5.53	109.48	8,198.3	-136.3	486.4	-97.8	0.77	0.72	-3.00
8,250.0	5.75	109.57	8,223.2	-137.1	488.8	-98.4	0.88	0.88	0.36
8,275.0	5.89	109.48	8,248.1	-138.0	491.2	-99.1	0.56	0.56	-0.36
8,300.0	5.88	108.42	8,273.0	-138.8	493.6	-99.7	0.44	-0.04	-4.24
8,325.0	5.86	109.27	8,297.8	-139.6	496.0	-100.4	0.36	-0.08	3.40
8,350.0	5.64	109.62	8,322.7	-140.5	498.4	-101.0	0.89	-0.88	1.40
8,375.0	5.57	108.60	8,347.6	-141.3	500.7	-101.6	0.49	-0.28	-4.08
8,400.0	5.49	108.10	8,372.5	-142.0	503.0	-102.2	0.37	-0.32	-2.00
8,425.0	5.44	108.47	8,397.4	-142.8	505.2	-102.8	0.24	-0.20	1.48
8,450.0	5.43	108.39	8,422.2	-143.5	507.5	-103.4	0.05	-0.04	-0.32
8,475.0	5.49	108.44	8,447.1	-144.3	509.7	-103.9	0.24	0.24	0.20
8,500.0	5.38	108.72	8,472.0	-145.0	512.0	-104.5	0.45	-0.44	1.12
8,525.0	5.11	108.86	8,496.9	-145.8	514.1	-105.1	1.08	-1.08	0.56
8,550.0	4.99	110.12	8,521.8	-146.5	516.2	-105.6	0.65	-0.48	5.04
8,575.0	4.78	110.33	8,546.7	-147.2	518.2	-106.2	0.84	-0.84	0.84
8,600.0	4.67	114.68	8,571.6	-148.0	520.1	-106.9	1.50	-0.44	17.40
8,625.0	4.63	113.45	8,596.6	-148.8	521.9	-107.5	0.43	-0.16	-4.92
8,650.0	4.38	113.71	8,621.5	-149.6	523.7	-108.2	1.00	-1.00	1.04
8,675.0	4.31	113.82	8,646.4	-150.4	525.5	-108.8	0.28	-0.28	0.44
8,700.0	4.20	115.21	8,671.3	-151.2	527.2	-109.4	0.60	-0.44	5.56
8,725.0	3.96	116.16	8,696.3	-151.9	528.8	-110.1	1.00	-0.96	3.80
8,740.0	3.89	114.94	8,711.2	-152.4	529.7	-110.4	0.73	-0.47	-8.13
8,840.0	3.19	122.43	8,811.0	-155.3	535.1	-112.9	0.84	-0.70	7.49
First PHX MWD Svy									
8,895.0	3.04	122.82	8,866.0	-156.9	537.6	-114.3	0.28	-0.27	0.71
8,927.0	3.06	119.15	8,897.9	-157.8	539.1	-115.1	0.61	0.06	-11.47
8,958.0	4.72	78.24	8,928.9	-157.9	541.1	-115.1	10.10	5.35	-131.97
8,990.0	8.48	63.72	8,960.6	-156.6	544.5	-113.5	12.76	11.75	-45.38
9,021.0	12.91	56.10	8,991.1	-153.7	549.4	-110.2	14.97	14.29	-24.58
9,052.0	16.87	51.11	9,021.0	-148.9	555.8	-105.0	13.42	12.77	-16.10

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #35H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Site:	ATLAS	MD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Well:	MYOX 21 ST COM #35H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	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)
9,084.0	20.56	46.53	9,051.4	-142.1	563.5	-97.6	12.40	11.53	-14.31
9,116.0	24.14	36.95	9,081.0	-133.0	571.5	-87.9	15.93	11.19	-29.94
9,147.0	27.88	32.41	9,108.8	-121.8	579.2	-76.1	13.66	12.06	-14.65
9,179.0	30.48	29.83	9,136.7	-108.5	587.2	-62.2	9.02	8.13	-8.06
9,210.0	32.47	26.82	9,163.2	-94.2	594.9	-47.4	8.18	6.42	-9.71
9,242.0	33.53	23.76	9,190.0	-78.5	602.3	-31.1	6.17	3.31	-9.56
9,273.0	33.90	19.53	9,215.8	-62.5	608.7	-14.6	7.67	1.19	-13.65
9,305.0	35.23	16.22	9,242.2	-45.2	614.2	3.0	7.19	4.16	-10.34
9,336.0	36.35	13.70	9,267.3	-27.7	618.9	20.8	5.97	3.61	-8.13
9,368.0	36.99	12.43	9,293.0	-9.1	623.2	39.7	3.10	2.00	-3.97
9,399.0	37.99	13.38	9,317.6	9.3	627.5	58.4	3.73	3.23	3.06
9,430.0	40.69	13.38	9,341.6	28.4	632.0	77.8	8.71	8.71	0.00
9,462.0	44.97	13.05	9,365.0	49.6	637.0	99.3	13.39	13.38	-1.03
9,493.0	47.95	12.79	9,386.4	71.5	642.0	121.5	9.63	9.61	-0.84
9,524.0	50.40	14.16	9,406.6	94.3	647.5	144.7	8.58	7.90	4.42
9,555.0	52.33	14.40	9,426.0	117.8	653.4	168.6	6.25	6.22	0.78
FTP @ 9555'MD / 9426'TVD									
9,556.0	52.39	14.41	9,426.6	118.5	653.6	169.3	6.25	6.22	0.76
9,587.0	54.41	14.20	9,445.1	142.7	659.8	193.9	6.54	6.52	-0.68
9,619.0	56.95	15.62	9,463.1	168.2	666.6	219.8	8.74	7.94	4.44
9,651.0	59.39	16.38	9,480.0	194.3	674.1	246.5	7.89	7.63	2.38
9,682.0	63.23	18.45	9,494.9	220.3	682.2	273.0	13.70	12.39	6.68
9,713.0	67.46	19.99	9,507.8	246.9	691.5	300.2	14.37	13.65	4.97
9,745.0	70.81	20.08	9,519.2	274.9	701.7	329.0	10.47	10.47	0.28
9,776.0	74.14	18.50	9,528.5	302.8	711.5	357.6	11.79	10.74	-5.10
9,808.0	76.49	16.81	9,536.7	332.3	720.9	387.7	8.95	7.34	-5.28
9,840.0	78.25	15.33	9,543.6	362.3	729.5	418.3	7.11	5.50	-4.63
9,871.0	81.31	14.23	9,549.1	391.8	737.3	448.3	10.47	9.87	-3.55
9,902.0	85.41	12.75	9,552.7	421.8	744.5	478.7	14.05	13.23	-4.77
9,933.0	87.34	11.70	9,554.7	452.0	751.0	509.4	7.08	6.23	-3.39
9,965.0	91.45	14.03	9,555.0	483.2	758.2	541.0	14.76	12.84	7.28
10,002.0	93.91	15.87	9,553.3	518.9	767.7	577.4	8.30	6.65	4.97
10,096.0	91.50	13.54	9,548.9	609.7	791.5	669.8	3.56	-2.56	-2.48
10,190.0	90.69	13.26	9,547.1	701.1	813.3	762.6	0.91	-0.86	-0.30
10,283.0	89.39	11.70	9,547.0	791.9	833.4	854.7	2.18	-1.40	-1.68
10,377.0	87.93	9.82	9,549.2	884.2	851.0	948.1	2.53	-1.55	-2.00
10,472.0	87.23	7.93	9,553.2	978.0	865.6	1,042.8	2.12	-0.74	-1.99
10,566.0	86.76	5.73	9,558.1	1,071.2	876.8	1,136.5	2.39	-0.50	-2.34
10,661.0	87.83	3.51	9,562.6	1,165.8	884.4	1,231.4	2.59	1.13	-2.34
10,754.0	87.90	1.89	9,566.1	1,258.6	888.8	1,324.3	1.74	0.08	-1.74
10,847.0	90.78	1.42	9,567.2	1,351.6	891.5	1,417.2	3.14	3.10	-0.51
10,941.0	91.29	1.15	9,565.5	1,445.5	893.6	1,511.0	0.61	0.54	-0.29
11,035.0	90.95	0.10	9,563.6	1,539.5	894.6	1,604.8	1.17	-0.36	-1.12
11,129.0	91.01	1.70	9,562.0	1,633.5	896.1	1,698.6	1.70	0.06	1.70

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #35H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Site:	ATLAS	MD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Well:	MYOX 21 ST COM #35H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	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)
11,224.0	90.52	358.69	9,560.7	1,728.5	896.4	1,793.3	3.21	-0.52	-3.17
11,315.0	89.08	353.74	9,561.1	1,819.2	890.4	1,883.3	5.66	-1.58	-5.44
11,407.0	88.58	352.18	9,562.9	1,910.5	879.1	1,973.5	1.78	-0.54	-1.70
11,498.0	90.02	354.42	9,564.1	2,000.9	868.5	2,062.7	2.93	1.58	2.46
11,589.0	89.13	354.91	9,564.7	2,091.5	860.0	2,152.4	1.12	-0.98	0.54
11,682.0	89.10	356.75	9,566.2	2,184.2	853.3	2,244.3	1.98	-0.03	1.98
11,773.0	91.15	358.55	9,566.0	2,275.1	849.5	2,334.6	3.00	2.25	1.98
11,864.0	89.56	358.36	9,565.4	2,366.1	847.1	2,425.1	1.76	-1.75	-0.21
11,953.0	88.33	357.55	9,567.0	2,455.0	843.9	2,513.5	1.65	-1.38	-0.91
12,045.0	90.38	358.64	9,568.1	2,547.0	840.9	2,604.9	2.52	2.23	1.18
12,136.0	88.96	0.71	9,568.6	2,637.9	840.3	2,695.6	2.76	-1.56	2.27
12,230.0	89.61	357.82	9,569.8	2,731.9	839.1	2,789.2	3.15	0.69	-3.07
12,324.0	88.05	358.37	9,571.7	2,825.8	836.0	2,882.6	1.76	-1.66	0.59
12,419.0	87.31	358.45	9,575.5	2,920.7	833.4	2,977.0	0.78	-0.78	0.08
12,513.0	88.10	0.91	9,579.3	3,014.6	832.9	3,070.6	2.75	0.84	2.62
12,607.0	88.27	1.24	9,582.3	3,108.6	834.6	3,164.4	0.39	0.18	0.35
12,701.0	88.71	0.79	9,584.8	3,202.5	836.3	3,258.2	0.67	0.47	-0.48
12,794.0	88.28	0.48	9,587.2	3,295.5	837.3	3,350.9	0.57	-0.46	-0.33
12,888.0	90.21	359.84	9,588.4	3,389.5	837.6	3,444.6	2.16	2.05	-0.68
12,980.0	90.32	0.42	9,588.0	3,481.5	837.8	3,536.4	0.64	0.12	0.63
13,074.0	90.53	0.07	9,587.3	3,575.5	838.2	3,630.1	0.43	0.22	-0.37
13,169.0	89.96	0.28	9,586.9	3,670.5	838.5	3,724.8	0.64	-0.60	0.22
13,263.0	90.25	359.85	9,586.7	3,764.5	838.6	3,818.6	0.55	0.31	-0.46
13,357.0	89.07	357.95	9,587.3	3,858.4	836.8	3,912.1	2.38	-1.26	-2.02
13,451.0	88.94	359.70	9,588.9	3,952.4	834.9	4,005.6	1.87	-0.14	1.86
13,545.0	89.39	359.42	9,590.3	4,046.4	834.1	4,099.3	0.56	0.48	-0.30
13,639.0	88.94	358.39	9,591.7	4,140.4	832.3	4,192.8	1.20	-0.48	-1.10
13,734.0	90.13	0.51	9,592.4	4,235.4	831.4	4,287.4	2.56	1.25	2.23
13,827.0	89.64	359.79	9,592.6	4,328.4	831.7	4,380.2	0.94	-0.53	-0.77
13,921.0	88.13	357.59	9,594.5	4,422.3	829.5	4,473.7	2.84	-1.61	-2.34
14,015.0	90.15	0.53	9,595.9	4,516.3	828.0	4,567.2	3.79	2.15	3.13
14,109.0	90.07	359.86	9,595.7	4,610.3	828.3	4,660.9	0.72	-0.09	-0.71
14,203.0	91.36	359.89	9,594.5	4,704.3	828.1	4,754.6	1.37	1.37	0.03
14,295.0	91.29	0.51	9,592.4	4,796.2	828.4	4,846.3	0.68	-0.08	0.67
14,389.0	90.29	1.58	9,591.1	4,890.2	830.1	4,940.2	1.56	-1.06	1.14
14,483.0	89.87	1.31	9,591.0	4,984.2	832.5	5,034.0	0.53	-0.45	-0.29
14,578.0	89.71	0.64	9,591.3	5,079.2	834.1	5,128.9	0.73	-0.17	-0.71
14,671.0	88.88	359.80	9,592.5	5,172.1	834.5	5,221.6	1.27	-0.89	-0.90
14,766.0	89.18	359.05	9,594.1	5,267.1	833.5	5,316.2	0.85	0.32	-0.79
14,861.0	88.74	358.53	9,595.8	5,362.1	831.5	5,410.7	0.72	-0.46	-0.55
14,955.0	87.73	359.20	9,598.7	5,456.0	829.7	5,504.2	1.29	-1.07	0.71
15,049.0	89.68	1.05	9,600.8	5,550.0	829.9	5,597.9	2.86	2.07	1.97
15,144.0	88.33	0.39	9,602.5	5,645.0	831.1	5,692.7	1.58	-1.42	-0.69

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #35H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Site:	ATLAS	MD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Well:	MYOX 21 ST COM #35H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	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)
15,239.0	90.52	0.80	9,603.4	5,740.0	832.0	5,787.5	2.35	2.31	0.43
15,334.0	91.09	359.92	9,602.1	5,834.9	832.6	5,882.2	1.10	0.60	-0.93
15,428.0	90.69	359.20	9,600.6	5,928.9	831.9	5,975.8	0.88	-0.43	-0.77
15,522.0	91.16	359.20	9,599.1	6,022.9	830.6	6,069.4	0.50	0.50	0.00
15,617.0	90.55	358.97	9,597.7	6,117.9	829.1	6,164.0	0.69	-0.64	-0.24
15,712.0	90.75	358.69	9,596.6	6,212.9	827.1	6,258.5	0.36	0.21	-0.29
15,805.0	91.64	0.68	9,594.7	6,305.8	826.6	6,351.2	2.34	0.96	2.14
15,900.0	90.29	357.67	9,593.1	6,400.8	825.3	6,445.7	3.47	-1.42	-3.17
15,994.0	89.75	356.45	9,593.0	6,494.7	820.4	6,539.0	1.42	-0.57	-1.30
16,089.0	87.20	357.71	9,595.6	6,589.5	815.6	6,633.1	2.99	-2.68	1.33
16,183.0	88.84	0.10	9,598.8	6,683.4	813.8	6,726.6	3.08	1.74	2.54
16,278.0	90.56	0.09	9,599.3	6,778.4	814.0	6,821.3	1.81	1.81	-0.01
16,372.0	90.67	0.24	9,598.3	6,872.4	814.2	6,915.0	0.20	0.12	0.16
16,467.0	90.86	0.25	9,597.0	6,967.4	814.6	7,009.8	0.20	0.20	0.01
16,561.0	91.52	0.73	9,595.1	7,061.4	815.5	7,103.5	0.87	0.70	0.51
16,655.0	90.79	0.35	9,593.2	7,155.3	816.3	7,197.3	0.88	-0.78	-0.40
16,749.0	89.25	359.60	9,593.1	7,249.3	816.3	7,291.0	1.82	-1.64	-0.80
16,843.0	86.99	358.03	9,596.2	7,343.3	814.4	7,384.5	2.93	-2.40	-1.67
16,937.0	89.71	358.94	9,598.9	7,437.2	811.9	7,477.9	3.05	2.89	0.97
17,031.0	88.59	358.11	9,600.3	7,531.1	809.5	7,571.4	1.48	-1.19	-0.88
17,125.0	87.48	359.98	9,603.6	7,625.1	807.9	7,664.9	2.31	-1.18	1.99
17,219.0	90.29	359.47	9,605.4	7,719.0	807.4	7,758.5	3.04	2.99	-0.54
17,313.0	89.70	358.18	9,605.4	7,813.0	805.5	7,852.1	1.51	-0.63	-1.37
17,407.0	92.27	357.99	9,603.8	7,906.9	802.4	7,945.5	2.74	2.73	-0.20
17,502.0	92.83	358.75	9,599.5	8,001.8	799.7	8,039.8	0.99	0.59	0.80
17,596.0	91.53	354.31	9,596.0	8,095.5	794.0	8,132.8	4.92	-1.38	-4.72
17,620.0	90.18	351.96	9,595.6	8,119.4	791.1	8,156.4	11.29	-5.63	-9.79
17,659.0	89.51	352.25	9,595.7	8,158.0	785.8	8,194.5	1.87	-1.72	0.74
17,690.0	90.32	354.58	9,595.8	8,188.8	782.2	8,224.9	7.96	2.61	7.52
17,721.0	90.84	357.08	9,595.5	8,219.7	779.9	8,255.5	8.24	1.68	8.06
17,753.0	89.95	358.98	9,595.2	8,251.7	778.8	8,287.3	6.56	-2.78	5.94
17,784.0	89.42	0.38	9,595.4	8,282.7	778.7	8,318.2	4.83	-1.71	4.52
17,878.0	91.15	0.99	9,594.9	8,376.7	779.8	8,412.0	1.95	1.84	0.65
17,973.0	89.13	2.74	9,594.7	8,471.6	782.9	8,506.9	2.81	-2.13	1.84
18,067.0	88.76	3.00	9,596.4	8,565.5	787.6	8,600.8	0.48	-0.39	0.28
18,161.0	88.30	2.90	9,598.8	8,659.3	792.4	8,694.8	0.50	-0.49	-0.11
18,255.0	88.42	3.80	9,601.5	8,753.1	797.9	8,788.7	0.97	0.13	0.96
18,350.0	88.90	359.65	9,603.8	8,848.0	800.8	8,883.6	4.40	0.51	-4.37
18,445.0	89.92	359.88	9,604.7	8,943.0	800.4	8,978.2	1.10	1.07	0.24
18,539.0	89.07	358.71	9,605.6	9,037.0	799.2	9,071.8	1.54	-0.90	-1.24
18,633.0	88.81	356.42	9,607.3	9,130.9	795.2	9,165.1	2.45	-0.28	-2.44
18,727.0	91.98	358.94	9,606.7	9,224.8	791.4	9,258.4	4.31	3.37	2.68
18,821.0	91.44	358.58	9,603.8	9,318.7	789.4	9,351.9	0.69	-0.57	-0.38
18,916.0	91.53	359.72	9,601.4	9,413.7	788.0	9,446.5	1.20	0.09	1.20

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well MYOX 21 ST COM #35H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Site:	ATLAS	MD Reference:	RKB = 2977.1 + 24' @ 3001.6usft (x)
Well:	MYOX 21 ST COM #35H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	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)
19,011.0	91.38	359.66	9,599.0	9,508.7	787.5	9,541.1	0.17	-0.16	-0.06
19,105.0	90.13	0.88	9,597.7	9,602.6	787.9	9,634.9	1.86	-1.33	1.30
19,199.0	89.67	359.88	9,597.9	9,696.6	788.5	9,728.6	1.17	-0.49	-1.06
19,293.0	89.01	358.40	9,599.0	9,790.6	787.1	9,822.2	1.72	-0.70	-1.57
19,388.0	87.53	357.32	9,601.9	9,885.5	783.6	9,916.5	1.93	-1.56	-1.14
19,481.0	88.64	358.09	9,605.0	9,978.4	779.9	10,008.8	1.45	1.19	0.83
19,575.0	90.50	358.96	9,605.7	10,072.3	777.4	10,102.3	2.18	1.98	0.93
19,582.0	90.51	358.94	9,605.6	10,079.3	777.3	10,109.3	0.29	0.14	-0.25
LTP @ 19582'MD / 9605.6									
19,654.0	90.61	358.76	9,604.9	10,151.3	775.9	10,180.9	0.29	0.14	-0.25
Final PHX MWD Svy									
19,712.0	90.61	358.76	9,604.3	10,209.3	774.6	10,238.6	0.00	0.00	0.00
PTD									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,840.0	8,811.0	-155.3	535.1	First PHX MWD Svy
9,555.0	9,426.0	117.8	653.4	FTP @ 9555'MD / 9426'TVD
19,582.0	9,605.6	10,079.3	777.3	LTP @ 19582'MD / 9605.6
19,654.0	9,604.9	10,151.3	775.9	Final PHX MWD Svy
19,712.0	9,604.3	10,209.3	774.6	PTD

Checked By: _____ Approved By: _____ Date: _____