

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
511 S. FIRST ST., ARTESIA, NM 88210
Phone: (575) 746-1283 Fax: (575) 746-9720

DISTRICT III
1000 RIO BRAZOS RD., AZTEC, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45890	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 308269	Property Name WAY SOUTH STATE COM	Well Number 709H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3158.6'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
2	31	26-S	28-E		792	SOUTH	835	WEST	EDDY

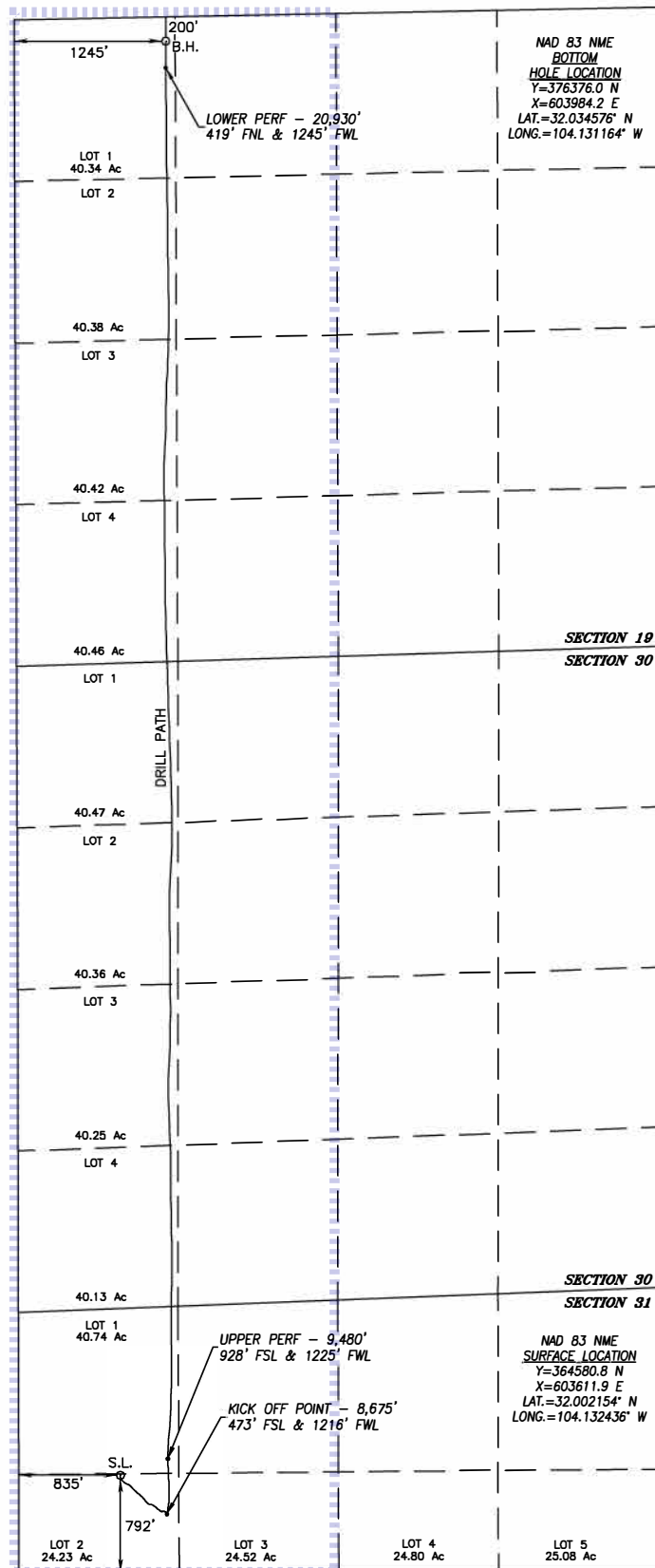
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	19	26-S	28-E		200	NORTH	1245	WEST	EDDY
Dedicated Acres 736.48	Joint or Infill	Consolidation Code	Order No.						

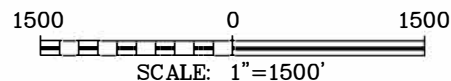
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SEE PAGE 2

Property Code 308269	Property Name WAY SOUTH STATE COM	Well Number 709H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3158.6'



***SURFACE INFO AND BOREPATH SHOWN HEREON
IS BASED ON DIRECTIONAL SURVEY REPORT
PROVIDED BY COG OPERATING, LLC FOR THE
WAY SOUTH STATE COM #709H SUPPLIED TO
HARCROW SURVEYING, LLC ON MARCH 11, 2020***



OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest in the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Amanda Avery 03/19/20
Signature Date

Amanda Avery
Printed Name

aavery@concho.com
E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

FEB. 25, 2019/AUG. 23, 2019

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Chad Harcrow 3/12/20
Certificate No. CHAD HARCROW 17777

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐

Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

NORTHERN DELAWARE BASIN

EDDY COUNTY, NM

ATLAS

WAY SOUTH ST COM #709H

OWB

Design: AWP

Standard Survey Report

08 October, 2019

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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	Latitude:	32° 1' 15.933 N
From:	Map	Easting:	573,599.60 usft	Longitude:	104° 5' 45.086 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.13 °

Well	WAY SOUTH ST COM #709H					
Well Position	+N/-S	0.0 usft	Northing:	364,524.00 usft	Latitude:	32° 0' 7.309 N
	+E/-W	0.0 usft	Easting:	562,427.20 usft	Longitude:	104° 7' 55.011 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,158.6 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM2015	3/25/2019	7.04	59.72	47,549.93742537

Design	AWP				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	1.85	

Survey Program	Date	8/23/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,513.0	GYRO-SURF/INTER (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
8,637.0	21,149.0	MWD-CURVE/LATERAL (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

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)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	1.00	187.16	100.0	-0.9	-0.1	-0.9	1.00	1.00	0.00	
125.0	1.12	180.66	125.0	-1.3	-0.1	-1.3	0.68	0.48	-26.00	
150.0	1.24	174.44	150.0	-1.8	-0.1	-1.8	0.70	0.48	-24.88	
175.0	1.32	174.48	175.0	-2.4	-0.1	-2.4	0.32	0.32	0.16	
200.0	1.39	170.92	200.0	-3.0	0.0	-3.0	0.44	0.28	-14.24	
225.0	1.40	174.29	225.0	-3.6	0.1	-3.6	0.33	0.04	13.48	
250.0	1.37	177.37	250.0	-4.2	0.1	-4.2	0.32	-0.12	12.32	

Survey Report

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Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)	
275.0	1.27	186.27	275.0	-4.8	0.1	-4.8	0.91	-0.40	35.60	
300.0	1.23	194.62	299.9	-5.3	0.0	-5.3	0.75	-0.16	33.40	
325.0	1.17	203.89	324.9	-5.8	-0.1	-5.8	0.81	-0.24	37.08	
350.0	1.24	205.30	349.9	-6.3	-0.4	-6.3	0.30	0.28	5.64	
375.0	1.20	208.45	374.9	-6.7	-0.6	-6.8	0.31	-0.16	12.60	
400.0	1.16	209.66	399.9	-7.2	-0.9	-7.2	0.19	-0.16	4.84	
425.0	1.13	208.92	424.9	-7.6	-1.1	-7.7	0.13	-0.12	-2.96	
450.0	1.00	209.19	449.9	-8.0	-1.3	-8.1	0.52	-0.52	1.08	
475.0	1.04	202.63	474.9	-8.4	-1.5	-8.5	0.49	0.16	-26.24	
500.0	1.01	197.54	499.9	-8.9	-1.7	-8.9	0.38	-0.12	-20.36	
525.0	0.87	199.57	524.9	-9.2	-1.8	-9.3	0.58	-0.56	8.12	
550.0	0.86	195.62	549.9	-9.6	-1.9	-9.7	0.24	-0.04	-15.80	
575.0	0.85	187.01	574.9	-10.0	-2.0	-10.0	0.51	-0.04	-34.44	
600.0	0.76	181.85	599.9	-10.3	-2.0	-10.4	0.46	-0.36	-20.64	
625.0	0.79	181.48	624.9	-10.7	-2.0	-10.7	0.12	0.12	-1.48	
650.0	0.70	180.03	649.9	-11.0	-2.0	-11.0	0.37	-0.36	-5.80	
675.0	0.78	179.60	674.9	-11.3	-2.0	-11.4	0.32	0.32	-1.72	
700.0	0.76	180.76	699.9	-11.6	-2.0	-11.7	0.10	-0.08	4.64	
725.0	0.79	178.46	724.9	-12.0	-2.0	-12.0	0.17	0.12	-9.20	
750.0	0.79	179.24	749.9	-12.3	-2.0	-12.4	0.04	0.00	3.12	
775.0	0.79	179.76	774.9	-12.7	-2.0	-12.7	0.03	0.00	2.08	
800.0	0.79	171.92	799.9	-13.0	-2.0	-13.1	0.43	0.00	-31.36	
825.0	0.88	167.09	824.9	-13.4	-1.9	-13.4	0.46	0.36	-19.32	
850.0	0.90	166.04	849.9	-13.7	-1.8	-13.8	0.10	0.08	-4.20	
875.0	0.89	162.59	874.9	-14.1	-1.7	-14.2	0.22	-0.04	-13.80	
900.0	1.04	159.94	899.9	-14.5	-1.6	-14.6	0.63	0.60	-10.60	
925.0	1.05	161.75	924.9	-14.9	-1.4	-15.0	0.14	0.04	7.24	
950.0	1.06	158.81	949.9	-15.4	-1.3	-15.4	0.22	0.04	-11.76	
975.0	1.14	151.98	974.9	-15.8	-1.1	-15.8	0.61	0.32	-27.32	
1,000.0	1.11	154.06	999.8	-16.3	-0.9	-16.3	0.20	-0.12	8.32	
1,025.0	1.08	154.54	1,024.8	-16.7	-0.7	-16.7	0.13	-0.12	1.92	
1,050.0	1.06	157.00	1,049.8	-17.1	-0.5	-17.1	0.20	-0.08	9.84	
1,075.0	1.09	152.04	1,074.8	-17.5	-0.3	-17.5	0.39	0.12	-19.84	
1,100.0	1.17	150.40	1,099.8	-18.0	0.0	-18.0	0.35	0.32	-6.56	
1,125.0	1.28	144.52	1,124.8	-18.4	0.3	-18.4	0.67	0.44	-23.52	
1,150.0	1.07	138.82	1,149.8	-18.8	0.6	-18.8	0.96	-0.84	-22.80	
1,175.0	1.28	137.36	1,174.8	-19.2	0.9	-19.2	0.85	0.84	-5.84	
1,200.0	1.46	134.92	1,199.8	-19.6	1.3	-19.6	0.76	0.72	-9.76	
1,225.0	1.53	133.96	1,224.8	-20.1	1.8	-20.0	0.30	0.28	-3.84	
1,250.0	1.54	134.79	1,249.8	-20.6	2.3	-20.5	0.10	0.04	3.32	
1,275.0	1.51	136.35	1,274.8	-21.0	2.7	-20.9	0.20	-0.12	6.24	
1,300.0	1.40	139.78	1,299.8	-21.5	3.2	-21.4	0.56	-0.44	13.72	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)
1,325.0	1.59	135.34	1,324.8	-22.0	3.6	-21.9	0.89	0.76	-17.76
1,350.0	2.35	144.82	1,349.7	-22.6	4.1	-22.5	3.30	3.04	37.92
1,375.0	3.59	153.29	1,374.7	-23.8	4.8	-23.6	5.25	4.96	33.88
1,400.0	4.15	153.39	1,399.7	-25.3	5.5	-25.1	2.24	2.24	0.40
1,425.0	4.45	153.55	1,424.6	-26.9	6.4	-26.7	1.20	1.20	0.64
1,450.0	4.34	154.84	1,449.5	-28.7	7.2	-28.4	0.59	-0.44	5.16
1,475.0	4.37	154.48	1,474.4	-30.4	8.0	-30.1	0.16	0.12	-1.44
1,500.0	4.35	153.62	1,499.4	-32.1	8.9	-31.8	0.27	-0.08	-3.44
1,525.0	4.33	152.36	1,524.3	-33.8	9.7	-33.5	0.39	-0.08	-5.04
1,550.0	4.28	151.42	1,549.2	-35.4	10.6	-35.1	0.35	-0.20	-3.76
1,575.0	4.28	150.59	1,574.2	-37.1	11.5	-36.7	0.25	0.00	-3.32
1,600.0	4.47	150.61	1,599.1	-38.7	12.4	-38.3	0.76	0.76	0.08
1,625.0	4.39	148.05	1,624.0	-40.4	13.4	-39.9	0.85	-0.32	-10.24
1,650.0	4.37	146.43	1,648.9	-42.0	14.5	-41.5	0.50	-0.08	-6.48
1,675.0	4.43	144.60	1,673.9	-43.6	15.6	-43.1	0.61	0.24	-7.32
1,700.0	4.52	142.28	1,698.8	-45.1	16.7	-44.6	0.81	0.36	-9.28
1,725.0	4.63	138.34	1,723.7	-46.7	18.0	-46.1	1.33	0.44	-15.76
1,750.0	4.69	136.13	1,748.6	-48.2	19.4	-47.5	0.76	0.24	-8.84
1,775.0	4.89	135.94	1,773.5	-49.7	20.8	-49.0	0.80	0.80	-0.76
1,800.0	4.98	134.77	1,798.4	-51.2	22.3	-50.5	0.54	0.36	-4.68
1,825.0	5.11	133.77	1,823.3	-52.7	23.9	-51.9	0.63	0.52	-4.00
1,850.0	5.01	131.78	1,848.2	-54.2	25.5	-53.4	0.81	-0.40	-7.96
1,875.0	4.92	130.22	1,873.2	-55.7	27.2	-54.7	0.65	-0.36	-6.24
1,900.0	5.03	128.60	1,898.1	-57.0	28.8	-56.1	0.71	0.44	-6.48
1,925.0	5.18	127.42	1,923.0	-58.4	30.6	-57.4	0.73	0.60	-4.72
1,950.0	5.24	126.59	1,947.9	-59.8	32.4	-58.7	0.39	0.24	-3.32
1,975.0	5.39	124.27	1,972.8	-61.1	34.3	-60.0	1.05	0.60	-9.28
2,000.0	5.62	121.90	1,997.6	-62.4	36.3	-61.2	1.29	0.92	-9.48
2,025.0	5.97	120.33	2,022.5	-63.7	38.4	-62.4	1.54	1.40	-6.28
2,050.0	6.23	119.54	2,047.4	-65.0	40.8	-63.7	1.09	1.04	-3.16
2,075.0	6.50	118.09	2,072.2	-66.4	43.2	-64.9	1.26	1.08	-5.80
2,100.0	6.80	116.81	2,097.0	-67.7	45.7	-66.2	1.34	1.20	-5.12
2,125.0	7.00	116.28	2,121.9	-69.1	48.4	-67.5	0.84	0.80	-2.12
2,150.0	6.97	115.74	2,146.7	-70.4	51.2	-68.7	0.29	-0.12	-2.16
2,175.0	7.02	115.45	2,171.5	-71.7	53.9	-69.9	0.24	0.20	-1.16
2,200.0	7.08	114.72	2,196.3	-73.0	56.7	-71.1	0.43	0.24	-2.92
2,225.0	7.02	113.81	2,221.1	-74.3	59.5	-72.3	0.51	-0.24	-3.64
2,250.0	7.14	113.36	2,245.9	-75.5	62.3	-73.4	0.53	0.48	-1.80
2,275.0	7.01	113.81	2,270.7	-76.7	65.1	-74.6	0.57	-0.52	1.80
2,300.0	6.85	112.90	2,295.5	-77.9	67.9	-75.7	0.78	-0.64	-3.64
2,325.0	6.56	113.91	2,320.4	-79.1	70.6	-76.8	1.25	-1.16	4.04
2,350.0	5.92	118.13	2,345.2	-80.3	73.0	-77.9	3.15	-2.56	16.88

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)
2,375.0	5.33	126.79	2,370.1	-81.6	75.1	-79.1	4.13	-2.36	34.64
2,400.0	4.94	132.85	2,395.0	-83.0	76.8	-80.5	2.67	-1.56	24.24
2,425.0	4.82	134.70	2,419.9	-84.5	78.3	-81.9	0.79	-0.48	7.40
2,450.0	4.83	136.71	2,444.8	-86.0	79.8	-83.3	0.68	0.04	8.04
2,475.0	4.84	134.45	2,469.7	-87.5	81.3	-84.8	0.76	0.04	-9.04
2,500.0	4.76	135.86	2,494.7	-89.0	82.8	-86.2	0.57	-0.32	5.64
2,525.0	4.83	136.37	2,519.6	-90.5	84.2	-87.7	0.33	0.28	2.04
2,550.0	4.83	136.36	2,544.5	-92.0	85.7	-89.2	0.00	0.00	-0.04
2,575.0	4.86	135.85	2,569.4	-93.5	87.1	-90.6	0.21	0.12	-2.04
2,600.0	4.79	136.57	2,594.3	-95.0	88.6	-92.1	0.37	-0.28	2.88
2,625.0	4.81	136.50	2,619.2	-96.6	90.0	-93.6	0.08	0.08	-0.28
2,650.0	4.71	136.27	2,644.1	-98.1	91.5	-95.0	0.41	-0.40	-0.92
2,675.0	4.65	137.34	2,669.0	-99.5	92.9	-96.5	0.42	-0.24	4.28
2,700.0	4.71	138.03	2,694.0	-101.1	94.2	-97.9	0.33	0.24	2.76
2,725.0	4.72	137.99	2,718.9	-102.6	95.6	-99.4	0.04	0.04	-0.16
2,750.0	4.59	138.26	2,743.8	-104.1	97.0	-100.9	0.53	-0.52	1.08
2,775.0	4.58	138.28	2,768.7	-105.6	98.3	-102.3	0.04	-0.04	0.08
2,800.0	4.49	138.90	2,793.6	-107.1	99.6	-103.8	0.41	-0.36	2.48
2,825.0	4.73	139.57	2,818.6	-108.6	100.9	-105.3	0.98	0.96	2.68
2,850.0	4.74	139.38	2,843.5	-110.2	102.2	-106.8	0.07	0.04	-0.76
2,875.0	4.73	138.32	2,868.4	-111.7	103.6	-108.3	0.35	-0.04	-4.24
2,900.0	4.68	137.90	2,893.3	-113.2	105.0	-109.8	0.24	-0.20	-1.68
2,925.0	4.63	136.39	2,918.2	-114.7	106.4	-111.2	0.53	-0.20	-6.04
2,950.0	4.72	135.25	2,943.1	-116.2	107.8	-112.6	0.52	0.36	-4.56
2,975.0	4.79	133.57	2,968.0	-117.6	109.3	-114.0	0.62	0.28	-6.72
3,000.0	4.81	132.45	2,993.0	-119.1	110.8	-115.4	0.38	0.08	-4.48
3,025.0	4.78	132.62	3,017.9	-120.5	112.3	-116.8	0.13	-0.12	0.68
3,050.0	4.76	132.44	3,042.8	-121.9	113.9	-118.1	0.10	-0.08	-0.72
3,075.0	4.75	132.95	3,067.7	-123.3	115.4	-119.5	0.17	-0.04	2.04
3,100.0	4.83	131.67	3,092.6	-124.7	116.9	-120.8	0.53	0.32	-5.12
3,125.0	4.68	131.91	3,117.5	-126.1	118.5	-122.2	0.61	-0.60	0.96
3,150.0	4.65	131.84	3,142.4	-127.4	120.0	-123.5	0.12	-0.12	-0.28
3,175.0	4.43	130.91	3,167.4	-128.7	121.5	-124.7	0.93	-0.88	-3.72
3,200.0	4.29	130.68	3,192.3	-130.0	122.9	-125.9	0.56	-0.56	-0.92
3,225.0	4.34	131.03	3,217.2	-131.2	124.3	-127.1	0.23	0.20	1.40
3,250.0	4.19	130.90	3,242.2	-132.4	125.7	-128.3	0.60	-0.60	-0.52
3,275.0	4.01	131.32	3,267.1	-133.6	127.1	-129.4	0.73	-0.72	1.68
3,300.0	3.79	131.28	3,292.0	-134.7	128.4	-130.5	0.88	-0.88	-0.16
3,325.0	3.83	131.32	3,317.0	-135.8	129.6	-131.6	0.16	0.16	0.16
3,350.0	3.89	131.58	3,341.9	-136.9	130.9	-132.6	0.25	0.24	1.04
3,375.0	3.68	131.28	3,366.9	-138.0	132.1	-133.7	0.84	-0.84	-1.20
3,400.0	3.57	132.29	3,391.8	-139.1	133.3	-134.7	0.51	-0.44	4.04

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)
3,425.0	3.54	132.04	3,416.8	-140.1	134.4	-135.7	0.14	-0.12	-1.00
3,450.0	3.59	132.21	3,441.7	-141.2	135.6	-136.7	0.20	0.20	0.68
3,475.0	3.56	132.16	3,466.7	-142.2	136.7	-137.7	0.12	-0.12	-0.20
3,500.0	3.56	131.50	3,491.6	-143.2	137.9	-138.7	0.16	0.00	-2.64
3,525.0	3.53	132.51	3,516.6	-144.3	139.0	-139.7	0.28	-0.12	4.04
3,550.0	3.61	132.29	3,541.5	-145.3	140.2	-140.7	0.32	0.32	-0.88
3,575.0	3.71	130.52	3,566.5	-146.4	141.4	-141.7	0.60	0.40	-7.08
3,600.0	3.80	127.91	3,591.4	-147.4	142.7	-142.7	0.77	0.36	-10.44
3,625.0	3.78	127.34	3,616.4	-148.4	144.0	-143.7	0.17	-0.08	-2.28
3,650.0	3.69	126.96	3,641.3	-149.4	145.3	-144.6	0.37	-0.36	-1.52
3,675.0	3.83	127.79	3,666.3	-150.4	146.6	-145.6	0.60	0.56	3.32
3,700.0	3.84	127.88	3,691.2	-151.4	147.9	-146.6	0.05	0.04	0.36
3,725.0	3.86	128.10	3,716.1	-152.5	149.2	-147.6	0.10	0.08	0.88
3,750.0	3.81	127.27	3,741.1	-153.5	150.5	-148.5	0.30	-0.20	-3.32
3,775.0	3.83	127.90	3,766.0	-154.5	151.9	-149.5	0.19	0.08	2.52
3,800.0	3.73	127.72	3,791.0	-155.5	153.2	-150.5	0.40	-0.40	-0.72
3,825.0	3.90	128.89	3,815.9	-156.5	154.5	-151.5	0.75	0.68	4.68
3,850.0	3.83	129.81	3,840.9	-157.6	155.8	-152.5	0.37	-0.28	3.68
3,875.0	3.87	128.15	3,865.8	-158.7	157.1	-153.5	0.47	0.16	-6.64
3,900.0	3.93	128.96	3,890.8	-159.7	158.4	-154.5	0.33	0.24	3.24
3,925.0	3.96	129.87	3,915.7	-160.8	159.7	-155.6	0.28	0.12	3.64
3,950.0	4.06	130.71	3,940.6	-161.9	161.1	-156.7	0.46	0.40	3.36
3,975.0	4.26	131.88	3,965.6	-163.1	162.4	-157.8	0.87	0.80	4.68
4,000.0	4.13	131.80	3,990.5	-164.4	163.8	-159.0	0.52	-0.52	-0.32
4,025.0	4.21	131.56	4,015.4	-165.6	165.1	-160.1	0.33	0.32	-0.96
4,050.0	4.08	131.63	4,040.4	-166.8	166.5	-161.3	0.52	-0.52	0.28
4,075.0	4.22	131.49	4,065.3	-168.0	167.8	-162.5	0.56	0.56	-0.56
4,100.0	4.28	131.80	4,090.2	-169.2	169.2	-163.6	0.26	0.24	1.24
4,125.0	4.31	131.70	4,115.2	-170.5	170.6	-164.8	0.12	0.12	-0.40
4,150.0	4.33	131.71	4,140.1	-171.7	172.0	-166.0	0.08	0.08	0.04
4,175.0	4.19	131.00	4,165.0	-172.9	173.4	-167.2	0.60	-0.56	-2.84
4,200.0	4.36	132.01	4,190.0	-174.2	174.8	-168.4	0.74	0.68	4.04
4,225.0	4.41	131.57	4,214.9	-175.4	176.2	-169.6	0.24	0.20	-1.76
4,250.0	4.44	132.19	4,239.8	-176.7	177.7	-170.9	0.23	0.12	2.48
4,275.0	4.41	132.93	4,264.7	-178.0	179.1	-172.1	0.26	-0.12	2.96
4,300.0	4.34	133.52	4,289.7	-179.3	180.5	-173.4	0.33	-0.28	2.36
4,325.0	4.44	135.43	4,314.6	-180.7	181.9	-174.7	0.71	0.40	7.64
4,350.0	4.44	138.35	4,339.5	-182.1	183.2	-176.1	0.90	0.00	11.68
4,375.0	4.43	138.65	4,364.4	-183.5	184.5	-177.5	0.10	-0.04	1.20
4,400.0	4.34	139.32	4,389.4	-185.0	185.7	-178.9	0.41	-0.36	2.68
4,425.0	4.38	139.87	4,414.3	-186.4	187.0	-180.3	0.23	0.16	2.20
4,450.0	4.52	140.93	4,439.2	-187.9	188.2	-181.7	0.65	0.56	4.24

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)
4,475.0	4.46	140.58	4,464.1	-189.4	189.4	-183.2	0.26	-0.24	-1.40
4,500.0	4.64	140.17	4,489.1	-191.0	190.7	-184.7	0.73	0.72	-1.64
4,525.0	4.78	138.97	4,514.0	-192.5	192.0	-186.2	0.68	0.56	-4.80
4,550.0	4.73	138.49	4,538.9	-194.1	193.4	-187.7	0.26	-0.20	-1.92
4,575.0	4.96	138.89	4,563.8	-195.7	194.8	-189.3	0.93	0.92	1.60
4,600.0	4.94	138.57	4,588.7	-197.3	196.2	-190.8	0.14	-0.08	-1.28
4,625.0	4.99	140.78	4,613.6	-198.9	197.6	-192.4	0.79	0.20	8.84
4,650.0	4.91	142.29	4,638.5	-200.6	198.9	-194.1	0.61	-0.32	6.04
4,675.0	4.91	142.94	4,663.4	-202.3	200.2	-195.7	0.22	0.00	2.60
4,700.0	4.92	142.46	4,688.3	-204.0	201.5	-197.4	0.17	0.04	-1.92
4,725.0	5.01	143.26	4,713.2	-205.8	202.9	-199.1	0.45	0.36	3.20
4,750.0	4.88	143.38	4,738.1	-207.5	204.1	-200.8	0.52	-0.52	0.48
4,775.0	5.00	144.26	4,763.1	-209.2	205.4	-202.5	0.57	0.48	3.52
4,800.0	4.86	142.96	4,788.0	-211.0	206.7	-204.2	0.72	-0.56	-5.20
4,825.0	4.67	142.33	4,812.9	-212.6	207.9	-205.8	0.79	-0.76	-2.52
4,850.0	4.57	141.81	4,837.8	-214.2	209.2	-207.3	0.43	-0.40	-2.08
4,875.0	4.55	141.17	4,862.7	-215.8	210.4	-208.8	0.22	-0.08	-2.56
4,900.0	4.71	141.01	4,887.6	-217.3	211.7	-210.4	0.64	0.64	-0.64
4,925.0	4.77	140.51	4,912.5	-218.9	213.0	-211.9	0.29	0.24	-2.00
4,950.0	4.58	139.33	4,937.5	-220.5	214.3	-213.4	0.85	-0.76	-4.72
4,975.0	4.43	136.57	4,962.4	-221.9	215.6	-214.8	1.05	-0.60	-11.04
5,000.0	4.20	132.23	4,987.3	-223.3	217.0	-216.1	1.60	-0.92	-17.36
5,025.0	4.28	132.15	5,012.2	-224.5	218.3	-217.3	0.32	0.32	-0.32
5,050.0	4.17	131.99	5,037.2	-225.7	219.7	-218.5	0.44	-0.44	-0.64
5,075.0	4.17	131.72	5,062.1	-226.9	221.0	-219.7	0.08	0.00	-1.08
5,100.0	3.95	131.71	5,087.1	-228.1	222.4	-220.8	0.88	-0.88	-0.04
5,125.0	3.84	132.36	5,112.0	-229.3	223.6	-221.9	0.47	-0.44	2.60
5,150.0	3.66	132.80	5,136.9	-230.4	224.8	-223.0	0.73	-0.72	1.76
5,175.0	3.68	133.37	5,161.9	-231.5	226.0	-224.0	0.17	0.08	2.28
5,200.0	3.67	133.46	5,186.8	-232.6	227.2	-225.1	0.05	-0.04	0.36
5,225.0	3.59	130.93	5,211.8	-233.6	228.3	-226.1	0.72	-0.32	-10.12
5,250.0	3.26	126.05	5,236.7	-234.6	229.5	-227.0	1.76	-1.32	-19.52
5,275.0	2.96	111.07	5,261.7	-235.2	230.7	-227.6	3.45	-1.20	-59.92
5,300.0	2.84	101.09	5,286.7	-235.6	231.9	-227.9	2.07	-0.48	-39.92
5,325.0	2.84	97.18	5,311.6	-235.8	233.1	-228.1	0.77	0.00	-15.64
5,350.0	2.95	95.12	5,336.6	-235.9	234.4	-228.2	0.61	0.44	-8.24
5,375.0	2.99	95.52	5,361.6	-236.0	235.7	-228.3	0.18	0.16	1.60
5,400.0	3.03	95.52	5,386.5	-236.1	237.0	-228.3	0.16	0.16	0.00
5,425.0	2.96	93.19	5,411.5	-236.2	238.3	-228.4	0.56	-0.28	-9.32
5,450.0	3.41	96.53	5,436.5	-236.4	239.7	-228.5	1.95	1.80	13.36
5,475.0	3.98	99.20	5,461.4	-236.6	241.2	-228.6	2.38	2.28	10.68
5,500.0	4.36	100.33	5,486.4	-236.9	243.0	-228.9	1.56	1.52	4.52

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)
5,525.0	4.61	101.99	5,511.3	-237.3	245.0	-229.2	1.13	1.00	6.64
5,550.0	5.66	105.53	5,536.2	-237.8	247.1	-229.7	4.39	4.20	14.16
5,575.0	6.44	109.57	5,561.0	-238.6	249.6	-230.4	3.55	3.12	16.16
5,600.0	6.90	110.93	5,585.9	-239.6	252.4	-231.3	1.95	1.84	5.44
5,625.0	7.01	111.58	5,610.7	-240.7	255.2	-232.3	0.54	0.44	2.60
5,650.0	6.99	111.45	5,635.5	-241.8	258.0	-233.3	0.10	-0.08	-0.52
5,675.0	6.87	112.21	5,660.3	-242.9	260.8	-234.4	0.60	-0.48	3.04
5,700.0	6.96	113.25	5,685.1	-244.1	263.6	-235.5	0.62	0.36	4.16
5,725.0	7.01	114.83	5,709.9	-245.3	266.4	-236.6	0.79	0.20	6.32
5,750.0	7.00	119.47	5,734.8	-246.7	269.1	-237.9	2.26	-0.04	18.56
5,775.0	6.81	122.82	5,759.6	-248.3	271.7	-239.4	1.78	-0.76	13.40
5,800.0	6.89	123.00	5,784.4	-249.9	274.2	-240.9	0.33	0.32	0.72
5,825.0	6.86	123.55	5,809.2	-251.6	276.7	-242.5	0.29	-0.12	2.20
5,850.0	6.92	124.43	5,834.0	-253.2	279.1	-244.1	0.49	0.24	3.52
5,875.0	6.72	125.34	5,858.9	-254.9	281.6	-245.7	0.91	-0.80	3.64
5,900.0	6.46	125.93	5,883.7	-256.6	283.9	-247.3	1.07	-1.04	2.36
5,925.0	6.09	129.27	5,908.5	-258.3	286.1	-248.9	2.08	-1.48	13.36
5,950.0	5.80	132.51	5,933.4	-260.0	288.0	-250.5	1.77	-1.16	12.96
5,975.0	5.66	135.13	5,958.3	-261.7	289.8	-252.2	1.19	-0.56	10.48
6,000.0	5.59	136.55	5,983.2	-263.4	291.5	-253.9	0.62	-0.28	5.68
6,025.0	5.55	137.16	6,008.1	-265.2	293.2	-255.6	0.29	-0.16	2.44
6,050.0	5.51	137.28	6,032.9	-267.0	294.8	-257.3	0.17	-0.16	0.48
6,075.0	5.31	136.90	6,057.8	-268.7	296.4	-259.0	0.81	-0.80	-1.52
6,100.0	5.27	133.89	6,082.7	-270.3	298.1	-260.6	1.12	-0.16	-12.04
6,125.0	5.22	128.69	6,107.6	-271.9	299.8	-262.0	1.91	-0.20	-20.80
6,150.0	4.99	127.61	6,132.5	-273.2	301.5	-263.3	1.00	-0.92	-4.32
6,175.0	5.09	126.19	6,157.4	-274.5	303.3	-264.6	0.64	0.40	-5.68
6,200.0	5.26	126.05	6,182.3	-275.9	305.1	-265.9	0.68	0.68	-0.56
6,225.0	5.35	125.47	6,207.2	-277.2	307.0	-267.1	0.42	0.36	-2.32
6,250.0	5.30	125.50	6,232.1	-278.6	308.9	-268.4	0.20	-0.20	0.12
6,275.0	5.39	125.69	6,257.0	-279.9	310.8	-269.7	0.37	0.36	0.76
6,300.0	5.42	125.85	6,281.9	-281.3	312.7	-271.0	0.13	0.12	0.64
6,325.0	5.40	125.67	6,306.8	-282.7	314.6	-272.4	0.10	-0.08	-0.72
6,350.0	5.36	125.76	6,331.7	-284.1	316.5	-273.7	0.16	-0.16	0.36
6,375.0	5.21	125.02	6,356.6	-285.4	318.4	-274.9	0.66	-0.60	-2.96
6,400.0	4.95	124.42	6,381.5	-286.6	320.2	-276.1	1.06	-1.04	-2.40
6,425.0	4.66	124.57	6,406.4	-287.8	321.9	-277.3	1.16	-1.16	0.60
6,450.0	4.58	123.98	6,431.3	-289.0	323.6	-278.3	0.37	-0.32	-2.36
6,475.0	4.34	123.03	6,456.2	-290.0	325.2	-279.4	1.00	-0.96	-3.80
6,500.0	4.00	124.19	6,481.1	-291.0	326.7	-280.3	1.40	-1.36	4.64
6,525.0	3.90	123.15	6,506.1	-292.0	328.1	-281.2	0.49	-0.40	-4.16
6,550.0	3.67	121.36	6,531.0	-292.9	329.5	-282.1	1.03	-0.92	-7.16

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)
6,575.0	3.44	122.03	6,556.0	-293.7	330.9	-282.8	0.93	-0.92	2.68
6,600.0	3.20	122.85	6,580.9	-294.5	332.1	-283.6	0.98	-0.96	3.28
6,625.0	2.99	120.04	6,605.9	-295.2	333.2	-284.2	1.04	-0.84	-11.24
6,650.0	2.76	121.99	6,630.9	-295.8	334.3	-284.8	1.00	-0.92	7.80
6,675.0	2.70	127.74	6,655.8	-296.5	335.3	-285.5	1.12	-0.24	23.00
6,700.0	2.52	121.26	6,680.8	-297.1	336.2	-286.1	1.38	-0.72	-25.92
6,725.0	2.33	118.55	6,705.8	-297.7	337.1	-286.6	0.89	-0.76	-10.84
6,750.0	2.06	114.15	6,730.8	-298.1	338.0	-287.0	1.27	-1.08	-17.60
6,775.0	1.77	105.83	6,755.8	-298.4	338.8	-287.3	1.60	-1.16	-33.28
6,800.0	1.47	97.24	6,780.8	-298.5	339.5	-287.4	1.54	-1.20	-34.36
6,825.0	1.25	82.98	6,805.7	-298.5	340.0	-287.4	1.61	-0.88	-57.04
6,850.0	1.13	68.20	6,830.7	-298.4	340.5	-287.2	1.31	-0.48	-59.12
6,875.0	1.17	51.60	6,855.7	-298.2	341.0	-287.0	1.34	0.16	-66.40
6,900.0	1.40	33.03	6,880.7	-297.8	341.3	-286.6	1.89	0.92	-74.28
6,925.0	1.53	27.92	6,905.7	-297.2	341.7	-286.0	0.74	0.52	-20.44
6,950.0	1.69	27.07	6,930.7	-296.6	342.0	-285.4	0.65	0.64	-3.40
6,975.0	1.66	24.44	6,955.7	-295.9	342.3	-284.7	0.33	-0.12	-10.52
7,000.0	1.66	24.81	6,980.7	-295.3	342.6	-284.0	0.04	0.00	1.48
7,025.0	1.58	25.07	7,005.7	-294.6	342.9	-283.4	0.32	-0.32	1.04
7,050.0	1.38	37.01	7,030.7	-294.1	343.2	-282.8	1.47	-0.80	47.76
7,075.0	1.32	50.05	7,055.7	-293.6	343.6	-282.4	1.25	-0.24	52.16
7,100.0	1.35	60.23	7,080.7	-293.3	344.1	-282.0	0.95	0.12	40.72
7,125.0	1.56	69.54	7,105.6	-293.0	344.7	-281.7	1.26	0.84	37.24
7,150.0	1.70	82.06	7,130.6	-292.9	345.4	-281.5	1.53	0.56	50.08
7,175.0	1.74	83.80	7,155.6	-292.8	346.1	-281.4	0.26	0.16	6.96
7,200.0	1.63	88.45	7,180.6	-292.7	346.9	-281.4	0.70	-0.44	18.60
7,225.0	1.87	87.78	7,205.6	-292.7	347.6	-281.3	0.96	0.96	-2.68
7,250.0	1.91	91.34	7,230.6	-292.7	348.4	-281.3	0.50	0.16	14.24
7,275.0	1.87	96.11	7,255.6	-292.8	349.3	-281.3	0.65	-0.16	19.08
7,300.0	2.04	95.37	7,280.6	-292.8	350.1	-281.4	0.69	0.68	-2.96
7,325.0	2.07	98.37	7,305.5	-292.9	351.0	-281.4	0.45	0.12	12.00
7,350.0	1.96	98.76	7,330.5	-293.1	351.9	-281.5	0.44	-0.44	1.56
7,375.0	2.01	98.17	7,355.5	-293.2	352.7	-281.6	0.22	0.20	-2.36
7,400.0	1.96	103.63	7,380.5	-293.4	353.6	-281.8	0.78	-0.20	21.84
7,425.0	1.89	103.37	7,405.5	-293.6	354.4	-281.9	0.28	-0.28	-1.04
7,450.0	1.89	105.84	7,430.5	-293.8	355.2	-282.1	0.33	0.00	9.88
7,475.0	1.83	104.56	7,455.5	-294.0	356.0	-282.3	0.29	-0.24	-5.12
7,500.0	1.72	106.41	7,480.4	-294.2	356.7	-282.5	0.50	-0.44	7.40
7,525.0	1.76	104.30	7,505.4	-294.4	357.4	-282.7	0.30	0.16	-8.44
7,550.0	1.70	107.19	7,530.4	-294.6	358.2	-282.9	0.42	-0.24	11.56
7,575.0	1.63	108.46	7,555.4	-294.8	358.9	-283.1	0.32	-0.28	5.08
7,600.0	1.62	108.00	7,580.4	-295.0	359.5	-283.3	0.07	-0.04	-1.84

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)
7,625.0	1.70	114.05	7,605.4	-295.3	360.2	-283.5	0.77	0.32	24.20
7,650.0	1.70	112.77	7,630.4	-295.6	360.9	-283.8	0.15	0.00	-5.12
7,675.0	1.79	115.60	7,655.4	-295.9	361.6	-284.1	0.50	0.36	11.32
7,700.0	1.75	118.66	7,680.4	-296.3	362.3	-284.4	0.41	-0.16	12.24
7,725.0	1.83	120.82	7,705.3	-296.7	363.0	-284.7	0.42	0.32	8.64
7,750.0	1.87	124.25	7,730.3	-297.1	363.6	-285.2	0.47	0.16	13.72
7,775.0	1.85	124.14	7,755.3	-297.5	364.3	-285.6	0.08	-0.08	-0.44
7,800.0	1.91	124.37	7,780.3	-298.0	365.0	-286.0	0.24	0.24	0.92
7,825.0	1.93	124.47	7,805.3	-298.5	365.7	-286.5	0.08	0.08	0.40
7,850.0	1.91	128.01	7,830.3	-299.0	366.3	-287.0	0.48	-0.08	14.16
7,875.0	1.79	129.91	7,855.3	-299.5	367.0	-287.4	0.54	-0.48	7.60
7,900.0	1.99	130.22	7,880.3	-300.0	367.6	-288.0	0.80	0.80	1.24
7,925.0	1.79	130.41	7,905.2	-300.5	368.2	-288.5	0.80	-0.80	0.76
7,950.0	1.93	130.32	7,930.2	-301.1	368.9	-289.0	0.56	0.56	-0.36
7,975.0	1.96	128.83	7,955.2	-301.6	369.5	-289.5	0.24	0.12	-5.96
8,000.0	1.97	131.23	7,980.2	-302.2	370.2	-290.0	0.33	0.04	9.60
8,025.0	2.12	132.73	8,005.2	-302.8	370.8	-290.6	0.64	0.60	6.00
8,050.0	1.88	130.69	8,030.2	-303.3	371.5	-291.2	1.00	-0.96	-8.16
8,075.0	1.86	135.47	8,055.2	-303.9	372.1	-291.7	0.63	-0.08	19.12
8,100.0	1.90	134.60	8,080.1	-304.5	372.7	-292.3	0.20	0.16	-3.48
8,125.0	1.87	137.74	8,105.1	-305.1	373.2	-292.8	0.43	-0.12	12.56
8,150.0	1.82	141.79	8,130.1	-305.7	373.7	-293.4	0.56	-0.20	16.20
8,175.0	1.80	142.50	8,155.1	-306.3	374.2	-294.0	0.12	-0.08	2.84
8,200.0	1.76	144.18	8,180.1	-306.9	374.7	-294.6	0.26	-0.16	6.72
8,225.0	1.85	143.56	8,205.1	-307.6	375.2	-295.3	0.37	0.36	-2.48
8,250.0	1.83	143.50	8,230.1	-308.2	375.6	-295.9	0.08	-0.08	-0.24
8,275.0	1.80	146.22	8,255.1	-308.9	376.1	-296.5	0.36	-0.12	10.88
8,300.0	1.76	144.55	8,280.0	-309.5	376.5	-297.1	0.26	-0.16	-6.68
8,325.0	1.83	149.24	8,305.0	-310.2	377.0	-297.8	0.65	0.28	18.76
8,350.0	1.84	146.69	8,330.0	-310.8	377.4	-298.5	0.33	0.04	-10.20
8,375.0	1.82	150.61	8,355.0	-311.5	377.8	-299.1	0.51	-0.08	15.68
8,400.0	1.84	147.85	8,380.0	-312.2	378.2	-299.8	0.36	0.08	-11.04
8,425.0	1.73	149.08	8,405.0	-312.9	378.6	-300.4	0.47	-0.44	4.92
8,450.0	1.67	152.05	8,430.0	-313.5	379.0	-301.1	0.43	-0.24	11.88
8,475.0	1.68	152.46	8,455.0	-314.2	379.3	-301.7	0.06	0.04	1.64
8,500.0	1.76	155.40	8,479.9	-314.8	379.6	-302.4	0.48	0.32	11.76
8,513.0	1.82	157.78	8,492.9	-315.2	379.8	-302.7	0.73	0.46	18.31
8,637.0	1.80	164.73	8,616.9	-318.9	381.1	-306.4	0.18	-0.02	5.60
First MWD Svy @ 8637'MD									
8,700.0	3.09	35.19	8,679.8	-318.5	382.3	-305.9	7.08	2.05	-205.62
8,730.0	4.61	48.47	8,709.8	-317.0	383.7	-304.4	5.84	5.07	44.27
8,761.0	6.49	21.92	8,740.6	-314.6	385.3	-301.9	10.11	6.06	-85.65

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)
8,792.0	9.67	5.93	8,771.3	-310.3	386.2	-297.7	12.47	10.26	-51.58
8,821.0	13.01	3.16	8,799.8	-304.7	386.6	-292.0	11.67	11.52	-9.55
8,853.0	17.57	4.12	8,830.6	-296.2	387.2	-283.6	14.27	14.25	3.00
8,884.0	19.23	3.65	8,860.0	-286.5	387.8	-273.8	5.38	5.35	-1.52
8,915.0	20.95	8.55	8,889.1	-275.9	389.0	-263.2	7.76	5.55	15.81
8,946.0	24.29	9.58	8,917.8	-264.1	390.9	-251.3	10.85	10.77	3.32
8,977.0	27.64	9.61	8,945.6	-250.7	393.1	-237.9	10.81	10.81	0.10
9,009.0	31.34	7.49	8,973.5	-235.2	395.4	-222.2	12.01	11.56	-6.63
9,040.0	35.40	6.43	8,999.4	-218.2	397.5	-205.3	13.23	13.10	-3.42
9,070.0	39.43	4.33	9,023.2	-200.1	399.2	-187.1	14.09	13.43	-7.00
9,101.0	42.00	2.00	9,046.7	-179.9	400.3	-166.9	9.63	8.29	-7.52
9,132.0	45.22	359.30	9,069.1	-158.5	400.5	-145.5	12.00	10.39	-8.71
9,163.0	48.30	357.58	9,090.4	-136.0	399.9	-123.0	10.73	9.94	-5.55
9,193.0	51.49	357.94	9,109.7	-113.0	399.0	-100.1	10.67	10.63	1.20
9,225.0	55.15	358.69	9,128.8	-87.4	398.3	-74.5	11.59	11.44	2.34
9,256.0	56.84	358.10	9,146.1	-61.7	397.5	-48.8	5.68	5.45	-1.90
9,287.0	58.72	358.03	9,162.7	-35.5	396.7	-22.6	6.07	6.06	-0.23
9,318.0	59.15	355.95	9,178.7	-9.0	395.3	3.8	5.91	1.39	-6.71
9,349.0	61.64	356.77	9,194.0	17.9	393.5	30.6	8.35	8.03	2.65
9,380.0	62.57	358.18	9,208.5	45.3	392.3	58.0	5.02	3.00	4.55
9,417.0	62.43	357.75	9,225.6	78.1	391.2	90.7	1.10	-0.38	-1.16
9,447.0	66.66	358.90	9,238.4	105.1	390.4	117.7	14.52	14.10	3.83
9,478.0	70.95	358.76	9,249.7	134.0	389.8	146.6	13.85	13.84	-0.45
9,501.9	75.00	358.96	9,256.7	156.9	389.3	169.4	16.95	16.94	0.84
75°INC @ 9501.9'MD									
9,509.0	76.20	359.02	9,258.4	163.8	389.2	176.3	16.95	16.94	0.82
9,539.0	81.46	359.52	9,264.2	193.2	388.9	205.7	17.61	17.53	1.67
9,647.0	88.82	6.97	9,273.4	300.5	395.0	313.1	9.68	6.81	6.90
9,740.0	90.30	2.90	9,274.1	393.1	403.0	405.9	4.66	1.59	-4.38
9,833.0	91.06	2.89	9,273.0	486.0	407.7	498.9	0.82	0.82	-0.01
9,926.0	92.52	2.89	9,270.1	578.8	412.4	591.8	1.57	1.57	0.00
10,013.0	91.96	1.91	9,266.7	665.7	416.0	678.8	1.30	-0.64	-1.13
10,106.0	90.98	1.83	9,264.3	758.6	419.0	771.7	1.06	-1.05	-0.09
10,200.0	91.28	1.65	9,262.4	852.5	421.9	865.7	0.37	0.32	-0.19
10,294.0	88.26	358.87	9,262.8	946.5	422.3	959.7	4.37	-3.21	-2.96
10,387.0	92.60	359.11	9,262.1	1,039.5	420.7	1,052.5	4.67	4.67	0.26
10,482.0	92.99	359.85	9,257.5	1,134.3	419.8	1,147.3	0.88	0.41	0.78
10,574.0	90.98	359.41	9,254.3	1,226.3	419.2	1,239.2	2.24	-2.18	-0.48
10,668.0	91.14	359.05	9,252.6	1,320.2	418.0	1,333.1	0.42	0.17	-0.38
10,761.0	90.61	1.88	9,251.2	1,413.2	418.7	1,426.0	3.10	-0.57	3.04
10,855.0	89.18	1.44	9,251.3	1,507.2	421.4	1,520.0	1.59	-1.52	-0.47
10,949.0	89.55	2.13	9,252.4	1,601.1	424.4	1,614.0	0.83	0.39	0.73

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)	
11,042.0	86.24	359.54	9,255.8	1,694.0	425.7	1,706.9	4.52	-3.56	-2.78	
11,135.0	87.02	359.06	9,261.2	1,786.9	424.6	1,799.7	0.98	0.84	-0.52	
11,229.0	89.21	359.51	9,264.3	1,880.8	423.4	1,893.5	2.38	2.33	0.48	
11,321.0	89.38	358.89	9,265.5	1,972.8	422.1	1,985.4	0.70	0.18	-0.67	
11,414.0	89.71	358.38	9,266.2	2,065.8	419.9	2,078.3	0.65	0.35	-0.55	
11,506.0	91.00	358.99	9,265.6	2,157.7	417.8	2,170.1	1.55	1.40	0.66	
11,598.0	88.48	358.62	9,266.1	2,249.7	415.9	2,262.0	2.77	-2.74	-0.40	
11,691.0	87.95	358.22	9,269.0	2,342.6	413.3	2,354.8	0.71	-0.57	-0.43	
11,784.0	90.64	0.93	9,270.1	2,435.6	412.6	2,447.7	4.11	2.89	2.91	
11,876.0	91.20	1.73	9,268.6	2,527.6	414.8	2,539.7	1.06	0.61	0.87	
11,971.0	88.54	357.21	9,268.8	2,622.5	413.9	2,634.5	5.52	-2.80	-4.76	
12,063.0	89.97	357.08	9,270.0	2,714.4	409.3	2,726.2	1.56	1.55	-0.14	
12,157.0	89.69	357.92	9,270.3	2,808.3	405.2	2,819.9	0.94	-0.30	0.89	
12,343.0	89.60	358.59	9,271.5	2,994.2	399.5	3,005.6	0.36	-0.05	0.36	
12,435.0	89.94	358.38	9,271.8	3,086.2	397.1	3,097.4	0.43	0.37	-0.23	
12,528.0	87.95	358.86	9,273.5	3,179.1	394.9	3,190.2	2.20	-2.14	0.52	
12,620.0	90.55	2.36	9,274.8	3,271.1	395.8	3,282.2	4.74	2.83	3.80	
12,713.0	92.04	3.77	9,272.6	3,363.9	400.8	3,375.1	2.21	1.60	1.52	
12,806.0	92.18	2.34	9,269.2	3,456.7	405.8	3,468.1	1.54	0.15	-1.54	
12,898.0	91.40	0.85	9,266.4	3,548.7	408.3	3,560.0	1.83	-0.85	-1.62	
12,992.0	89.38	0.28	9,265.7	3,642.6	409.3	3,654.0	2.23	-2.15	-0.61	
13,084.0	90.13	1.68	9,266.1	3,734.6	410.8	3,746.0	1.73	0.82	1.52	
13,177.0	88.79	0.75	9,267.0	3,827.6	412.8	3,838.9	1.75	-1.44	-1.00	
13,271.0	88.90	358.77	9,268.9	3,921.6	412.4	3,932.9	2.11	0.12	-2.11	
13,364.0	90.16	358.77	9,269.6	4,014.5	410.4	4,025.7	1.35	1.35	0.00	
13,457.0	89.46	0.74	9,269.9	4,107.5	410.0	4,118.7	2.25	-0.75	2.12	
13,550.0	88.85	0.70	9,271.3	4,200.5	411.2	4,211.6	0.66	-0.66	-0.04	
13,644.0	88.34	359.31	9,273.6	4,294.5	411.2	4,305.5	1.57	-0.54	-1.48	
13,736.0	87.36	357.51	9,277.1	4,386.4	408.6	4,397.3	2.23	-1.07	-1.96	
13,830.0	88.06	359.14	9,280.8	4,480.3	405.9	4,491.1	1.89	0.74	1.73	
13,923.0	87.78	358.53	9,284.2	4,573.2	404.0	4,583.9	0.72	-0.30	-0.66	
14,071.0	90.11	1.91	9,286.9	4,721.1	404.6	4,731.7	2.77	1.57	2.28	
14,165.0	89.93	2.12	9,286.9	4,815.1	407.9	4,825.7	0.29	-0.19	0.22	
14,256.0	89.22	1.97	9,287.6	4,906.0	411.1	4,916.7	0.80	-0.78	-0.16	
14,350.0	89.15	2.22	9,288.9	4,999.9	414.6	5,010.7	0.28	-0.07	0.27	
14,443.0	88.80	2.83	9,290.6	5,092.8	418.7	5,103.7	0.76	-0.38	0.66	
14,537.0	88.71	2.51	9,292.6	5,186.7	423.0	5,197.7	0.35	-0.10	-0.34	
14,631.0	88.17	0.87	9,295.2	5,280.6	425.8	5,291.6	1.84	-0.57	-1.74	
14,723.0	88.07	359.72	9,298.2	5,372.6	426.3	5,383.6	1.25	-0.11	-1.25	
14,818.0	88.40	358.61	9,301.1	5,467.5	424.9	5,478.4	1.22	0.35	-1.17	
14,913.0	88.90	358.30	9,303.4	5,562.5	422.3	5,573.2	0.62	0.53	-0.33	
15,004.0	88.72	358.21	9,305.2	5,653.4	419.6	5,664.0	0.22	-0.20	-0.10	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)	
15,097.0	89.06	358.34	9,307.1	5,746.3	416.8	5,756.8	0.39	0.37	0.14	
15,190.0	89.61	358.12	9,308.1	5,839.3	413.9	5,849.6	0.64	0.59	-0.24	
15,282.0	90.04	358.04	9,308.4	5,931.2	410.8	5,941.4	0.48	0.47	-0.09	
15,375.0	90.25	358.13	9,308.2	6,024.2	407.7	6,034.2	0.25	0.23	0.10	
15,467.0	90.22	357.84	9,307.8	6,116.1	404.5	6,126.0	0.32	-0.03	-0.32	
15,561.0	90.62	357.64	9,307.1	6,210.0	400.8	6,219.8	0.48	0.43	-0.21	
15,655.0	91.10	357.91	9,305.7	6,304.0	397.1	6,313.5	0.59	0.51	0.29	
15,748.0	91.44	358.79	9,303.6	6,396.9	394.4	6,406.3	1.01	0.37	0.95	
15,842.0	89.59	358.42	9,302.8	6,490.9	392.1	6,500.2	2.01	-1.97	-0.39	
15,936.0	87.26	357.24	9,305.4	6,584.8	388.6	6,593.9	2.78	-2.48	-1.26	
16,029.0	89.50	357.88	9,308.0	6,677.6	384.6	6,686.6	2.50	2.41	0.69	
16,121.0	90.48	357.95	9,308.0	6,769.6	381.3	6,778.4	1.07	1.07	0.08	
16,213.0	90.90	358.08	9,306.9	6,861.5	378.1	6,870.1	0.48	0.46	0.14	
16,307.0	91.12	358.47	9,305.3	6,955.4	375.3	6,963.9	0.48	0.23	0.41	
16,400.0	90.56	358.70	9,303.9	7,048.4	373.0	7,056.8	0.65	-0.60	0.25	
16,493.0	89.50	358.83	9,303.8	7,141.4	371.0	7,149.6	1.15	-1.14	0.14	
16,586.0	89.97	0.24	9,304.3	7,234.4	370.2	7,242.6	1.60	0.51	1.52	
16,678.0	89.27	359.36	9,304.9	7,326.4	369.9	7,334.5	1.22	-0.76	-0.96	
16,770.0	90.11	359.43	9,305.4	7,418.4	368.9	7,426.4	0.92	0.91	0.08	
16,862.0	90.41	359.33	9,305.0	7,510.4	367.9	7,518.3	0.34	0.33	-0.11	
16,955.0	90.25	359.31	9,304.4	7,603.3	366.8	7,611.2	0.17	-0.17	-0.02	
17,047.0	91.19	359.55	9,303.3	7,695.3	365.9	7,703.1	1.05	1.02	0.26	
17,142.0	91.16	359.50	9,301.3	7,790.3	365.1	7,798.0	0.06	-0.03	-0.05	
17,234.0	91.24	359.62	9,299.4	7,882.3	364.4	7,890.0	0.16	0.09	0.13	
17,319.0	90.93	358.87	9,297.8	7,967.3	363.3	7,974.8	0.95	-0.36	-0.88	
17,411.0	91.07	358.58	9,296.2	8,059.2	361.2	8,066.7	0.35	0.15	-0.32	
17,505.0	91.60	358.11	9,294.0	8,153.2	358.5	8,160.5	0.75	0.56	-0.50	
17,596.0	89.48	1.78	9,293.1	8,244.1	358.4	8,251.4	4.66	-2.33	4.03	
17,689.0	89.48	2.24	9,294.0	8,337.1	361.7	8,344.4	0.49	0.00	0.49	
17,783.0	87.21	3.30	9,296.7	8,430.9	366.2	8,438.4	2.66	-2.41	1.13	
17,876.0	87.61	3.53	9,300.9	8,523.7	371.8	8,531.2	0.50	0.43	0.25	
17,971.0	86.12	1.01	9,306.1	8,618.4	375.5	8,626.1	3.08	-1.57	-2.65	
18,066.0	87.05	0.17	9,311.8	8,713.3	376.5	8,720.9	1.32	0.98	-0.88	
18,159.0	88.84	1.13	9,315.1	8,806.2	377.6	8,813.8	2.18	1.92	1.03	
18,253.0	88.98	1.49	9,316.9	8,900.1	379.7	8,907.8	0.41	0.15	0.38	
18,346.0	88.81	3.14	9,318.7	8,993.0	383.5	9,000.7	1.78	-0.18	1.77	
18,440.0	90.13	3.86	9,319.5	9,086.9	389.2	9,094.7	1.60	1.40	0.77	
18,532.0	88.90	0.70	9,320.3	9,178.8	392.9	9,186.7	3.69	-1.34	-3.43	
18,626.0	88.73	0.89	9,322.3	9,272.7	394.2	9,280.6	0.27	-0.18	0.20	
18,718.0	90.83	3.89	9,322.6	9,364.7	398.0	9,372.6	3.98	2.28	3.26	
18,811.0	89.76	2.05	9,322.1	9,457.5	402.8	9,465.6	2.29	-1.15	-1.98	
18,905.0	88.76	358.77	9,323.3	9,551.5	403.5	9,559.5	3.65	-1.06	-3.49	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	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)	
18,997.0	88.50	358.06	9,325.5	9,643.4	401.0	9,651.4	0.82	-0.28	-0.77	
19,090.0	89.04	357.53	9,327.5	9,736.3	397.4	9,744.1	0.81	0.58	-0.57	
19,182.0	90.02	359.58	9,328.3	9,828.3	395.1	9,835.9	2.47	1.07	2.23	
19,275.0	90.35	359.68	9,328.0	9,921.3	394.5	9,928.9	0.37	0.35	0.11	
19,367.0	90.30	359.93	9,327.5	10,013.3	394.2	10,020.8	0.28	-0.05	0.27	
19,461.0	90.13	359.40	9,327.1	10,107.3	393.6	10,114.7	0.59	-0.18	-0.56	
19,554.0	89.71	359.18	9,327.3	10,200.3	392.4	10,207.6	0.51	-0.45	-0.24	
19,647.0	90.38	359.35	9,327.2	10,293.3	391.3	10,300.6	0.74	0.72	0.18	
19,740.0	90.89	359.33	9,326.2	10,386.3	390.2	10,393.5	0.55	0.55	-0.02	
19,835.0	88.42	359.46	9,326.7	10,481.3	389.2	10,488.4	2.60	-2.60	0.14	
19,927.0	88.53	358.73	9,329.2	10,573.2	387.7	10,580.2	0.80	0.12	-0.79	
20,019.0	88.14	358.48	9,331.8	10,665.1	385.5	10,672.0	0.50	-0.42	-0.27	
20,113.0	90.83	0.01	9,332.7	10,759.1	384.3	10,765.9	3.29	2.86	1.63	
20,204.0	90.94	359.49	9,331.3	10,850.1	383.9	10,856.8	0.58	0.12	-0.57	
20,298.0	89.40	359.29	9,331.0	10,944.1	382.9	10,950.8	1.65	-1.64	-0.21	
20,392.0	89.35	359.71	9,332.0	11,038.1	382.0	11,044.7	0.45	-0.05	0.45	
20,486.0	89.93	359.32	9,332.6	11,132.1	381.2	11,138.6	0.74	0.62	-0.41	
20,579.0	88.51	358.90	9,333.9	11,225.1	379.8	11,231.5	1.59	-1.53	-0.45	
20,673.0	89.15	358.96	9,335.8	11,319.0	378.0	11,325.3	0.68	0.68	0.06	
20,766.0	89.63	359.23	9,336.8	11,412.0	376.6	11,418.2	0.59	0.52	0.29	
20,861.0	90.16	0.00	9,337.0	11,507.0	375.9	11,513.1	0.98	0.56	0.81	
20,954.0	89.66	359.75	9,337.1	11,600.0	375.7	11,606.1	0.60	-0.54	-0.27	
21,018.6	89.81	359.76	9,337.4	11,664.6	375.5	11,670.6	0.24	0.24	0.01	
LTP @ 21018.6'MD										
21,047.0	89.88	359.76	9,337.5	11,693.0	375.3	11,699.0	0.24	0.24	0.01	
21,086.0	90.05	359.61	9,337.5	11,732.0	375.1	11,738.0	0.58	0.44	-0.38	
Final MWD Svy @ 21086'MD										
21,146.0	90.05	359.61	9,337.5	11,792.0	374.7	11,797.9	0.00	0.00	0.00	
PTD @ 21149'MD										
21,149.0	90.05	359.61	9,337.5	11,795.0	374.7	11,800.9	0.00	0.00	0.00	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
8,637.0	8,616.9	-318.9	381.1	First MWD Svy @ 8637'MD	
9,501.9	9,256.7	156.9	389.3	75°INC @ 9501.9'MD	
21,018.6	9,337.4	11,664.6	375.5	LTP @ 21018.6'MD	
21,086.0	9,337.5	11,732.0	375.1	Final MWD Svy @ 21086'MD	
21,146.0	9,337.5	11,792.0	374.7	PTD @ 21149'MD	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #709H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Site:	ATLAS	MD Reference:	RKB=3158.6+31 @ 3189.6usft (PRECISION 106)
Well:	WAY SOUTH ST COM #709H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDM_Users

Checked By: _____ Approved By: _____ Date: _____