

REC'D: 7/30/2020

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 30-015-45546		Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)	Kz
Property Code 308269	Property Name WAY SOUTH STATE COM			Well Number 706H
OGRID No. 229137	Operator Name COG OPERATING, LLC			Elevation 3107.5'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4	31	26-S	28-E		510	SOUTH	2340	EAST	EDDY

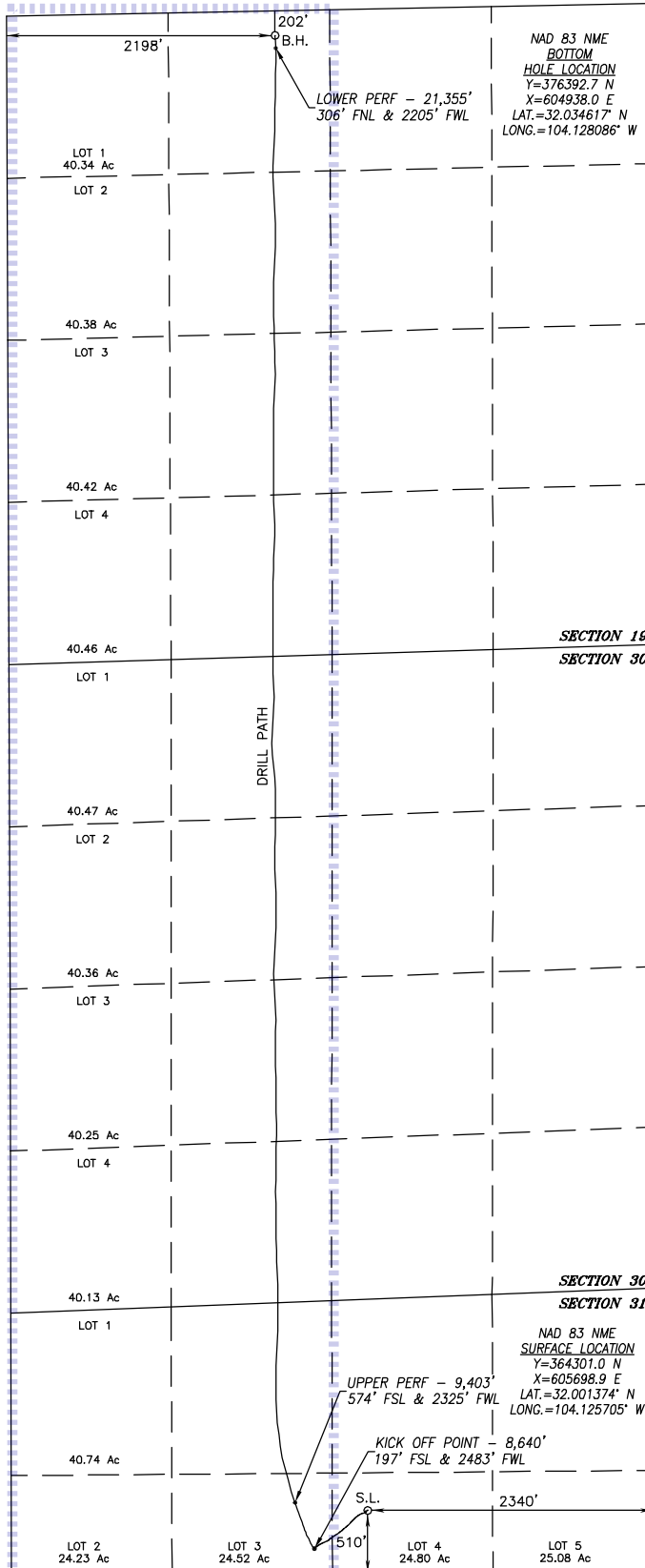
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	19	26-S	28-E		202	NORTH	2198	WEST	EDDY
Dedicated Acres 736.48	Joint or Infill	Consolidation Code	Order No.						

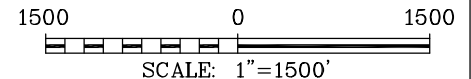
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SEE PAGE 2

Property Code 308269	Property Name WAY SOUTH STATE COM	Well Number 706H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3107.5'



SURFACE INFO AND BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE WAY SOUTH STATE COM #706H 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 or unleased mineral interest in the land including 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.

JAN. 28, 2019/JULY 15, 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 #706H

OWB

Design: AWP

Standard Survey Report

15 July, 2019

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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	WAY SOUTH ST COM #706H, COG-ACTIVE		
Well Position	+N/-S	0.0 usft	Northing: 364,244.20 usft
	+E/-W	0.0 usft	Easting: 564,514.10 usft
Position Uncertainty	3.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 0' 4.500 N
		Longitude:	104° 7' 30.782 W
		Ground Level:	3,107.5 usft

Wellbore	OWB		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	4/23/2019	6.99
			Dip Angle (°)
			59.75
			Field Strength (nT)
			47,559.79404763

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)
	0.0	0.0	0.0
			Direction (°)
			356.30

Survey Program	Date 7/15/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.0	8,445.0	GYRO (OWB)	Standard Keeper 104
8,588.0	21,459.0	MWD-CURVE/LAT (OWB)	MWD+IFR1+MS
			Description
			Standard Wireline Keeper ver 1.0.4
			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	1.30	259.70	100.0	-0.2	-1.1	-0.1	1.30	1.30	0.00
125.0	1.56	256.22	125.0	-0.3	-1.7	-0.2	1.10	1.04	-13.92
150.0	1.97	256.46	150.0	-0.5	-2.5	-0.4	1.64	1.64	0.96
175.0	2.14	257.30	175.0	-0.7	-3.3	-0.5	0.69	0.68	3.36
200.0	2.54	255.57	199.9	-1.0	-4.3	-0.7	1.62	1.60	-6.92
225.0	2.78	253.88	224.9	-1.3	-5.5	-0.9	1.01	0.96	-6.76
250.0	2.90	254.86	249.9	-1.6	-6.7	-1.2	0.52	0.48	3.92
275.0	2.89	253.72	274.8	-1.9	-7.9	-1.4	0.23	-0.04	-4.56
300.0	2.93	253.23	299.8	-2.3	-9.1	-1.7	0.19	0.16	-1.96

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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)
325.0	3.16	251.26	324.8	-2.7	-10.3	-2.0	1.01	0.92	-7.88
350.0	3.25	248.63	349.7	-3.2	-11.7	-2.4	0.69	0.36	-10.52
375.0	3.27	246.30	374.7	-3.7	-13.0	-2.9	0.54	0.08	-9.32
400.0	3.28	245.29	399.7	-4.3	-14.3	-3.4	0.23	0.04	-4.04
425.0	3.30	245.75	424.6	-4.9	-15.6	-3.9	0.13	0.08	1.84
450.0	3.35	245.18	449.6	-5.5	-16.9	-4.4	0.24	0.20	-2.28
475.0	3.34	245.05	474.5	-6.1	-18.2	-4.9	0.05	-0.04	-0.52
500.0	3.35	245.05	499.5	-6.7	-19.5	-5.5	0.04	0.04	0.00
525.0	3.33	243.73	524.4	-7.4	-20.9	-6.0	0.32	-0.08	-5.28
550.0	3.35	243.53	549.4	-8.0	-22.2	-6.6	0.09	0.08	-0.80
575.0	3.25	241.51	574.4	-8.7	-23.4	-7.2	0.61	-0.40	-8.08
600.0	3.15	234.04	599.3	-9.4	-24.6	-7.8	1.71	-0.40	-29.88
625.0	2.96	231.29	624.3	-10.2	-25.7	-8.6	0.96	-0.76	-11.00
650.0	2.63	226.54	649.3	-11.0	-26.6	-9.3	1.61	-1.32	-19.00
675.0	2.11	218.21	674.2	-11.8	-27.3	-10.0	2.49	-2.08	-33.32
700.0	1.39	200.42	699.2	-12.4	-27.7	-10.6	3.58	-2.88	-71.16
725.0	0.99	178.00	724.2	-12.9	-27.8	-11.1	2.43	-1.60	-89.68
750.0	0.94	146.61	749.2	-13.3	-27.7	-11.5	2.10	-0.20	-125.56
775.0	1.06	128.27	774.2	-13.6	-27.4	-11.8	1.36	0.48	-73.36
800.0	1.04	124.28	799.2	-13.9	-27.0	-12.1	0.30	-0.08	-15.96
825.0	1.13	119.91	824.2	-14.2	-26.6	-12.4	0.49	0.36	-17.48
850.0	1.13	119.65	849.2	-14.4	-26.2	-12.7	0.02	0.00	-1.04
875.0	1.16	117.65	874.2	-14.6	-25.7	-13.0	0.20	0.12	-8.00
900.0	1.09	111.25	899.2	-14.8	-25.3	-13.2	0.57	-0.28	-25.60
925.0	1.09	109.23	924.2	-15.0	-24.8	-13.4	0.15	0.00	-8.08
950.0	1.18	90.58	949.2	-15.1	-24.4	-13.5	1.51	0.36	-74.60
975.0	1.35	83.79	974.2	-15.1	-23.8	-13.5	0.91	0.68	-27.16
1,000.0	1.36	79.70	999.2	-15.0	-23.2	-13.4	0.39	0.04	-16.36
1,025.0	1.41	77.74	1,024.2	-14.9	-22.6	-13.4	0.28	0.20	-7.84
1,050.0	1.40	79.17	1,049.2	-14.7	-22.0	-13.3	0.15	-0.04	5.72
1,075.0	1.36	77.41	1,074.1	-14.6	-21.4	-13.2	0.23	-0.16	-7.04
1,100.0	1.31	79.92	1,099.1	-14.5	-20.9	-13.1	0.31	-0.20	10.04
1,125.0	1.16	81.55	1,124.1	-14.4	-20.3	-13.1	0.62	-0.60	6.52
1,150.0	1.09	85.62	1,149.1	-14.4	-19.9	-13.0	0.42	-0.28	16.28
1,175.0	1.05	82.39	1,174.1	-14.3	-19.4	-13.0	0.29	-0.16	-12.92
1,200.0	0.92	82.39	1,199.1	-14.2	-19.0	-13.0	0.52	-0.52	0.00
1,225.0	0.85	83.27	1,224.1	-14.2	-18.6	-13.0	0.29	-0.28	3.52
1,250.0	0.82	81.55	1,249.1	-14.2	-18.2	-12.9	0.16	-0.12	-6.88
1,275.0	0.86	80.78	1,274.1	-14.1	-17.9	-12.9	0.17	0.16	-3.08
1,300.0	0.72	82.81	1,299.1	-14.0	-17.5	-12.9	0.57	-0.56	8.12
1,325.0	0.60	88.84	1,324.1	-14.0	-17.2	-12.9	0.55	-0.48	24.12
1,350.0	0.62	85.34	1,349.1	-14.0	-17.0	-12.9	0.17	0.08	-14.00
1,375.0	0.56	90.69	1,374.1	-14.0	-16.7	-12.9	0.33	-0.24	21.40

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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)	
1,400.0	0.52	90.52	1,399.1	-14.0	-16.5	-12.9	0.16	-0.16	-0.68	
1,425.0	0.48	102.53	1,424.1	-14.0	-16.3	-13.0	0.45	-0.16	48.04	
1,450.0	0.54	94.68	1,449.1	-14.1	-16.0	-13.0	0.37	0.24	-31.40	
1,475.0	0.50	92.26	1,474.1	-14.1	-15.8	-13.0	0.18	-0.16	-9.68	
1,500.0	0.54	88.56	1,499.1	-14.1	-15.6	-13.0	0.21	0.16	-14.80	
1,525.0	0.54	92.24	1,524.1	-14.1	-15.4	-13.1	0.14	0.00	14.72	
1,550.0	0.59	90.61	1,549.1	-14.1	-15.1	-13.1	0.21	0.20	-6.52	
1,575.0	0.47	95.99	1,574.1	-14.1	-14.9	-13.1	0.52	-0.48	21.52	
1,600.0	0.51	96.25	1,599.1	-14.1	-14.7	-13.1	0.16	0.16	1.04	
1,625.0	0.50	89.04	1,624.1	-14.1	-14.4	-13.2	0.26	-0.04	-28.84	
1,650.0	0.52	98.20	1,649.1	-14.1	-14.2	-13.2	0.34	0.08	36.64	
1,675.0	0.65	94.59	1,674.1	-14.2	-14.0	-13.2	0.54	0.52	-14.44	
1,700.0	0.76	104.22	1,699.1	-14.2	-13.7	-13.3	0.65	0.44	38.52	
1,725.0	0.81	99.75	1,724.1	-14.3	-13.3	-13.4	0.32	0.20	-17.88	
1,750.0	0.87	102.08	1,749.1	-14.4	-13.0	-13.5	0.28	0.24	9.32	
1,775.0	0.84	102.81	1,774.1	-14.4	-12.6	-13.6	0.13	-0.12	2.92	
1,800.0	0.88	98.70	1,799.1	-14.5	-12.2	-13.7	0.29	0.16	-16.44	
1,825.0	0.68	109.30	1,824.1	-14.6	-11.9	-13.8	0.98	-0.80	42.40	
1,850.0	0.58	120.27	1,849.1	-14.7	-11.7	-13.9	0.62	-0.40	43.88	
1,875.0	0.39	149.01	1,874.1	-14.8	-11.5	-14.1	1.21	-0.76	114.96	
1,900.0	0.72	225.03	1,899.1	-15.0	-11.6	-14.2	2.93	1.32	304.08	
1,925.0	1.40	239.16	1,924.1	-15.3	-11.9	-14.5	2.89	2.72	56.52	
1,950.0	1.78	242.35	1,949.1	-15.6	-12.6	-14.8	1.56	1.52	12.76	
1,975.0	1.87	245.21	1,974.0	-16.0	-13.3	-15.1	0.51	0.36	11.44	
2,000.0	2.01	246.51	1,999.0	-16.3	-14.0	-15.4	0.59	0.56	5.20	
2,025.0	2.18	246.25	2,024.0	-16.7	-14.9	-15.7	0.68	0.68	-1.04	
2,050.0	2.29	249.55	2,049.0	-17.1	-15.8	-16.0	0.68	0.44	13.20	
2,075.0	2.46	249.74	2,074.0	-17.4	-16.7	-16.3	0.68	0.68	0.76	
2,100.0	2.41	255.60	2,099.0	-17.7	-17.8	-16.6	1.02	-0.20	23.44	
2,125.0	2.77	251.87	2,123.9	-18.1	-18.8	-16.8	1.59	1.44	-14.92	
2,150.0	3.35	253.31	2,148.9	-18.5	-20.1	-17.1	2.34	2.32	5.76	
2,175.0	3.51	254.51	2,173.8	-18.9	-21.6	-17.4	0.70	0.64	4.80	
2,200.0	3.77	255.86	2,198.8	-19.3	-23.1	-17.7	1.09	1.04	5.40	
2,225.0	3.87	256.33	2,223.7	-19.7	-24.7	-18.0	0.42	0.40	1.88	
2,250.0	3.95	255.88	2,248.7	-20.1	-26.4	-18.3	0.34	0.32	-1.80	
2,275.0	3.87	256.67	2,273.6	-20.5	-28.0	-18.6	0.39	-0.32	3.16	
2,300.0	3.83	255.75	2,298.6	-20.9	-29.6	-18.9	0.29	-0.16	-3.68	
2,325.0	3.69	255.53	2,323.5	-21.3	-31.2	-19.2	0.56	-0.56	-0.88	
2,350.0	3.46	255.36	2,348.5	-21.7	-32.7	-19.5	0.92	-0.92	-0.68	
2,375.0	3.53	254.65	2,373.4	-22.1	-34.2	-19.8	0.33	0.28	-2.84	
2,400.0	3.52	254.54	2,398.4	-22.5	-35.7	-20.1	0.05	-0.04	-0.44	
2,425.0	3.54	254.54	2,423.3	-22.9	-37.2	-20.5	0.08	0.08	0.00	
2,450.0	3.54	254.18	2,448.3	-23.3	-38.7	-20.8	0.09	0.00	-1.44	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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)
2,475.0	3.58	254.56	2,473.2	-23.7	-40.2	-21.1	0.19	0.16	1.52
2,500.0	3.59	254.38	2,498.2	-24.1	-41.7	-21.4	0.06	0.04	-0.72
2,525.0	3.59	254.27	2,523.1	-24.6	-43.2	-21.7	0.03	0.00	-0.44
2,550.0	3.62	254.90	2,548.1	-25.0	-44.7	-22.1	0.20	0.12	2.52
2,575.0	3.71	255.04	2,573.0	-25.4	-46.2	-22.4	0.36	0.36	0.56
2,600.0	3.69	254.91	2,598.0	-25.8	-47.8	-22.7	0.09	-0.08	-0.52
2,625.0	3.64	253.83	2,622.9	-26.3	-49.3	-23.0	0.34	-0.20	-4.32
2,650.0	4.16	248.79	2,647.9	-26.8	-50.9	-23.5	2.49	2.08	-20.16
2,675.0	4.45	246.69	2,672.8	-27.5	-52.7	-24.1	1.32	1.16	-8.40
2,700.0	4.68	245.07	2,697.7	-28.3	-54.5	-24.8	1.05	0.92	-6.48
2,725.0	4.77	243.13	2,722.6	-29.2	-56.3	-25.5	0.73	0.36	-7.76
2,750.0	4.82	241.92	2,747.5	-30.2	-58.2	-26.4	0.45	0.20	-4.84
2,775.0	4.81	242.38	2,772.5	-31.2	-60.1	-27.2	0.16	-0.04	1.84
2,800.0	4.83	241.39	2,797.4	-32.2	-61.9	-28.1	0.34	0.08	-3.96
2,825.0	4.86	241.71	2,822.3	-33.2	-63.8	-29.0	0.16	0.12	1.28
2,850.0	4.89	241.31	2,847.2	-34.2	-65.6	-29.9	0.18	0.12	-1.60
2,875.0	4.97	238.96	2,872.1	-35.3	-67.5	-30.8	0.87	0.32	-9.40
2,900.0	4.91	237.93	2,897.0	-36.4	-69.3	-31.8	0.43	-0.24	-4.12
2,925.0	4.92	237.24	2,921.9	-37.5	-71.1	-32.9	0.24	0.04	-2.76
2,950.0	4.95	236.40	2,946.8	-38.7	-72.9	-33.9	0.31	0.12	-3.36
2,975.0	4.93	236.57	2,971.7	-39.9	-74.7	-35.0	0.10	-0.08	0.68
3,000.0	4.96	235.75	2,996.6	-41.1	-76.5	-36.1	0.31	0.12	-3.28
3,025.0	4.94	234.82	3,021.5	-42.3	-78.3	-37.2	0.33	-0.08	-3.72
3,050.0	4.94	235.12	3,046.4	-43.6	-80.1	-38.3	0.10	0.00	1.20
3,075.0	4.95	234.55	3,071.4	-44.8	-81.8	-39.4	0.20	0.04	-2.28
3,100.0	4.92	233.67	3,096.3	-46.1	-83.6	-40.6	0.33	-0.12	-3.52
3,125.0	4.94	233.02	3,121.2	-47.3	-85.3	-41.7	0.24	0.08	-2.60
3,150.0	4.93	231.92	3,146.1	-48.6	-87.0	-42.9	0.38	-0.04	-4.40
3,175.0	4.90	231.11	3,171.0	-50.0	-88.7	-44.2	0.30	-0.12	-3.24
3,200.0	4.84	230.72	3,195.9	-51.3	-90.3	-45.4	0.27	-0.24	-1.56
3,225.0	4.87	230.10	3,220.8	-52.7	-91.9	-46.6	0.24	0.12	-2.48
3,250.0	4.93	229.57	3,245.7	-54.0	-93.6	-47.9	0.30	0.24	-2.12
3,275.0	4.84	229.97	3,270.6	-55.4	-95.2	-49.2	0.38	-0.36	1.60
3,300.0	4.85	229.51	3,295.5	-56.8	-96.8	-50.4	0.16	0.04	-1.84
3,325.0	4.85	229.39	3,320.4	-58.2	-98.4	-51.7	0.04	0.00	-0.48
3,350.0	4.86	229.06	3,345.4	-59.5	-100.0	-53.0	0.12	0.04	-1.32
3,375.0	4.91	228.65	3,370.3	-60.9	-101.6	-54.3	0.24	0.20	-1.64
3,400.0	4.95	228.89	3,395.2	-62.4	-103.2	-55.6	0.18	0.16	0.96
3,425.0	4.92	228.41	3,420.1	-63.8	-104.9	-56.9	0.20	-0.12	-1.92
3,450.0	4.89	227.72	3,445.0	-65.2	-106.4	-58.2	0.26	-0.12	-2.76
3,475.0	4.79	226.52	3,469.9	-66.6	-108.0	-59.5	0.57	-0.40	-4.80
3,500.0	4.76	226.01	3,494.8	-68.1	-109.5	-60.9	0.21	-0.12	-2.04
3,525.0	4.96	227.09	3,519.7	-69.5	-111.0	-62.2	0.88	0.80	4.32
3,550.0	5.03	226.47	3,544.6	-71.0	-112.6	-63.6	0.35	0.28	-2.48

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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	4.96	225.92	3,569.5	-72.5	-114.2	-65.0	0.34	-0.28	-2.20
3,600.0	5.04	226.10	3,594.4	-74.0	-115.8	-66.4	0.33	0.32	0.72
3,625.0	5.02	225.70	3,619.3	-75.6	-117.3	-67.9	0.16	-0.08	-1.60
3,650.0	4.95	225.54	3,644.2	-77.1	-118.9	-69.3	0.29	-0.28	-0.64
3,675.0	4.99	225.73	3,669.2	-78.6	-120.4	-70.7	0.17	0.16	0.76
3,700.0	4.96	224.71	3,694.1	-80.1	-122.0	-72.1	0.37	-0.12	-4.08
3,725.0	4.94	224.28	3,719.0	-81.7	-123.5	-73.5	0.17	-0.08	-1.72
3,750.0	4.95	223.66	3,743.9	-83.2	-125.0	-75.0	0.22	0.04	-2.48
3,775.0	4.90	224.27	3,768.8	-84.8	-126.5	-76.4	0.29	-0.20	2.44
3,800.0	4.88	223.28	3,793.7	-86.3	-127.9	-77.9	0.35	-0.08	-3.96
3,825.0	4.87	223.45	3,818.6	-87.9	-129.4	-79.3	0.07	-0.04	0.68
3,850.0	4.82	222.37	3,843.5	-89.4	-130.8	-80.8	0.42	-0.20	-4.32
3,875.0	4.85	222.58	3,868.4	-91.0	-132.3	-82.2	0.14	0.12	0.84
3,900.0	4.78	221.34	3,893.3	-92.5	-133.7	-83.7	0.50	-0.28	-4.96
3,925.0	4.80	222.09	3,918.2	-94.1	-135.1	-85.2	0.26	0.08	3.00
3,950.0	4.69	221.59	3,943.2	-95.6	-136.4	-86.6	0.47	-0.44	-2.00
3,975.0	4.64	220.57	3,968.1	-97.1	-137.8	-88.1	0.39	-0.20	-4.08
4,000.0	4.65	220.67	3,993.0	-98.7	-139.1	-89.5	0.05	0.04	0.40
4,025.0	4.71	220.76	4,017.9	-100.2	-140.4	-91.0	0.24	0.24	0.36
4,050.0	4.66	220.93	4,042.8	-101.8	-141.8	-92.4	0.21	-0.20	0.68
4,075.0	4.62	220.29	4,067.7	-103.3	-143.1	-93.9	0.26	-0.16	-2.56
4,100.0	4.58	220.59	4,092.7	-104.8	-144.4	-95.3	0.19	-0.16	1.20
4,125.0	4.58	221.44	4,117.6	-106.3	-145.7	-96.7	0.27	0.00	3.40
4,150.0	4.61	220.72	4,142.5	-107.8	-147.0	-98.1	0.26	0.12	-2.88
4,175.0	4.57	221.13	4,167.4	-109.4	-148.3	-99.6	0.21	-0.16	1.64
4,200.0	4.55	220.77	4,192.3	-110.9	-149.6	-101.0	0.14	-0.08	-1.44
4,225.0	4.58	220.91	4,217.3	-112.4	-150.9	-102.4	0.13	0.12	0.56
4,250.0	4.56	221.49	4,242.2	-113.9	-152.2	-103.8	0.20	-0.08	2.32
4,275.0	4.41	226.55	4,267.1	-115.3	-153.6	-105.1	1.69	-0.60	20.24
4,300.0	4.34	229.48	4,292.0	-116.5	-155.0	-106.3	0.94	-0.28	11.72
4,325.0	4.29	228.82	4,317.0	-117.8	-156.4	-107.5	0.28	-0.20	-2.64
4,350.0	4.30	229.24	4,341.9	-119.0	-157.8	-108.6	0.13	0.04	1.68
4,375.0	4.29	229.96	4,366.8	-120.2	-159.3	-109.7	0.22	-0.04	2.88
4,400.0	4.36	229.59	4,391.8	-121.4	-160.7	-110.8	0.30	0.28	-1.48
4,425.0	4.39	230.85	4,416.7	-122.7	-162.2	-111.9	0.40	0.12	5.04
4,450.0	4.33	229.79	4,441.6	-123.9	-163.6	-113.1	0.40	-0.24	-4.24
4,475.0	4.36	229.94	4,466.5	-125.1	-165.1	-114.2	0.13	0.12	0.60
4,500.0	4.30	229.23	4,491.5	-126.3	-166.5	-115.3	0.32	-0.24	-2.84
4,525.0	4.43	230.40	4,516.4	-127.5	-168.0	-116.4	0.63	0.52	4.68
4,550.0	4.48	230.00	4,541.3	-128.8	-169.5	-117.6	0.24	0.20	-1.60
4,575.0	4.49	229.96	4,566.2	-130.0	-171.0	-118.8	0.04	0.04	-0.16
4,600.0	4.47	230.43	4,591.2	-131.3	-172.5	-119.9	0.17	-0.08	1.88
4,625.0	4.50	230.44	4,616.1	-132.5	-174.0	-121.0	0.12	0.12	0.04

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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	4.89	231.09	4,641.0	-133.8	-175.5	-122.2	1.57	1.56	2.60
4,675.0	4.92	230.71	4,665.9	-135.2	-177.2	-123.5	0.18	0.12	-1.52
4,700.0	4.96	231.17	4,690.8	-136.5	-178.9	-124.7	0.23	0.16	1.84
4,725.0	5.01	231.30	4,715.7	-137.9	-180.6	-126.0	0.21	0.20	0.52
4,750.0	5.04	231.34	4,740.6	-139.3	-182.3	-127.2	0.12	0.12	0.16
4,775.0	5.06	231.39	4,765.5	-140.6	-184.0	-128.5	0.08	0.08	0.20
4,800.0	5.03	230.82	4,790.4	-142.0	-185.7	-129.8	0.23	-0.12	-2.28
4,825.0	5.02	230.57	4,815.3	-143.4	-187.4	-131.0	0.10	-0.04	-1.00
4,850.0	4.99	230.99	4,840.2	-144.8	-189.1	-132.3	0.19	-0.12	1.68
4,875.0	5.01	230.34	4,865.1	-146.2	-190.8	-133.6	0.24	0.08	-2.60
4,900.0	5.04	230.37	4,890.1	-147.6	-192.5	-134.9	0.12	0.12	0.12
4,925.0	4.98	229.72	4,915.0	-149.0	-194.1	-136.1	0.33	-0.24	-2.60
4,950.0	4.93	229.47	4,939.9	-150.4	-195.8	-137.4	0.22	-0.20	-1.00
4,975.0	5.00	228.91	4,964.8	-151.8	-197.4	-138.7	0.34	0.28	-2.24
5,000.0	4.95	228.36	4,989.7	-153.2	-199.0	-140.1	0.28	-0.20	-2.20
5,025.0	4.88	228.34	5,014.6	-154.6	-200.6	-141.4	0.28	-0.28	-0.08
5,050.0	4.95	228.04	5,039.5	-156.1	-202.2	-142.7	0.30	0.28	-1.20
5,075.0	4.94	228.62	5,064.4	-157.5	-203.9	-144.0	0.20	-0.04	2.32
5,100.0	5.00	229.11	5,089.3	-158.9	-205.5	-145.3	0.29	0.24	1.96
5,125.0	5.13	229.22	5,114.2	-160.4	-207.2	-146.7	0.52	0.52	0.44
5,150.0	5.18	229.37	5,139.1	-161.8	-208.9	-148.0	0.21	0.20	0.60
5,175.0	5.23	229.75	5,164.0	-163.3	-210.6	-149.4	0.24	0.20	1.52
5,200.0	5.31	229.73	5,188.9	-164.8	-212.3	-150.8	0.32	0.32	-0.08
5,225.0	5.24	230.27	5,213.8	-166.3	-214.1	-152.1	0.34	-0.28	2.16
5,250.0	5.20	229.79	5,238.7	-167.7	-215.8	-153.5	0.24	-0.16	-1.92
5,275.0	5.33	230.04	5,263.6	-169.2	-217.6	-154.8	0.53	0.52	1.00
5,300.0	5.40	230.28	5,288.5	-170.7	-219.4	-156.2	0.29	0.28	0.96
5,325.0	5.42	232.71	5,313.4	-172.2	-221.2	-157.5	0.92	0.08	9.72
5,350.0	5.52	231.95	5,338.2	-173.6	-223.1	-158.9	0.49	0.40	-3.04
5,375.0	5.53	232.23	5,363.1	-175.1	-225.0	-160.2	0.12	0.04	1.12
5,400.0	5.53	231.62	5,388.0	-176.6	-226.9	-161.6	0.24	0.00	-2.44
5,425.0	5.51	232.21	5,412.9	-178.1	-228.8	-162.9	0.24	-0.08	2.36
5,450.0	5.59	232.18	5,437.8	-179.6	-230.7	-164.3	0.32	0.32	-0.12
5,475.0	5.56	232.35	5,462.7	-181.0	-232.6	-165.7	0.14	-0.12	0.68
5,500.0	5.50	232.34	5,487.5	-182.5	-234.5	-167.0	0.24	-0.24	-0.04
5,525.0	5.48	233.25	5,512.4	-184.0	-236.5	-168.3	0.36	-0.08	3.64
5,550.0	5.58	233.02	5,537.3	-185.4	-238.4	-169.6	0.41	0.40	-0.92
5,575.0	5.65	233.23	5,562.2	-186.9	-240.3	-171.0	0.29	0.28	0.84
5,600.0	5.79	236.55	5,587.1	-188.3	-242.4	-172.3	1.44	0.56	13.28
5,625.0	5.73	237.62	5,611.9	-189.7	-244.5	-173.5	0.49	-0.24	4.28
5,650.0	5.76	237.26	5,636.8	-191.0	-246.6	-174.7	0.19	0.12	-1.44
5,675.0	5.82	237.33	5,661.7	-192.4	-248.7	-175.9	0.24	0.24	0.28
5,700.0	5.77	237.14	5,686.6	-193.7	-250.8	-177.2	0.21	-0.20	-0.76

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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	5.79	237.16	5,711.4	-195.1	-253.0	-178.4	0.08	0.08	0.08
5,750.0	5.82	237.54	5,736.3	-196.5	-255.1	-179.6	0.20	0.12	1.52
5,775.0	5.75	237.03	5,761.2	-197.8	-257.2	-180.8	0.35	-0.28	-2.04
5,800.0	5.61	236.41	5,786.1	-199.2	-259.3	-182.1	0.61	-0.56	-2.48
5,825.0	5.59	236.30	5,810.9	-200.5	-261.3	-183.3	0.09	-0.08	-0.44
5,850.0	5.70	236.32	5,835.8	-201.9	-263.3	-184.5	0.44	0.44	0.08
5,875.0	5.50	236.10	5,860.7	-203.3	-265.4	-185.7	0.80	-0.80	-0.88
5,900.0	5.60	236.76	5,885.6	-204.6	-267.4	-186.9	0.47	0.40	2.64
5,925.0	5.37	236.08	5,910.5	-205.9	-269.4	-188.1	0.96	-0.92	-2.72
5,950.0	5.19	236.13	5,935.4	-207.2	-271.3	-189.3	0.72	-0.72	0.20
5,975.0	5.12	236.74	5,960.3	-208.4	-273.2	-190.4	0.36	-0.28	2.44
6,000.0	5.11	236.94	5,985.2	-209.7	-275.0	-191.5	0.08	-0.04	0.80
6,025.0	5.05	236.46	6,010.1	-210.9	-276.9	-192.6	0.29	-0.24	-1.92
6,050.0	4.98	236.70	6,035.0	-212.1	-278.7	-193.7	0.29	-0.28	0.96
6,075.0	5.00	236.28	6,059.9	-213.3	-280.5	-194.8	0.17	0.08	-1.68
6,100.0	4.91	235.76	6,084.8	-214.5	-282.3	-195.8	0.40	-0.36	-2.08
6,125.0	4.81	234.80	6,109.7	-215.7	-284.0	-196.9	0.52	-0.40	-3.84
6,150.0	4.54	233.33	6,134.6	-216.9	-285.7	-198.0	1.18	-1.08	-5.88
6,175.0	4.56	233.31	6,159.5	-218.1	-287.3	-199.1	0.08	0.08	-0.08
6,200.0	4.35	232.08	6,184.5	-219.3	-288.8	-200.2	0.92	-0.84	-4.92
6,225.0	4.26	232.82	6,209.4	-220.4	-290.3	-201.2	0.42	-0.36	2.96
6,250.0	4.16	234.20	6,234.3	-221.5	-291.8	-202.2	0.57	-0.40	5.52
6,275.0	3.99	236.23	6,259.2	-222.5	-293.3	-203.1	0.89	-0.68	8.12
6,300.0	3.97	237.10	6,284.2	-223.5	-294.7	-204.0	0.25	-0.08	3.48
6,325.0	3.76	237.32	6,309.1	-224.4	-296.1	-204.8	0.84	-0.84	0.88
6,350.0	3.75	238.45	6,334.1	-225.2	-297.5	-205.6	0.30	-0.04	4.52
6,375.0	3.63	237.48	6,359.0	-226.1	-298.9	-206.4	0.54	-0.48	-3.88
6,400.0	3.49	236.95	6,384.0	-226.9	-300.2	-207.1	0.58	-0.56	-2.12
6,425.0	3.47	235.41	6,408.9	-227.8	-301.4	-207.9	0.38	-0.08	-6.16
6,450.0	3.57	233.37	6,433.9	-228.7	-302.7	-208.7	0.64	0.40	-8.16
6,475.0	3.43	229.07	6,458.8	-229.6	-303.9	-209.6	1.19	-0.56	-17.20
6,500.0	3.40	225.12	6,483.8	-230.6	-305.0	-210.5	0.95	-0.12	-15.80
6,525.0	3.45	225.18	6,508.7	-231.7	-306.0	-211.5	0.20	0.20	0.24
6,550.0	3.40	225.56	6,533.7	-232.7	-307.1	-212.5	0.22	-0.20	1.52
6,575.0	3.45	226.33	6,558.7	-233.8	-308.2	-213.4	0.27	0.20	3.08
6,600.0	3.43	226.10	6,583.6	-234.8	-309.2	-214.4	0.10	-0.08	-0.92
6,625.0	3.52	226.35	6,608.6	-235.9	-310.3	-215.4	0.37	0.36	1.00
6,650.0	3.39	225.11	6,633.5	-236.9	-311.4	-216.3	0.60	-0.52	-4.96
6,675.0	3.15	226.77	6,658.5	-237.9	-312.4	-217.3	1.03	-0.96	6.64
6,700.0	3.08	227.13	6,683.4	-238.8	-313.4	-218.1	0.29	-0.28	1.44
6,725.0	2.55	219.77	6,708.4	-239.7	-314.3	-219.0	2.56	-2.12	-29.44
6,750.0	2.60	218.85	6,733.4	-240.6	-315.0	-219.8	0.26	0.20	-3.68
6,775.0	2.75	218.81	6,758.4	-241.5	-315.7	-220.6	0.60	0.60	-0.16
6,800.0	2.82	218.93	6,783.3	-242.4	-316.5	-221.5	0.28	0.28	0.48

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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	2.85	221.42	6,808.3	-243.4	-317.3	-222.4	0.51	0.12	9.96
6,850.0	3.13	228.34	6,833.3	-244.3	-318.2	-223.3	1.83	1.12	27.68
6,875.0	3.18	236.13	6,858.2	-245.1	-319.3	-224.1	1.73	0.20	31.16
6,900.0	3.35	240.33	6,883.2	-245.9	-320.5	-224.7	1.17	0.68	16.80
6,925.0	3.47	244.46	6,908.1	-246.6	-321.8	-225.3	1.09	0.48	16.52
6,950.0	3.28	247.92	6,933.1	-247.2	-323.2	-225.8	1.11	-0.76	13.84
6,975.0	3.22	249.36	6,958.1	-247.7	-324.5	-226.3	0.41	-0.24	5.76
7,000.0	3.34	247.50	6,983.0	-248.2	-325.8	-226.7	0.64	0.48	-7.44
7,025.0	3.32	248.89	7,008.0	-248.8	-327.2	-227.2	0.33	-0.08	5.56
7,050.0	3.39	248.44	7,032.9	-249.3	-328.5	-227.6	0.30	0.28	-1.80
7,075.0	3.47	248.69	7,057.9	-249.8	-329.9	-228.1	0.33	0.32	1.00
7,100.0	3.54	247.85	7,082.8	-250.4	-331.3	-228.5	0.35	0.28	-3.36
7,125.0	3.63	249.56	7,107.8	-251.0	-332.8	-229.0	0.56	0.36	6.84
7,150.0	3.76	249.45	7,132.7	-251.5	-334.3	-229.5	0.52	0.52	-0.44
7,175.0	3.92	249.32	7,157.7	-252.1	-335.9	-230.0	0.64	0.64	-0.52
7,200.0	4.07	250.23	7,182.6	-252.7	-337.5	-230.4	0.65	0.60	3.64
7,225.0	4.51	246.12	7,207.6	-253.4	-339.2	-231.0	2.15	1.76	-16.44
7,250.0	4.81	243.01	7,232.5	-254.3	-341.1	-231.8	1.57	1.20	-12.44
7,275.0	4.87	243.36	7,257.4	-255.3	-342.9	-232.6	0.27	0.24	1.40
7,300.0	4.97	243.44	7,282.3	-256.2	-344.9	-233.4	0.40	0.40	0.32
7,325.0	4.92	243.06	7,307.2	-257.2	-346.8	-234.3	0.24	-0.20	-1.52
7,350.0	5.05	243.11	7,332.1	-258.2	-348.7	-235.1	0.52	0.52	0.20
7,375.0	4.98	242.88	7,357.0	-259.2	-350.7	-236.0	0.29	-0.28	-0.92
7,400.0	5.16	245.03	7,381.9	-260.1	-352.7	-236.9	1.05	0.72	8.60
7,425.0	5.19	246.46	7,406.8	-261.1	-354.7	-237.6	0.53	0.12	5.72
7,450.0	5.18	247.30	7,431.7	-261.9	-356.8	-238.4	0.31	-0.04	3.36
7,475.0	5.29	247.22	7,456.6	-262.8	-358.9	-239.1	0.44	0.44	-0.32
7,500.0	5.35	247.78	7,481.5	-263.7	-361.0	-239.9	0.32	0.24	2.24
7,525.0	5.49	247.66	7,506.4	-264.6	-363.2	-240.6	0.56	0.56	-0.48
7,550.0	5.70	248.54	7,531.3	-265.5	-365.5	-241.4	0.91	0.84	3.52
7,575.0	5.71	247.64	7,556.1	-266.4	-367.8	-242.2	0.36	0.04	-3.60
7,600.0	5.88	246.88	7,581.0	-267.4	-370.1	-243.0	0.75	0.68	-3.04
7,625.0	5.94	246.27	7,605.9	-268.4	-372.5	-243.9	0.35	0.24	-2.44
7,650.0	5.96	245.24	7,630.7	-269.5	-374.8	-244.8	0.43	0.08	-4.12
7,675.0	5.89	244.37	7,655.6	-270.6	-377.2	-245.7	0.46	-0.28	-3.48
7,700.0	5.75	242.63	7,680.5	-271.7	-379.4	-246.7	0.90	-0.56	-6.96
7,725.0	5.61	241.21	7,705.4	-272.9	-381.6	-247.7	0.79	-0.56	-5.68
7,750.0	5.53	240.91	7,730.2	-274.1	-383.8	-248.8	0.34	-0.32	-1.20
7,775.0	5.34	240.38	7,755.1	-275.2	-385.8	-249.8	0.79	-0.76	-2.12
7,800.0	5.31	240.43	7,780.0	-276.4	-387.8	-250.8	0.12	-0.12	0.20
7,825.0	5.17	240.00	7,804.9	-277.5	-389.8	-251.8	0.58	-0.56	-1.72
7,850.0	5.13	240.43	7,829.8	-278.6	-391.8	-252.8	0.22	-0.16	1.72
7,875.0	4.95	240.26	7,854.7	-279.7	-393.7	-253.8	0.72	-0.72	-0.68

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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	4.82	240.52	7,879.6	-280.8	-395.5	-254.7	0.53	-0.52	1.04
7,925.0	4.66	240.30	7,904.5	-281.8	-397.3	-255.6	0.64	-0.64	-0.88
7,950.0	4.61	240.50	7,929.5	-282.8	-399.1	-256.5	0.21	-0.20	0.80
7,975.0	4.66	239.32	7,954.4	-283.8	-400.8	-257.4	0.43	0.20	-4.72
8,000.0	4.64	236.61	7,979.3	-284.9	-402.5	-258.3	0.88	-0.08	-10.84
8,025.0	4.84	236.20	8,004.2	-286.0	-404.3	-259.4	0.81	0.80	-1.64
8,050.0	4.80	235.99	8,029.1	-287.2	-406.0	-260.4	0.17	-0.16	-0.84
8,075.0	4.53	235.26	8,054.0	-288.3	-407.7	-261.5	1.11	-1.08	-2.92
8,100.0	4.25	236.00	8,079.0	-289.4	-409.3	-262.4	1.14	-1.12	2.96
8,125.0	4.02	234.90	8,103.9	-290.4	-410.7	-263.4	0.97	-0.92	-4.40
8,150.0	3.95	235.83	8,128.8	-291.4	-412.2	-264.2	0.38	-0.28	3.72
8,175.0	3.83	236.16	8,153.8	-292.4	-413.6	-265.1	0.49	-0.48	1.32
8,200.0	3.83	234.69	8,178.7	-293.3	-415.0	-266.0	0.39	0.00	-5.88
8,225.0	3.86	232.60	8,203.7	-294.3	-416.3	-266.9	0.57	0.12	-8.36
8,250.0	3.83	231.63	8,228.6	-295.3	-417.6	-267.8	0.29	-0.12	-3.88
8,275.0	3.68	230.36	8,253.6	-296.4	-418.9	-268.8	0.69	-0.60	-5.08
8,300.0	3.61	226.61	8,278.5	-297.4	-420.1	-269.7	0.99	-0.28	-15.00
8,325.0	3.57	227.13	8,303.5	-298.5	-421.2	-270.7	0.21	-0.16	2.08
8,350.0	3.86	226.19	8,328.4	-299.6	-422.4	-271.8	1.19	1.16	-3.76
8,375.0	4.03	225.44	8,353.4	-300.8	-423.6	-272.9	0.71	0.68	-3.00
8,400.0	4.13	225.21	8,378.3	-302.1	-424.9	-274.0	0.41	0.40	-0.92
8,425.0	4.26	223.71	8,403.2	-303.4	-426.2	-275.3	0.68	0.52	-6.00
8,445.0	4.30	224.91	8,423.2	-304.4	-427.2	-276.3	0.49	0.20	6.00
8,588.0	3.97	224.79	8,565.8	-311.7	-434.5	-283.1	0.23	-0.23	-0.08
First MWD Svy @ 8588'MD									
8,645.0	3.06	249.11	8,622.7	-313.7	-437.3	-284.8	3.03	-1.60	42.67
8,677.0	3.74	300.79	8,654.6	-313.5	-439.0	-284.5	9.45	2.13	161.50
8,708.0	5.86	322.20	8,685.5	-311.7	-440.9	-282.6	8.84	6.84	69.06
8,740.0	8.53	324.99	8,717.3	-308.4	-443.2	-279.2	8.41	8.34	8.72
8,772.0	12.38	327.39	8,748.7	-303.6	-446.4	-274.2	12.11	12.03	7.50
8,804.0	15.06	329.02	8,779.8	-297.2	-450.4	-267.5	8.46	8.38	5.09
8,835.0	17.23	329.58	8,809.6	-289.7	-454.8	-259.8	7.02	7.00	1.81
8,867.0	19.57	332.37	8,840.0	-280.9	-459.7	-250.7	7.81	7.31	8.72
8,898.0	22.36	332.04	8,868.9	-271.1	-464.9	-240.6	9.01	9.00	-1.06
8,930.0	25.18	333.01	8,898.2	-259.7	-470.8	-228.8	8.90	8.81	3.03
8,961.0	28.27	333.04	8,925.9	-247.2	-477.1	-216.0	9.97	9.97	0.10
8,993.0	31.62	332.94	8,953.6	-233.0	-484.4	-201.3	10.47	10.47	-0.31
9,024.0	35.11	333.10	8,979.5	-217.8	-492.1	-185.6	11.26	11.26	0.52
9,055.0	37.86	336.01	9,004.4	-201.2	-500.0	-168.5	10.48	8.87	9.39
9,087.0	40.05	338.85	9,029.3	-182.6	-507.7	-149.5	8.83	6.84	8.88
9,090.1	40.40	338.85	9,031.7	-180.7	-508.5	-147.6	11.36	11.35	0.10
FTP @ 9090.1'MD / 9031.7									
9,118.0	43.57	338.88	9,052.4	-163.3	-515.2	-129.8	11.36	11.35	0.10
9,150.0	47.51	339.67	9,074.8	-142.0	-523.3	-107.9	12.44	12.31	2.47

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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)
9,182.0	50.16	340.21	9,095.9	-119.3	-531.5	-84.8	8.38	8.28	1.69
9,213.0	52.66	340.64	9,115.2	-96.5	-539.6	-61.5	8.14	8.06	1.39
9,245.0	55.90	340.77	9,133.9	-72.0	-548.2	-36.5	10.13	10.13	0.41
9,277.0	59.88	340.39	9,150.9	-46.4	-557.2	-10.4	12.48	12.44	-1.19
9,308.0	63.51	340.33	9,165.6	-20.7	-566.4	15.8	11.71	11.71	-0.19
9,340.0	68.45	340.37	9,178.6	6.8	-576.2	43.9	15.44	15.44	0.13
9,372.0	72.81	340.72	9,189.2	35.3	-586.3	73.0	13.66	13.63	1.09
9,403.0	75.67	341.24	9,197.6	63.5	-596.0	101.7	9.37	9.23	1.68
9,435.0	79.23	341.39	9,204.6	93.0	-606.0	131.9	11.13	11.13	0.47
9,467.0	81.96	342.01	9,209.8	123.0	-615.9	162.5	8.74	8.53	1.94
9,498.0	84.05	342.81	9,213.6	152.3	-625.2	192.3	7.21	6.74	2.58
9,561.0	86.83	345.11	9,218.6	212.7	-642.6	253.7	5.72	4.41	3.65
9,601.0	86.94	344.71	9,220.8	251.2	-653.0	292.8	1.04	0.28	-1.00
9,696.0	85.88	344.85	9,226.7	342.7	-677.9	385.7	1.13	-1.12	0.15
9,790.0	89.66	347.23	9,230.4	433.9	-700.5	478.1	4.75	4.02	2.53
9,885.0	91.54	352.03	9,229.4	527.3	-717.6	572.4	5.43	1.98	5.05
9,980.0	91.29	353.74	9,227.0	621.5	-729.4	667.2	1.82	-0.26	1.80
10,075.0	91.46	353.61	9,224.8	715.9	-739.8	762.1	0.23	0.18	-0.14
10,170.0	90.08	357.59	9,223.5	810.6	-747.1	857.1	4.43	-1.45	4.19
10,264.0	90.36	358.49	9,223.1	904.5	-750.3	951.0	1.00	0.30	0.96
10,358.0	90.87	359.17	9,222.1	998.5	-752.2	1,044.9	0.90	0.54	0.72
10,453.0	90.14	359.38	9,221.3	1,093.5	-753.5	1,139.8	0.80	-0.77	0.22
10,548.0	89.94	2.22	9,221.2	1,188.5	-752.1	1,234.5	3.00	-0.21	2.99
10,642.0	91.65	4.45	9,219.9	1,282.3	-746.7	1,327.8	2.99	1.82	2.37
10,737.0	90.25	1.85	9,218.3	1,377.1	-741.4	1,422.1	3.11	-1.47	-2.74
10,831.0	90.36	0.39	9,217.8	1,471.1	-739.6	1,515.7	1.56	0.12	-1.55
10,926.0	90.87	1.64	9,216.8	1,566.1	-737.9	1,610.4	1.42	0.54	1.32
11,021.0	88.07	0.20	9,217.7	1,661.1	-736.4	1,705.1	3.31	-2.95	-1.52
11,116.0	87.98	359.77	9,221.0	1,756.0	-736.4	1,799.8	0.46	-0.09	-0.45
11,210.0	88.91	358.21	9,223.5	1,850.0	-738.1	1,893.7	1.93	0.99	-1.66
11,305.0	87.95	357.10	9,226.1	1,944.8	-742.0	1,988.6	1.54	-1.01	-1.17
11,399.0	89.19	357.97	9,228.5	2,038.7	-746.0	2,082.6	1.61	1.32	0.93
11,494.0	90.11	358.30	9,229.0	2,133.7	-749.1	2,177.5	1.03	0.97	0.35
11,588.0	89.92	359.68	9,229.0	2,227.7	-750.8	2,271.4	1.48	-0.20	1.47
11,682.0	89.50	359.14	9,229.5	2,321.6	-751.7	2,365.3	0.73	-0.45	-0.57
11,777.0	90.81	359.24	9,229.2	2,416.6	-753.1	2,460.1	1.38	1.38	0.11
11,879.0	91.04	359.50	9,227.6	2,518.6	-754.2	2,562.0	0.34	0.23	0.25
11,974.0	91.15	359.70	9,225.8	2,613.6	-754.8	2,656.8	0.24	0.12	0.21
12,069.0	88.40	0.74	9,226.1	2,708.6	-754.5	2,751.6	3.09	-2.89	1.09
12,163.0	90.34	1.14	9,227.2	2,802.6	-752.9	2,845.3	2.11	2.06	0.43
12,257.0	90.87	1.17	9,226.2	2,896.5	-751.0	2,938.9	0.56	0.56	0.03
12,337.0	90.78	0.29	9,225.0	2,976.5	-750.0	3,018.7	1.11	-0.11	-1.10
12,432.0	91.82	0.80	9,222.9	3,071.5	-749.1	3,113.4	1.22	1.09	0.54

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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)	
12,527.0	89.41	359.46	9,221.9	3,166.5	-748.9	3,208.2	2.90	-2.54	-1.41	
12,622.0	89.16	359.23	9,223.0	3,261.5	-750.0	3,303.0	0.36	-0.26	-0.24	
12,718.0	89.16	359.39	9,224.5	3,357.4	-751.1	3,398.9	0.17	0.00	0.17	
12,813.0	89.10	359.86	9,225.9	3,452.4	-751.8	3,493.7	0.50	-0.06	0.49	
12,907.0	89.08	358.97	9,227.4	3,546.4	-752.7	3,587.6	0.95	-0.02	-0.95	
13,002.0	89.02	358.15	9,229.0	3,641.4	-755.1	3,682.5	0.87	-0.06	-0.86	
13,096.0	90.06	359.79	9,229.7	3,735.3	-756.8	3,776.4	2.07	1.11	1.74	
13,191.0	90.00	0.50	9,229.7	3,830.3	-756.6	3,871.1	0.75	-0.06	0.75	
13,286.0	90.20	0.39	9,229.5	3,925.3	-755.8	3,965.9	0.24	0.21	-0.12	
13,380.0	90.25	1.28	9,229.1	4,019.3	-754.5	4,059.6	0.95	0.05	0.95	
13,475.0	89.92	357.55	9,229.0	4,114.3	-755.4	4,154.4	3.94	-0.35	-3.93	
13,569.0	89.13	353.91	9,229.8	4,208.0	-762.4	4,248.4	3.96	-0.84	-3.87	
13,664.0	89.86	357.70	9,230.6	4,302.8	-769.4	4,343.4	4.06	0.77	3.99	
13,759.0	89.44	2.05	9,231.2	4,397.7	-769.6	4,438.2	4.60	-0.44	4.58	
13,854.0	88.99	1.45	9,232.5	4,492.7	-766.7	4,532.7	0.79	-0.47	-0.63	
13,948.0	89.52	2.46	9,233.7	4,586.6	-763.5	4,626.3	1.21	0.56	1.07	
14,043.0	89.05	3.96	9,234.9	4,681.4	-758.2	4,720.6	1.65	-0.49	1.58	
14,138.0	88.77	2.54	9,236.7	4,776.3	-752.8	4,814.9	1.52	-0.29	-1.49	
14,232.0	88.35	0.56	9,239.1	4,870.2	-750.2	4,908.4	2.15	-0.45	-2.11	
14,328.0	88.80	359.28	9,241.5	4,966.2	-750.4	5,004.2	1.41	0.47	-1.33	
14,423.0	89.44	356.05	9,242.9	5,061.1	-754.2	5,099.2	3.47	0.67	-3.40	
14,518.0	91.37	357.90	9,242.2	5,155.9	-759.2	5,194.1	2.81	2.03	1.95	
14,613.0	90.92	359.15	9,240.3	5,250.9	-761.7	5,289.1	1.40	-0.47	1.32	
14,708.0	90.98	1.12	9,238.8	5,345.9	-761.5	5,383.8	2.07	0.06	2.07	
14,803.0	89.75	0.71	9,238.2	5,440.8	-759.9	5,478.5	1.36	-1.29	-0.43	
14,898.0	89.58	0.04	9,238.7	5,535.8	-759.3	5,573.3	0.73	-0.18	-0.71	
14,992.0	89.47	0.51	9,239.5	5,629.8	-758.9	5,667.0	0.51	-0.12	0.50	
15,087.0	90.25	1.83	9,239.7	5,724.8	-756.9	5,761.7	1.61	0.82	1.39	
15,182.0	88.52	359.82	9,240.8	5,819.8	-755.6	5,856.4	2.79	-1.82	-2.12	
15,277.0	88.07	358.13	9,243.6	5,914.7	-757.3	5,951.2	1.84	-0.47	-1.78	
15,372.0	88.07	355.93	9,246.8	6,009.5	-762.2	6,046.2	2.31	0.00	-2.32	
15,467.0	88.07	353.28	9,250.0	6,104.1	-771.1	6,141.1	2.79	0.00	-2.79	
15,557.0	89.61	355.29	9,251.8	6,193.6	-780.1	6,231.0	2.81	1.71	2.23	
15,652.0	90.00	359.16	9,252.1	6,288.5	-784.7	6,326.0	4.09	0.41	4.07	
15,746.0	90.11	2.97	9,252.0	6,382.4	-782.9	6,419.6	4.05	0.12	4.05	
15,841.0	90.20	3.99	9,251.8	6,477.2	-777.2	6,513.9	1.08	0.09	1.07	
15,936.0	90.08	2.45	9,251.5	6,572.1	-771.8	6,608.2	1.63	-0.13	-1.62	
16,031.0	90.14	0.81	9,251.4	6,667.0	-769.1	6,702.8	1.73	0.06	-1.73	
16,126.0	90.11	356.43	9,251.2	6,762.0	-771.4	6,797.7	4.61	-0.03	-4.61	
16,220.0	89.16	359.04	9,251.8	6,855.9	-775.1	6,891.6	2.95	-1.01	2.78	
16,315.0	89.02	0.24	9,253.3	6,950.9	-775.7	6,986.4	1.27	-0.15	1.26	
16,409.0	89.24	359.00	9,254.7	7,044.9	-776.3	7,080.3	1.34	0.23	-1.32	
16,503.0	89.19	359.67	9,256.0	7,138.9	-777.4	7,174.1	0.71	-0.05	0.71	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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)
16,598.0	89.27	359.71	9,257.3	7,233.9	-777.9	7,269.0	0.09	0.08	0.04
16,692.0	89.22	359.59	9,258.5	7,327.8	-778.5	7,362.8	0.14	-0.05	-0.13
16,787.0	89.38	1.08	9,259.7	7,422.8	-778.0	7,457.5	1.58	0.17	1.57
16,882.0	89.22	1.22	9,260.8	7,517.8	-776.1	7,552.2	0.22	-0.17	0.15
16,977.0	89.10	0.20	9,262.2	7,612.8	-774.9	7,646.9	1.08	-0.13	-1.07
17,071.0	89.10	0.50	9,263.7	7,706.8	-774.3	7,740.7	0.32	0.00	0.32
17,167.0	89.10	2.59	9,265.2	7,802.7	-771.7	7,836.2	2.18	0.00	2.18
17,261.0	90.11	2.85	9,265.8	7,896.6	-767.3	7,929.6	1.11	1.07	0.28
17,355.0	90.20	0.76	9,265.6	7,990.6	-764.3	8,023.2	2.23	0.10	-2.22
17,450.0	89.94	359.17	9,265.5	8,085.6	-764.4	8,118.0	1.70	-0.27	-1.67
17,545.0	90.31	357.37	9,265.3	8,180.5	-767.2	8,213.0	1.93	0.39	-1.89
17,639.0	90.20	357.94	9,264.8	8,274.4	-771.1	8,306.9	0.62	-0.12	0.61
17,734.0	88.29	0.07	9,266.1	8,369.4	-772.7	8,401.8	3.01	-2.01	2.24
17,828.0	88.07	1.89	9,269.1	8,463.3	-771.1	8,495.4	1.95	-0.23	1.94
17,923.0	89.27	359.48	9,271.3	8,558.3	-770.0	8,590.1	2.83	1.26	-2.54
18,017.0	89.30	358.83	9,272.5	8,652.3	-771.4	8,684.0	0.69	0.03	-0.69
18,112.0	89.64	0.76	9,273.3	8,747.3	-771.7	8,778.8	2.06	0.36	2.03
18,206.0	88.10	358.62	9,275.2	8,841.2	-772.2	8,872.6	2.80	-1.64	-2.28
18,301.0	88.01	358.96	9,278.4	8,936.2	-774.2	8,967.5	0.37	-0.09	0.36
18,396.0	89.41	1.39	9,280.6	9,031.1	-773.9	9,062.2	2.95	1.47	2.56
18,490.0	89.33	4.46	9,281.6	9,125.0	-769.1	9,155.6	3.27	-0.09	3.27
18,585.0	88.18	3.84	9,283.7	9,219.7	-762.3	9,249.7	1.38	-1.21	-0.65
18,679.0	88.12	0.44	9,286.7	9,313.6	-758.7	9,343.1	3.62	-0.06	-3.62
18,774.0	88.15	358.32	9,289.8	9,408.5	-759.8	9,437.9	2.23	0.03	-2.23
18,868.0	88.74	358.68	9,292.3	9,502.5	-762.2	9,531.8	0.74	0.63	0.38
18,963.0	90.17	358.53	9,293.2	9,597.4	-764.5	9,626.7	1.51	1.51	-0.16
19,058.0	90.11	358.02	9,293.0	9,692.4	-767.4	9,721.7	0.54	-0.06	-0.54
19,153.0	90.20	358.16	9,292.7	9,787.3	-770.6	9,816.6	0.18	0.09	0.15
19,247.0	90.06	1.12	9,292.5	9,881.3	-771.2	9,910.5	3.15	-0.15	3.15
19,342.0	90.00	357.74	9,292.5	9,976.3	-772.1	10,005.3	3.56	-0.06	-3.56
19,436.0	90.36	3.43	9,292.2	10,070.3	-771.2	10,099.0	6.07	0.38	6.05
19,536.0	89.19	4.02	9,292.6	10,170.0	-764.7	10,198.2	1.31	-1.17	0.59
19,631.0	88.18	1.80	9,294.8	10,264.9	-759.8	10,292.5	2.57	-1.06	-2.34
19,726.0	87.67	1.01	9,298.2	10,359.8	-757.5	10,387.1	0.99	-0.54	-0.83
19,820.0	87.65	0.16	9,302.0	10,453.7	-756.5	10,480.7	0.90	-0.02	-0.90
19,915.0	89.64	358.50	9,304.3	10,548.7	-757.7	10,575.6	2.73	2.09	-1.75
20,010.0	89.92	357.74	9,304.7	10,643.6	-760.8	10,670.5	0.85	0.29	-0.80
20,105.0	89.83	356.34	9,304.9	10,738.5	-765.7	10,765.5	1.48	-0.09	-1.47
20,200.0	88.80	357.06	9,306.0	10,833.3	-771.1	10,860.5	1.32	-1.08	0.76
20,294.0	88.52	358.52	9,308.2	10,927.2	-774.8	10,954.4	1.58	-0.30	1.55
20,389.0	89.13	1.20	9,310.1	11,022.2	-775.0	11,049.2	2.89	0.64	2.82
20,484.0	90.78	3.15	9,310.2	11,117.1	-771.4	11,143.7	2.69	1.74	2.05
20,579.0	89.44	2.39	9,310.0	11,212.0	-766.8	11,238.1	1.62	-1.41	-0.80
20,673.0	89.38	1.51	9,311.0	11,305.9	-763.6	11,331.6	0.94	-0.06	-0.94

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#706H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Site:	ATLAS	MD Reference:	RKB=3107.5+29 @ 3136.5usft (NORAM 21)
Well:	WAY SOUTH ST COM #706H	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)
20,768.0	89.52	0.26	9,311.9	11,400.9	-762.1	11,426.3	1.32	0.15	-1.32
20,862.0	90.06	0.91	9,312.3	11,494.9	-761.2	11,520.1	0.90	0.57	0.69
20,957.0	90.62	1.23	9,311.7	11,589.9	-759.4	11,614.7	0.68	0.59	0.34
21,051.0	91.37	1.35	9,310.1	11,683.9	-757.3	11,708.4	0.81	0.80	0.13
21,145.0	91.88	1.41	9,307.4	11,777.8	-755.0	11,802.0	0.55	0.54	0.06
21,240.0	92.10	1.00	9,304.1	11,872.7	-753.0	11,896.6	0.49	0.23	-0.43
21,330.5	89.21	358.99	9,303.1	11,963.2	-753.0	11,986.9	3.89	-3.19	-2.22
LTP @ 21330.5'MD / 9303.1'TVD									
21,334.0	89.10	358.91	9,303.1	11,966.7	-753.1	11,990.3	3.89	-3.19	-2.22
21,421.0	88.18	355.32	9,305.2	12,053.5	-757.5	12,077.3	4.26	-1.06	-4.13
Final MWD Svy @ 21421'MD									
21,459.0	88.18	355.32	9,306.4	12,091.4	-760.6	12,115.3	0.00	0.00	0.00
PTB @ 21459'MD/9306.4'TVD									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
FTP-Way South St Cc	0.00	0.00	9,223.0	-180.9	-742.7	364,063.30	563,771.40	32° 0' 2.724 N	104° 7' 39.411 W
- actual wellpath misses target center by 239.5usft at 9260.1usft MD (9142.2 TVD, -60.0 N, -552.4 E)									
- Circle (radius 50.0)									
LTP-Way South St Co	0.00	0.00	9,309.0	11,962.8	-780.7	376,207.00	563,733.40	32° 2' 2.907 N	104° 7' 39.584 W
- actual wellpath misses target center by 28.3usft at 21330.0usft MD (9303.1 TVD, 11962.7 N, -753.0 E)									
- Point									
PBHL-Way South St C	-0.43	179.82	9,310.0	12,092.8	-781.1	376,337.00	563,733.00	32° 2' 4.193 N	104° 7' 39.585 W
- actual wellpath misses target center by 20.9usft at 21459.0usft MD (9306.4 TVD, 12091.4 N, -760.6 E)									
- Point									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,588.0	8,565.8	-311.7	-434.5	First MWD Svy @ 8588'MD
9,090.1	9,031.7	-180.7	-508.5	FTP @ 9090.1'MD / 9031.7
21,330.5	9,303.1	11,963.2	-753.0	LTP @ 21330.5'MD / 9303.1'TVD
21,421.0	9,305.2	12,053.5	-757.5	Final MWD Svy @ 21421'MD
21,459.0	9,306.4	12,091.4	-760.6	PTB @ 21459'MD/9306.4'TVD

Checked By: _____ Approved By: _____ Date: _____