

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 30-015-45891	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 308269	Property Name WAY SOUTH STATE COM	Well Number 710H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3159.1'

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	805	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		205	NORTH	294	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

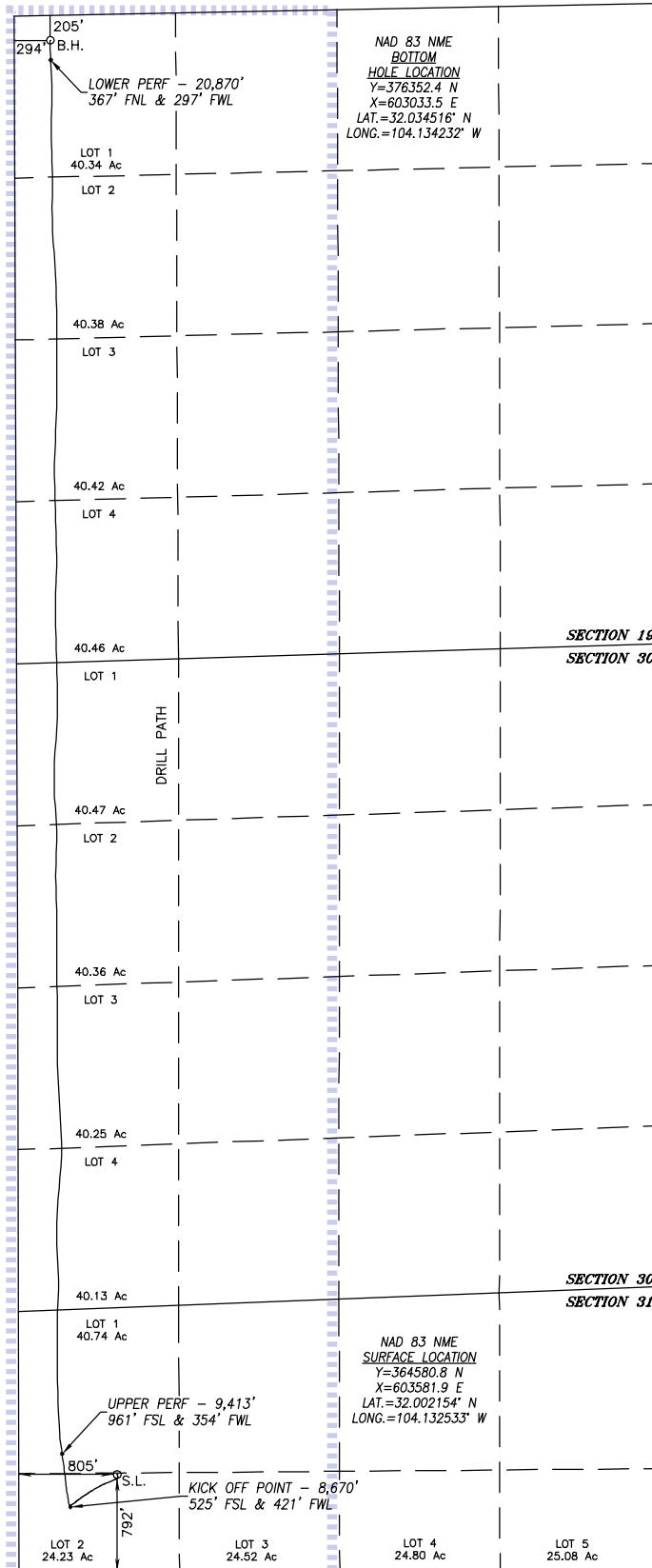
SEE PAGE 2

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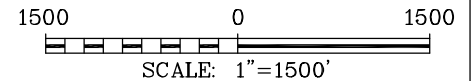
W.O. #20-414

DRAWN BY: WN

Property Code 308269	Property Name WAY SOUTH STATE COM	Well Number 710H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3159.1'



SURFACE INFO AND BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE WAY SOUTH STATE COM #710H 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.

FEB. 25, 2019/OCT. 8, 2019

Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



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

PAGE 2 OF 2

W.O. #20-414

DRAWN BY: WN

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

KZ 06/29/2018

NORTHERN DELAWARE BASIN

EDDY COUNTY, NM

ATLAS

WAY SOUTH ST COM #710H

OWB

Design: AWP

Standard Survey Report

08 October, 2019

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM #710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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 #710H					
Well Position	+N/-S	0.0 usft	Northing:	364,524.00 usft	Latitude:	32° 0' 7.309 N
	+E/-W	0.0 usft	Easting:	562,397.30 usft	Longitude:	104° 7' 55.358 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,159.1 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM2015	3/25/2019	7.04	59.72	47,549.92339654

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	357.51	

Survey Program	Date	10/8/2019			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	8,628.0	GYRO (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
8,628.0	21,032.0	MWD-CURVE/LAT (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	1.01	152.90	100.0	-0.8	0.4	-0.8	1.01	1.01	0.00	
125.0	1.48	147.76	125.0	-1.3	0.7	-1.3	1.93	1.88	-20.56	
150.0	1.66	148.71	150.0	-1.8	1.0	-1.9	0.73	0.72	3.80	
175.0	1.57	147.34	175.0	-2.4	1.4	-2.5	0.39	-0.36	-5.48	
200.0	1.64	145.55	200.0	-3.0	1.8	-3.1	0.34	0.28	-7.16	
225.0	1.60	149.70	224.9	-3.6	2.2	-3.7	0.50	-0.16	16.60	
250.0	1.70	150.82	249.9	-4.2	2.5	-4.3	0.42	0.40	4.48	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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	1.78	152.42	274.9	-4.9	2.9	-5.0	0.37	0.32	6.40	
300.0	1.76	152.14	299.9	-5.6	3.2	-5.7	0.09	-0.08	-1.12	
325.0	1.51	159.77	324.9	-6.2	3.5	-6.4	1.32	-1.00	30.52	
350.0	1.61	166.89	349.9	-6.9	3.7	-7.0	0.87	0.40	28.48	
375.0	1.53	166.97	374.9	-7.6	3.9	-7.7	0.32	-0.32	0.32	
400.0	1.36	162.93	399.9	-8.2	4.1	-8.3	0.79	-0.68	-16.16	
425.0	1.47	167.89	424.9	-8.8	4.2	-8.9	0.66	0.44	19.84	
450.0	1.53	169.46	449.9	-9.4	4.3	-9.6	0.29	0.24	6.28	
475.0	1.57	168.72	474.9	-10.1	4.5	-10.3	0.18	0.16	-2.96	
500.0	1.35	163.12	499.8	-10.7	4.6	-10.9	1.05	-0.88	-22.40	
525.0	1.51	167.99	524.8	-11.3	4.8	-11.5	0.80	0.64	19.48	
550.0	1.47	166.41	549.8	-11.9	4.9	-12.1	0.23	-0.16	-6.32	
575.0	1.46	163.79	574.8	-12.5	5.1	-12.8	0.27	-0.04	-10.48	
600.0	1.46	167.29	599.8	-13.2	5.2	-13.4	0.36	0.00	14.00	
625.0	1.43	167.13	624.8	-13.8	5.4	-14.0	0.12	-0.12	-0.64	
650.0	1.52	169.84	649.8	-14.4	5.5	-14.6	0.46	0.36	10.84	
675.0	1.50	168.39	674.8	-15.1	5.6	-15.3	0.17	-0.08	-5.80	
700.0	1.56	167.62	699.8	-15.7	5.8	-15.9	0.25	0.24	-3.08	
725.0	1.57	165.26	724.8	-16.4	5.9	-16.6	0.26	0.04	-9.44	
750.0	1.52	164.64	749.8	-17.0	6.1	-17.3	0.21	-0.20	-2.48	
775.0	1.61	166.83	774.8	-17.7	6.3	-17.9	0.43	0.36	8.76	
800.0	1.68	166.58	799.7	-18.4	6.4	-18.6	0.28	0.28	-1.00	
825.0	1.59	166.29	824.7	-19.1	6.6	-19.3	0.36	-0.36	-1.16	
850.0	1.72	164.70	849.7	-19.8	6.8	-20.0	0.55	0.52	-6.36	
875.0	1.80	163.45	874.7	-20.5	7.0	-20.8	0.35	0.32	-5.00	
900.0	1.74	165.82	899.7	-21.3	7.2	-21.5	0.38	-0.24	9.48	
925.0	1.67	165.24	924.7	-22.0	7.4	-22.3	0.29	-0.28	-2.32	
950.0	1.51	185.62	949.7	-22.7	7.4	-23.0	2.34	-0.64	81.52	
975.0	1.50	189.75	974.7	-23.3	7.4	-23.6	0.44	-0.04	16.52	
1,000.0	1.52	189.54	999.7	-24.0	7.2	-24.2	0.08	0.08	-0.84	
1,025.0	1.46	190.32	1,024.7	-24.6	7.1	-24.9	0.25	-0.24	3.12	
1,050.0	1.61	193.18	1,049.6	-25.2	7.0	-25.5	0.67	0.60	11.44	
1,075.0	1.55	192.92	1,074.6	-25.9	6.8	-26.2	0.24	-0.24	-1.04	
1,100.0	1.23	200.12	1,099.6	-26.5	6.7	-26.8	1.46	-1.28	28.80	
1,125.0	1.10	216.17	1,124.6	-26.9	6.4	-27.2	1.40	-0.52	64.20	
1,150.0	0.85	230.30	1,149.6	-27.3	6.2	-27.5	1.38	-1.00	56.52	
1,175.0	0.80	236.36	1,174.6	-27.5	5.9	-27.7	0.40	-0.20	24.24	
1,200.0	0.72	239.85	1,199.6	-27.7	5.6	-27.9	0.37	-0.32	13.96	
1,225.0	0.70	248.90	1,224.6	-27.8	5.3	-28.0	0.46	-0.08	36.20	
1,250.0	0.69	247.71	1,249.6	-27.9	5.0	-28.1	0.07	-0.04	-4.76	
1,275.0	0.70	249.90	1,274.6	-28.0	4.7	-28.2	0.11	0.04	8.76	
1,300.0	0.65	253.12	1,299.6	-28.1	4.5	-28.3	0.25	-0.20	12.88	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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	0.57	263.09	1,324.6	-28.2	4.2	-28.3	0.53	-0.32	39.88
1,350.0	0.59	258.34	1,349.6	-28.2	4.0	-28.3	0.21	0.08	-19.00
1,375.0	0.52	262.33	1,374.6	-28.2	3.7	-28.4	0.32	-0.28	15.96
1,400.0	0.63	274.49	1,399.6	-28.2	3.5	-28.4	0.65	0.44	48.64
1,425.0	0.55	266.76	1,424.6	-28.2	3.2	-28.4	0.45	-0.32	-30.92
1,450.0	0.50	271.33	1,449.6	-28.2	3.0	-28.3	0.26	-0.20	18.28
1,475.0	0.53	265.80	1,474.6	-28.2	2.8	-28.3	0.23	0.12	-22.12
1,500.0	0.58	268.28	1,499.6	-28.3	2.5	-28.3	0.22	0.20	9.92
1,525.0	0.66	265.99	1,524.6	-28.3	2.2	-28.3	0.33	0.32	-9.16
1,550.0	0.59	269.61	1,549.6	-28.3	2.0	-28.3	0.32	-0.28	14.48
1,575.0	0.49	260.56	1,574.6	-28.3	1.7	-28.4	0.52	-0.40	-36.20
1,600.0	0.61	251.89	1,599.6	-28.4	1.5	-28.4	0.58	0.48	-34.68
1,625.0	0.62	257.55	1,624.6	-28.4	1.3	-28.5	0.25	0.04	22.64
1,650.0	0.70	250.46	1,649.6	-28.5	1.0	-28.5	0.46	0.32	-28.36
1,675.0	0.65	258.81	1,674.6	-28.6	0.7	-28.6	0.44	-0.20	33.40
1,700.0	0.71	252.13	1,699.6	-28.7	0.4	-28.7	0.40	0.24	-26.72
1,725.0	0.59	253.33	1,724.6	-28.8	0.1	-28.7	0.48	-0.48	4.80
1,750.0	0.34	246.52	1,749.6	-28.8	-0.1	-28.8	1.02	-1.00	-27.24
1,775.0	0.33	202.22	1,774.6	-28.9	-0.2	-28.9	1.01	-0.04	-177.20
1,800.0	0.44	112.01	1,799.6	-29.0	-0.1	-29.0	2.20	0.44	-360.84
1,825.0	1.07	102.32	1,824.6	-29.1	0.2	-29.1	2.56	2.52	-38.76
1,850.0	1.21	101.83	1,849.6	-29.2	0.7	-29.2	0.56	0.56	-1.96
1,875.0	1.52	96.94	1,874.6	-29.3	1.3	-29.3	1.32	1.24	-19.56
1,900.0	1.59	95.88	1,899.6	-29.4	2.0	-29.4	0.30	0.28	-4.24
1,925.0	1.58	95.73	1,924.5	-29.4	2.7	-29.5	0.04	-0.04	-0.60
1,950.0	1.32	96.34	1,949.5	-29.5	3.3	-29.6	1.04	-1.04	2.44
1,975.0	0.63	106.97	1,974.5	-29.6	3.7	-29.7	2.84	-2.76	42.52
2,000.0	0.46	111.91	1,999.5	-29.7	3.9	-29.8	0.70	-0.68	19.76
2,025.0	0.29	154.55	2,024.5	-29.8	4.1	-29.9	1.26	-0.68	170.56
2,050.0	0.28	191.98	2,049.5	-29.9	4.1	-30.0	0.73	-0.04	149.72
2,075.0	0.69	216.37	2,074.5	-30.1	4.0	-30.2	1.80	1.64	97.56
2,100.0	0.77	216.96	2,099.5	-30.3	3.8	-30.4	0.32	0.32	2.36
2,125.0	1.08	223.72	2,124.5	-30.6	3.5	-30.7	1.31	1.24	27.04
2,150.0	1.35	226.61	2,149.5	-31.0	3.1	-31.1	1.11	1.08	11.56
2,175.0	1.51	224.10	2,174.5	-31.4	2.7	-31.5	0.69	0.64	-10.04
2,200.0	1.67	224.95	2,199.5	-31.9	2.2	-32.0	0.65	0.64	3.40
2,225.0	1.63	224.59	2,224.5	-32.4	1.7	-32.5	0.17	-0.16	-1.44
2,250.0	2.20	227.54	2,249.5	-33.0	1.1	-33.0	2.31	2.28	11.80
2,275.0	3.13	230.98	2,274.5	-33.8	0.2	-33.7	3.77	3.72	13.76
2,300.0	3.74	234.20	2,299.4	-34.7	-1.0	-34.6	2.56	2.44	12.88
2,325.0	4.37	240.02	2,324.3	-35.6	-2.5	-35.5	3.01	2.52	23.28
2,350.0	5.62	246.20	2,349.2	-36.6	-4.4	-36.4	5.44	5.00	24.72

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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	5.98	248.93	2,374.1	-37.6	-6.7	-37.2	1.81	1.44	10.92
2,400.0	6.17	248.99	2,399.0	-38.5	-9.2	-38.1	0.76	0.76	0.24
2,425.0	6.19	249.46	2,423.8	-39.5	-11.7	-38.9	0.22	0.08	1.88
2,450.0	6.13	248.78	2,448.7	-40.4	-14.2	-39.8	0.38	-0.24	-2.72
2,475.0	6.00	248.29	2,473.6	-41.4	-16.7	-40.6	0.56	-0.52	-1.96
2,500.0	5.92	248.53	2,498.4	-42.3	-19.1	-41.5	0.34	-0.32	0.96
2,525.0	5.65	247.68	2,523.3	-43.3	-21.4	-42.3	1.13	-1.08	-3.40
2,550.0	5.69	247.43	2,548.2	-44.2	-23.7	-43.1	0.19	0.16	-1.00
2,575.0	5.69	247.65	2,573.0	-45.2	-26.0	-44.0	0.09	0.00	0.88
2,600.0	5.49	246.97	2,597.9	-46.1	-28.3	-44.8	0.84	-0.80	-2.72
2,625.0	5.42	247.73	2,622.8	-47.0	-30.5	-45.7	0.40	-0.28	3.04
2,650.0	5.39	246.38	2,647.7	-47.9	-32.6	-46.5	0.52	-0.12	-5.40
2,675.0	5.41	245.62	2,672.6	-48.9	-34.8	-47.3	0.30	0.08	-3.04
2,700.0	5.29	244.10	2,697.5	-49.9	-36.9	-48.2	0.74	-0.48	-6.08
2,725.0	5.35	244.30	2,722.4	-50.9	-39.0	-49.2	0.25	0.24	0.80
2,750.0	5.39	245.70	2,747.3	-51.9	-41.1	-50.0	0.55	0.16	5.60
2,775.0	5.38	244.76	2,772.2	-52.9	-43.2	-50.9	0.36	-0.04	-3.76
2,800.0	5.44	244.55	2,797.0	-53.9	-45.4	-51.9	0.25	0.24	-0.84
2,825.0	5.62	244.31	2,821.9	-54.9	-47.5	-52.8	0.73	0.72	-0.96
2,850.0	5.85	245.82	2,846.8	-56.0	-49.8	-53.7	1.10	0.92	6.04
2,875.0	6.37	245.05	2,871.7	-57.1	-52.2	-54.8	2.11	2.08	-3.08
2,900.0	6.70	247.56	2,896.5	-58.2	-54.8	-55.8	1.75	1.32	10.04
2,925.0	6.89	248.08	2,921.3	-59.3	-57.6	-56.8	0.80	0.76	2.08
2,950.0	6.87	248.52	2,946.1	-60.4	-60.3	-57.8	0.23	-0.08	1.76
2,975.0	7.03	249.82	2,971.0	-61.5	-63.2	-58.7	0.90	0.64	5.20
3,000.0	7.15	249.82	2,995.8	-62.6	-66.1	-59.6	0.48	0.48	0.00
3,025.0	7.10	250.47	3,020.6	-63.6	-69.0	-60.6	0.38	-0.20	2.60
3,050.0	7.09	250.13	3,045.4	-64.7	-71.9	-61.5	0.17	-0.04	-1.36
3,075.0	6.92	250.37	3,070.2	-65.7	-74.8	-62.4	0.69	-0.68	0.96
3,100.0	6.88	250.34	3,095.0	-66.7	-77.6	-63.3	0.16	-0.16	-0.12
3,125.0	6.88	250.74	3,119.8	-67.7	-80.4	-64.2	0.19	0.00	1.60
3,150.0	6.72	249.96	3,144.7	-68.7	-83.2	-65.0	0.74	-0.64	-3.12
3,175.0	6.63	248.88	3,169.5	-69.7	-85.9	-65.9	0.62	-0.36	-4.32
3,200.0	6.32	249.51	3,194.3	-70.7	-88.6	-66.8	1.27	-1.24	2.52
3,225.0	6.35	248.48	3,219.2	-71.7	-91.1	-67.7	0.47	0.12	-4.12
3,250.0	6.15	248.29	3,244.0	-72.7	-93.7	-68.6	0.80	-0.80	-0.76
3,275.0	6.19	248.09	3,268.9	-73.7	-96.2	-69.5	0.18	0.16	-0.80
3,300.0	6.01	247.77	3,293.7	-74.7	-98.6	-70.4	0.73	-0.72	-1.28
3,325.0	6.02	246.45	3,318.6	-75.7	-101.0	-71.3	0.55	0.04	-5.28
3,350.0	5.81	246.40	3,343.5	-76.8	-103.4	-72.2	0.84	-0.84	-0.20
3,375.0	5.74	245.58	3,368.3	-77.8	-105.7	-73.1	0.43	-0.28	-3.28
3,400.0	5.67	245.17	3,393.2	-78.8	-107.9	-74.1	0.32	-0.28	-1.64

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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	5.77	244.79	3,418.1	-79.9	-110.2	-75.0	0.43	0.40	-1.52	
3,450.0	5.65	244.63	3,443.0	-80.9	-112.5	-76.0	0.48	-0.48	-0.64	
3,475.0	5.65	245.36	3,467.8	-82.0	-114.7	-76.9	0.29	0.00	2.92	
3,500.0	5.47	243.72	3,492.7	-83.0	-116.9	-77.9	0.96	-0.72	-6.56	
3,525.0	5.50	243.27	3,517.6	-84.1	-119.0	-78.8	0.21	0.12	-1.80	
3,550.0	5.58	242.64	3,542.5	-85.2	-121.2	-79.8	0.40	0.32	-2.52	
3,575.0	5.42	241.62	3,567.4	-86.3	-123.3	-80.9	0.75	-0.64	-4.08	
3,600.0	5.44	241.71	3,592.3	-87.4	-125.4	-81.9	0.09	0.08	0.36	
3,625.0	5.44	241.72	3,617.2	-88.6	-127.4	-82.9	0.00	0.00	0.04	
3,650.0	5.32	242.76	3,642.0	-89.6	-129.5	-83.9	0.62	-0.48	4.16	
3,675.0	5.38	242.00	3,666.9	-90.7	-131.6	-84.9	0.37	0.24	-3.04	
3,700.0	5.35	241.45	3,691.8	-91.8	-133.6	-85.9	0.24	-0.12	-2.20	
3,725.0	5.34	242.02	3,716.7	-92.9	-135.7	-87.0	0.22	-0.04	2.28	
3,750.0	5.23	240.08	3,741.6	-94.0	-137.7	-88.0	0.84	-0.44	-7.76	
3,775.0	5.31	238.82	3,766.5	-95.2	-139.7	-89.1	0.56	0.32	-5.04	
3,800.0	5.08	239.29	3,791.4	-96.4	-141.6	-90.1	0.94	-0.92	1.88	
3,825.0	5.07	239.63	3,816.3	-97.5	-143.5	-91.2	0.13	-0.04	1.36	
3,850.0	5.09	238.27	3,841.2	-98.6	-145.4	-92.2	0.49	0.08	-5.44	
3,875.0	5.15	240.38	3,866.1	-99.8	-147.4	-93.3	0.79	0.24	8.44	
3,900.0	5.26	239.18	3,891.0	-100.9	-149.3	-94.3	0.62	0.44	-4.80	
3,925.0	5.97	240.78	3,915.9	-102.1	-151.4	-95.5	2.91	2.84	6.40	
3,950.0	6.31	241.77	3,940.7	-103.4	-153.8	-96.7	1.42	1.36	3.96	
3,975.0	6.42	241.92	3,965.6	-104.7	-156.2	-97.9	0.44	0.44	0.60	
4,000.0	6.50	242.52	3,990.4	-106.0	-158.7	-99.1	0.42	0.32	2.40	
4,025.0	6.57	240.91	4,015.3	-107.4	-161.2	-100.3	0.78	0.28	-6.44	
4,050.0	6.40	242.42	4,040.1	-108.7	-163.7	-101.5	0.96	-0.68	6.04	
4,075.0	6.41	241.54	4,065.0	-110.0	-166.2	-102.7	0.39	0.04	-3.52	
4,100.0	6.45	241.02	4,089.8	-111.4	-168.6	-104.0	0.28	0.16	-2.08	
4,125.0	6.39	241.79	4,114.6	-112.7	-171.1	-105.2	0.42	-0.24	3.08	
4,150.0	6.33	241.94	4,139.5	-114.0	-173.5	-106.4	0.25	-0.24	0.60	
4,175.0	6.22	242.53	4,164.3	-115.3	-175.9	-107.6	0.51	-0.44	2.36	
4,200.0	6.21	242.70	4,189.2	-116.6	-178.3	-108.7	0.08	-0.04	0.68	
4,225.0	6.30	241.66	4,214.0	-117.8	-180.7	-109.9	0.58	0.36	-4.16	
4,250.0	6.37	241.47	4,238.9	-119.1	-183.2	-111.1	0.29	0.28	-0.76	
4,275.0	6.41	240.49	4,263.7	-120.5	-185.6	-112.3	0.46	0.16	-3.92	
4,300.0	6.27	241.95	4,288.6	-121.8	-188.0	-113.5	0.85	-0.56	5.84	
4,325.0	6.29	240.96	4,313.4	-123.1	-190.4	-114.7	0.44	0.08	-3.96	
4,350.0	6.22	241.38	4,338.3	-124.4	-192.8	-115.9	0.33	-0.28	1.68	
4,375.0	6.19	240.52	4,363.1	-125.8	-195.2	-117.2	0.39	-0.12	-3.44	
4,400.0	6.08	239.24	4,388.0	-127.1	-197.5	-118.4	0.70	-0.44	-5.12	
4,425.0	5.92	238.05	4,412.9	-128.5	-199.7	-119.7	0.81	-0.64	-4.76	
4,450.0	5.92	239.03	4,437.7	-129.8	-201.9	-120.9	0.40	0.00	3.92	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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	5.88	240.40	4,462.6	-131.1	-204.1	-122.1	0.59	-0.16	5.48	
4,500.0	5.64	238.76	4,487.5	-132.4	-206.3	-123.3	1.16	-0.96	-6.56	
4,525.0	5.64	238.69	4,512.3	-133.6	-208.4	-124.5	0.03	0.00	-0.28	
4,550.0	5.49	238.01	4,537.2	-134.9	-210.5	-125.6	0.66	-0.60	-2.72	
4,575.0	5.38	238.25	4,562.1	-136.2	-212.5	-126.8	0.45	-0.44	0.96	
4,600.0	5.57	237.87	4,587.0	-137.4	-214.5	-128.0	0.77	0.76	-1.52	
4,625.0	5.50	237.50	4,611.9	-138.7	-216.5	-129.2	0.31	-0.28	-1.48	
4,650.0	5.28	237.19	4,636.8	-140.0	-218.5	-130.4	0.89	-0.88	-1.24	
4,675.0	5.31	237.75	4,661.7	-141.2	-220.5	-131.5	0.24	0.12	2.24	
4,700.0	5.42	235.57	4,686.6	-142.5	-222.4	-132.7	0.93	0.44	-8.72	
4,725.0	5.23	235.84	4,711.4	-143.8	-224.3	-133.9	0.77	-0.76	1.08	
4,750.0	5.21	235.73	4,736.3	-145.1	-226.2	-135.1	0.09	-0.08	-0.44	
4,775.0	5.24	235.08	4,761.2	-146.4	-228.1	-136.3	0.27	0.12	-2.60	
4,800.0	5.09	235.89	4,786.1	-147.7	-229.9	-137.5	0.67	-0.60	3.24	
4,825.0	5.06	234.02	4,811.0	-148.9	-231.7	-138.7	0.67	-0.12	-7.48	
4,850.0	4.90	233.46	4,835.9	-150.2	-233.5	-139.9	0.67	-0.64	-2.24	
4,875.0	4.82	233.78	4,860.9	-151.5	-235.2	-141.1	0.34	-0.32	1.28	
4,900.0	4.78	232.80	4,885.8	-152.7	-236.9	-142.3	0.36	-0.16	-3.92	
4,925.0	4.59	236.01	4,910.7	-153.9	-238.5	-143.4	1.29	-0.76	12.84	
4,950.0	4.60	234.03	4,935.6	-155.1	-240.2	-144.5	0.64	0.04	-7.92	
4,975.0	4.56	234.44	4,960.5	-156.2	-241.8	-145.6	0.21	-0.16	1.64	
5,000.0	4.61	233.75	4,985.4	-157.4	-243.4	-146.7	0.30	0.20	-2.76	
5,025.0	4.59	233.04	5,010.4	-158.6	-245.0	-147.8	0.24	-0.08	-2.84	
5,050.0	4.68	236.32	5,035.3	-159.8	-246.7	-148.9	1.12	0.36	13.12	
5,075.0	4.57	238.62	5,060.2	-160.8	-248.4	-149.9	0.86	-0.44	9.20	
5,100.0	4.65	239.52	5,085.1	-161.9	-250.1	-150.9	0.43	0.32	3.60	
5,125.0	4.63	240.29	5,110.0	-162.9	-251.8	-151.8	0.26	-0.08	3.08	
5,150.0	4.65	239.80	5,135.0	-163.9	-253.6	-152.7	0.18	0.08	-1.96	
5,175.0	4.70	240.47	5,159.9	-164.9	-255.4	-153.7	0.30	0.20	2.68	
5,200.0	4.61	241.07	5,184.8	-165.9	-257.1	-154.6	0.41	-0.36	2.40	
5,225.0	4.40	238.83	5,209.7	-166.9	-258.8	-155.5	1.10	-0.84	-8.96	
5,250.0	4.49	238.75	5,234.6	-167.9	-260.5	-156.4	0.36	0.36	-0.32	
5,275.0	4.58	238.42	5,259.6	-168.9	-262.2	-157.4	0.37	0.36	-1.32	
5,300.0	4.53	238.04	5,284.5	-170.0	-263.9	-158.3	0.23	-0.20	-1.52	
5,325.0	4.44	238.20	5,309.4	-171.0	-265.5	-159.3	0.36	-0.36	0.64	
5,350.0	4.46	237.65	5,334.3	-172.0	-267.2	-160.3	0.19	0.08	-2.20	
5,375.0	4.46	238.66	5,359.3	-173.1	-268.8	-161.2	0.31	0.00	4.04	
5,400.0	4.44	238.19	5,384.2	-174.1	-270.5	-162.2	0.17	-0.08	-1.88	
5,425.0	4.55	238.54	5,409.1	-175.1	-272.1	-163.1	0.45	0.44	1.40	
5,450.0	4.47	237.96	5,434.0	-176.1	-273.8	-164.1	0.37	-0.32	-2.32	
5,475.0	4.36	238.13	5,458.9	-177.1	-275.4	-165.0	0.44	-0.44	0.68	
5,500.0	4.30	236.33	5,483.9	-178.2	-277.0	-166.0	0.59	-0.24	-7.20	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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	4.27	236.75	5,508.8	-179.2	-278.6	-166.9	0.17	-0.12	1.68	
5,550.0	4.36	237.90	5,533.7	-180.2	-280.2	-167.9	0.50	0.36	4.60	
5,575.0	4.25	235.65	5,558.7	-181.2	-281.7	-168.8	0.81	-0.44	-9.00	
5,600.0	4.26	234.58	5,583.6	-182.3	-283.3	-169.8	0.32	0.04	-4.28	
5,625.0	4.15	233.36	5,608.5	-183.4	-284.7	-170.8	0.57	-0.44	-4.88	
5,650.0	4.14	230.50	5,633.5	-184.5	-286.2	-171.9	0.83	-0.04	-11.44	
5,675.0	4.16	230.40	5,658.4	-185.6	-287.6	-173.0	0.09	0.08	-0.40	
5,700.0	4.12	230.02	5,683.3	-186.8	-288.9	-174.1	0.19	-0.16	-1.52	
5,725.0	4.03	230.16	5,708.3	-187.9	-290.3	-175.2	0.36	-0.36	0.56	
5,750.0	4.05	231.00	5,733.2	-189.1	-291.7	-176.2	0.25	0.08	3.36	
5,775.0	4.07	231.10	5,758.1	-190.2	-293.0	-177.3	0.08	0.08	0.40	
5,800.0	4.05	230.91	5,783.1	-191.3	-294.4	-178.3	0.10	-0.08	-0.76	
5,825.0	4.03	232.41	5,808.0	-192.4	-295.8	-179.3	0.43	-0.08	6.00	
5,850.0	4.09	231.19	5,833.0	-193.5	-297.2	-180.4	0.42	0.24	-4.88	
5,875.0	3.83	229.93	5,857.9	-194.6	-298.5	-181.4	1.10	-1.04	-5.04	
5,900.0	3.93	232.23	5,882.8	-195.6	-299.8	-182.4	0.74	0.40	9.20	
5,925.0	3.77	233.84	5,907.8	-196.6	-301.2	-183.4	0.77	-0.64	6.44	
5,950.0	3.79	232.25	5,932.7	-197.6	-302.5	-184.3	0.43	0.08	-6.36	
5,975.0	3.83	232.38	5,957.7	-198.6	-303.8	-185.3	0.16	0.16	0.52	
6,000.0	3.86	233.13	5,982.6	-199.7	-305.2	-186.2	0.23	0.12	3.00	
6,025.0	3.70	235.31	6,007.6	-200.6	-306.5	-187.1	0.86	-0.64	8.72	
6,050.0	3.97	233.97	6,032.5	-201.6	-307.9	-188.0	1.14	1.08	-5.36	
6,075.0	3.86	235.10	6,057.4	-202.6	-309.2	-189.0	0.54	-0.44	4.52	
6,100.0	3.68	235.86	6,082.4	-203.5	-310.6	-189.8	0.75	-0.72	3.04	
6,125.0	3.59	236.25	6,107.3	-204.4	-311.9	-190.7	0.37	-0.36	1.56	
6,150.0	3.60	236.26	6,132.3	-205.3	-313.2	-191.5	0.04	0.04	0.04	
6,175.0	3.55	237.75	6,157.2	-206.1	-314.5	-192.3	0.42	-0.20	5.96	
6,200.0	3.58	237.06	6,182.2	-207.0	-315.8	-193.0	0.21	0.12	-2.76	
6,225.0	3.61	237.50	6,207.1	-207.8	-317.2	-193.8	0.16	0.12	1.76	
6,250.0	3.46	234.97	6,232.1	-208.7	-318.4	-194.6	0.87	-0.60	-10.12	
6,275.0	3.63	235.01	6,257.1	-209.6	-319.7	-195.5	0.68	0.68	0.16	
6,300.0	3.06	236.10	6,282.0	-210.4	-320.9	-196.2	2.29	-2.28	4.36	
6,325.0	3.21	233.42	6,307.0	-211.2	-322.0	-197.0	0.84	0.60	-10.72	
6,350.0	2.72	238.75	6,331.9	-211.9	-323.1	-197.7	2.25	-1.96	21.32	
6,375.0	2.53	235.67	6,356.9	-212.5	-324.0	-198.2	0.95	-0.76	-12.32	
6,400.0	2.27	237.73	6,381.9	-213.1	-324.9	-198.8	1.10	-1.04	8.24	
6,425.0	2.12	234.42	6,406.9	-213.6	-325.7	-199.3	0.79	-0.60	-13.24	
6,450.0	1.78	231.68	6,431.9	-214.1	-326.4	-199.7	1.41	-1.36	-10.96	
6,475.0	1.56	234.74	6,456.8	-214.6	-327.0	-200.2	0.95	-0.88	12.24	
6,500.0	1.40	230.34	6,481.8	-215.0	-327.5	-200.5	0.78	-0.64	-17.60	
6,525.0	1.41	224.74	6,506.8	-215.4	-327.9	-200.9	0.55	0.04	-22.40	
6,550.0	1.32	225.72	6,531.8	-215.8	-328.4	-201.3	0.37	-0.36	3.92	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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	1.41	224.87	6,556.8	-216.2	-328.8	-201.7	0.37	0.36	-3.40
6,600.0	1.41	224.82	6,581.8	-216.6	-329.2	-202.1	0.00	0.00	-0.20
6,625.0	1.20	222.15	6,606.8	-217.1	-329.6	-202.5	0.87	-0.84	-10.68
6,650.0	1.32	232.39	6,631.8	-217.4	-330.0	-202.9	1.02	0.48	40.96
6,675.0	1.55	231.92	6,656.8	-217.8	-330.5	-203.2	0.92	0.92	-1.88
6,700.0	1.88	235.63	6,681.8	-218.3	-331.1	-203.7	1.39	1.32	14.84
6,725.0	1.86	237.47	6,706.8	-218.7	-331.8	-204.1	0.25	-0.08	7.36
6,750.0	2.01	235.04	6,731.8	-219.2	-332.5	-204.5	0.68	0.60	-9.72
6,775.0	2.07	236.01	6,756.7	-219.7	-333.2	-205.0	0.28	0.24	3.88
6,800.0	2.12	239.08	6,781.7	-220.2	-334.0	-205.4	0.49	0.20	12.28
6,825.0	2.27	234.10	6,806.7	-220.7	-334.8	-205.9	0.97	0.60	-19.92
6,850.0	2.33	237.43	6,831.7	-221.3	-335.6	-206.5	0.59	0.24	13.32
6,875.0	2.44	235.25	6,856.7	-221.8	-336.5	-207.0	0.57	0.44	-8.72
6,900.0	2.30	233.27	6,881.6	-222.4	-337.3	-207.6	0.65	-0.56	-7.92
6,925.0	2.31	231.83	6,906.6	-223.0	-338.1	-208.1	0.24	0.04	-5.76
6,950.0	2.14	226.21	6,931.6	-223.7	-338.9	-208.7	1.11	-0.68	-22.48
6,975.0	2.12	228.24	6,956.6	-224.3	-339.6	-209.3	0.31	-0.08	8.12
7,000.0	2.17	228.75	6,981.6	-224.9	-340.3	-209.9	0.21	0.20	2.04
7,025.0	2.18	224.01	7,006.5	-225.6	-340.9	-210.6	0.72	0.04	-18.96
7,050.0	2.18	223.03	7,031.5	-226.3	-341.6	-211.2	0.15	0.00	-3.92
7,075.0	2.15	223.15	7,056.5	-227.0	-342.2	-211.9	0.12	-0.12	0.48
7,100.0	2.37	222.67	7,081.5	-227.7	-342.9	-212.6	0.88	0.88	-1.92
7,125.0	2.42	223.47	7,106.5	-228.5	-343.6	-213.3	0.24	0.20	3.20
7,150.0	2.61	221.50	7,131.4	-229.3	-344.4	-214.1	0.83	0.76	-7.88
7,175.0	2.63	223.76	7,156.4	-230.1	-345.1	-214.9	0.42	0.08	9.04
7,200.0	2.85	231.30	7,181.4	-230.9	-346.0	-215.7	1.69	0.88	30.16
7,225.0	2.96	233.55	7,206.4	-231.7	-347.0	-216.4	0.63	0.44	9.00
7,250.0	3.01	234.10	7,231.3	-232.4	-348.1	-217.1	0.23	0.20	2.20
7,275.0	3.00	234.86	7,256.3	-233.2	-349.1	-217.8	0.16	-0.04	3.04
7,300.0	2.88	237.79	7,281.3	-233.9	-350.2	-218.5	0.77	-0.48	11.72
7,325.0	2.84	233.96	7,306.2	-234.6	-351.2	-219.1	0.78	-0.16	-15.32
7,350.0	2.63	235.85	7,331.2	-235.3	-352.2	-219.8	0.91	-0.84	7.56
7,375.0	2.53	234.59	7,356.2	-235.9	-353.1	-220.4	0.46	-0.40	-5.04
7,400.0	2.48	231.11	7,381.1	-236.6	-354.0	-221.0	0.64	-0.20	-13.92
7,425.0	2.54	230.42	7,406.1	-237.3	-354.9	-221.7	0.27	0.24	-2.76
7,450.0	2.52	229.33	7,431.1	-238.0	-355.7	-222.3	0.21	-0.08	-4.36
7,475.0	2.59	224.65	7,456.1	-238.8	-356.5	-223.1	0.88	0.28	-18.72
7,500.0	2.56	228.24	7,481.0	-239.5	-357.3	-223.8	0.66	-0.12	14.36
7,525.0	2.59	231.59	7,506.0	-240.3	-358.2	-224.5	0.61	0.12	13.40
7,550.0	2.78	235.08	7,531.0	-241.0	-359.1	-225.1	1.00	0.76	13.96
7,575.0	3.05	238.56	7,556.0	-241.7	-360.2	-225.8	1.29	1.08	13.92
7,600.0	3.08	241.60	7,580.9	-242.3	-361.4	-226.4	0.66	0.12	12.16

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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	3.12	243.30	7,605.9	-242.9	-362.6	-227.0	0.40	0.16	6.80
7,650.0	3.13	246.04	7,630.9	-243.5	-363.8	-227.5	0.60	0.04	10.96
7,675.0	3.10	245.66	7,655.8	-244.1	-365.0	-228.0	0.15	-0.12	-1.52
7,700.0	3.11	244.13	7,680.8	-244.7	-366.2	-228.5	0.33	0.04	-6.12
7,725.0	2.90	244.28	7,705.7	-245.2	-367.4	-229.0	0.84	-0.84	0.60
7,750.0	2.73	242.37	7,730.7	-245.8	-368.5	-229.5	0.78	-0.68	-7.64
7,775.0	2.60	243.57	7,755.7	-246.3	-369.6	-230.0	0.57	-0.52	4.80
7,800.0	2.40	246.00	7,780.7	-246.8	-370.5	-230.4	0.91	-0.80	9.72
7,825.0	2.43	246.21	7,805.6	-247.2	-371.5	-230.8	0.13	0.12	0.84
7,850.0	2.29	244.38	7,830.6	-247.6	-372.4	-231.2	0.64	-0.56	-7.32
7,875.0	2.17	246.69	7,855.6	-248.0	-373.3	-231.6	0.60	-0.48	9.24
7,900.0	2.01	248.11	7,880.6	-248.4	-374.2	-231.9	0.67	-0.64	5.68
7,925.0	2.00	247.76	7,905.6	-248.7	-375.0	-232.2	0.06	-0.04	-1.40
7,950.0	1.88	245.97	7,930.6	-249.0	-375.8	-232.5	0.54	-0.48	-7.16
7,975.0	1.87	243.01	7,955.5	-249.4	-376.5	-232.8	0.39	-0.04	-11.84
8,000.0	1.94	237.49	7,980.5	-249.8	-377.2	-233.2	0.79	0.28	-22.08
8,025.0	1.86	229.82	8,005.5	-250.3	-377.9	-233.6	1.07	-0.32	-30.68
8,050.0	1.79	211.73	8,030.5	-250.9	-378.4	-234.2	2.31	-0.28	-72.36
8,075.0	1.75	200.96	8,055.5	-251.6	-378.7	-234.9	1.34	-0.16	-43.08
8,100.0	1.78	197.11	8,080.5	-252.3	-379.0	-235.6	0.49	0.12	-15.40
8,125.0	1.74	197.13	8,105.5	-253.0	-379.2	-236.3	0.16	-0.16	0.08
8,150.0	1.78	194.03	8,130.5	-253.8	-379.4	-237.1	0.41	0.16	-12.40
8,175.0	1.86	193.08	8,155.4	-254.6	-379.6	-237.8	0.34	0.32	-3.80
8,200.0	1.80	190.15	8,180.4	-255.3	-379.8	-238.6	0.44	-0.24	-11.72
8,225.0	1.63	192.58	8,205.4	-256.1	-379.9	-239.3	0.74	-0.68	9.72
8,250.0	1.52	195.04	8,230.4	-256.7	-380.1	-240.0	0.52	-0.44	9.84
8,275.0	1.44	204.11	8,255.4	-257.3	-380.3	-240.6	0.99	-0.32	36.28
8,300.0	1.63	198.69	8,280.4	-258.0	-380.5	-241.2	0.96	0.76	-21.68
8,325.0	1.75	200.65	8,305.4	-258.7	-380.8	-241.9	0.53	0.48	7.84
8,350.0	1.60	194.62	8,330.4	-259.4	-381.0	-242.6	0.92	-0.60	-24.12
8,375.0	1.72	184.74	8,355.4	-260.1	-381.1	-243.3	1.24	0.48	-39.52
8,400.0	1.76	185.39	8,380.3	-260.8	-381.2	-244.0	0.18	0.16	2.60
8,425.0	1.93	179.55	8,405.3	-261.6	-381.2	-244.8	1.01	0.68	-23.36
8,450.0	2.15	183.29	8,430.3	-262.5	-381.3	-245.7	1.03	0.88	14.96
8,475.0	2.19	185.43	8,455.3	-263.5	-381.3	-246.6	0.36	0.16	8.56
8,500.0	2.20	183.76	8,480.3	-264.4	-381.4	-247.6	0.26	0.04	-6.68
8,525.0	2.19	185.05	8,505.3	-265.4	-381.5	-248.5	0.20	-0.04	5.16
8,550.0	2.35	184.54	8,530.2	-266.4	-381.6	-249.5	0.65	0.64	-2.04
8,575.0	2.31	182.87	8,555.2	-267.4	-381.6	-250.5	0.32	-0.16	-6.68
8,600.0	2.18	185.07	8,580.2	-268.3	-381.7	-251.5	0.62	-0.52	8.80
8,625.0	2.02	187.63	8,605.2	-269.3	-381.8	-252.4	0.74	-0.64	10.24
8,628.0	2.00	187.97	8,608.2	-269.4	-381.8	-252.5	0.78	-0.67	11.33

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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)
8,739.0	9.00	334.09	8,718.8	-263.5	-385.9	-246.4	9.66	6.31	131.64
8,785.0	14.92	342.11	8,763.8	-254.6	-389.3	-237.4	13.34	12.87	17.43
8,831.0	20.48	343.41	8,807.6	-241.2	-393.4	-223.9	12.12	12.09	2.83
8,878.0	23.97	346.84	8,851.1	-224.0	-397.9	-206.5	7.92	7.43	7.30
8,924.0	27.92	350.61	8,892.4	-204.3	-401.8	-186.7	9.30	8.59	8.20
8,955.0	31.77	352.92	8,919.3	-189.0	-404.0	-171.3	12.96	12.42	7.45
8,986.0	35.18	350.46	8,945.2	-172.1	-406.5	-154.3	11.84	11.00	-7.94
9,017.0	38.77	349.98	8,969.9	-153.8	-409.7	-135.8	11.62	11.58	-1.55
9,049.0	43.21	351.68	8,994.1	-133.0	-413.0	-115.0	14.30	13.88	5.31
9,080.0	45.53	350.78	9,016.3	-111.6	-416.3	-93.4	7.75	7.48	-2.90
9,111.0	48.08	353.46	9,037.5	-89.2	-419.4	-70.9	10.36	8.23	8.65
9,142.0	50.99	354.31	9,057.6	-65.8	-421.9	-47.4	9.62	9.39	2.74
9,173.0	52.16	353.87	9,076.9	-41.6	-424.4	-23.2	3.93	3.77	-1.42
9,203.0	54.44	352.44	9,094.8	-17.7	-427.3	0.8	8.51	7.60	-4.77
9,235.0	58.02	352.75	9,112.6	8.6	-430.7	27.3	11.22	11.19	0.97
9,267.0	60.63	352.63	9,128.9	35.9	-434.2	54.8	8.16	8.16	-0.38
9,297.0	63.29	352.38	9,143.0	62.2	-437.6	81.1	8.90	8.87	-0.83
9,328.0	66.52	352.71	9,156.1	90.0	-441.3	109.1	10.46	10.42	1.06
9,358.0	67.29	352.50	9,167.9	117.4	-444.8	136.6	2.65	2.57	-0.70
9,389.0	69.42	352.43	9,179.3	145.9	-448.6	165.3	6.87	6.87	-0.23
9,420.0	73.70	352.64	9,189.1	175.1	-452.4	194.6	13.82	13.81	0.68
9,451.0	75.16	351.68	9,197.5	204.7	-456.5	224.3	5.57	4.71	-3.10
9,482.0	78.79	352.45	9,204.5	234.6	-460.7	254.4	11.96	11.71	2.48
9,513.0	83.69	353.06	9,209.2	265.0	-464.5	284.9	15.93	15.81	1.97
9,544.0	84.65	354.55	9,212.3	295.6	-467.9	315.7	5.70	3.10	4.81
9,574.0	84.96	356.92	9,215.0	325.4	-470.1	345.5	7.94	1.03	7.90
9,667.0	86.70	356.07	9,221.8	418.0	-475.8	438.3	2.08	1.87	-0.91
9,737.0	86.96	357.02	9,225.7	487.8	-480.0	508.1	1.41	0.37	1.36
9,830.0	87.86	358.58	9,229.9	580.6	-483.5	601.0	1.94	0.97	1.68
9,924.0	87.49	358.77	9,233.7	674.5	-485.7	694.9	0.44	-0.39	0.20
10,017.0	89.15	357.79	9,236.4	767.4	-488.5	787.9	2.07	1.78	-1.05
10,111.0	91.16	358.91	9,236.2	861.4	-491.2	881.9	2.45	2.14	1.19
10,205.0	91.08	359.79	9,234.3	955.3	-492.3	975.8	0.94	-0.09	0.94
10,297.0	91.02	0.30	9,232.6	1,047.3	-492.2	1,067.7	0.56	-0.07	0.55
10,389.0	90.49	0.35	9,231.4	1,139.3	-491.7	1,159.6	0.58	-0.58	0.05
10,482.0	87.97	358.81	9,232.7	1,232.3	-492.4	1,252.5	3.18	-2.71	-1.66
10,575.0	89.76	3.28	9,234.5	1,325.2	-490.7	1,345.3	5.18	1.92	4.81
10,667.0	88.87	4.88	9,235.6	1,417.0	-484.1	1,436.7	1.99	-0.97	1.74
10,761.0	87.46	2.33	9,238.6	1,510.7	-478.2	1,530.1	3.10	-1.50	-2.71
10,854.0	87.49	358.06	9,242.7	1,603.6	-477.9	1,622.9	4.59	0.03	-4.59
10,948.0	87.52	355.34	9,246.8	1,697.4	-483.3	1,716.8	2.89	0.03	-2.89
11,042.0	90.55	356.58	9,248.4	1,791.1	-489.9	1,810.7	3.48	3.22	1.32

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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)	
11,135.0	91.55	359.16	9,246.7	1,884.0	-493.4	1,903.7	2.97	1.08	2.77	
11,228.0	91.95	0.02	9,243.9	1,977.0	-494.0	1,996.6	1.02	0.43	0.92	
11,319.0	91.42	0.75	9,241.2	2,067.9	-493.4	2,087.4	0.99	-0.58	0.80	
11,413.0	88.64	2.75	9,241.1	2,161.9	-490.6	2,181.1	3.64	-2.96	2.13	
11,507.0	90.41	5.40	9,241.9	2,255.6	-483.9	2,274.5	3.39	1.88	2.82	
11,599.0	87.44	4.31	9,243.6	2,347.3	-476.1	2,365.7	3.44	-3.23	-1.18	
11,691.0	89.29	5.79	9,246.3	2,438.9	-468.0	2,456.9	2.57	2.01	1.61	
11,785.0	88.33	4.78	9,248.2	2,532.4	-459.3	2,550.0	1.48	-1.02	-1.07	
11,877.0	86.62	0.96	9,252.3	2,624.2	-454.7	2,641.5	4.55	-1.86	-4.15	
11,970.0	88.47	356.70	9,256.3	2,717.1	-456.6	2,734.4	4.99	1.99	-4.58	
12,062.0	91.89	357.05	9,256.0	2,808.9	-461.6	2,826.3	3.74	3.72	0.38	
12,156.0	91.41	357.31	9,253.3	2,902.8	-466.3	2,920.3	0.58	-0.51	0.28	
12,249.0	89.29	355.82	9,252.7	2,995.6	-471.8	3,013.3	2.79	-2.28	-1.60	
12,342.0	89.87	357.53	9,253.4	3,088.4	-477.2	3,106.3	1.94	0.62	1.84	
12,435.0	90.10	357.62	9,253.4	3,181.4	-481.2	3,199.3	0.27	0.25	0.10	
12,528.0	93.21	357.84	9,250.7	3,274.2	-484.9	3,292.2	3.35	3.34	0.24	
12,622.0	88.47	357.75	9,249.3	3,368.1	-488.5	3,386.2	5.04	-5.04	-0.10	
12,715.0	90.43	358.75	9,250.2	3,461.1	-491.3	3,479.1	2.37	2.11	1.08	
12,810.0	88.70	0.01	9,250.9	3,556.1	-492.3	3,574.1	2.25	-1.82	1.33	
12,903.0	90.21	0.70	9,251.8	3,649.0	-491.8	3,667.0	1.79	1.62	0.74	
12,997.0	89.31	1.51	9,252.2	3,743.0	-489.9	3,760.8	1.29	-0.96	0.86	
13,089.0	86.17	358.77	9,255.9	3,834.9	-489.7	3,852.6	4.53	-3.41	-2.98	
13,183.0	86.45	359.08	9,261.9	3,928.7	-491.5	3,946.4	0.44	0.30	0.33	
13,276.0	87.46	357.89	9,266.8	4,021.6	-493.9	4,039.2	1.68	1.09	-1.28	
13,370.0	88.16	359.27	9,270.4	4,115.5	-496.3	4,133.1	1.65	0.74	1.47	
13,464.0	90.13	0.32	9,271.8	4,209.4	-496.6	4,227.0	2.37	2.10	1.12	
13,557.0	90.63	0.32	9,271.2	4,302.4	-496.1	4,319.9	0.54	0.54	0.00	
13,706.0	90.46	359.70	9,269.8	4,451.4	-496.1	4,468.8	0.43	-0.11	-0.42	
13,800.0	89.87	359.58	9,269.5	4,545.4	-496.6	4,562.7	0.64	-0.63	-0.13	
13,892.0	90.15	359.55	9,269.5	4,637.4	-497.3	4,654.6	0.31	0.30	-0.03	
13,985.0	89.99	358.10	9,269.4	4,730.4	-499.3	4,747.6	1.57	-0.17	-1.56	
14,077.0	90.01	358.53	9,269.4	4,822.4	-502.0	4,839.6	0.47	0.02	0.47	
14,169.0	89.59	0.16	9,269.7	4,914.3	-503.0	4,931.6	1.83	-0.46	1.77	
14,262.0	89.76	1.17	9,270.3	5,007.3	-501.9	5,024.4	1.10	0.18	1.09	
14,355.0	90.01	2.14	9,270.4	5,100.3	-499.2	5,117.2	1.08	0.27	1.04	
14,447.0	91.05	1.71	9,269.6	5,192.2	-496.2	5,208.9	1.22	1.13	-0.47	
14,542.0	90.91	358.96	9,268.0	5,287.2	-495.6	5,303.8	2.90	-0.15	-2.89	
14,634.0	90.01	356.93	9,267.2	5,379.2	-498.9	5,395.7	2.41	-0.98	-2.21	
14,728.0	88.11	354.59	9,268.8	5,472.9	-505.8	5,489.7	3.21	-2.02	-2.49	
14,821.0	89.12	355.24	9,271.0	5,565.5	-514.1	5,582.6	1.29	1.09	0.70	
14,914.0	92.09	0.63	9,270.0	5,658.4	-517.4	5,675.5	6.62	3.19	5.80	
15,006.0	89.76	1.46	9,268.5	5,750.3	-515.8	5,767.3	2.69	-2.53	0.90	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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)	
15,098.0	89.23	2.16	9,269.4	5,842.3	-512.8	5,859.0	0.95	-0.58	0.76	
15,191.0	90.32	3.40	9,269.7	5,935.2	-508.3	5,951.6	1.78	1.17	1.33	
15,284.0	91.02	3.80	9,268.6	6,028.0	-502.5	6,044.1	0.87	0.75	0.43	
15,377.0	91.50	3.25	9,266.6	6,120.8	-496.8	6,136.6	0.78	0.52	-0.59	
15,469.0	89.99	1.95	9,265.4	6,212.7	-492.6	6,228.2	2.17	-1.64	-1.41	
15,563.0	89.06	0.96	9,266.2	6,306.6	-490.2	6,322.0	1.44	-0.99	-1.05	
15,655.0	87.58	359.77	9,268.9	6,398.6	-489.6	6,413.8	2.06	-1.61	-1.29	
15,748.0	85.98	358.58	9,274.1	6,491.4	-491.0	6,506.6	2.14	-1.72	-1.28	
15,841.0	85.56	358.43	9,281.0	6,584.1	-493.4	6,599.4	0.48	-0.45	-0.16	
15,935.0	86.96	357.59	9,287.1	6,677.9	-496.7	6,693.2	1.74	1.49	-0.89	
16,028.0	89.45	358.44	9,290.0	6,770.8	-499.9	6,786.1	2.83	2.68	0.91	
16,121.0	92.11	358.47	9,288.7	6,863.7	-502.4	6,879.1	2.86	2.86	0.03	
16,215.0	94.27	358.68	9,283.5	6,957.5	-504.7	6,972.9	2.31	2.30	0.22	
16,307.0	91.95	359.01	9,278.5	7,049.4	-506.6	7,064.7	2.55	-2.52	0.36	
16,401.0	90.04	0.78	9,276.9	7,143.4	-506.7	7,158.6	2.77	-2.03	1.88	
16,494.0	87.04	1.18	9,279.2	7,236.3	-505.1	7,251.4	3.25	-3.23	0.43	
16,587.0	86.90	3.36	9,284.2	7,329.1	-501.5	7,344.0	2.35	-0.15	2.34	
16,618.0	86.68	3.45	9,285.9	7,360.0	-499.6	7,374.7	0.77	-0.71	0.29	
16,711.0	89.03	0.57	9,289.4	7,452.9	-496.4	7,467.4	4.00	2.53	-3.10	
16,803.0	90.07	358.73	9,290.1	7,544.8	-496.9	7,559.3	2.30	1.13	-2.00	
16,897.0	90.10	358.89	9,290.0	7,638.8	-498.9	7,653.3	0.17	0.03	0.17	
16,990.0	89.79	358.88	9,290.1	7,731.8	-500.7	7,746.3	0.33	-0.33	-0.01	
17,083.0	89.93	357.96	9,290.3	7,824.8	-503.3	7,839.2	1.00	0.15	-0.99	
17,176.0	89.23	357.80	9,291.0	7,917.7	-506.7	7,932.2	0.77	-0.75	-0.17	
17,269.0	89.65	358.10	9,291.9	8,010.6	-510.0	8,025.2	0.55	0.45	0.32	
17,362.0	89.76	359.41	9,292.4	8,103.6	-512.0	8,118.2	1.41	0.12	1.41	
17,456.0	89.65	359.31	9,292.8	8,197.6	-513.1	8,212.2	0.16	-0.12	-0.11	
17,549.0	89.79	0.86	9,293.3	8,290.6	-513.0	8,305.1	1.67	0.15	1.67	
17,641.0	89.68	1.49	9,293.7	8,382.6	-511.1	8,396.9	0.70	-0.12	0.68	
17,736.0	90.18	2.66	9,293.8	8,477.5	-507.6	8,491.6	1.34	0.53	1.23	
17,828.0	89.82	3.18	9,293.8	8,569.4	-502.9	8,583.2	0.69	-0.39	0.57	
17,921.0	89.59	2.62	9,294.3	8,662.3	-498.2	8,675.7	0.65	-0.25	-0.60	
18,015.0	89.68	0.24	9,294.9	8,756.2	-495.9	8,769.5	2.53	0.10	-2.53	
18,107.0	89.87	0.52	9,295.3	8,848.2	-495.3	8,861.4	0.37	0.21	0.30	
18,201.0	89.76	0.38	9,295.6	8,942.2	-494.5	8,955.3	0.19	-0.12	-0.15	
18,293.0	90.99	0.89	9,295.0	9,034.2	-493.5	9,047.1	1.45	1.34	0.55	
18,387.0	88.84	358.79	9,295.1	9,128.2	-493.8	9,141.0	3.20	-2.29	-2.23	
18,444.0	88.44	359.25	9,296.5	9,185.2	-494.8	9,198.0	1.07	-0.70	0.81	
18,538.0	89.57	1.14	9,298.1	9,279.2	-494.4	9,291.9	2.34	1.20	2.01	
18,631.0	88.87	0.32	9,299.4	9,372.1	-493.3	9,384.7	1.16	-0.75	-0.88	
18,725.0	88.84	359.29	9,301.2	9,466.1	-493.6	9,478.6	1.10	-0.03	-1.10	
18,820.0	88.84	357.55	9,303.2	9,561.1	-496.2	9,573.6	1.83	0.00	-1.83	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well WAY SOUTH ST COM#710H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Site:	ATLAS	MD Reference:	RKB=3159.1+31 @ 3190.1usft (PRECISION 601)
Well:	WAY SOUTH ST COM #710H	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)
18,912.0	88.92	358.50	9,305.0	9,653.0	-499.4	9,665.6	1.04	0.09	1.03
19,005.0	89.62	358.51	9,306.1	9,746.0	-501.8	9,758.6	0.75	0.75	0.01
19,097.0	89.79	357.99	9,306.6	9,837.9	-504.6	9,850.5	0.59	0.18	-0.57
19,190.0	89.85	355.72	9,306.9	9,930.8	-509.7	9,943.5	2.44	0.06	-2.44
19,283.0	89.87	355.31	9,307.1	10,023.5	-517.0	10,036.5	0.44	0.02	-0.44
19,375.0	89.96	356.43	9,307.3	10,115.2	-523.6	10,128.4	1.22	0.10	1.22
19,468.0	89.62	357.35	9,307.6	10,208.1	-528.6	10,221.4	1.05	-0.37	0.99
19,563.0	89.96	358.63	9,308.0	10,303.0	-532.0	10,316.4	1.39	0.36	1.35
19,656.0	89.51	0.41	9,308.4	10,396.0	-532.8	10,409.4	1.97	-0.48	1.91
19,749.0	89.01	2.02	9,309.6	10,489.0	-530.8	10,502.2	1.81	-0.54	1.73
19,843.0	88.59	1.55	9,311.6	10,582.9	-527.9	10,595.9	0.67	-0.45	-0.50
19,936.0	88.64	357.19	9,313.8	10,675.9	-528.9	10,688.8	4.69	0.05	-4.69
20,028.0	89.20	356.39	9,315.5	10,767.7	-534.0	10,780.7	1.06	0.61	-0.87
20,120.0	89.93	359.30	9,316.2	10,859.6	-537.5	10,872.7	3.26	0.79	3.16
20,215.0	89.90	359.82	9,316.4	10,954.6	-538.2	10,967.7	0.55	-0.03	0.55
20,307.0	90.04	359.88	9,316.4	11,046.6	-538.5	11,059.6	0.17	0.15	0.07
20,400.0	90.04	0.40	9,316.4	11,139.6	-538.2	11,152.5	0.56	0.00	0.56
20,493.0	89.45	1.67	9,316.8	11,232.6	-536.6	11,245.3	1.51	-0.63	1.37
20,585.0	89.79	359.85	9,317.4	11,324.6	-535.3	11,337.2	2.01	0.37	-1.98
20,677.0	89.59	358.54	9,317.9	11,416.6	-536.6	11,429.1	1.44	-0.22	-1.42
20,769.0	89.85	358.01	9,318.3	11,508.5	-539.4	11,521.1	0.64	0.28	-0.58
20,862.0	89.54	356.60	9,318.8	11,601.4	-543.8	11,614.1	1.55	-0.33	-1.52
20,906.6	89.88	357.55	9,319.1	11,646.0	-546.0	11,658.7	2.25	0.76	2.12
LTP @ 20906.6'MD / 9319.1'TVD									
20,954.0	90.24	358.55	9,319.0	11,693.3	-547.7	11,706.1	2.25	0.76	2.12
20,993.0	90.97	359.90	9,318.6	11,732.3	-548.2	11,745.1	3.94	1.87	3.46
Final MWD Survey @ 20993'MD									
21,032.0	90.97	359.90	9,317.9	11,771.3	-548.3	11,784.0	0.00	0.00	0.00
PTD @ 21032'MD									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
20,906.6	9,319.1	11,646.0	-546.0	LTP @ 20906.6'MD / 9319.1'TVD
20,993.0	9,318.6	11,732.3	-548.2	Final MWD Survey @ 20993'MD
21,032.0	9,317.9	11,771.3	-548.3	PTD @ 21032'MD

Checked By: _____ Approved By: _____ Date: _____

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
		1. WELL API NO. 30-015-45891								
		2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN								
		3. State Oil & Gas Lease No.								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)						5. Lease Name or Unit Agreement Name Way South State Com				
						6. Well Number: 710H				
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER _____										
8. Name of Operator COG Operating LLC						9. OGRID 229137				
10. Address of Operator 2208 W. Main Street Artesia, NM 88210						11. Pool name or Wildcat Purple Sage; Wolfcamp (Gas)				
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	2	31	26S	28E		792	South	805	West	Eddy
BH:	1	19	26S	28E		205	North	294	West	Eddy
13. Date Spudded 6/10/19	14. Date T.D. Reached 7/31/19		15. Date Rig Released 8/3/19		16. Date Completed (Ready to Produce) 3/9/20			17. Elevations (DF and RKB, RT, GR, etc.) 3159' GR		
18. Total Measured Depth of Well 21,032'			19. Plug Back Measured Depth 20,850'		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run None		
22. Producing Interval(s), of this completion - Top, Bottom, Name 9,413-20,870' Wolfcamp										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8"		54.5#		698		17 1/2"		750sx		
9 5/8"		40#		8603		12 1/4"		2254 sx		
8 1/2"		23#		21017'		8 1/2"		4005 sx		
24. LINER RECORD						25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN		SIZE	DEPTH SET	PACKER SET		
						2 7/8"	8698'	8688'		
26. Perforation record (interval, size, and number) 9,413 – 20 870' (1392)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						9,413-20,870'		Acidz w/0 gal 7 1/2%; Frac with 29,006,490# sand & 23,684,094 gal fluid		
28. PRODUCTION										
Date First Production 4/7/20		Production Method (Flowing, gas lift, pumping - Size and type pump) Flowing				Well Status (Prod. or Shut-in) Producing				
Date of Test 4/7/20	Hours Tested 24	Choke Size 21/128"	Prod'n For Test Period 24 Hrs	Oil - Bbl 66	Gas - MCF 435	Water - Bbl. 3151	Gas - Oil Ratio			
Flow Tubing Press. 1527#	Casing Pressure 1147#	Calculated 24-Hour Rate	Oil - Bbl. 66	Gas - MCF 435	Water - Bbl. 3151	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold						30. Test Witnessed By Charlie Hoff				
31. List Attachments Surveys										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.						33. Rig Release Date: 8/3/19				
34. If an on-site burial was used at the well, report the exact location of the on-site burial: Latitude _____ Longitude _____ NAD83										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature <i>Amanda Avery</i>			Name: Amanda Avery			Title Regulatory Analyst			Date 4/27/20	
E-mail Address: aavery@concho.com										

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Rslr	T. Canyon	T. Ojo Alamo	T. Penn A "
T. Salt 676'	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 2176'	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. 7 Rivers	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. A VNM 6363'	T. Point Lookout	T. Elbert
T. San Andres	T. A VNL 6641'	T. Mancos	T. McCracken
T. Glorieta	T. Lamar 2372'	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Bell Canyon 2401'	Base Greenhorn	T. Granite
T. Blinebry	T. Cherry Canyon 3244'	T. Dakota	
T. Tubb	T. Brushy Canyon 4492'	T. Morrison	
T. Drinkard	T. Bone Spring GL 6047'	T. Todilto	
T. Abo	T. 1 st Bone Spring 6939'	T. Entrada	
T. Wolfcamp 9095'	T. 2 nd Bone Spring- Sand	T. Wingate	
T. Penn	T. 2nd Bone Spring 7559'	T. Chinle	
T. Cisco (Bough C)	T. 3 rd Bone Spring 8690'	T. Permian	

No. 1, from.....to..... No. 3, from.....to.....
No. 2, from.....to..... No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
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) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 16766

CONDITIONS OF APPROVAL

Operator:	COG OPERATING LLC	600 W Illinois Ave	Midland, TX79701	OGRID:	229137	Action Number:	16766	Action Type:	C-104C
OCD Reviewer									Condition
jagarcia									None