

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) 476-3460 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-45533	Pool Code 16800	Pool Name Delaware River; Bone Spring
Property Code 322993	Property Name SRO 5 STATE COM	Well Number 506H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3009.2'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	5	26-S	28-E		314	NORTH	1460	EAST	EDDY

Bottom Hole Location If Different From Surface

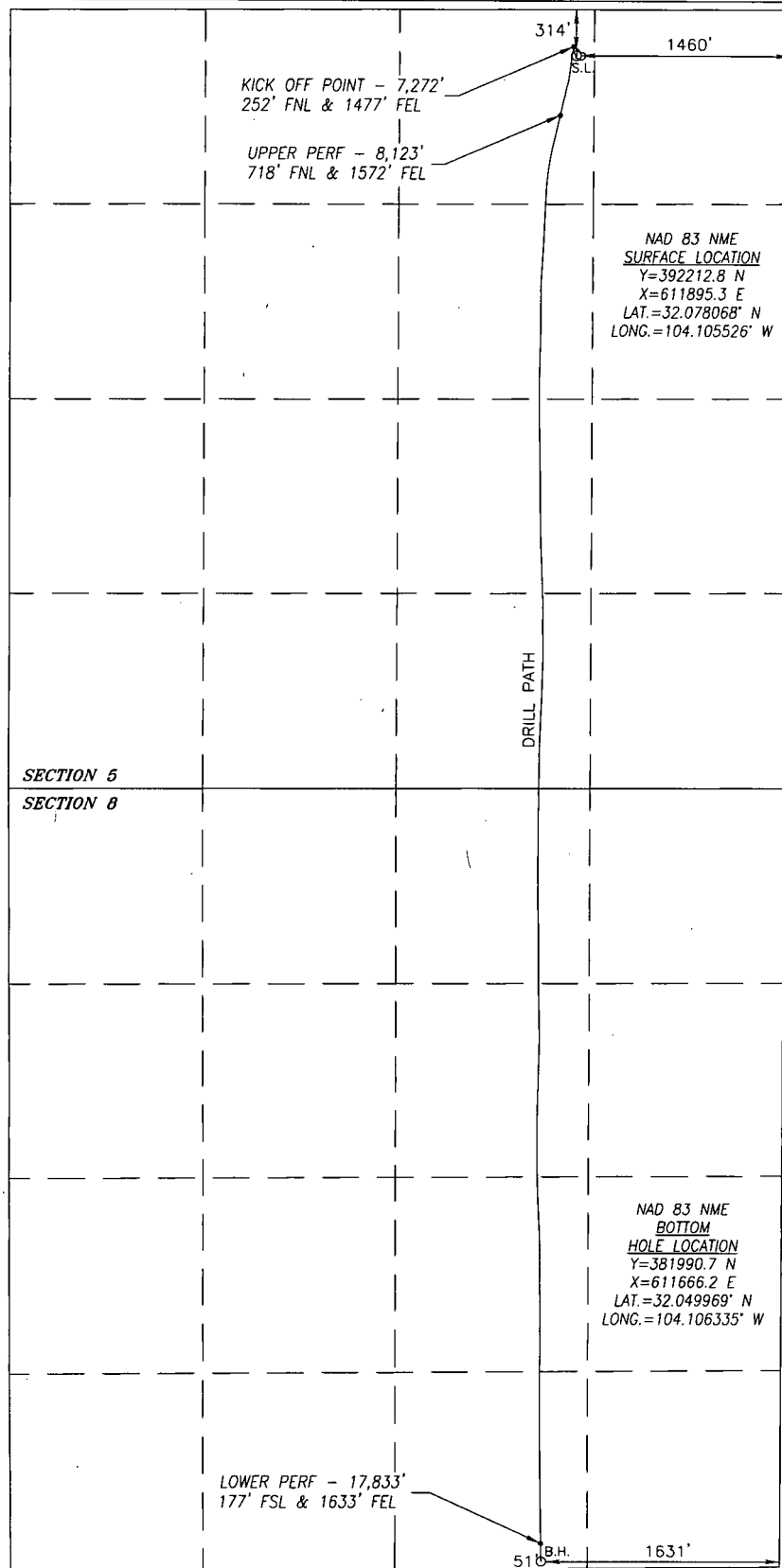
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	8	26-S	28-E		51	SOUTH	1631	EAST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidation Code	Order No.
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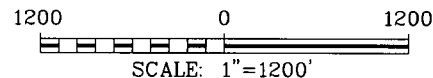
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

SEE PAGE 2

Property Code 322993	Property Name SRO 5 STATE COM	Well Number 506H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3009.2'



BOREPATH SHOWN HEREON IS BASED ON DIRECTIONAL SURVEY REPORT PROVIDED BY COG OPERATING, LLC FOR THE SRO 5 STATE COM #506H SUPPLIED TO HARCROW SURVEYING, LLC ON SEPTEMBER 5, 2019.



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 11/6/19
Signature Date

Amanda Avery
Printed Name

aaavery@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. 14, 2019/MAY 3, 2019
Date of Survey/Date of Geographic Survey

Signature & Seal of Professional Surveyor



Chad Harcrow 9/18/19
Certificate No. CHAD HARCROW 17777

RECEIVED

NOV 19 2019

Intent ☐ As Drilled ☒ XAPI #
30-015-45533

DISTRICT 7 - ARTESIA O.C.D.

Operator Name: COG OPERATING, LLC	Property Name: SRO 5 STATE COM	Well Number 506H
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Kick Off Point (KOP)

UL B	Section 5	Township 25S	Range 28E	Lot	Feet 252	From N/S NORTH	Feet 1477	From E/W EAST	County EDDY
Latitude 32.078238					Longitude -104.105582			NAD 83	

First Take Point (FTP)

UL B	Section 5	Township 25S	Range 28E	Lot	Feet 718	From N/S NORTH	Feet 1572	From E/W EAST	County EDDY
Latitude 32.076957					Longitude -104.105876			NAD 83	

Last Take Point (LTP)

UL O	Section 8	Township 25S	Range 28E	Lot	Feet 177	From N/S SOUTH	Feet 1633	From E/W EAST	County EDDY
Latitude 32.050315					Longitude -104.106340			NAD 83	

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

☐ No

Is this well an infill well?

☐ Yes

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

API #
30-015-45534

Operator Name: COG Operating LLC	Property Name: SRO 5 State Com	Well Number 507H
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KZ 06/29/2018

RECEIVED

RECEIVED
NOV 19 2019

NOV 19 2019

COG

DISTRICT 7 / ARTESIA O.C.D.

SURVEY REPORT

SRO 5 STATE COM #506H

SCAN FREEDOM

4/4/2019

This survey is correct to the best of my knowledge and is supported by actual field data.

JAKE ELGER

Notarized this date 13TH of MAY, 2019.

Sherry Stewart

Notary Signature

County of Midland

State of Texas



The Ultimate Partner In Wellbore Placement

SURVEY REPORT

SRO 5 STATE COM #506H

KEEPER GYRO SURVEY

CUSTOMER
PROJECT
FIELD

COG
SRO 5 State Com #506H
Spraberry

SDI JOB NO.
SDI DISTRICT
SDI KIT/UNIT

OP:017733
Midland

SITE INFORMATION

Site Name
Lat/Long
Northing
Easting

SRO 5 State Com #506H
32.077945° N, 104.105036° W
3,992,368.9 ft
570,518.1 ft

Section
Township
Range

MAP INFORMATION

North Reference
Grid Correction
System
Datum
Map Zone

Grid North
0.12 deg
US State Plane 1927
North American Datum 1927 (Clarke 1866)
New Mexico East: 3001



WELL INFORMATION

Lat/Long
Northing
Easting
UWI

32.077945° N, 104.105036° W

30-015-45533

DEPTH AND ELEVATION REFERENCE

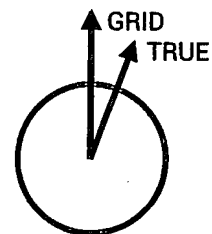
Ground Level
Reference Datum
Reference Height
Reference Elevation

3009 ft above Mean Sea Level
KB
27 ft above G.L.
3036 ft

VERTICAL SECTION REFERENCE

+N/-S
+E/-W
Proposal Direction
Calculation Method

0 ft
0 ft
181.39°
Minimum Curvature



LOCAL GRAVITY REFERENCE INFORMATION

Local Gravity
True to Grid

998.526 mG [computed]
add 0.12°

WELL NOTES

Keeper Gyro Survey

OPERATORS

J Mendoza

SDI Operator Name (Printed)

SIGNATURE

DATE

MD	INC	AZIM	TVD	VS	+N/S	+E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	Invalid	0.00	0.00
100.00	0.31	194.53	100.00	0.26	-0.26	-0.07	0.31	0.27	194.53
125.00	0.43	178.94	125.00	0.42	-0.42	-0.08	0.62	0.43	191.17
150.00	0.37	201.73	150.00	0.59	-0.59	-0.11	0.67	0.60	190.67
175.00	0.42	205.95	175.00	0.75	-0.74	-0.18	0.24	0.77	193.62
200.00	0.47	205.27	200.00	0.93	-0.92	-0.26	0.23	0.96	196.04
225.00	0.53	209.31	225.00	1.12	-1.11	-0.37	0.27	1.17	198.15
250.00	0.59	215.24	249.99	1.33	-1.32	-0.50	0.33	1.41	200.60
275.00	0.63	214.42	274.99	1.55	-1.54	-0.65	0.15	1.67	202.84
300.00	0.66	215.91	299.99	1.79	-1.77	-0.81	0.16	1.94	204.61
325.00	0.75	216.35	324.99	2.04	-2.02	-0.99	0.36	2.25	206.19
350.00	0.74	217.71	349.99	2.31	-2.28	-1.19	0.10	2.57	207.55
375.00	0.72	214.84	374.99	2.57	-2.53	-1.38	0.16	2.88	208.51
400.00	0.67	214.60	399.98	2.82	-2.78	-1.55	0.18	3.19	209.10
425.00	0.73	213.88	424.98	3.08	-3.04	-1.72	0.21	3.49	209.55
450.00	0.70	221.77	449.98	3.33	-3.28	-1.91	0.40	3.80	210.22
475.00	0.81	209.43	474.98	3.60	-3.55	-2.10	0.79	4.13	210.61
500.00	0.81	207.71	499.98	3.92	-3.86	-2.27	0.10	4.48	210.45
525.00	0.84	202.26	524.97	4.25	-4.19	-2.42	0.34	4.84	210.04
550.00	0.77	211.35	549.97	4.56	-4.50	-2.58	0.58	5.19	209.81
575.00	0.81	212.41	574.97	4.86	-4.80	-2.76	0.16	5.53	209.94
600.00	0.85	207.98	599.97	5.18	-5.11	-2.94	0.30	5.90	209.95
625.00	0.87	215.98	624.96	5.50	-5.43	-3.14	0.49	6.27	210.08
650.00	0.99	223.56	649.96	5.82	-5.74	-3.40	0.68	6.67	210.68
675.00	1.08	229.87	674.96	6.14	-6.05	-3.73	0.57	7.11	211.69
700.00	1.28	229.23	699.95	6.48	-6.38	-4.12	0.81	7.60	212.88
725.00	1.34	230.56	724.94	6.86	-6.75	-4.56	0.26	8.15	214.06
750.00	1.40	234.57	749.94	7.23	-7.11	-5.04	0.47	8.71	215.31
775.00	1.32	230.50	774.93	7.60	-7.47	-5.51	0.50	9.28	216.40
800.00	1.31	232.31	799.92	7.97	-7.83	-5.96	0.17	9.84	217.26
825.00	1.43	227.72	824.92	8.37	-8.22	-6.42	0.65	10.43	217.99
850.00	1.48	212.05	849.91	8.86	-8.70	-6.82	1.60	11.05	218.09

MD	INC	AZIM	TVD	VS	N/S	HA/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
875.00	1.75	187.43	874.90	9.52	-9.35	-7.04	2.95	11.70	216.97
900.00	1.85	179.99	899.89	10.30	-10.13	-7.09	1.02	12.37	214.97
925.00	2.04	164.98	924.87	11.13	-10.97	-6.97	2.17	13.00	212.45
950.00	2.39	146.74	949.85	11.99	-11.83	-6.57	3.12	13.53	209.05
975.00	2.98	123.03	974.83	12.76	-12.62	-5.74	4.98	13.87	204.46
1000.00	3.24	115.19	999.79	13.38	-13.28	-4.56	2.00	14.04	198.94
1025.00	3.39	112.56	1024.75	13.94	-13.86	-3.24	0.83	14.23	193.14
1050.00	3.29	111.62	1049.71	14.45	-14.41	-1.89	0.44	14.53	187.46
1075.00	3.29	112.07	1074.66	14.95	-14.94	-0.56	0.11	14.95	182.13
1100.00	3.25	113.50	1099.62	15.47	-15.49	0.76	0.36	15.51	177.20
1125.00	3.09	115.15	1124.59	16.01	-16.06	2.02	0.75	16.19	172.85
1150.00	2.82	116.53	1149.55	16.54	-16.62	3.18	1.10	16.92	169.19
1175.00	2.89	118.81	1174.52	17.09	-17.20	4.28	0.54	17.73	166.03
1200.00	2.77	119.60	1199.49	17.67	-17.80	5.36	0.52	18.59	163.25
1225.00	2.73	120.11	1224.46	18.24	-18.40	6.40	0.19	19.48	160.83
1250.00	2.77	119.83	1249.43	18.81	-19.00	7.44	0.17	20.40	158.63
1275.00	2.73	119.32	1274.40	19.38	-19.59	8.48	0.19	21.35	156.60
1300.00	2.66	115.26	1299.38	19.89	-20.13	9.52	0.81	22.27	154.68
1325.00	2.78	113.77	1324.35	20.36	-20.62	10.60	0.55	23.19	152.79
1350.00	2.81	113.36	1349.32	20.82	-21.11	11.72	0.16	24.15	150.96
1375.00	2.87	113.04	1374.29	21.28	-21.60	12.86	0.22	25.14	149.23
1400.00	2.86	112.87	1399.26	21.74	-22.08	14.01	0.04	26.15	147.61
1425.00	2.87	111.48	1424.23	22.18	-22.56	15.16	0.28	27.18	146.09
1450.00	2.93	110.57	1449.19	22.61	-23.01	16.34	0.30	28.22	144.61
1475.00	2.99	111.46	1474.16	23.04	-23.47	17.55	0.30	29.31	143.22
1500.00	2.89	109.29	1499.13	23.46	-23.92	18.75	0.60	30.39	141.91
1525.00	2.91	108.92	1524.10	23.84	-24.33	19.94	0.11	31.46	140.66
1550.00	3.00	110.17	1549.06	24.24	-24.76	21.16	0.46	32.57	139.49
1575.00	2.92	110.13	1574.03	24.66	-25.21	22.37	0.32	33.70	138.41
1600.00	2.98	107.80	1599.00	25.05	-25.63	23.59	0.54	34.83	137.37
1625.00	2.92	106.14	1623.96	25.39	-26.00	24.82	0.43	35.95	136.33
1650.00	3.00	106.32	1648.93	25.72	-26.36	26.06	0.34	37.07	135.33

MD	INC	AZIM	TWD	VS	N/S	E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
1675.00	3.15	104.92	1673.89	26.05	-26.72	27.35	0.65	38.24	134.34
1700.00	3.44	103.71	1698.85	26.37	-27.08	28.74	1.22	39.49	133.29
1725.00	3.70	104.64	1723.80	26.72	-27.46	30.25	1.03	40.86	132.23
1750.00	3.77	104.80	1748.75	27.09	-27.87	31.83	0.30	42.31	131.21
1775.00	3.48	102.97	1773.70	27.44	-28.25	33.36	1.26	43.72	130.26
1800.00	2.91	96.05	1798.66	27.64	-28.49	34.73	2.74	44.92	129.36
1825.00	2.20	89.30	1823.64	27.68	-28.55	35.84	3.09	45.82	128.54
1850.00	1.96	83.43	1848.62	27.60	-28.50	36.75	1.28	46.50	127.80
1875.00	1.78	79.24	1873.61	27.46	-28.38	37.55	0.91	47.07	127.08
1900.00	1.76	79.15	1898.59	27.29	-28.23	38.31	0.08	47.59	126.39
1925.00	1.94	83.03	1923.58	27.15	-28.11	39.11	0.89	48.16	125.71
1950.00	2.03	85.38	1948.57	27.04	-28.02	39.97	0.47	48.81	125.03
1975.00	2.08	81.26	1973.55	26.92	-27.92	40.86	0.63	49.49	124.34
2000.00	2.28	81.31	1998.53	26.75	-27.77	41.80	0.81	50.18	123.60
2025.00	2.34	78.55	2023.51	26.55	-27.60	42.79	0.51	50.92	122.82
2050.00	2.33	65.25	2048.49	26.21	-27.28	43.76	2.17	51.56	121.94
2075.00	2.42	53.54	2073.47	25.66	-26.75	44.64	1.97	52.05	120.93
2100.00	2.46	50.54	2098.45	24.99	-26.10	45.48	0.54	52.44	119.85
2125.00	2.58	48.84	2123.42	24.26	-25.39	46.32	0.57	52.82	118.73
2150.00	2.77	50.27	2148.40	23.48	-24.63	47.21	0.78	53.25	117.55
2175.00	2.85	53.83	2173.37	22.70	-23.88	48.17	0.78	53.77	116.37
2200.00	2.90	54.97	2198.33	21.95	-23.15	49.19	0.30	54.37	115.20
2225.00	2.87	53.50	2223.30	21.19	-22.41	50.21	0.32	54.99	114.06
2250.00	2.95	54.09	2248.27	20.42	-21.67	51.24	0.34	55.63	112.92
2275.00	2.93	53.06	2273.24	19.63	-20.91	52.27	0.22	56.29	111.80
2300.00	3.02	54.27	2298.20	18.84	-20.14	53.31	0.43	56.99	110.69
2325.00	2.82	50.28	2323.17	18.04	-19.36	54.32	1.13	57.67	109.62
2350.00	2.73	52.58	2348.14	17.26	-18.61	55.26	0.57	58.31	108.61
2375.00	2.65	50.71	2373.11	16.51	-17.88	56.19	0.47	58.96	107.65
2400.00	2.64	49.02	2398.09	15.74	-17.13	57.07	0.32	59.58	106.71
2425.00	2.61	49.87	2423.06	14.98	-16.39	57.94	0.19	60.21	105.80
2450.00	2.58	47.75	2448.04	14.21	-15.64	58.79	0.40	60.83	104.90

MD	INC	AZIM	TWD	VS	N/S	FEAW	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
2475.00	2.60	48.12	2473.01	13.44	14.89	59.63	0.10	61.46	104.02
2500.00	2.61	48.10	2497.98	12.66	14.13	60.47	0.05	62.10	103.15
2525.00	2.55	47.15	2522.96	11.88	13.37	61.30	0.29	62.74	102.31
2550.00	2.47	46.52	2547.94	11.11	12.62	62.10	0.36	63.37	101.49
2575.00	2.53	33.97	2572.91	10.27	-11.80	62.80	2.20	63.90	100.64
2600.00	2.78	20.15	2597.89	9.23	-10.77	63.32	2.74	64.23	99.65
2625.00	3.09	11.16	2622.85	7.99	-9.54	63.66	2.21	64.37	98.52
2650.00	3.13	5.81	2647.82	6.65	-8.20	63.85	1.18	64.38	97.32
2675.00	3.19	6.07	2672.78	5.27	-6.83	64.00	0.24	64.36	96.09
2700.00	3.16	4.14	2697.74	3.89	-5.45	64.12	0.45	64.35	94.86
2725.00	3.15	5.41	2722.70	2.52	-4.08	64.23	0.28	64.36	93.63
2750.00	3.19	6.64	2747.66	1.14	-2.70	64.38	0.31	64.44	92.40
2775.00	3.16	2.74	2772.63	-0.24	-1.32	64.49	0.87	64.51	91.18
2800.00	3.51	345.25	2797.58	-1.67	0.10	64.33	4.28	64.33	89.91
2825.00	3.51	343.13	2822.54	-3.13	1.58	63.91	0.52	63.93	88.59
2850.00	3.62	338.75	2847.49	-4.58	3.04	63.41	1.17	63.48	87.25
2875.00	3.57	338.72	2872.44	-6.03	4.50	62.84	0.21	63.00	85.90
2900.00	3.70	336.95	2897.39	-7.48	5.97	62.24	0.70	62.53	84.52
2925.00	3.51	337.62	2922.34	-8.91	7.42	61.63	0.79	62.08	83.13
2950.00	3.58	335.70	2947.29	-10.32	8.84	61.02	0.56	61.66	81.76
2975.00	3.34	325.55	2972.25	-11.61	10.15	60.29	2.63	61.14	80.44
3000.00	3.02	312.12	2997.21	-12.63	11.20	59.39	3.23	60.43	79.32
3025.00	2.83	303.07	3022.18	-13.39	11.97	58.38	2.00	59.60	78.41
3050.00	2.85	303.32	3047.14	-14.04	12.65	57.34	0.10	58.72	77.56
3075.00	2.84	303.63	3072.11	-14.70	13.34	56.31	0.07	57.87	76.67
3100.00	2.85	303.55	3097.08	-15.36	14.02	55.27	0.02	57.03	75.76
3125.00	2.78	303.15	3122.05	-16.01	14.70	54.25	0.28	56.21	74.84
3150.00	2.69	302.08	3147.02	-16.63	15.34	53.25	0.40	55.41	73.93
3175.00	2.69	302.01	3172.00	-17.23	15.96	52.25	0.03	54.63	73.01
3200.00	2.64	302.30	3196.97	-17.82	16.58	51.27	0.19	53.88	72.08
3225.00	2.69	300.80	3221.94	-18.41	17.19	50.28	0.34	53.13	71.12
3250.00	2.52	300.32	3246.92	-18.96	17.77	49.30	0.69	52.40	70.18

MD	INC	AZIM	TVD	VS	TVAS	HEAV	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%/100ft	DIST	DIR
3275.00	2.53	298.09	3271.89	-19.47	18.31	48.34	0.40	51.69	69.26
3300.00	2.60	297.31	3296.87	-19.97	18.83	47.35	0.30	50.95	68.32
3325.00	2.64	297.05	3321.84	-20.47	19.35	46.33	0.19	50.21	67.33
3350.00	3.39	288.18	3346.81	-20.93	19.84	45.11	3.52	49.28	66.26
3375.00	4.05	280.65	3371.75	-21.28	20.23	43.54	3.27	48.02	65.08
3400.00	4.24	276.55	3396.69	-21.51	20.50	41.76	1.42	46.52	63.85
3425.00	4.46	276.06	3421.62	-21.67	20.71	39.87	0.88	44.93	62.55
3450.00	4.39	275.67	3446.54	-21.82	20.91	37.96	0.31	43.33	61.15
3475.00	4.44	276.27	3471.47	-21.98	21.11	36.04	0.29	41.77	59.64
3500.00	4.46	276.26	3496.39	-22.14	21.32	34.11	0.06	40.23	58.00
3525.00	4.32	275.22	3521.32	-22.29	21.51	32.21	0.64	38.73	56.26
3550.00	4.18	275.21	3546.25	-22.41	21.68	30.37	0.57	37.31	54.47
3575.00	3.85	276.32	3571.19	-22.54	21.86	28.62	1.33	36.01	52.64
3600.00	3.29	282.85	3596.14	-22.76	22.11	27.09	2.79	34.96	50.78
3625.00	2.86	290.78	3621.10	-23.11	22.49	25.81	2.41	34.23	48.93
3650.00	2.56	302.61	3646.08	-23.60	23.01	24.76	2.52	33.80	47.09
3675.00	2.33	315.42	3671.05	-24.25	23.67	23.93	2.37	33.66	45.31
3700.00	2.26	327.36	3696.03	-25.01	24.45	23.31	1.93	33.78	43.63
3725.00	2.31	328.00	3721.01	-25.84	25.29	22.77	0.22	34.03	42.00
3750.00	2.36	328.97	3745.99	-26.69	26.16	22.24	0.26	34.34	40.37
3775.00	2.30	330.20	3770.97	-27.56	27.04	21.73	0.32	34.69	38.78
3800.00	2.28	330.77	3795.95	-28.42	27.91	21.23	0.12	35.07	37.26
3825.00	2.35	330.48	3820.93	-29.28	28.79	20.74	0.26	35.48	35.76
3850.00	2.38	328.69	3845.91	-30.16	29.68	20.21	0.31	35.91	34.26
3875.00	2.34	328.88	3870.89	-31.03	30.56	19.68	0.15	36.35	32.78
3900.00	2.39	326.78	3895.87	-31.89	31.43	19.13	0.40	36.80	31.33
3925.00	2.21	325.42	3920.85	-32.71	32.27	18.57	0.73	37.23	29.93
3950.00	2.17	324.08	3945.83	-33.47	33.05	18.02	0.28	37.64	28.61
3975.00	2.09	323.70	3970.81	-34.21	33.80	17.47	0.33	38.05	27.34
4000.00	2.09	321.50	3995.80	-34.92	34.52	16.92	0.32	38.44	26.11
4025.00	2.13	318.70	4020.78	-35.61	35.23	16.33	0.45	38.83	24.87
4050.00	2.03	320.42	4045.76	-36.29	35.92	15.74	0.48	39.21	23.67

MD	INC	AZIM	TVD	VS	IN/S	HEAV	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%100ft	DIST	DIR
4075.00	1.94	316.64	4070.75	-36.92	36.56	15.17	0.65	39.59	22.53
4100.00	1.97	317.00	4095.73	-37.53	37.19	14.59	0.16	39.94	21.42
4125.00	2.01	318.94	4120.72	-38.16	37.83	14.00	0.30	40.34	20.31
4150.00	1.81	318.09	4145.70	-38.77	38.46	13.45	0.78	40.74	19.28
4175.00	1.79	317.34	4170.69	-39.34	39.04	12.92	0.12	41.12	18.32
4200.00	1.86	316.44	4195.68	-39.91	39.62	12.38	0.28	41.51	17.35
4225.00	1.91	316.68	4220.67	-40.49	40.22	11.81	0.20	41.92	16.37
4250.00	1.96	316.90	4245.65	-41.09	40.83	11.24	0.21	42.35	15.39
4275.00	1.90	316.49	4270.64	-41.69	41.44	10.66	0.23	42.79	14.42
4300.00	1.93	316.91	4295.62	-42.28	42.05	10.09	0.13	43.24	13.49
4325.00	1.92	316.11	4320.61	-42.88	42.66	9.51	0.12	43.71	12.56
4350.00	1.82	316.85	4345.60	-43.46	43.25	8.95	0.39	44.17	11.69
4375.00	1.78	313.54	4370.58	-44.00	43.81	8.39	0.46	44.61	10.85
4400.00	1.71	313.23	4395.57	-44.51	44.33	7.84	0.28	45.02	10.03
4425.00	1.68	312.33	4420.56	-45.00	44.83	7.30	0.15	45.42	9.25
4450.00	1.37	308.39	4445.55	-45.42	45.27	6.79	1.33	45.77	8.53
4475.00	0.93	273.87	4470.55	-45.61	45.47	6.36	3.19	45.91	7.96
4500.00	1.17	221.92	4495.54	-45.42	45.29	5.98	3.79	45.68	7.52
4525.00	1.56	208.87	4520.54	-44.92	44.80	5.65	1.99	45.15	7.18
4550.00	1.69	204.16	4545.53	-44.28	44.17	5.33	0.72	44.49	6.88
4575.00	1.78	201.85	4570.52	-43.58	43.47	5.04	0.46	43.76	6.61
4600.00	1.72	204.81	4595.50	-42.87	42.77	4.73	0.42	43.03	6.32
4625.00	1.80	200.71	4620.49	-42.15	42.06	4.44	0.59	42.29	6.02
4650.00	1.83	200.10	4645.48	-41.41	41.32	4.16	0.15	41.53	5.75
4675.00	1.71	205.19	4670.47	-40.69	40.60	3.86	0.81	40.79	5.44
4700.00	1.76	201.39	4695.46	-39.98	39.91	3.57	0.51	40.07	5.11
4725.00	1.86	196.56	4720.44	-39.23	39.16	3.31	0.73	39.30	4.83
4750.00	2.37	189.60	4745.43	-38.33	38.26	3.11	2.26	38.39	4.64
4775.00	3.54	176.46	4770.39	-37.05	36.99	3.07	5.37	37.11	4.74
4800.00	3.62	175.10	4795.34	-35.50	35.43	3.18	0.49	35.57	5.14
4825.00	3.72	174.10	4820.29	-33.91	33.84	3.34	0.46	34.00	5.63
4850.00	3.52	174.20	4845.24	-32.34	32.27	3.50	0.81	32.45	6.19

MD	INC	AZIM	TVD	VS	+N/S	+E/W	DLS	CLOSURE	CLOSURE
ft	deg	deg	ft	ft	ft	ft	%100ft	DIST	DIR
4875.00	3.48	175.56	4870.20	-30.83	30.75	3.63	0.37	30.96	6.74
4900.00	3.49	175.53	4895.15	-29.31	29.23	3.75	0.05	29.47	7.31
4925.00	3.45	175.26	4920.10	-27.81	27.72	3.87	0.17	27.99	7.95
4950.00	3.43	176.43	4945.06	-26.32	26.23	3.98	0.30	26.53	8.63
4975.00	3.19	177.20	4970.02	-24.88	24.79	4.06	0.97	25.12	9.30
5000.00	3.02	178.88	4994.98	-23.53	23.44	4.11	0.76	23.79	9.94
5025.00	3.10	177.25	5019.95	-22.20	22.10	4.15	0.48	22.49	10.64
5050.00	3.04	179.09	5044.91	-20.86	20.76	4.20	0.46	21.18	11.43
5075.00	3.03	178.83	5069.87	-19.54	19.44	4.22	0.08	19.89	12.25
5100.00	3.00	180.61	5094.84	-18.22	18.13	4.23	0.39	18.61	13.13
5125.00	2.94	178.17	5119.81	-16.93	16.83	4.24	0.56	17.36	14.14
5150.00	2.91	180.79	5144.77	-15.66	15.56	4.25	0.55	16.13	15.29
5175.00	3.01	182.06	5169.74	-14.37	14.27	4.22	0.49	14.88	16.47
5200.00	2.92	181.13	5194.71	-13.08	12.98	4.18	0.40	13.64	17.87
5225.00	2.88	181.32	5219.68	-11.81	11.71	4.16	0.16	12.43	19.54
5250.00	2.78	181.77	5244.65	-10.58	10.48	4.12	0.41	11.26	21.48
5275.00	2.78	181.22	5269.62	-9.36	9.27	4.09	0.11	10.13	23.83
5300.00	2.77	179.93	5294.59	-8.15	8.06	4.08	0.25	9.03	26.86
5325.00	2.67	181.56	5319.56	-6.97	6.87	4.06	0.51	7.98	30.61
5350.00	2.48	183.26	5344.53	-5.84	5.75	4.02	0.83	7.01	34.96
5375.00	2.46	182.89	5369.51	-4.77	4.67	3.96	0.09	6.12	40.29
5400.00	2.38	182.74	5394.49	-3.71	3.62	3.91	0.34	5.33	47.22
5425.00	2.37	180.21	5419.47	-2.68	2.58	3.88	0.42	4.66	56.37
5450.00	2.44	181.99	5444.44	-1.63	1.53	3.86	0.41	4.15	68.35
5475.00	2.36	182.84	5469.42	-0.58	0.49	3.82	0.34	3.85	82.75
5500.00	1.94	190.86	5494.40	-0.35	-0.45	3.71	2.07	3.74	96.84
5525.00	1.20	222.50	5519.40	0.97	-1.05	3.46	4.46	3.61	106.96
5550.00	1.16	244.41	5544.39	-1.28	-1.36	3.05	1.80	3.34	113.98
5575.00	1.15	248.73	5569.38	1.49	-1.56	2.59	0.35	3.02	121.03
5600.00	1.12	250.63	5594.38	1.68	-1.73	2.12	0.18	2.74	129.15
5625.00	1.07	246.29	5619.38	1.86	-1.90	1.68	0.38	2.54	138.60
5650.00	1.16	248.27	5644.37	2.06	-2.09	1.23	0.38	2.43	149.56

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	%/100ft	ft	deg
5675.00	1.09	249.09	5669.37	2.25	-2.27	0.77	0.31	2.40	161.20
5700.00	1.30	279.33	5694.36	2.30	-2.31	0.27	2.62	2.32	173.27
5725.00	1.97	305.32	5719.35	2.02	2.01	-0.36	3.93	2.05	190.05
5750.00	2.14	306.34	5744.33	1.52	1.49	-1.08	0.72	1.84	216.03
5775.00	2.28	309.59	5769.32	0.94	0.90	-1.84	0.75	2.05	244.09
5800.00	2.84	315.87	5794.29	0.20	0.13	-2.66	2.50	2.66	267.12
5825.00	3.94	324.43	5819.25	-0.92	1.01	-3.59	4.84	3.73	285.72
5850.00	4.15	325.12	5844.18	-2.34	2.45	-4.61	0.84	5.22	298.01
5875.00	4.53	326.37	5869.11	-3.88	4.02	-5.67	1.60	6.95	305.30
5900.00	5.21	327.04	5894.02	-5.62	5.79	-6.84	2.70	8.96	310.27
5925.00	5.36	327.90	5918.92	-7.53	7.73	-8.07	0.68	11.18	313.76
5950.00	5.16	329.79	5943.81	-9.46	9.69	-9.26	1.06	13.40	316.31
5975.00	5.08	331.12	5968.71	-11.38	11.63	-10.36	0.58	15.58	318.31
6000.00	4.98	334.74	5993.62	-13.30	13.58	-11.36	1.33	17.70	320.10
6025.00	4.84	337.51	6018.52	-15.24	15.54	-12.22	1.09	19.77	321.81
6050.00	4.88	338.43	6043.43	-17.18	17.50	-13.02	0.34	21.81	323.36
6075.00	4.98	340.06	6068.34	-19.17	19.51	-13.78	0.71	23.88	324.77
6100.00	5.06	342.53	6093.25	-21.22	21.58	-14.48	0.91	25.99	326.14
6125.00	4.99	344.92	6118.15	-23.31	23.68	-15.09	0.88	28.08	327.49
6150.00	4.75	345.54	6143.06	-25.35	25.73	-15.63	0.98	30.11	328.72
6175.00	4.61	346.05	6167.98	-27.31	27.71	-16.13	0.60	32.07	329.79
6200.00	4.13	343.92	6192.90	-29.14	29.55	-16.63	2.03	33.91	330.64
6225.00	3.41	343.15	6217.85	-30.70	31.13	-17.09	2.85	35.51	331.23
6250.00	3.12	343.03	6242.81	-32.06	32.49	-17.51	1.16	36.91	331.69
6275.00	2.97	344.04	6267.77	-33.32	33.77	-17.88	0.64	38.21	332.09
6300.00	2.75	350.66	6292.74	-34.53	34.98	-18.16	1.59	39.41	332.57
6325.00	2.65	352.50	6317.71	-35.69	36.15	-18.33	0.52	40.53	333.11
6350.00	2.47	353.80	6342.69	-36.80	37.26	-18.46	0.78	41.58	333.64
6375.00	2.38	352.88	6367.67	-37.84	38.31	-18.59	0.38	42.58	334.12
6400.00	2.46	352.87	6392.64	-38.89	39.35	-18.72	0.34	43.58	334.56
6425.00	2.51	350.81	6417.62	-39.96	40.43	-18.87	0.40	44.62	334.98
6450.00	2.41	350.45	6442.60	-41.01	41.49	-19.05	0.40	45.65	335.34

MD	INC	AZIM	TVD	VS	N/S	E/W	DLS	CLOSURE DIST	CLOSURE DIR
ft	deg	deg	ft	ft	ft	ft	ft/100ft	ft	deg
6475.00	2.22	349.29	6467.58	-42.00	42.48	-19.22	0.78	46.63	335.65
6500.00	2.23	349.61	6492.56	-42.95	43.43	-19.40	0.07	47.57	335.93
6525.00	2.20	349.38	6517.54	-43.90	44.38	-19.58	0.15	48.51	336.20
6550.00	1.80	349.51	6542.52	-44.75	45.24	-19.74	1.58	49.36	336.43

6575.00	1.56	353.36	6567.51	-45.47	45.97	-19.85	1.05	50.07	336.65
6600.00	1.80	355.84	6592.50	-46.20	46.70	-19.92	0.97	50.77	336.90
6625.00	1.69	357.67	6617.49	-46.96	47.46	-19.96	0.47	51.48	337.19
6650.00	1.55	5.77	6642.48	-47.66	48.16	-19.94	1.08	52.13	337.51
6675.00	1.74	13.32	6667.47	-48.37	48.87	-19.82	1.14	52.73	337.92

6700.00	1.70	10.26	6692.46	-49.11	49.60	-19.67	0.39	53.36	338.37
6725.00	1.79	14.91	6717.45	-49.86	50.35	-19.50	0.67	53.99	338.83
6750.00	1.92	8.72	6742.43	-50.65	51.14	-19.34	0.96	54.67	339.29
6775.00	1.90	9.27	6767.42	-51.48	51.96	-19.20	0.11	55.40	339.72
6800.00	1.81	4.33	6792.41	-52.29	52.77	-19.11	0.74	56.12	340.09

6825.00	1.91	1.56	6817.39	-53.10	53.58	-19.07	0.52	56.87	340.41
6850.00	1.83	357.71	6842.38	-53.91	54.39	-19.07	0.58	57.64	340.68
6875.00	2.04	354.98	6867.37	-54.75	55.23	-19.13	0.90	58.45	340.90
6900.00	1.90	352.73	6892.35	-55.61	56.09	-19.22	0.63	59.29	341.09
6925.00	1.92	349.04	6917.34	-56.42	56.91	-19.35	0.50	60.11	341.22

6950.00	1.67	356.06	6942.33	-57.19	57.68	-19.45	1.33	60.87	341.36
6975.00	1.29	355.56	6967.32	-57.84	58.33	-19.50	1.50	61.50	341.51
7000.00	1.15	34.48	6992.31	-58.37	58.86	-19.51	0.89	62.00	341.66
7025.00	1.00	14.81	7017.31	-58.83	59.32	-19.44	1.02	62.42	341.86
7050.00	0.99	17.40	7042.30	-59.25	59.73	-19.32	0.19	62.78	342.08

7075.00	1.05	21.21	7067.30	-59.67	60.15	-19.17	0.37	63.13	342.33
7100.00	1.02	30.30	7092.30	-60.08	60.56	-18.97	0.67	63.46	342.60
7125.00	0.89	22.65	7117.29	-60.46	60.93	-18.79	0.72	63.76	342.86
7150.00	0.88	40.22	7142.29	-60.79	61.26	-18.59	1.08	64.01	343.12
7167.00	0.93	32.63	7159.29	-61.01	61.47	-18.43	0.77	64.18	343.31

NORTHERN DELAWARE BASIN

EDDY COUNTY, NM

ATLAS

SRO 5 STATE COM #506H

OWB

Design: ACTUAL WELLPATH

Standard Survey Report

03 May, 2019

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	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	SRO 5 STATE COM #506H					
Well Position	+N/-S	0.0 usft	Northing:	392,155.30 usft	Latitude:	32° 4' 40.602 N
	+E/-W	0.0 usft	Easting:	570,711.00 usft	Longitude:	104° 6' 18.131 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	3,009.2 usft

Wellbore	OWB				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	WMM2015	10/2/2018	7.08	59.81	47,649.17000433

Design	ACTUAL WELLPATH				
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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	181.39

Survey Program		Date 5/3/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	7,167.0	GYRO (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4
7,215.0	17,959.0	MWD-CURVE/LATERAL (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.31	194.53	100.0	-0.3	-0.1	0.3	0.31	0.31	0.00	
125.0	0.43	178.94	125.0	-0.4	-0.1	0.4	0.62	0.48	-62.36	
150.0	0.37	201.73	150.0	-0.6	-0.1	0.6	0.67	-0.24	91.16	
175.0	0.42	205.95	175.0	-0.7	-0.2	0.8	0.23	0.20	16.88	
200.0	0.47	205.27	200.0	-0.9	-0.3	0.9	0.20	0.20	-2.72	
225.0	0.53	209.31	225.0	-1.1	-0.4	1.1	0.28	0.24	16.16	
250.0	0.59	215.24	250.0	-1.3	-0.5	1.3	0.33	0.24	23.72	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
275.0	0.63	214.42	275.0	-1.5	-0.6	1.6	0.16	0.16	-3.28	
300.0	0.66	215.91	300.0	-1.8	-0.8	1.8	0.14	0.12	5.96	
325.0	0.75	216.35	325.0	-2.0	-1.0	2.0	0.36	0.36	1.76	
350.0	0.74	217.71	350.0	-2.3	-1.2	2.3	0.08	-0.04	5.44	
375.0	0.72	214.84	375.0	-2.5	-1.4	2.6	0.17	-0.08	-11.48	
400.0	0.67	214.60	400.0	-2.8	-1.5	2.8	0.20	-0.20	-0.96	
425.0	0.73	213.88	425.0	-3.0	-1.7	3.1	0.24	0.24	-2.88	
450.0	0.70	221.77	450.0	-3.3	-1.9	3.3	0.41	-0.12	31.56	
475.0	0.81	209.43	475.0	-3.6	-2.1	3.6	0.78	0.44	-49.36	
500.0	0.81	207.71	500.0	-3.9	-2.3	3.9	0.10	0.00	-6.88	
525.0	0.84	202.26	525.0	-4.2	-2.4	4.2	0.34	0.12	-21.80	
550.0	0.77	211.35	550.0	-4.5	-2.6	4.6	0.58	-0.28	36.36	
575.0	0.81	212.41	575.0	-4.8	-2.8	4.9	0.17	0.16	4.24	
600.0	0.85	207.98	600.0	-5.1	-2.9	5.2	0.30	0.16	-17.72	
625.0	0.87	215.98	625.0	-5.4	-3.1	5.5	0.49	0.08	32.00	
650.0	0.99	223.56	650.0	-5.7	-3.4	5.8	0.69	0.48	30.32	
675.0	1.08	229.87	675.0	-6.0	-3.7	6.1	0.58	0.36	25.24	
700.0	1.28	229.23	700.0	-6.4	-4.1	6.5	0.80	0.80	-2.56	
725.0	1.34	230.56	724.9	-6.7	-4.6	6.9	0.27	0.24	5.32	
750.0	1.40	234.57	749.9	-7.1	-5.0	7.2	0.45	0.24	16.04	
775.0	1.32	230.50	774.9	-7.5	-5.5	7.6	0.50	-0.32	-16.28	
800.0	1.31	232.31	799.9	-7.8	-6.0	8.0	0.17	-0.04	7.24	
825.0	1.43	227.72	824.9	-8.2	-6.4	8.4	0.65	0.48	-18.36	
850.0	1.48	212.05	849.9	-8.7	-6.8	8.9	1.60	0.20	-62.68	
875.0	1.75	187.43	874.9	-9.3	-7.0	9.5	2.95	1.08	-98.48	
900.0	1.85	179.99	899.9	-10.1	-7.1	10.3	1.02	0.40	-29.76	
925.0	2.04	164.98	924.9	-11.0	-7.0	11.1	2.17	0.76	-60.04	
950.0	2.39	146.74	949.9	-11.8	-6.6	12.0	3.13	1.40	-72.96	
975.0	2.98	123.03	974.8	-12.6	-5.7	12.8	4.98	2.36	-94.84	
1,000.0	3.24	115.19	999.8	-13.3	-4.5	13.4	1.99	1.04	-31.36	
1,025.0	3.39	112.56	1,024.7	-13.9	-3.2	13.9	0.85	0.60	-10.52	
1,050.0	3.29	111.62	1,049.7	-14.4	-1.9	14.4	0.46	-0.40	-3.76	
1,075.0	3.29	112.07	1,074.7	-14.9	-0.5	14.9	0.10	0.00	1.80	
1,100.0	3.25	113.50	1,099.6	-15.5	0.8	15.5	0.36	-0.16	5.72	
1,125.0	3.09	115.15	1,124.6	-16.1	2.0	16.0	0.74	-0.64	6.60	
1,150.0	2.82	116.53	1,149.6	-16.6	3.2	16.5	1.12	-1.08	5.52	
1,175.0	2.89	118.81	1,174.5	-17.2	4.3	17.1	0.53	0.28	9.12	
1,200.0	2.77	119.60	1,199.5	-17.8	5.4	17.7	0.50	-0.48	3.16	
1,225.0	2.73	120.11	1,224.5	-18.4	6.4	18.2	0.19	-0.16	2.04	
1,250.0	2.77	119.83	1,249.4	-19.0	7.4	18.8	0.17	0.16	-1.12	
1,275.0	2.73	119.32	1,274.4	-19.6	8.5	19.4	0.19	-0.16	-2.04	
1,300.0	2.66	115.26	1,299.4	-20.1	9.5	19.9	0.81	-0.28	-16.24	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,325.0	2.78	113.77	1,324.3	-20.6	10.6	20.4	0.56	0.48	-5.96	
1,350.0	2.81	113.36	1,349.3	-21.1	11.7	20.8	0.14	0.12	-1.64	
1,375.0	2.87	113.04	1,374.3	-21.6	12.9	21.3	0.25	0.24	-1.28	
1,400.0	2.86	112.87	1,399.3	-22.1	14.0	21.7	0.05	-0.04	-0.68	
1,425.0	2.87	111.48	1,424.2	-22.6	15.2	22.2	0.28	0.04	-5.56	
1,450.0	2.93	110.57	1,449.2	-23.0	16.4	22.6	0.30	0.24	-3.64	
1,475.0	2.99	111.46	1,474.2	-23.5	17.6	23.0	0.30	0.24	3.56	
1,500.0	2.89	109.29	1,499.1	-23.9	18.8	23.5	0.60	-0.40	-8.68	
1,525.0	2.91	108.92	1,524.1	-24.3	20.0	23.8	0.11	0.08	-1.48	
1,550.0	3.00	110.17	1,549.1	-24.8	21.2	24.2	0.44	0.36	5.00	
1,575.0	2.92	110.13	1,574.0	-25.2	22.4	24.7	0.32	-0.32	-0.16	
1,600.0	2.98	107.80	1,599.0	-25.6	23.6	25.0	0.54	0.24	-9.32	
1,625.0	2.92	106.14	1,624.0	-26.0	24.8	25.4	0.42	-0.24	-6.64	
1,650.0	3.00	106.32	1,648.9	-26.4	26.1	25.7	0.32	0.32	0.72	
1,675.0	3.15	104.92	1,673.9	-26.7	27.4	26.0	0.67	0.60	-5.60	
1,700.0	3.44	103.71	1,698.9	-27.1	28.8	26.4	1.19	1.16	-4.84	
1,725.0	3.70	104.64	1,723.8	-27.5	30.3	26.7	1.07	1.04	3.72	
1,750.0	3.77	104.80	1,748.7	-27.9	31.8	27.1	0.28	0.28	0.64	
1,775.0	3.48	102.97	1,773.7	-28.3	33.4	27.4	1.25	-1.16	-7.32	
1,800.0	2.91	96.05	1,798.7	-28.5	34.7	27.6	2.75	-2.28	-27.68	
1,825.0	2.20	89.30	1,823.6	-28.5	35.9	27.7	3.08	-2.84	-27.00	
1,850.0	1.96	83.43	1,848.6	-28.5	36.8	27.6	1.28	-0.96	-23.48	
1,875.0	1.78	79.24	1,873.6	-28.4	37.6	27.5	0.90	-0.72	-16.76	
1,900.0	1.76	79.15	1,898.6	-28.2	38.3	27.3	0.08	-0.08	-0.36	
1,925.0	1.94	83.03	1,923.6	-28.1	39.1	27.1	0.88	0.72	15.52	
1,950.0	2.03	85.38	1,948.6	-28.0	40.0	27.0	0.49	0.36	9.40	
1,975.0	2.08	81.26	1,973.5	-27.9	40.9	26.9	0.62	0.20	-16.48	
2,000.0	2.28	81.31	1,998.5	-27.8	41.8	26.7	0.80	0.80	0.20	
2,025.0	2.34	78.55	2,023.5	-27.6	42.8	26.5	0.51	0.24	-11.04	
2,050.0	2.33	65.25	2,048.5	-27.3	43.8	26.2	2.16	-0.04	-53.20	
2,075.0	2.42	53.54	2,073.5	-26.8	44.7	25.7	1.97	0.36	-46.84	
2,100.0	2.46	50.54	2,098.4	-26.1	45.5	25.0	0.54	0.16	-12.00	
2,125.0	2.58	48.84	2,123.4	-25.4	46.3	24.3	0.57	0.48	-6.80	
2,150.0	2.77	50.27	2,148.4	-24.6	47.2	23.5	0.81	0.76	5.72	
2,175.0	2.85	53.83	2,173.4	-23.9	48.2	22.7	0.77	0.32	14.24	
2,200.0	2.90	54.97	2,198.3	-23.1	49.2	21.9	0.30	0.20	4.56	
2,225.0	2.87	53.50	2,223.3	-22.4	50.2	21.2	0.32	-0.12	-5.88	
2,250.0	2.95	54.09	2,248.3	-21.7	51.2	20.4	0.34	0.32	2.36	
2,275.0	2.93	53.06	2,273.2	-20.9	52.3	19.6	0.23	-0.08	-4.12	
2,300.0	3.02	54.27	2,298.2	-20.1	53.3	18.8	0.44	0.36	4.84	
2,325.0	2.82	50.28	2,323.2	-19.4	54.3	18.0	1.14	-0.80	-15.96	
2,350.0	2.73	52.58	2,348.1	-18.6	55.3	17.3	0.57	-0.36	9.20	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
2,375.0	2.65	50.71	2,373.1	-17.9	56.2	16.5	0.47	-0.32	-7.48	
2,400.0	2.64	49.02	2,398.1	-17.1	57.1	15.7	0.31	-0.04	-6.76	
2,425.0	2.61	49.87	2,423.1	-16.4	58.0	15.0	0.20	-0.12	3.40	
2,450.0	2.58	47.75	2,448.0	-15.6	58.8	14.2	0.40	-0.12	-8.48	
2,475.0	2.60	48.12	2,473.0	-14.9	59.6	13.4	0.10	0.08	1.48	
2,500.0	2.61	48.10	2,498.0	-14.1	60.5	12.6	0.04	0.04	-0.08	
2,525.0	2.55	47.15	2,523.0	-13.4	61.3	11.9	0.29	-0.24	-3.80	
2,550.0	2.47	46.52	2,547.9	-12.6	62.1	11.1	0.34	-0.32	-2.52	
2,575.0	2.53	33.97	2,572.9	-11.8	62.8	10.3	2.20	0.24	-50.20	
2,600.0	2.78	20.15	2,597.9	-10.8	63.3	9.2	2.74	1.00	-55.28	
2,625.0	3.09	11.16	2,622.9	-9.5	63.7	8.0	2.22	1.24	-35.96	
2,650.0	3.13	5.81	2,647.8	-8.2	63.9	6.6	1.17	0.16	-21.40	
2,675.0	3.19	6.07	2,672.8	-6.8	64.0	5.3	0.25	0.24	1.04	
2,700.0	3.16	4.14	2,697.7	-5.4	64.1	3.9	0.44	-0.12	-7.72	
2,725.0	3.15	5.41	2,722.7	-4.1	64.3	2.5	0.28	-0.04	5.08	
2,750.0	3.19	6.64	2,747.7	-2.7	64.4	1.1	0.32	0.16	4.92	
2,775.0	3.16	2.74	2,772.6	-1.3	64.5	-0.3	0.87	-0.12	-15.60	
2,800.0	3.51	345.25	2,797.6	0.1	64.4	-1.7	4.28	1.40	-69.96	
2,825.0	3.51	343.13	2,822.5	1.6	63.9	-3.1	0.52	0.00	-8.48	
2,850.0	3.62	338.75	2,847.5	3.1	63.4	-4.6	1.17	0.44	-17.52	
2,875.0	3.57	338.72	2,872.4	4.5	62.9	-6.0	0.20	-0.20	-0.12	
2,900.0	3.70	336.95	2,897.4	6.0	62.3	-7.5	0.69	0.52	-7.08	
2,925.0	3.51	337.62	2,922.3	7.4	61.7	-8.9	0.78	-0.76	2.68	
2,950.0	3.58	335.70	2,947.3	8.8	61.0	-10.3	0.55	0.28	-7.68	
2,975.0	3.34	325.55	2,972.2	10.2	60.3	-11.6	2.63	-0.96	-40.60	
3,000.0	3.02	312.12	2,997.2	11.2	59.4	-12.6	3.23	-1.28	-53.72	
3,025.0	2.83	303.07	3,022.2	12.0	58.4	-13.4	1.99	-0.76	-36.20	
3,050.0	2.85	303.32	3,047.1	12.7	57.4	-14.1	0.09	0.08	1.00	
3,075.0	2.84	303.63	3,072.1	13.3	56.3	-14.7	0.07	-0.04	1.24	
3,100.0	2.85	303.55	3,097.1	14.0	55.3	-15.4	0.04	0.04	-0.32	
3,125.0	2.78	303.15	3,122.1	14.7	54.3	-16.0	0.29	-0.28	-1.60	
3,150.0	2.69	302.08	3,147.0	15.3	53.3	-16.6	0.41	-0.36	-4.28	
3,175.0	2.69	302.01	3,172.0	16.0	52.3	-17.2	0.01	0.00	-0.28	
3,200.0	2.64	302.30	3,197.0	16.6	51.3	-17.8	0.21	-0.20	1.16	
3,225.0	2.69	300.80	3,221.9	17.2	50.3	-18.4	0.34	0.20	-6.00	
3,250.0	2.52	300.32	3,246.9	17.8	49.3	-19.0	0.69	-0.68	-1.92	
3,275.0	2.53	298.09	3,271.9	18.3	48.4	-19.5	0.39	0.04	-8.92	
3,300.0	2.60	297.31	3,296.9	18.8	47.4	-20.0	0.31	0.28	-3.12	
3,325.0	2.64	297.05	3,321.8	19.4	46.3	-20.5	0.17	0.16	-1.04	
3,350.0	3.39	288.18	3,346.8	19.8	45.1	-20.9	3.52	3.00	-35.48	
3,375.0	4.05	280.65	3,371.8	20.2	43.6	-21.3	3.28	2.64	-30.12	
3,400.0	4.24	276.55	3,396.7	20.5	41.8	-21.5	1.41	0.76	-16.40	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,425.0	4.46	276.06	3,421.6	20.7	39.9	-21.7	0.89	0.88	-1.96	
3,450.0	4.39	275.67	3,446.5	20.9	38.0	-21.8	0.30	-0.28	-1.56	
3,475.0	4.44	276.27	3,471.5	21.1	36.1	-22.0	0.27	0.20	2.40	
3,500.0	4.46	276.26	3,496.4	21.3	34.1	-22.2	0.08	0.08	-0.04	
3,525.0	4.32	275.22	3,521.3	21.5	32.2	-22.3	0.64	-0.56	-4.16	
3,550.0	4.18	275.21	3,546.3	21.7	30.4	-22.4	0.56	-0.56	-0.04	
3,575.0	3.85	276.32	3,571.2	21.9	28.6	-22.6	1.36	-1.32	4.44	
3,600.0	3.29	282.85	3,596.1	22.1	27.1	-22.8	2.76	-2.24	26.12	
3,625.0	2.86	290.78	3,621.1	22.5	25.8	-23.1	2.42	-1.72	31.72	
3,650.0	2.56	302.61	3,646.1	23.0	24.8	-23.6	2.53	-1.20	47.32	
3,675.0	2.33	315.42	3,671.1	23.7	23.9	-24.3	2.37	-0.92	51.24	
3,700.0	2.26	327.36	3,696.0	24.5	23.3	-25.0	1.93	-0.28	47.76	
3,725.0	2.31	328.00	3,721.0	25.3	22.8	-25.8	0.22	0.20	2.56	
3,750.0	2.36	328.97	3,746.0	26.2	22.3	-26.7	0.25	0.20	3.88	
3,775.0	2.30	330.20	3,771.0	27.0	21.7	-27.6	0.31	-0.24	4.92	
3,800.0	2.28	330.77	3,796.0	27.9	21.3	-28.4	0.12	-0.08	2.28	
3,825.0	2.35	330.48	3,820.9	28.8	20.8	-29.3	0.28	0.28	-1.16	
3,850.0	2.38	328.69	3,845.9	29.7	20.2	-30.2	0.32	0.12	-7.16	
3,875.0	2.34	328.88	3,870.9	30.6	19.7	-31.0	0.16	-0.16	0.76	
3,900.0	2.39	326.78	3,895.9	31.4	19.1	-31.9	0.40	0.20	-8.40	
3,925.0	2.21	325.42	3,920.8	32.3	18.6	-32.7	0.75	-0.72	-5.44	
3,950.0	2.17	324.08	3,945.8	33.0	18.0	-33.5	0.26	-0.16	-5.36	
3,975.0	2.09	323.70	3,970.8	33.8	17.5	-34.2	0.32	-0.32	-1.52	
4,000.0	2.09	321.50	3,995.8	34.5	16.9	-34.9	0.32	0.00	-8.80	
4,025.0	2.13	318.70	4,020.8	35.2	16.3	-35.6	0.44	0.16	-11.20	
4,050.0	2.03	320.42	4,045.8	35.9	15.8	-36.3	0.47	-0.40	6.88	
4,075.0	1.94	316.64	4,070.7	36.6	15.2	-36.9	0.64	-0.36	-15.12	
4,100.0	1.97	317.00	4,095.7	37.2	14.6	-37.5	0.13	0.12	1.44	
4,125.0	2.01	318.94	4,120.7	37.8	14.0	-38.2	0.31	0.16	7.76	
4,150.0	1.81	318.09	4,145.7	38.5	13.5	-38.8	0.81	-0.80	-3.40	
4,175.0	1.79	317.34	4,170.7	39.0	12.9	-39.3	0.12	-0.08	-3.00	
4,200.0	1.86	316.44	4,195.7	39.6	12.4	-39.9	0.30	0.28	-3.60	
4,225.0	1.91	316.68	4,220.7	40.2	11.8	-40.5	0.20	0.20	0.96	
4,250.0	1.96	316.90	4,245.7	40.8	11.3	-41.1	0.20	0.20	0.88	
4,275.0	1.90	316.49	4,270.6	41.4	10.7	-41.7	0.25	-0.24	-1.64	
4,300.0	1.93	316.91	4,295.6	42.1	10.1	-42.3	0.13	0.12	1.68	
4,325.0	1.92	316.11	4,320.6	42.7	9.5	-42.9	0.11	-0.04	-3.20	
4,350.0	1.82	316.85	4,345.6	43.3	9.0	-43.5	0.41	-0.40	2.96	
4,375.0	1.78	313.54	4,370.6	43.8	8.4	-44.0	0.45	-0.16	-13.24	
4,400.0	1.71	313.23	4,395.6	44.3	7.9	-44.5	0.28	-0.28	-1.24	
4,425.0	1.68	312.33	4,420.6	44.8	7.3	-45.0	0.16	-0.12	-3.60	
4,450.0	1.37	308.39	4,445.6	45.3	6.8	-45.4	1.31	-1.24	-15.76	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
4,475.0	0.93	273.87	4,470.5	45.5	6.4	-45.6	3.21	-1.76	-138.08	
4,500.0	1.17	221.92	4,495.5	45.3	6.0	-45.4	3.78	0.96	-207.80	
4,525.0	1.56	208.87	4,520.5	44.8	5.7	-44.9	1.99	1.56	-52.20	
4,550.0	1.69	204.16	4,545.5	44.2	5.3	-44.3	0.75	0.52	-18.84	
4,575.0	1.78	201.85	4,570.5	43.5	5.1	-43.6	0.46	0.36	-9.24	
4,600.0	1.72	204.81	4,595.5	42.8	4.8	-42.9	0.43	-0.24	11.84	
4,625.0	1.80	200.71	4,620.5	42.1	4.5	-42.2	0.60	0.32	-16.40	
4,650.0	1.83	200.10	4,645.5	41.3	4.2	-41.4	0.14	0.12	-2.44	
4,675.0	1.71	205.19	4,670.5	40.6	3.9	-40.7	0.79	-0.48	20.36	
4,700.0	1.76	201.39	4,695.5	39.9	3.6	-40.0	0.50	0.20	-15.20	
4,725.0	1.86	196.56	4,720.4	39.2	3.3	-39.2	0.73	0.40	-19.32	
4,750.0	2.37	189.60	4,745.4	38.3	3.1	-38.3	2.28	2.04	-27.84	
4,775.0	3.54	176.46	4,770.4	37.0	3.1	-37.1	5.38	4.68	-52.56	
4,800.0	3.62	175.10	4,795.3	35.4	3.2	-35.5	0.47	0.32	-5.44	
4,825.0	3.72	174.10	4,820.3	33.8	3.4	-33.9	0.47	0.40	-4.00	
4,850.0	3.52	174.20	4,845.2	32.3	3.5	-32.3	0.80	-0.80	0.40	
4,875.0	3.48	175.56	4,870.2	30.8	3.7	-30.8	0.37	-0.16	5.44	
4,900.0	3.49	175.53	4,895.1	29.2	3.8	-29.3	0.04	0.04	-0.12	
4,925.0	3.45	175.26	4,920.1	27.7	3.9	-27.8	0.17	-0.16	-1.08	
4,950.0	3.43	176.43	4,945.1	26.2	4.0	-26.3	0.29	-0.08	4.68	
4,975.0	3.19	177.20	4,970.0	24.8	4.1	-24.9	0.98	-0.96	3.08	
5,000.0	3.02	178.88	4,995.0	23.4	4.1	-23.5	0.77	-0.68	6.72	
5,025.0	3.10	177.25	5,019.9	22.1	4.2	-22.2	0.47	0.32	-6.52	
5,050.0	3.04	179.09	5,044.9	20.8	4.2	-20.9	0.46	-0.24	7.36	
5,075.0	3.03	178.83	5,069.9	19.4	4.2	-19.5	0.07	-0.04	-1.04	
5,100.0	3.00	180.61	5,094.8	18.1	4.2	-18.2	0.39	-0.12	7.12	
5,125.0	2.94	178.17	5,119.8	16.8	4.3	-16.9	0.56	-0.24	-9.76	
5,150.0	2.91	180.79	5,144.8	15.6	4.3	-15.7	0.55	-0.12	10.48	
5,175.0	3.01	182.06	5,169.7	14.3	4.2	-14.4	0.48	0.40	5.08	
5,200.0	2.92	181.13	5,194.7	13.0	4.2	-13.1	0.41	-0.36	-3.72	
5,225.0	2.88	181.32	5,219.7	11.7	4.2	-11.8	0.16	-0.16	0.76	
5,250.0	2.78	181.77	5,244.6	10.5	4.1	-10.6	0.41	-0.40	1.80	
5,275.0	2.78	181.22	5,269.6	9.3	4.1	-9.4	0.11	0.00	-2.20	
5,300.0	2.77	179.93	5,294.6	8.1	4.1	-8.2	0.25	-0.04	-5.16	
5,325.0	2.67	181.56	5,319.6	6.9	4.1	-7.0	0.51	-0.40	6.52	
5,350.0	2.48	183.26	5,344.5	5.7	4.0	-5.8	0.82	-0.76	6.80	
5,375.0	2.46	182.89	5,369.5	4.7	4.0	-4.8	0.10	-0.08	-1.48	
5,400.0	2.38	182.74	5,394.5	3.6	3.9	-3.7	0.32	-0.32	-0.60	
5,425.0	2.37	180.21	5,419.5	2.6	3.9	-2.7	0.42	-0.04	-10.12	
5,450.0	2.44	181.99	5,444.4	1.5	3.9	-1.6	0.41	0.28	7.12	
5,475.0	2.36	182.84	5,469.4	0.5	3.8	-0.6	0.35	-0.32	3.40	
5,500.0	1.94	190.86	5,494.4	-0.4	3.7	0.4	2.06	-1.68	32.08	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,525.0	1.20	222.50	5,519.4	-1.1	3.5	1.0	4.45	-2.96	126.56	
5,550.0	1.16	244.41	5,544.4	-1.4	3.1	1.3	1.80	-0.16	87.64	
5,575.0	1.15	248.73	5,569.4	-1.6	2.6	1.5	0.35	-0.04	17.28	
5,600.0	1.12	250.63	5,594.4	-1.7	2.1	1.7	0.19	-0.12	7.60	
5,625.0	1.07	246.29	5,619.4	-1.9	1.7	1.9	0.39	-0.20	-17.36	
5,650.0	1.16	248.27	5,644.4	-2.1	1.3	2.1	0.39	0.36	7.92	
5,675.0	1.09	249.09	5,669.4	-2.3	0.8	2.2	0.29	-0.28	3.28	
5,700.0	1.30	279.33	5,694.4	-2.3	0.3	2.3	2.62	0.84	120.96	
5,725.0	1.97	305.32	5,719.3	-2.0	-0.3	2.0	3.93	2.68	103.96	
5,750.0	2.14	306.34	5,744.3	-1.5	-1.1	1.5	0.70	0.68	4.08	
5,775.0	2.28	309.59	5,769.3	-0.9	-1.8	0.9	0.75	0.56	13.00	
5,800.0	2.84	315.87	5,794.3	-0.1	-2.6	0.2	2.50	2.24	25.12	
5,825.0	3.94	324.43	5,819.2	1.0	-3.6	-0.9	4.83	4.40	34.24	
5,850.0	4.15	325.12	5,844.2	2.5	-4.6	-2.3	0.86	0.84	2.76	
5,875.0	4.53	326.37	5,869.1	4.0	-5.7	-3.9	1.57	1.52	5.00	
5,900.0	5.21	327.04	5,894.0	5.8	-6.8	-5.6	2.73	2.72	2.68	
5,925.0	5.36	327.90	5,918.9	7.7	-8.1	-7.5	0.68	0.60	3.44	
5,950.0	5.16	329.79	5,943.8	9.7	-9.2	-9.5	1.06	-0.80	7.56	
5,975.0	5.08	331.12	5,968.7	11.6	-10.3	-11.4	0.57	-0.32	5.32	
6,000.0	4.98	334.74	5,993.6	13.6	-11.3	-13.3	1.33	-0.40	14.48	
6,025.0	4.84	337.51	6,018.5	15.5	-12.2	-15.2	1.10	-0.56	11.08	
6,050.0	4.88	338.43	6,043.4	17.5	-13.0	-17.2	0.35	0.16	3.68	
6,075.0	4.98	340.06	6,068.3	19.5	-13.8	-19.2	0.69	0.40	6.52	
6,100.0	5.06	342.53	6,093.2	21.6	-14.5	-21.2	0.92	0.32	9.88	
6,125.0	4.99	344.92	6,118.1	23.7	-15.1	-23.3	0.88	-0.28	9.56	
6,150.0	4.75	345.54	6,143.1	25.7	-15.6	-25.3	0.98	-0.96	2.48	
6,175.0	4.61	346.05	6,168.0	27.7	-16.1	-27.3	0.58	-0.56	2.04	
6,200.0	4.13	343.92	6,192.9	29.6	-16.6	-29.1	2.03	-1.92	-8.52	
6,225.0	3.41	343.15	6,217.8	31.1	-17.1	-30.7	2.89	-2.88	-3.08	
6,250.0	3.12	343.03	6,242.8	32.5	-17.5	-32.1	1.16	-1.16	-0.48	
6,275.0	2.97	344.04	6,267.8	33.8	-17.9	-33.3	0.64	-0.60	4.04	
6,300.0	2.75	350.66	6,292.7	35.0	-18.1	-34.5	1.59	-0.88	26.48	
6,325.0	2.65	352.50	6,317.7	36.1	-18.3	-35.7	0.53	-0.40	7.36	
6,350.0	2.47	353.80	6,342.7	37.3	-18.4	-36.8	0.76	-0.72	5.20	
6,375.0	2.38	352.88	6,367.7	38.3	-18.6	-37.8	0.39	-0.36	-3.68	
6,400.0	2.46	352.87	6,392.6	39.4	-18.7	-38.9	0.32	0.32	-0.04	
6,425.0	2.51	350.81	6,417.6	40.4	-18.9	-40.0	0.41	0.20	-8.24	
6,450.0	2.41	350.45	6,442.6	41.5	-19.0	-41.0	0.40	-0.40	-1.44	
6,475.0	2.22	349.29	6,467.6	42.5	-19.2	-42.0	0.78	-0.76	-4.64	
6,500.0	2.23	349.61	6,492.6	43.4	-19.4	-42.9	0.06	0.04	1.28	
6,525.0	2.20	349.38	6,517.5	44.4	-19.6	-43.9	0.13	-0.12	-0.92	
6,550.0	1.80	349.51	6,542.5	45.2	-19.7	-44.7	1.60	-1.60	0.52	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
6,575.0	1.56	353.36	6,567.5	46.0	-19.8	-45.5	1.06	-0.96	15.40	
6,600.0	1.80	355.84	6,592.5	46.7	-19.9	-46.2	1.00	0.96	9.92	
6,625.0	1.69	357.67	6,617.5	47.5	-19.9	-47.0	0.49	-0.44	7.32	
6,650.0	1.55	5.77	6,642.5	48.2	-19.9	-47.7	1.07	-0.56	32.40	
6,675.0	1.74	13.32	6,667.5	48.9	-19.8	-48.4	1.15	0.76	30.20	
6,700.0	1.70	10.26	6,692.5	49.6	-19.6	-49.1	0.40	-0.16	-12.24	
6,725.0	1.79	14.91	6,717.4	50.3	-19.5	-49.9	0.67	0.36	18.60	
6,750.0	1.92	8.72	6,742.4	51.1	-19.3	-50.6	0.95	0.52	-24.76	
6,775.0	1.90	9.27	6,767.4	52.0	-19.2	-51.5	0.11	-0.08	2.20	
6,800.0	1.81	4.33	6,792.4	52.8	-19.1	-52.3	0.73	-0.36	-19.76	
6,825.0	1.91	1.56	6,817.4	53.6	-19.0	-53.1	0.54	0.40	-11.08	
6,850.0	1.83	357.71	6,842.4	54.4	-19.1	-53.9	0.60	-0.32	-15.40	
6,875.0	2.04	354.98	6,867.4	55.2	-19.1	-54.7	0.92	0.84	-10.92	
6,900.0	1.90	352.73	6,892.4	56.1	-19.2	-55.6	0.64	-0.56	-9.00	
6,925.0	1.92	349.04	6,917.3	56.9	-19.3	-56.4	0.50	0.08	-14.76	
6,950.0	1.67	356.06	6,942.3	57.7	-19.4	-57.2	1.33	-1.00	28.08	
6,975.0	1.29	355.56	6,967.3	58.3	-19.5	-57.8	1.52	-1.52	-2.00	
7,000.0	1.15	3.48	6,992.3	58.9	-19.5	-58.4	0.88	-0.56	31.68	
7,025.0	1.00	14.81	7,017.3	59.3	-19.4	-58.8	1.04	-0.60	45.32	
7,050.0	0.99	17.40	7,042.3	59.7	-19.3	-59.2	0.18	-0.04	10.36	
7,075.0	1.05	21.21	7,067.3	60.1	-19.1	-59.7	0.36	0.24	15.24	
7,100.0	1.02	30.30	7,092.3	60.6	-19.0	-60.1	0.67	-0.12	36.36	
7,125.0	0.89	22.65	7,117.3	60.9	-18.8	-60.5	0.73	-0.52	-30.60	
7,150.0	0.88	40.22	7,142.3	61.3	-18.6	-60.8	1.08	-0.04	70.28	
7,167.0	0.93	32.63	7,159.3	61.5	-18.4	-61.0	0.76	0.29	-44.65	
7,278.0	0.53	127.25	7,270.3	61.9	-17.5	-61.5	1.00	-0.36	85.24	
7,310.0	1.83	158.10	7,302.3	61.4	-17.2	-60.9	4.38	4.06	96.41	
7,341.0	3.71	182.60	7,333.2	59.9	-17.1	-59.5	7.04	6.06	79.03	
7,372.0	7.16	187.62	7,364.1	57.0	-17.4	-56.5	11.22	11.13	16.19	
7,403.0	10.85	189.20	7,394.7	52.2	-18.1	-51.7	11.93	11.90	5.10	
7,435.0	14.25	192.48	7,425.9	45.4	-19.4	-44.9	10.85	10.63	10.25	
7,466.0	16.98	196.30	7,455.8	37.3	-21.5	-36.7	9.41	8.81	12.32	
7,497.0	21.18	193.84	7,485.1	27.5	-24.1	-26.9	13.79	13.55	-7.94	
7,529.0	24.75	194.40	7,514.5	15.4	-27.2	-14.7	11.18	11.16	1.75	
7,560.0	27.24	188.86	7,542.4	2.1	-29.9	-1.4	11.21	8.03	-17.87	
7,591.0	30.01	185.63	7,569.6	-12.6	-31.7	13.4	10.23	8.94	-10.42	
7,622.0	30.70	185.30	7,596.4	-28.2	-33.2	29.0	2.29	2.23	-1.06	
7,654.0	33.75	185.05	7,623.4	-45.2	-34.8	46.1	9.54	9.53	-0.78	
7,685.0	36.77	185.83	7,648.7	-63.0	-36.5	63.9	9.85	9.74	2.52	
7,716.0	40.59	187.55	7,672.9	-82.3	-38.7	83.2	12.80	12.32	5.55	
7,748.0	44.17	187.84	7,696.6	-103.6	-41.6	104.6	11.20	11.19	0.91	
7,779.0	45.32	188.21	7,718.6	-125.3	-44.7	126.3	3.80	3.71	1.19	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,810.0	45.37	189.76	7,740.4	-147.0	-48.1	148.2	3.56	0.16	5.00
7,841.0	45.33	191.75	7,762.2	-168.7	-52.2	169.9	4.57	-0.13	6.42
7,873.0	47.52	194.47	7,784.2	-191.3	-57.5	192.6	9.21	6.84	8.50
7,904.0	50.85	194.64	7,804.5	-214.0	-63.4	215.4	10.75	10.74	0.55
7,935.0	55.34	194.42	7,823.1	-238.0	-69.6	239.6	14.49	14.48	-0.71
7,967.0	60.57	194.13	7,840.1	-264.2	-76.3	266.0	16.36	16.34	-0.91
7,998.0	63.71	194.23	7,854.6	-290.8	-83.0	292.7	10.13	10.13	0.32
8,029.0	65.04	192.95	7,868.0	-318.0	-89.6	320.1	5.68	4.29	-4.13
8,061.0	68.40	191.63	7,880.6	-346.7	-95.8	348.9	11.16	10.50	-4.13
8,092.0	71.15	191.10	7,891.3	-375.2	-101.6	377.6	9.01	8.87	-1.71
8,123.0	74.56	192.87	7,900.5	-404.2	-107.7	406.7	12.28	11.00	5.71
8,154.0	79.33	194.34	7,907.5	-433.5	-114.8	436.2	16.07	15.39	4.74
8,186.0	82.85	193.07	7,912.4	-464.2	-122.3	467.1	11.68	11.00	-3.97
8,255.0	90.32	193.86	7,916.5	-531.2	-138.3	534.4	10.89	10.83	1.14
8,351.0	88.92	192.95	7,917.2	-624.5	-160.6	628.3	1.74	-1.46	-0.95
8,445.0	88.16	190.46	7,919.6	-716.5	-179.7	720.7	2.77	-0.81	-2.65
8,538.0	86.28	186.01	7,924.1	-808.5	-193.0	812.9	5.19	-2.02	-4.78
8,631.0	84.94	184.17	7,931.2	-900.8	-201.2	905.4	2.44	-1.44	-1.98
8,725.0	87.72	182.85	7,937.2	-994.4	-206.9	999.2	3.27	2.96	-1.40
8,819.0	90.21	182.63	7,938.9	-1,088.3	-211.4	1,093.1	2.66	2.65	-0.23
8,912.0	90.18	182.82	7,938.6	-1,181.2	-215.8	1,186.1	0.21	-0.03	0.20
9,006.0	90.60	183.39	7,937.9	-1,275.1	-220.9	1,280.0	0.75	0.45	0.61
9,099.0	91.08	184.26	7,936.6	-1,367.8	-227.1	1,373.0	1.07	0.52	0.94
9,193.0	91.11	184.11	7,934.8	-1,461.6	-234.0	1,466.8	0.16	0.03	-0.16
9,287.0	89.51	181.33	7,934.3	-1,555.4	-238.5	1,560.8	3.41	-1.70	-2.96
9,380.0	90.04	179.83	7,934.6	-1,648.4	-239.4	1,653.8	1.71	0.57	-1.61
9,473.0	91.25	179.34	7,933.6	-1,741.4	-238.7	1,746.7	1.40	1.30	-0.53
9,566.0	91.70	180.58	7,931.2	-1,834.4	-238.7	1,839.7	1.42	0.48	1.33
9,660.0	92.40	181.39	7,927.8	-1,928.3	-240.3	1,933.6	1.14	0.74	0.86
9,753.0	90.38	181.45	7,925.6	-2,021.3	-242.6	2,026.6	2.17	-2.17	0.06
9,846.0	89.79	181.62	7,925.4	-2,114.2	-245.1	2,119.6	0.66	-0.63	0.18
9,940.0	90.29	181.43	7,925.4	-2,208.2	-247.6	2,213.6	0.57	0.53	-0.20
10,033.0	89.79	179.57	7,925.3	-2,301.2	-248.4	2,306.5	2.07	-0.54	-2.00
10,127.0	89.85	179.32	7,925.6	-2,395.2	-247.5	2,400.5	0.27	0.06	-0.27
10,220.0	90.07	180.29	7,925.7	-2,488.2	-247.2	2,493.5	1.07	0.24	1.04
10,313.0	89.90	178.67	7,925.7	-2,581.2	-246.3	2,586.4	1.75	-0.18	-1.74
10,406.0	90.43	178.86	7,925.4	-2,674.1	-244.3	2,679.3	0.61	0.57	0.20
10,500.0	90.85	179.52	7,924.4	-2,768.1	-243.0	2,773.2	0.83	0.45	0.70
10,595.0	88.50	178.99	7,924.9	-2,863.1	-241.7	2,868.1	2.54	-2.47	-0.56
10,688.0	88.61	179.83	7,927.3	-2,956.1	-240.8	2,961.1	0.91	0.12	0.90
10,782.0	88.70	180.12	7,929.5	-3,050.1	-240.7	3,055.0	0.32	0.10	0.31
10,875.0	88.98	179.29	7,931.4	-3,143.0	-240.3	3,147.9	0.94	0.30	-0.89

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
10,969.0	90.04	179.08	7,932.2	-3,237.0	-238.9	3,241.9	1.15	1.13	-0.22	
11,063.0	91.36	177.47	7,931.0	-3,331.0	-236.1	3,335.7	2.21	1.40	-1.71	
11,156.0	91.67	177.79	7,928.6	-3,423.9	-232.3	3,428.5	0.48	0.33	0.34	
11,249.0	91.89	177.86	7,925.7	-3,516.7	-228.7	3,521.3	0.25	0.24	0.08	
11,343.0	91.89	178.38	7,922.6	-3,610.6	-225.6	3,615.1	0.55	0.00	0.55	
11,436.0	91.92	178.84	7,919.5	-3,703.6	-223.4	3,707.9	0.50	0.03	0.49	
11,529.0	91.36	179.84	7,916.8	-3,796.5	-222.3	3,800.8	1.23	-0.60	1.08	
11,623.0	89.01	179.69	7,916.5	-3,890.5	-221.9	3,894.8	2.51	-2.50	-0.16	
11,716.0	88.33	179.23	7,918.7	-3,983.5	-221.1	3,987.7	0.88	-0.73	-0.49	
11,810.0	89.90	179.98	7,920.1	-4,077.5	-220.4	4,081.6	1.85	1.67	0.80	
11,903.0	91.08	182.04	7,919.3	-4,170.4	-222.0	4,174.6	2.55	1.27	2.22	
11,997.0	91.44	182.48	7,917.3	-4,264.3	-225.8	4,268.6	0.60	0.38	0.47	
12,090.0	88.36	181.80	7,917.4	-4,357.3	-229.2	4,361.5	3.39	-3.31	-0.73	
12,185.0	89.79	182.46	7,918.9	-4,452.2	-232.8	4,456.5	1.66	1.51	0.69	
12,278.0	90.24	182.81	7,918.9	-4,545.1	-237.0	4,549.5	0.61	0.48	0.38	
12,372.0	88.30	182.83	7,920.1	-4,639.0	-241.7	4,643.5	2.06	-2.06	0.02	
12,466.0	88.25	182.32	7,923.0	-4,732.8	-245.9	4,737.4	0.54	-0.05	-0.54	
12,559.0	91.53	180.68	7,923.1	-4,825.8	-248.3	4,830.4	3.94	3.53	-1.76	
12,652.0	92.20	180.09	7,920.1	-4,918.7	-248.9	4,923.3	0.96	0.72	-0.63	
12,746.0	92.43	180.40	7,916.3	-5,012.6	-249.3	5,017.2	0.41	0.24	0.33	
12,839.0	90.80	180.30	7,913.7	-5,105.6	-249.9	5,110.2	1.76	-1.75	-0.11	
12,933.0	90.88	180.32	7,912.3	-5,199.6	-250.4	5,204.1	0.09	0.09	0.02	
13,027.0	91.19	180.77	7,910.6	-5,293.6	-251.3	5,298.1	0.58	0.33	0.48	
13,121.0	91.27	181.01	7,908.6	-5,387.5	-252.8	5,392.1	0.27	0.09	0.26	
13,215.0	89.03	180.12	7,908.3	-5,481.5	-253.7	5,486.1	2.56	-2.38	-0.95	
13,309.0	88.30	180.25	7,910.5	-5,575.5	-254.0	5,580.0	0.79	-0.78	0.14	
13,403.0	87.91	179.43	7,913.6	-5,669.4	-253.7	5,673.9	0.97	-0.41	-0.87	
13,497.0	86.99	179.22	7,917.8	-5,763.3	-252.6	5,767.8	1.00	-0.98	-0.22	
13,590.0	85.44	179.00	7,924.0	-5,856.1	-251.2	5,860.5	1.68	-1.67	-0.24	
13,683.0	84.18	179.89	7,932.4	-5,948.7	-250.3	5,953.1	1.66	-1.35	0.96	
13,778.0	86.62	179.69	7,940.0	-6,043.4	-249.9	6,047.7	2.58	2.57	-0.21	
13,872.0	90.52	180.19	7,942.3	-6,137.4	-249.8	6,141.6	4.18	4.15	0.53	
13,966.0	93.07	179.80	7,939.4	-6,231.3	-249.8	6,235.6	2.74	2.71	-0.41	
14,060.0	94.33	179.20	7,933.3	-6,325.1	-249.0	6,329.3	1.48	1.34	-0.64	
14,154.0	92.93	178.85	7,927.4	-6,418.9	-247.4	6,423.0	1.54	-1.49	-0.37	
14,247.0	93.94	178.52	7,921.8	-6,511.7	-245.3	6,515.8	1.14	1.09	-0.35	
14,341.0	92.62	178.98	7,916.4	-6,605.5	-243.2	6,609.5	1.49	-1.40	0.49	
14,435.0	90.15	181.07	7,914.2	-6,699.5	-243.3	6,703.4	3.44	-2.63	2.22	
14,529.0	89.06	182.00	7,914.8	-6,793.5	-245.8	6,797.4	1.52	-1.16	0.99	
14,623.0	89.59	182.06	7,915.9	-6,887.4	-249.1	6,891.4	0.57	0.56	0.06	
14,717.0	88.28	181.11	7,917.7	-6,981.3	-251.7	6,985.4	1.72	-1.39	-1.01	
14,810.0	89.29	181.00	7,919.6	-7,074.3	-253.4	7,078.4	1.09	1.09	-0.12	

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,904.0	88.50	180.97	7,921.4	-7,168.3	-255.1	7,172.4	0.84	-0.84	-0.03
14,998.0	89.45	180.95	7,923.1	-7,262.2	-256.6	7,266.3	1.01	1.01	-0.02
15,092.0	88.42	180.39	7,924.9	-7,356.2	-257.7	7,360.3	1.25	-1.10	-0.60
15,186.0	89.09	180.61	7,926.9	-7,450.2	-258.6	7,454.3	0.75	0.71	0.23
15,280.0	89.51	178.63	7,928.1	-7,544.2	-257.9	7,548.2	2.15	0.45	-2.11
15,374.0	90.15	178.20	7,928.3	-7,638.1	-255.3	7,642.1	0.82	0.68	-0.46
15,467.0	91.11	178.31	7,927.3	-7,731.1	-252.5	7,734.9	1.04	1.03	0.12
15,561.0	89.26	177.19	7,927.0	-7,825.0	-248.8	7,828.7	2.30	-1.97	-1.19
15,655.0	89.90	177.71	7,927.7	-7,918.9	-244.6	7,922.5	0.88	0.68	0.55
15,749.0	90.91	177.80	7,927.0	-8,012.8	-240.9	8,016.3	1.08	1.07	0.10
15,843.0	90.24	178.98	7,926.1	-8,106.8	-238.3	8,110.2	1.44	-0.71	1.26
15,937.0	90.77	180.14	7,925.3	-8,200.8	-237.6	8,204.1	1.36	0.56	1.23
16,030.0	89.12	179.96	7,925.4	-8,293.8	-237.7	8,297.1	1.78	-1.77	-0.19
16,124.0	89.73	180.42	7,926.3	-8,387.8	-238.0	8,391.1	0.81	0.65	0.49
16,217.0	90.13	179.95	7,926.4	-8,480.8	-238.3	8,484.1	0.66	0.43	-0.51
16,311.0	90.85	179.83	7,925.6	-8,574.8	-238.1	8,578.0	0.78	0.77	-0.13
16,405.0	91.95	179.71	7,923.3	-8,668.7	-237.7	8,672.0	1.18	1.17	-0.13
16,495.0	92.17	180.83	7,920.1	-8,758.7	-238.1	8,761.9	1.27	0.24	1.24
16,595.0	91.33	180.87	7,917.0	-8,858.6	-239.6	8,861.8	0.84	-0.84	0.04
16,687.0	89.99	179.95	7,916.0	-8,950.6	-240.3	8,953.8	1.77	-1.46	-1.00
16,780.0	89.96	179.57	7,916.0	-9,043.6	-239.9	9,046.8	0.41	-0.03	-0.41
16,874.0	88.19	179.55	7,917.5	-9,137.6	-239.2	9,140.7	1.88	-1.88	-0.02
16,968.0	88.36	180.24	7,920.4	-9,231.5	-239.0	9,234.6	0.76	0.18	0.73
17,062.0	88.87	179.63	7,922.6	-9,325.5	-238.9	9,328.6	0.85	0.54	-0.65
17,156.0	90.24	179.86	7,923.4	-9,419.5	-238.5	9,422.5	1.48	1.46	0.24
17,250.0	87.46	179.16	7,925.2	-9,513.5	-237.7	9,516.4	3.05	-2.96	-0.74
17,344.0	86.88	181.09	7,929.9	-9,607.4	-237.9	9,610.3	2.14	-0.62	2.05
17,438.0	87.83	178.81	7,934.2	-9,701.3	-237.8	9,704.2	2.63	1.01	-2.43
17,531.0	88.89	178.81	7,936.9	-9,794.2	-235.9	9,797.0	1.14	1.14	0.00
17,626.0	90.04	179.10	7,937.8	-9,889.2	-234.1	9,891.9	1.25	1.21	0.31
17,720.0	91.33	179.27	7,936.6	-9,983.2	-232.8	9,985.9	1.38	1.37	0.18
17,814.0	92.34	179.18	7,933.6	-10,077.1	-231.5	10,079.7	1.08	1.07	-0.10
17,897.0	93.21	179.15	7,929.6	-10,160.0	-230.3	10,162.6	1.05	1.05	-0.04
Last MWD Svy									
17,910.1	93.21	179.15	7,928.9	-10,173.1	-230.1	10,175.7	0.00	0.00	0.00
LTP @ 17910.1'MD									
17,959.0	93.21	179.15	7,926.1	-10,221.9	-229.4	10,224.4	0.00	0.00	0.00
PTB									

Survey Report

Company:	NORTHERN DELAWARE BASIN	Local Co-ordinate Reference:	Well SRO 5 STATE COM #506H
Project:	EDDY COUNTY, NM	TVD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Site:	ATLAS	MD Reference:	RKB = 3009.2' + 27' @ 3036.2usft (SCANDRILL FRDM)
Well:	SRO 5 STATE COM #506H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	ACTUAL WELLPATH	Database:	EDM_Users

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,897.0	7,929.6	-10,160.0	-230.3	Last MWD Svy
17,910.1	7,928.9	-10,173.1	-230.1	LTP @ 17910.1'MD
17,959.0	7,926.1	-10,221.9	-229.4	PTB

Checked By: _____	Approved By: _____	Date: _____
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