



PHOENIX
TECHNOLOGY SERVICES

March 15, 2018

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

NEW MEXICO OIL CONSERVATION
ARTESIA DISTRICT
MAR 22 2018

RECEIVED

Dear District 2 - Artesia

Attention: Regulatory Department

Re: Delaware Energy
Fikes SWD 1
Eddy County, NM
API #30-015-44419
Job No. 62172

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced Well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Howard Becker	1	694	14,706	12/23/17	2/1/18	MWD

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SURVEY DATA CERTIFICATION



PHOENIX
TECHNOLOGY SERVICES

Job #: 62172

Client: Delaware Energy

County & State: Eddy Co., New Mexico

Well: Fikes SWD 1

API No: 30-015-44419

Proposed Direction:

TIE-IN DATA

MD	TVD	INC	AZM	N/-S	E/-W	DATA SOURCE
503.00	502.95	1.53	254.23	-2.04	-5.64	
Data Source Company:						

SURVEY DATA

First Survey Date	First Survey Depth	INC	AZM
23-Dec-17	694 ft	1.74°	241.17°

Last Survey Date	Last Survey Depth	INC	AZM
1-Feb-18	14,706 ft	2.30°	51.19°

Survey Instrument Type

Phoenix MWD

Projected TD Survey Date	Projected TD Survey Depth	INC	AZM
1-Feb-18	14,765 ft	2.30°	51.19°

CORRECTION INFORMATION

Magnetic Declination Used	7.15 degrees
Grid Convergence Used	7.27 degrees
Total Correction	0.12 degrees

Corrected to True/Grid North

Grid North

TO THE BEST OF MY KNOWLEDGE, I
CERTIFY THIS SURVEY DATA TO BE TRUE
AND CORRECT.

HOWARD BECKER

Signature

January 2, 2018

Date



PHOENIX
TECHNOLOGY SERVICES

Delaware Energy, LLC

Eddy County, NM (NAD83)

Fikes SWD

#1

OH / Job #62172

WIND OIL CONSERVATION
ARTESIA DISTRICT

MAR 22 2018

RECEIVED

Survey: Phoenix MWD Surveys

Standard Survey Report

20 February, 2018



Survey Report

Company: Delaware Energy, LLC
Project: Eddy County, NM (NAD83)
Site: Fikes SWD
Well: #1
Wellbore: OH / Job #62172
Design: Surveys (UDI 50)

Local Co-ordinate Reference: Well #1
TVD Reference: RKB @ 3096.00usft (UDI 50)
MD Reference: RKB @ 3096.00usft (UDI 50)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

Project	Eddy County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Fikes SWD

Site Position:
From: Lat/Long
Position Uncertainty: 0.00 usft
Northing: 443,680.00 usft
Easting: 608,092.70 usft
Slot Radius: 13-3/16 "
Latitude: 32° 13' 10.44687 N
Longitude: 104° 7' 2.89167 W
Grid Convergence: 0.12 °

Well #1

Well Position +N/-S 0.00 usft **Northing:** 443,680.00 usft **Latitude:** 32° 13' 10.44687 N
 +E/-W 0.00 usft **Easting:** 608,092.70 usft **Longitude:** 104° 7' 2.89167 W
Position Uncertainty 0.00 usft **Wellhead Elevation:** 0.00 usft **Ground Level:** 3,068.00 usft

Wellbore OH / Job #62172

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/19/2017	7.27	60.02	48,051.80000000

Design Surveys (UDI 50)

Audit Notes:

Version: 1.0 **Phase:** ACTUAL **Tie On Depth:** 0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	0.00

Survey Program Date 2/20/2018

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
694.00	14,765.00	Phoenix MWD Surveys (OH / Job #62172)	MWD+HDGM	OWSG Rev.2 MWD + HDGM

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)
503.00	1.53	254.23	502.95	-2.04	-5.64	-2.04	0.00	0.00	0.00
Tie In									
694.00	1.74	241.17	693.87	-4.13	-10.63	-4.13	0.22	0.11	-6.84
First Phoenix MWD Survey									
788.00	1.78	225.23	787.83	-5.85	-12.92	-5.85	0.52	0.04	-16.96
883.00	1.71	224.53	882.78	-7.90	-14.96	-7.90	0.08	-0.07	-0.74
977.00	1.60	226.49	976.75	-9.80	-16.90	-9.80	0.13	-0.12	2.09
1,072.00	1.60	233.10	1,071.71	-11.51	-18.92	-11.51	0.19	0.00	6.96
1,166.00	1.19	228.77	1,165.68	-12.94	-20.70	-12.94	0.45	-0.44	-4.61
1,261.00	0.84	233.95	1,260.67	-14.00	-22.01	-14.00	0.38	-0.37	5.45



Survey Report

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Site: Fikes SWD
Well: #1
Wellbore: OH / Job #62172
Design: Surveys (UDI 50)

Local Co-ordinate Reference: Well #1
TVD Reference: RKB @ 3096.00usft (UDI 50)
MD Reference: RKB @ 3096.00usft (UDI 50)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

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)
1,355.00	0.60	263.90	1,354.66	-14.46	-23.06	-14.46	0.47	-0.26	31.86
1,449.00	0.55	275.53	1,448.65	-14.47	-23.99	-14.47	0.13	-0.05	12.37
1,544.00	0.75	293.90	1,543.65	-14.17	-25.02	-14.17	0.30	0.21	19.34
1,639.00	0.79	304.38	1,638.64	-13.55	-26.12	-13.55	0.15	0.04	11.03
1,734.00	0.30	346.39	1,733.63	-12.94	-26.72	-12.94	0.63	-0.52	44.22
1,829.00	1.23	88.39	1,828.63	-12.67	-25.76	-12.67	1.40	0.98	107.37
1,924.00	2.10	90.62	1,923.59	-12.66	-23.00	-12.66	0.92	0.92	2.35
2,018.00	2.28	97.15	2,017.52	-12.91	-19.43	-12.91	0.33	0.19	6.95
2,112.00	3.45	103.51	2,111.40	-13.80	-14.82	-13.80	1.29	1.24	6.77
2,207.00	4.24	104.25	2,206.18	-15.34	-8.64	-15.34	0.83	0.83	0.78
2,302.00	4.73	106.38	2,300.89	-17.30	-1.48	-17.30	0.54	0.52	2.24
2,396.00	4.34	115.49	2,394.60	-19.93	5.45	-19.93	0.87	-0.41	9.69
2,491.00	4.68	132.84	2,489.31	-24.11	11.54	-24.11	1.47	0.36	18.26
2,585.00	4.66	141.91	2,583.00	-29.72	16.71	-29.72	0.79	-0.02	9.65
2,680.00	4.30	137.13	2,677.71	-35.37	21.51	-35.37	0.55	-0.38	-5.03
2,774.00	4.17	136.36	2,771.45	-40.43	26.27	-40.43	0.15	-0.14	-0.82
2,869.00	3.56	136.05	2,866.24	-45.05	30.70	-45.05	0.64	-0.64	-0.33
2,964.00	3.31	135.11	2,961.07	-49.12	34.68	-49.12	0.27	-0.26	-0.99
3,058.00	3.08	134.21	3,054.92	-52.80	38.41	-52.80	0.25	-0.24	-0.96
3,153.00	2.75	132.13	3,149.80	-56.11	41.93	-56.11	0.36	-0.35	-2.19
3,247.00	2.29	135.17	3,243.71	-58.95	44.92	-58.95	0.51	-0.49	3.23
3,342.00	1.88	136.62	3,338.64	-61.43	47.33	-61.43	0.44	-0.43	1.53
3,436.00	1.68	138.97	3,432.60	-63.59	49.29	-63.59	0.23	-0.21	2.50
3,531.00	1.43	134.77	3,527.56	-65.48	51.05	-65.48	0.29	-0.26	-4.42
3,625.00	1.35	136.69	3,621.53	-67.11	52.64	-67.11	0.10	-0.09	2.04
3,719.00	1.33	135.72	3,715.51	-68.70	54.16	-68.70	0.03	-0.02	-1.03
3,814.00	1.74	136.79	3,810.47	-70.54	55.92	-70.54	0.43	0.43	1.13
3,909.00	1.64	135.23	3,905.43	-72.55	57.87	-72.55	0.12	-0.11	-1.64
4,003.00	1.52	157.30	3,999.40	-74.66	59.29	-74.66	0.66	-0.13	23.48
4,098.00	1.32	167.86	4,094.37	-76.89	60.01	-76.89	0.35	-0.21	11.12
4,192.00	1.15	161.93	4,188.35	-78.85	60.53	-78.85	0.23	-0.18	-6.31
4,287.00	1.08	175.20	4,283.33	-80.64	60.90	-80.64	0.28	-0.07	13.97
4,384.00	0.93	174.47	4,380.31	-82.34	61.05	-82.34	0.16	-0.15	-0.75
4,478.00	0.98	186.95	4,474.30	-83.90	61.03	-83.90	0.23	0.05	13.28
4,572.00	1.04	174.15	4,568.29	-85.54	61.02	-85.54	0.25	0.06	-13.62
4,667.00	0.34	210.71	4,663.28	-86.64	60.96	-86.64	0.83	-0.74	38.48
4,762.00	0.23	271.06	4,758.28	-86.88	60.63	-86.88	0.32	-0.12	63.53
4,857.00	0.20	242.40	4,853.28	-86.95	60.29	-86.95	0.12	-0.03	-30.17
4,952.00	0.31	253.58	4,948.28	-87.10	59.90	-87.10	0.13	0.12	11.77
5,047.00	0.34	206.87	5,043.28	-87.43	59.52	-87.43	0.27	0.03	-49.17
5,141.00	0.53	222.78	5,137.27	-88.00	59.10	-88.00	0.24	0.20	16.93
5,236.00	0.50	229.30	5,232.27	-88.59	58.49	-88.59	0.07	-0.03	6.86
5,330.00	0.86	242.74	5,326.26	-89.18	57.55	-89.18	0.42	0.38	14.30



Survey Report

Company: Delaware Energy, LLC
Project: Eddy County, NM (NAD83)
Site: Fikes SWD
Well: #1
Wellbore: OH / Job #62172
Design: Surveys (UDI 50)

Local Co-ordinate Reference: Well #1
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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,425.00	0.99	240.64	5,421.25	-89.91	56.20	-89.91	0.14	0.14	-2.21
5,519.00	0.99	238.46	5,515.24	-90.73	54.80	-90.73	0.04	0.00	-2.32
5,614.00	1.16	229.00	5,610.22	-91.79	53.38	-91.79	0.26	0.18	-9.96
5,708.00	1.03	210.25	5,704.20	-93.14	52.23	-93.14	0.40	-0.14	-19.95
5,803.00	1.10	205.20	5,799.19	-94.71	51.42	-94.71	0.12	0.07	-5.32
5,897.00	1.45	203.39	5,893.16	-96.62	50.56	-96.62	0.37	0.37	-1.93
5,992.00	1.20	204.80	5,988.14	-98.62	49.66	-98.62	0.27	-0.26	1.48
6,086.00	1.77	207.86	6,082.11	-100.80	48.57	-100.80	0.61	0.61	3.26
6,181.00	2.02	206.50	6,177.05	-103.59	47.14	-103.59	0.27	0.26	-1.43
6,275.00	1.99	221.24	6,271.00	-106.30	45.33	-106.30	0.55	-0.03	15.68
6,370.00	2.29	234.22	6,365.93	-108.65	42.70	-108.65	0.60	0.32	13.66
6,465.00	3.35	245.97	6,460.81	-110.89	38.62	-110.89	1.27	1.12	12.37
6,559.00	3.96	255.76	6,554.62	-112.81	32.97	-112.81	0.93	0.65	10.41
6,654.00	4.64	257.27	6,649.36	-114.46	26.04	-114.46	0.73	0.72	1.59
6,748.00	3.78	257.88	6,743.10	-115.95	19.30	-115.95	0.92	-0.91	0.65
6,843.00	2.96	278.89	6,837.94	-116.23	13.82	-116.23	1.55	-0.86	22.12
6,937.00	3.76	316.72	6,931.79	-113.61	9.31	-113.61	2.45	0.85	40.24
7,032.00	5.56	332.77	7,026.48	-107.25	5.06	-107.25	2.32	1.89	16.89
7,126.00	7.35	334.07	7,119.88	-97.79	0.35	-97.79	1.91	1.90	1.38
7,221.00	8.73	331.40	7,213.94	-86.00	-5.76	-86.00	1.50	1.45	-2.81
7,311.00	9.07	330.79	7,302.86	-73.81	-12.49	-73.81	0.39	0.38	-0.68
7,405.00	6.50	331.20	7,395.98	-62.68	-18.67	-62.68	2.73	-2.73	0.44
7,499.00	4.93	333.51	7,489.51	-54.40	-23.03	-54.40	1.69	-1.67	2.46
7,594.00	4.63	318.29	7,584.19	-47.89	-27.41	-47.89	1.37	-0.32	-16.02
7,689.00	4.80	310.19	7,678.86	-42.46	-32.99	-42.46	0.72	0.18	-8.53
7,783.00	4.48	304.33	7,772.56	-37.85	-39.03	-37.85	0.61	-0.34	-6.23
7,878.00	4.73	302.97	7,867.25	-33.63	-45.38	-33.63	0.29	0.26	-1.43
7,973.00	4.64	304.99	7,961.93	-29.29	-51.81	-29.29	0.20	-0.09	2.13
8,067.00	3.25	318.13	8,055.71	-25.13	-56.71	-25.13	1.75	-1.48	13.98
8,161.00	2.91	324.11	8,149.57	-21.21	-59.88	-21.21	0.50	-0.36	6.36
8,256.00	3.22	337.54	8,244.44	-16.79	-62.32	-16.79	0.82	0.33	14.14
8,350.00	3.07	337.82	8,338.30	-12.02	-64.28	-12.02	0.16	-0.16	0.30
8,445.00	2.30	344.00	8,433.19	-7.83	-65.76	-7.83	0.86	-0.81	6.51
8,539.00	1.74	352.43	8,527.13	-4.60	-66.47	-4.60	0.67	-0.60	8.97
8,634.00	1.49	9.75	8,622.10	-1.96	-66.45	-1.96	0.57	-0.26	18.23
8,728.00	1.04	12.99	8,716.07	0.08	-66.05	0.08	0.48	-0.48	3.45
8,823.00	0.41	32.54	8,811.07	1.21	-65.68	1.21	0.70	-0.66	20.58
8,917.00	0.92	137.98	8,905.06	0.93	-64.99	0.93	1.17	0.54	112.17
9,012.00	1.57	128.81	9,000.04	-0.45	-63.47	-0.45	0.71	0.68	-9.65
9,107.00	2.03	138.17	9,094.99	-2.52	-61.33	-2.52	0.57	0.48	9.85
9,202.00	2.41	148.80	9,189.92	-5.48	-59.17	-5.48	0.59	0.40	11.19
9,296.00	2.46	149.06	9,283.84	-8.90	-57.11	-8.90	0.05	0.05	0.28
9,391.00	2.34	153.22	9,378.75	-12.38	-55.19	-12.38	0.22	-0.13	4.38
9,454.00	2.34	148.36	9,441.70	-14.63	-53.93	-14.63	0.31	0.00	-7.71



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Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,582.00	1.60	71.10	9,569.64	-16.27	-50.87	-16.27	1.97	-0.58	-60.36
9,676.00	1.67	153.64	9,663.62	-17.08	-49.02	-17.08	2.30	0.07	87.81
9,771.00	1.43	155.63	9,758.58	-19.40	-47.92	-19.40	0.26	-0.25	2.09
9,865.00	1.14	157.47	9,852.56	-21.33	-47.08	-21.33	0.31	-0.31	1.96
9,960.00	0.84	176.63	9,947.54	-22.90	-46.67	-22.90	0.47	-0.32	20.17
10,055.00	0.60	203.00	10,042.54	-24.05	-46.83	-24.05	0.42	-0.25	27.76
10,150.00	0.65	202.95	10,137.53	-25.00	-47.23	-25.00	0.05	0.05	-0.05
10,244.00	0.79	213.53	10,231.52	-26.04	-47.80	-26.04	0.20	0.15	11.26
10,339.00	0.76	227.22	10,326.51	-27.01	-48.62	-27.01	0.20	-0.03	14.41
10,433.00	0.90	232.84	10,420.50	-27.88	-49.67	-27.88	0.17	0.15	5.98
10,528.00	1.15	250.63	10,515.49	-28.65	-51.16	-28.65	0.42	0.26	18.73
10,623.00	1.35	255.37	10,610.47	-29.24	-53.14	-29.24	0.24	0.21	4.99
10,717.00	1.10	263.74	10,704.44	-29.62	-55.11	-29.62	0.33	-0.27	8.90
10,812.00	1.02	267.58	10,799.43	-29.76	-56.86	-29.76	0.11	-0.08	4.04
10,907.00	1.10	271.02	10,894.41	-29.78	-58.62	-29.78	0.11	0.08	3.62
11,001.00	1.07	280.59	10,988.40	-29.60	-60.38	-29.60	0.20	-0.03	10.18
11,096.00	0.88	277.20	11,083.38	-29.34	-61.98	-29.34	0.21	-0.20	-3.57
11,192.00	0.75	286.07	11,179.37	-29.08	-63.32	-29.08	0.19	-0.14	9.24
11,286.00	0.70	303.63	11,273.36	-28.59	-64.38	-28.59	0.24	-0.05	18.68
11,381.00	0.87	308.26	11,368.36	-27.82	-65.43	-27.82	0.19	0.18	4.87
11,475.00	0.88	303.93	11,462.34	-26.98	-66.59	-26.98	0.07	0.01	-4.61
11,570.00	0.83	312.71	11,557.33	-26.10	-67.70	-26.10	0.15	-0.05	9.24
11,664.00	0.89	302.71	11,651.32	-25.25	-68.82	-25.25	0.17	0.06	-10.64
11,759.00	1.12	316.06	11,746.31	-24.18	-70.08	-24.18	0.34	0.24	14.05
11,853.00	1.27	324.98	11,840.29	-22.67	-71.32	-22.67	0.25	0.16	9.49
11,948.00	1.54	327.60	11,935.26	-20.73	-72.61	-20.73	0.29	0.28	2.76
12,042.00	1.39	332.67	12,029.23	-18.65	-73.81	-18.65	0.21	-0.16	5.39
12,137.00	1.66	332.24	12,124.20	-16.40	-74.98	-16.40	0.28	0.28	-0.45
12,232.00	2.81	336.13	12,219.12	-13.06	-76.56	-13.06	1.22	1.21	4.09
12,327.00	2.86	334.99	12,314.01	-8.78	-78.51	-8.78	0.08	0.05	-1.20
12,422.00	1.20	347.00	12,408.94	-5.66	-79.73	-5.66	1.79	-1.75	12.64
12,517.00	1.07	338.22	12,503.92	-3.87	-80.28	-3.87	0.23	-0.14	-9.24
12,610.00	1.80	326.70	12,596.89	-1.84	-81.41	-1.84	0.84	0.78	-12.39
12,705.00	1.57	331.05	12,691.85	0.54	-82.86	0.54	0.28	-0.24	4.58
12,800.00	1.74	325.38	12,786.81	2.87	-84.31	2.87	0.25	0.18	-5.97
12,895.00	1.53	331.77	12,881.78	5.17	-85.73	5.17	0.29	-0.22	6.73
12,990.00	1.60	338.54	12,976.74	7.52	-86.81	7.52	0.21	0.07	7.13
13,084.00	1.80	341.58	13,070.70	10.15	-87.76	10.15	0.23	0.21	3.23
13,179.00	2.23	348.48	13,165.64	13.37	-88.60	13.37	0.52	0.45	7.26
13,274.00	2.61	344.37	13,260.56	17.27	-89.55	17.27	0.44	0.40	-4.33
13,368.00	2.66	350.87	13,354.46	21.48	-90.47	21.48	0.32	0.05	6.91
13,463.00	2.55	345.37	13,449.36	25.70	-91.36	25.70	0.29	-0.12	-5.79
13,558.00	2.63	347.66	13,544.26	29.88	-92.36	29.88	0.14	0.08	2.41



Survey Report

Company: Delaware Energy, LLC
Project: Eddy County, NM (NAD83)
Site: Fikes SWD
Well: #1
Wellbore: OH / Job #62172
Design: Surveys (UDI 50)

Local Co-ordinate Reference: Well #1
TVD Reference: RKB @ 3096.00usft (UDI 50)
MD Reference: RKB @ 3096.00usft (UDI 50)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: USA Compass

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)
13,652.00	2.81	345.80	13,638.15	34.22	-93.38	34.22	0.21	0.19	-1.98
13,695.00	2.82	349.70	13,681.10	36.28	-93.83	36.28	0.45	0.02	9.07
13,827.00	3.46	353.22	13,812.90	43.43	-94.88	43.43	0.51	0.48	2.67
13,920.00	3.16	344.99	13,905.75	48.69	-95.88	48.69	0.60	-0.32	-8.85
14,013.00	2.50	6.78	13,998.64	53.18	-96.30	53.18	1.34	-0.71	23.43
14,107.00	2.31	6.44	14,092.56	57.10	-95.85	57.10	0.20	-0.20	-0.36
14,202.00	2.78	1.48	14,187.46	61.31	-95.57	61.31	0.55	0.49	-5.22
14,296.00	2.44	6.41	14,281.36	65.57	-95.29	65.57	0.43	-0.36	5.24
14,390.00	3.18	10.23	14,375.25	70.13	-94.60	70.13	0.81	0.79	4.06
14,484.00	2.10	23.30	14,469.15	74.28	-93.46	74.28	1.31	-1.15	13.90
14,578.00	1.84	43.63	14,563.10	76.95	-91.74	76.95	0.79	-0.28	21.63
14,672.00	2.12	50.19	14,657.04	79.16	-89.36	79.16	0.38	0.30	6.98
14,706.00	2.30	51.19	14,691.01	79.99	-88.34	79.99	0.54	0.53	2.94
Final Phoenix MWD Survey									
14,765.00	2.30	51.19	14,749.97	81.47	-86.50	81.47	0.00	0.00	0.00
Projection to TD									

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
503.00	502.95	-2.04	-5.64	Tie In
694.00	693.87	-4.13	-10.63	First Phoenix MWD Survey
14,706.00	14,691.01	79.99	-88.34	Final Phoenix MWD Survey
14,765.00	14,749.97	81.47	-86.50	Projection to TD

DISTRICT I
1085 N. French Dr., Hobbs, NM 88240
Phone (505) 285-8161 Fax (505) 285-8778

DISTRICT II
511 S. First St., Artesia, NM 88210
Phone (505) 745-1200 Fax (505) 745-0728

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 854-6178 Fax (505) 854-6178

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 475-5455 Fax (505) 475-5455

NM OIL CONSERVATION
ARTESIA DISTRICT Form C-102
State of New Mexico
Energy, Minerals and Natural Resources Department
NOV 21 2017
Revised August 1, 2011
Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-44419		Pool Code 96101	Pool Name Devonian; SWD
Property Code	Property Name FIKES SWD		Well Number 1
OGRID No. 371195	Operator Name DELAWARE ENERGY		Elevation 3068'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	17	24 S	28 E		2033	NORTH	252	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
Dedicated Acres	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

	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>[Signature]</i> 11/21/17 Signature Date JASON GROSS Printed Name J. GROSS@delawareenergy.com Email 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. NOVEMBER 20 2017 Date Surveyed Signature of Professional Surveyor <i>[Signature]</i> Professional Surveyor 7977 Certification Number 7977 BASIC SURVEY
	0' 1000' 2000' 3000' 4000' SCALE: 1" = 2000' WO Num.: 33418