



**PHOENIX
TECHNOLOGY SERVICES**

March 15, 2018

Delaware Energy
Attention: Regulatory Department
405 North Marienfeld St. 250
Midland, TX 79705

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

RECEIVED

MAY 09 2018

DISTRICT II-ARTESIA O.C.D.

Dear Regulatory Department;

Phoenix Technology Services, Inc. has filed the Survey Data Certification, Surveys, and Lease Plat for the above referenced well with the State of New Mexico Oil Conservation Division – District 2 via certified mail. A copy of the filing is attached for your records.

Name 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

Thank you for the opportunity to be of service. Please contact me if you have any questions or require additional information.

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

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
Geo Datum: North American Datum 1983
Map Zone: New Mexico Eastern Zone

System Datum: Mean Sea Level

Site Fikes SWD

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

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)
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
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)	Built 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



Survey Report

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Wellbore: OH / Job #62172
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Local Co-ordinate Reference: Well #1
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MD Reference: RKB @ 3096.00usft (UDI 50)
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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)
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)	+N-S (usft)	+E-W (usft)	Comment
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

1625 N. French Dr., Hobbs, NM 88240
Phone (505) 288-0161 Fax (505) 288-0750

DISTRICT II

811 S. First St., Artesia, NM 88210
Phone (505) 748-1250 Fax (505) 748-0720

DISTRICT III

1908 Rio Grande Rd., Aztec, NM 87410
Phone (505) 344-6170 Fax (505) 344-6170

DISTRICT IV

1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-5650 Fax (505) 476-5650

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
OGRIID 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

N: 446701.8 E: 607852.7 (NAD83) 2033' 252' N: 443042.9 E: 607841.9 (NAD83) N: 440400.3 E: 607847.3 (NAD83) N: 449422.0 E: 613117.9 (NAD83) SURFACE LOCATION Lot - N 32.219389' Long - W 104.117476' NADSPCE - N 443880.0 E 608092.7 (NAD-83) 3068.7' - 3063.7' 3073.0' - 3066.5'	N: 445784.4 E: 619126.0 (NAD83) 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 state. <i>[Signature]</i> 11/21/17 Signature Date Jason Goss Printed Name J. Goss@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> Certification Number 7977 Professional Surveyor Scale: 1" = 2000' WO Num: 33418
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