



PHOENIX
TECHNOLOGY SERVICES

January 9, 2018

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

OIL CONSERVATION
ARTESIA DISTRICT
JAN 16 2018

Dear District 2 - Artesia

RECEIVED

Re: Delaware Energy
Fikes SWD 1
Eddy Co., New Mexico
API #30-015-44419
Job No. 62152

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. 606018). Other information required by your office is as follows:

Name & Title of Surveyor	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Andy Askew	1	0	503	12/21/17	12/21/17	Gyro

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

JAN 16 2018

SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964



PHOENIX
TECHNOLOGY SERVICES

Company: Delaware Energy

Job #: 62152

Well Name: Fikes SWD 1

County/State: Eddy/ NM

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-44419

TIE-IN DATA

Vertical ID: 1011987	Vertical ID: 1011987	Vertical ID: 1011987	Vertical ID: 1011987	Vertical ID: 1011987	Vertical ID: 1011987	Surface
0	0	0	0	0	0	

First Survey

Date	Vertical ID: 1011987	Vertical ID: 1011987	Vertical ID: 1011987
2017-12-21	0	0	0

Last Survey

Date	Vertical ID: 1011987	Vertical ID: 1011987	Vertical ID: 1011987
2017-12-21	503	1.53	254.23

Projected TD Survey

Date	Vertical ID: 1011987	Vertical ID: 1011987	Vertical ID: 1011987
0	0	0	0

Vertical ID: 1011987
-0.11

Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date:

12-21-17

Print Name: Andy Askew

Signature:

Andy Askew



PHOENIX
TECHNOLOGY SERVICES

Company: Delaware Energy
Well: Fikes SWD 1
Location: Eddy Co, NM
Rig: United 50

Job Number: 62152
Grid Corr.: -0.11
Lat: 32.21
Long: -104.11

Date: 12-21-17
Calculation Method: Minimum Curvature
Proposed Azimuth: 28
RKB - MSL in feet: 28
Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
Enter Tie-In Survey on Line 10													
FIELD COPY, NON-DEFINITIVE													
TIE IN	0			0	0	0	0						
Gyro	100.00	0.29	233.08	100	100.00	-0.15	0.15 S	0.20 W	0.25	233.08	0.29	0.29	233.08
	200.00	0.41	247.36	100	200.00	-0.44	0.44 S	0.73 W	0.86	238.99	0.15	0.12	14.28
	300.00	0.70	255.17	100	299.99	-0.74	0.74 S	1.66 W	1.81	246.04	0.30	0.29	7.81
	400.00	1.25	249.40	100	399.98	-1.28	1.28 S	3.27 W	3.51	248.67	0.56	0.55	-5.77
	503.00	1.53	254.23	103	502.95	-2.04	2.04 S	5.64 W	6.00	250.08	0.29	0.27	4.69

DISTRICT I
1905 N. French Dr., Hobbs, NM 88240
Phone (505) 526-8161 Fax: (505) 526-8700

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1208 Fax: (505) 748-8728

DISTRICT III
1000 Rio Grande Rd., Artec, NM 87410
Phone (505) 834-6170 Fax: (505) 324-8170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87506
Phone (505) 478-5400 Fax: (505) 478-5405

State of New Mexico
Energy, Minerals and 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-44419	Pool Code 96101	Pool Name SWD; Devonian
Property Code 319508	Property Name FIKES SWD	Well Number 1
OGRID No. 371195	Operator Name DELAWARE ENERGY	Elevation 3082'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	18	24 S	28 E		2325	NORTH	325	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

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: 445446.2 E: 802510.7 (NAD83) N: 445934.0 E: 807841.6 (NAD83) FIKES SWD #1 ELEV. - 3082' Lat - N 32.218728° Long - W 104.119339° NMSPC - N 443573.1 E 807815.2 (NAD-83)	N: 445751.8 E: 807830.7 (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 division. Signature <i>[Signature]</i> Date 7/17/12 Mike McCurdy Printed Name Email Address m.mccurdy@delawareenergy.com 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. Date Surveyed July 13, 2012 Signature <i>[Signature]</i> Professional Surveyor 7977 Certified 7977 DAN COOPER 0' 1000' 2000' 3000' 4000' SCALE: 1" = 2000' WO Num.: 33124
--	--