



PHOENIX
TECHNOLOGY SERVICES

NM OIL CONSERVATION

ARTESIA DISTRICT

FEB 20 2018

RECEIVED

February 12, 2018

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

Dear District 2 - Artesia

Re: Delaware Energy
Iceman State SWD 1
Eddy Co., New Mexico
API #30-015-44265
Job No. 62333

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	500	2/11/18	2/11/18	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

SURVEY CERTIFICATION FORM

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



Company: Delaware Energy

Job #: 62333

Well Name: Iceman State SWD 1

County/State: Eddy/ NM

Survey Instrument Type: North Seek Rate Gyro

API # 30-015-44265

TIE-IN DATA

0	0	0	0	0	0	Surface
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First Survey

2018-02-11	0	0	0
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Last Survey

2018-02-11	500	1.16	26
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Projected TD Survey

0	0	0	0	-0.06
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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:

2-11-18

Print Name: Andy Askew

Signature:

Andy Askew



PHOENIX
TECHNOLOGY SERVICES

Company: Delaware Energy
Well: Iceman State SWD 1
Location: Eddy Co., NM
Rig: UDI 50

Job Number: 62333
Grid Corr.: -0.06
Lat: 32.29
Long: -104.21

Date: 02-11-18
Calculation Method: Minimum Curvature
Proposed Azimuth: 26
RKB - MSL in feet: Surface
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													
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.36	77.90	100	100.00	0.07	0.07 N	0.31 E	0.31	77.90	0.36	0.36	77.90
	200.00	0.42	23.32	100	200.00	0.47	0.47 N	0.76 E	0.89	58.34	0.36	0.06	-54.58
	300.00	0.99	57.74	100	299.99	1.27	1.27 N	1.64 E	2.07	52.25	0.69	0.57	34.42
	400.00	1.43	31.74	100	399.97	2.79	2.79 N	3.02 E	4.11	47.30	0.69	0.44	-26.00
	500.00	1.16	26.00	100	499.94	4.76	4.76 N	4.12 E	6.30	40.90	0.30	-0.27	-5.74

DISTRICT I
1685 N. French Dr., Hobbs, NM 88240
Phone (505) 288-8181 Fax (505) 288-8770

DISTRICT II
511 S. First St., Artesia, NM 88210
Phone (505) 748-1288 Fax (505) 748-8788

DISTRICT III
1000 Rio Grande Rd., Aztec, NM 87410
Phone (505) 354-6178 Fax (505) 354-6179

DISTRICT IV
1820 S. St. Francis Dr., Santa Fe, NM 87506
Phone (505) 478-8480 Fax (505) 478-3482

State of New Mexico
Energy, Minerals and Natural Resources Department

NM OIL CONSERVATION
ARTESIA DISTRICT
Form C-102
Revised August 1, 2011

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

FEB 20 2011
Submit this copy to appropriate District Office

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-44265		Pool Code	Pool Name
Property Code 318048	Property Name ICEMAN STATE		Well Number 1
OGRID No. 371195	Operator Name DELAWARE ENERGY		Elevation 3183'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	17	23 S	27 E		660	SOUTH	660	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

<p>N: 477308.4 E: 578148.3 (NAD83)</p>	<p>N: 477325.1 E: 581421.0 (NAD83)</p>	<p align="center">OPERATOR CERTIFICATION</p> <p>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.</p> <p align="right"><i>[Signature]</i> 6/6/2012 Date</p> <p>Mike McCurdy Printed Name</p> <p>mccurdy@delawareenergyllc.com Email Address</p>	
		<p align="center">SURVEYOR CERTIFICATION</p> <p>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.</p> <p align="right">Date Surveyed: May 1, 2012 Signature of Professional Surveyor: <i>[Signature]</i> Professional Surveyor: 7977</p> <p align="right">Certificate No. GOV L 10085 7977 DRAIN SURVEYS</p>	
		<p align="center"> 3183.1' 3182.9' O.S.L. </p>	
		<p align="center">SURFACE LOCATION Lat - N 32.299430° Long - W 104.218554° NMSPCE- N 472882.2 E 578804.5 (NAD-83)</p>	
<p>N: 472023.4 E: 578144.0 (NAD83)</p>	<p>N: 472014.7 E: 581435.0 (NAD83)</p>	<p align="center"> SCALE: 1" = 2000' WO Num.: 32895 </p>	