



PHOENIX
TECHNOLOGY SERVICES

November 13, 2017

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

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 16 2017

Dear District 2 - Artesia

RECEIVED

Attention: Regulatory Department

Re: Delaware Energy
Gomez SWD 1
Eddy County, NM
API #30-015-44262
Job No. 61717

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	
Jose Mezzano	1	443	14,947	9/5/17	10/16/17	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

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 61717

ENERGY COMPANY Delaware Energy

WELL NAME Gomez SWD 1

COUNTY & STATE

Eddy County, NM

API WELL NUMBER 30-015-44262

PROPOSED DIRECTION 0.00

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
.00 ft	.00 ft	0.00	0.00	.00 ft	.00 ft	Surface

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
5-Sep-17	443.00 ft	7.36	133.47

SURVEY INSTRUMENT
TYPE
Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
16-Oct-17	14,947.00 ft	2.60	298.55

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

PROJECTED	PROJECTED		
TD SURVEY	TD SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
16-Oct-17	15,000.00 ft	2.60	298.55

Jose Mezzano

PRINT YOUR NAME ABOVE

Jose Mezzano

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.15
DECLINATION OR GRID	GRID

16-Oct-17

TODAY'S DATE

MWD SUPERVISOR 1

Blake Harding

DIRECTIONAL DRILLER 1

Grant Webley

MWD SUPERVISOR 2

David Hayden

DIRECTIONAL DRILLER 2

Jason Whitson

12329 Cutten Rd., Houston, Texas 777066

(713)337-0600 (Voice), (713)337-0599 (Fax)

Delaware Energy, LLC

Eddy County, NM (NAD83)

Gomez SWD

1

OH / Job #61717

Survey: Phoenix MWD Surveys

Standard Survey Report

13 November, 2017



Phoenix Technology Services LP

Survey Report



Company: Delaware Energy, LLC
Project: Eddy County, NM (NAD83)
Site: Gomez SWD
Well: 1
Wellbore: OH / Job #61717
Design: Surveys (Patriot 2)

Local Co-ordinate Reference: Well 1
TVD Reference: RKB @ 3044.00usft (Patriot 2)
MD Reference: RKB @ 3044.00usft (Patriot 2)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

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 Gomez SWD

Site Position:
From: Map
Position Uncertainty: 0.00 usft
Northing: 446,506.40 usft
Easting: 616,877.20 usft
Slot Radius: 13-3/16 "
Latitude: 32° 13' 38.23075 N
Longitude: 104° 5' 20.55580 W
Grid Convergence: 0.13 °

Well 1

Well Position +N/-S 0.00 usft **Northing:** 446,506.40 usft **Latitude:** 32° 13' 38.23075 N
 +E/-W 0.00 usft **Easting:** 616,877.20 usft **Longitude:** 104° 5' 20.55580 W
Position Uncertainty 0.00 usft **Wellhead Elevation:** 0.00 usft **Ground Level:** 3,024.00 usft

Wellbore OH / Job #61717

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	9/1/2017	7.28	60.07	48,086

Design Surveys (Patriot 2)

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 11/13/2017

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
443.00	15,000.00	Phoenix MWD Surveys (OH / Job #61717)	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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
443.00	7.36	133.47	441.78	-19.55	20.62	-19.55	1.66	1.66	0.00
First Phoenix MWD Survey									
533.00	5.07	140.25	531.25	-26.57	27.35	-26.57	2.67	-2.54	7.53
623.00	1.83	132.87	621.07	-30.61	30.95	-30.61	3.63	-3.60	-8.20
714.00	0.73	344.75	712.06	-31.04	31.86	-31.04	2.73	-1.21	-162.77
806.00	1.39	330.06	804.05	-29.51	31.15	-29.51	0.77	0.72	-15.97
1,258.00	0.09	166.58	1,256.00	-25.10	28.49	-25.10	0.33	-0.29	-36.17
1,722.00	0.68	270.09	1,719.99	-25.45	25.82	-25.45	0.15	0.13	22.31
2,130.00	2.58	98.73	2,127.88	-26.84	32.48	-26.84	0.80	0.47	-42.00
2,224.00	4.37	105.55	2,221.71	-28.12	38.02	-28.12	1.95	1.90	7.25

Phoenix Technology Services LP

Survey Report



Company: Delaware Energy, LLC
Project: Eddy County, NM (NAD83)
Site: Gomez SWD
Well: 1
Wellbore: OH / Job #61717
Design: Surveys (Patriot 2)

Local Co-ordinate Reference: Well 1
TVD Reference: RKB @ 3044.00usft (Patriot 2)
MD Reference: RKB @ 3044.00usft (Patriot 2)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: Compass 5000 GCR

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)
2,319.00	4.70	108.58	2,316.41	-30.33	45.20	-30.33	0.43	0.35	3.19
2,804.00	0.30	71.00	2,800.83	-36.25	65.24	-36.25	0.92	-0.91	-7.75
3,277.00	0.42	51.82	3,273.83	-34.78	67.78	-34.78	0.04	0.03	-4.05
3,482.00	0.22	54.00	3,478.82	-34.08	68.69	-34.08	0.10	-0.10	1.06
3,843.00	0.14	45.98	3,839.82	-33.37	69.57	-33.37	0.02	-0.02	-2.22
3,969.00	0.34	33.79	3,965.82	-32.95	69.88	-32.95	0.16	0.16	-9.67
4,410.00	0.14	65.92	4,406.81	-31.64	71.10	-31.64	0.05	-0.05	7.29
4,882.00	0.23	218.75	4,878.81	-32.15	71.04	-32.15	0.08	0.02	32.38
5,355.00	0.34	214.64	5,351.81	-34.04	69.64	-34.04	0.02	0.02	-0.87
5,828.00	0.51	246.44	5,824.80	-36.04	66.92	-36.04	0.06	0.04	6.72
6,301.00	1.11	212.91	6,297.75	-40.73	62.50	-40.73	0.16	0.13	-7.09
6,773.00	1.40	233.87	6,769.64	-47.96	55.36	-47.96	0.11	0.06	4.44
7,247.00	1.43	216.84	7,243.49	-56.11	47.13	-56.11	0.09	0.01	-3.59
7,714.00	2.20	211.80	7,710.26	-68.39	38.92	-68.39	0.17	0.16	-1.08
8,187.00	1.44	266.94	8,183.05	-76.43	28.20	-76.43	0.38	-0.16	11.66
8,661.00	1.38	234.02	8,656.91	-80.10	17.63	-80.10	0.17	-0.01	-6.95
9,133.00	1.45	146.98	9,128.81	-88.45	16.29	-88.45	0.41	0.01	-18.44
9,605.00	0.86	164.65	9,600.72	-96.87	20.48	-96.87	0.14	-0.13	3.74
10,079.00	1.24	281.14	10,074.67	-99.31	16.39	-99.31	0.38	0.08	24.58
10,552.00	2.08	343.76	10,547.50	-90.08	8.96	-90.08	0.40	0.18	13.24
11,024.00	1.38	359.06	11,019.29	-76.17	6.48	-76.17	0.18	-0.15	3.24
11,498.00	1.43	21.78	11,493.15	-64.97	8.58	-64.97	0.12	0.01	4.79
11,971.00	2.06	30.05	11,965.93	-52.13	15.02	-52.13	0.14	0.13	1.75
12,443.00	2.93	33.45	12,437.48	-34.72	25.92	-34.72	0.19	0.18	0.72
12,914.00	3.49	40.01	12,907.74	-13.70	41.77	-13.70	0.14	0.12	1.39
13,387.00	2.78	68.54	13,380.05	1.53	61.71	1.53	0.36	-0.15	6.03
13,858.00	4.00	36.33	13,850.26	18.94	82.07	18.94	0.47	0.26	-6.84
14,265.00	3.76	21.63	14,256.34	42.78	95.40	42.78	0.25	-0.06	-3.61
14,642.00	2.32	322.53	14,632.88	60.33	95.32	60.33	0.86	-0.38	-15.68
14,893.00	2.56	298.93	14,883.66	67.08	87.32	67.08	0.41	0.10	-9.40
14,947.00	2.60	298.55	14,937.60	68.25	85.19	68.25	0.08	0.07	-0.70
Final Phoenix MWD Survey									
15,000.00	2.60	298.55	14,990.55	69.40	83.08	69.40	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)	
443.00	441.78	-19.55	20.62	First Phoenix MWD Survey
14,947.00	14,937.60	68.25	85.19	Final Phoenix MWD Survey
15,000.00	14,990.55	69.40	83.08	Projection to TD

NM OIL CONSERVATION
ARTESIA DISTRICT

NOV 16 2017 Form C-102
Revised August 1, 2011

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (505) 388-6181 Fax: (505) 388-0780

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax: (505) 748-0780

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 87506
Phone (505) 476-3450 Fax: (505) 476-3452

State of New Mexico
Energy, Minerals and Natural Resources Department

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

Submit one copy to appropriate
District Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name GOMEZ SWD	Well Number 1
OGRID No.	Operator Name DELAWARE ENERGY	Elevation 3024'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	9	24 S	28 E		700	SOUTH	1550	EAST	EDDY

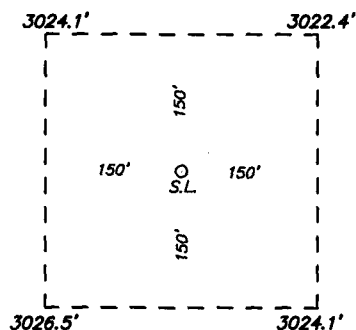
Bottom Hole Location If Different From Surface

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**

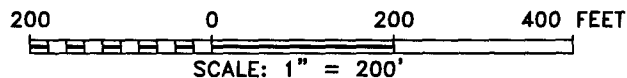
N: 451054.9 E: 613167.0 (NAD83) N: 445764.6 E: 613124.8 (NAD83)	N: 451087.7 E: 618511.2 (NAD83)		OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ 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. Date Surveyed _____ Signature & Seal of Professional Surveyor _____		
	Certificate No. Gary L. Thompson 7977 Bureau Surveyors		
	0' 1000' 2000' 3000' 4000' SCALE: 1" = 2000' WO Num.: 32902		

**SECTION 9, TOWNSHIP 24 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



GOMEZ SWD #1
ELEV. - 3024'
 Lat - N 32.227286°
 Long - W 104.089043°
 NMSPCE- N 446506.4
 E 616877.2
 (NAD-83)

LOVING, NM IS ±4 MILES TO THE NORTH OF LOCATION.



Directions to Location:

FROM THE VILLAGE OF MALAGA, GO WEST ON
 COUNTY ROAD 396 (BLACK RIVER) 1.0 MILE TO SITE
 ON NORTH.



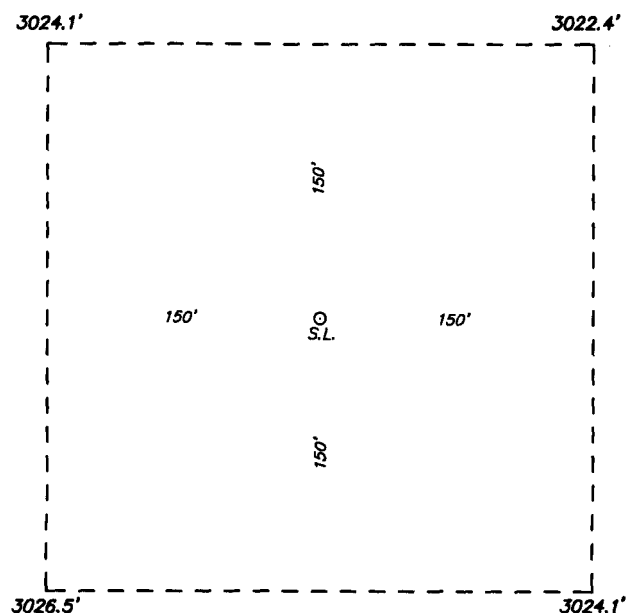
P.O. Box 1786 (575) 393-7316 -- Office
 1120 N. West County Rd. (575) 392-2206 -- Fax
 Hobbs, New Mexico 88241 basin-surveys.com

DELAWARE ENERGY

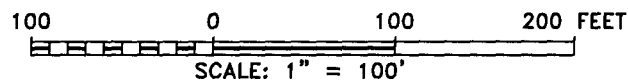
REF: GOMEZ SWD #1 / WELL PAD TOPO

THE GOMEZ SWD #1 LOCATED 700' FROM
 THE SOUTH LINE AND 1550' FROM THE EAST LINE OF
 SECTION 9, TOWNSHIP 24 SOUTH, RANGE 28 EAST.
 N.M.P.M., EDDY COUNTY, NEW MEXICO.

**SECTION 9, TOWNSHIP 24 SOUTH, RANGE 28 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.**



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 Lat - N 32.227286°
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DELAWARE ENERGY

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 1120 N. West County Rd. (575) 392-2206 - Fax
 Hobbs, New Mexico 88241 basin-surveys.com



GOMEZ SWD #1

Located 700' FSL and 1550' FEL
 Section 9, Township 24 South, Range 28 East,
 N.M.P.M., Eddy County, New Mexico.

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0' 1000' 2000' 3000' 4000'
 SCALE: 1" = 2000'

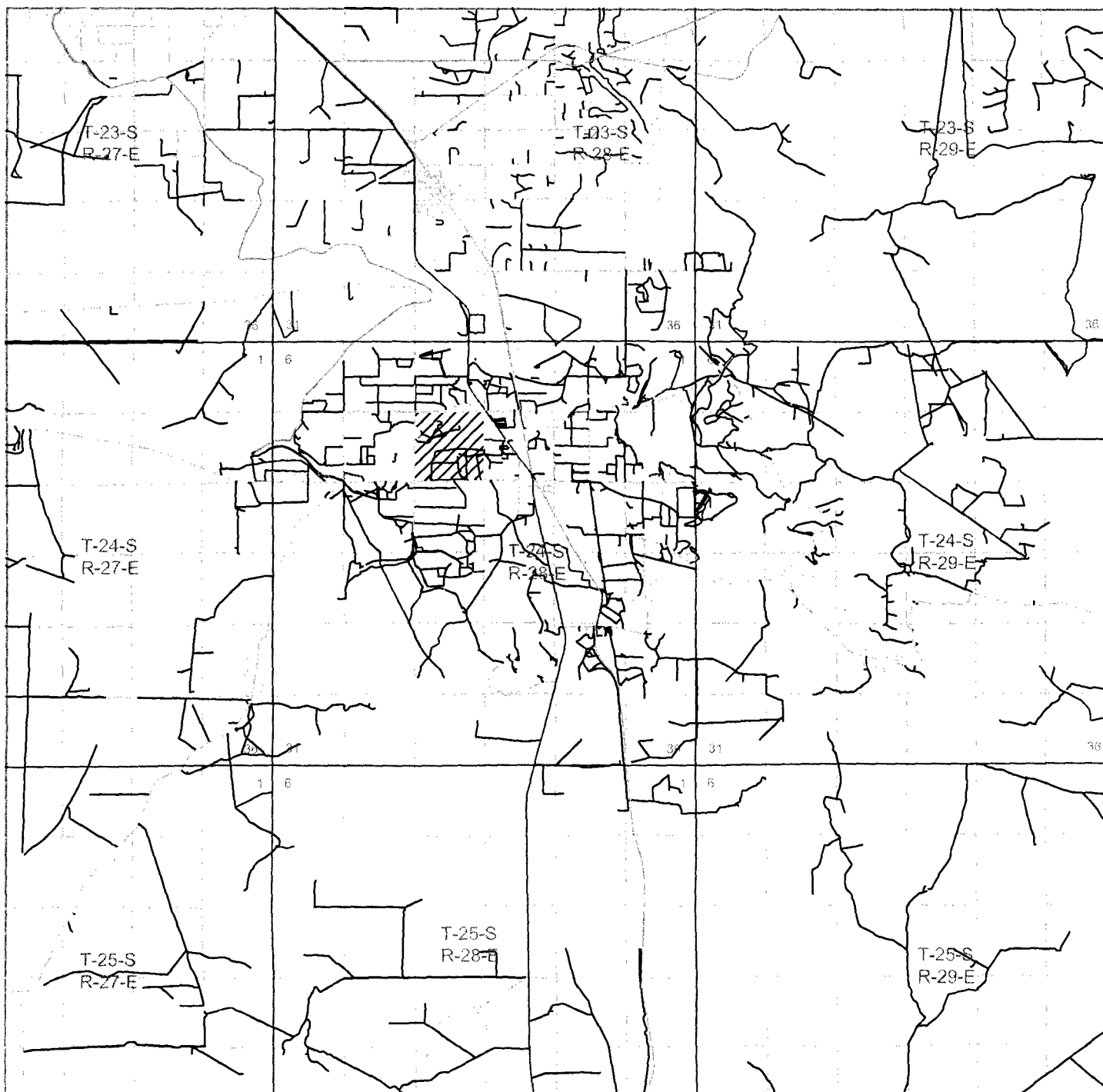
W.O. Number: KJG 32902

Survey Date: 05-01-2017

YELLOW TINT - USA LAND
 BLUE TINT - STATE LAND
 NATURAL COLOR - FEE LAND



DELWARE
ENERGY



GOMEZ SWD #1

Located 700' FSL and 1550' FEL
 Section 9, Township 24 South, Range 28 East,
 N.M.P.M., Eddy County, New Mexico.

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0' 1000' 2000' 3000' 4000'
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YELLOW TINT - USA LAND
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DELAWARE
ENERGY