



PHOENIX
TECHNOLOGY SERVICES

March 7, 2015

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

Dear District 2 - Artesia

Attention: Regulatory Department

Re: Nadel & Gussman Permian, L.L.C.
El Presidente State #003H – WB4
Eddy County, NM
API #30-015-42769
Job No. 1412405

NM OIL CONSERVATION
ARTESIA DISTRICT
MAR 16 2015
RECEIVED

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	
Michael Branson	003H	8,745	14,051	12/20/14	01/07/15	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,

Bobbi Jo Jorgensen

Bobbi Jo Jorgensen
Operations Administrator

Certified mail receipt number: 7014 2120 0004 3423 7187

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1412405

ENERGY COMPANY Nadel & Gussman

WELL NAME

El Presidente State #003H - WB4

COUNTY & STATE

Eddy County, NM

API WELL NUMBER

30-015-42769

PROPOSED DIRECTION

359.78

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
8700	8696.83	1.40	213.31	70.75 S	72.48 E	MWD

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
20-Dec-15	8745	1.0	215.7

SURVEY INSTRUMENT
TYPE

Phoenix MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
7-Jan-15	14051	87.7	0.2

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
7-Jan-15	14105	87.7	0.2

Billy Bews

PRINT YOUR NAME ABOVE

Billy Bews

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.34
DECLINATION OR GRID	GRID

1/7/2015

TODAY'S DATE

MWD SUPERVISOR 1

Billy Bews

DIRECTIONAL DRILLER 1

Zach Johnson

MWD SUPERVISOR 2

Jay Conyers

DIRECTIONAL DRILLER 2

Doug Baker

12329 Cutten Rd.,

Houston, Texas 777066

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

Nadel and Gussman Permian, LLC

Eddy County, New Mexico (NAD27)

El Presidente State

3H

Wellbore #4 Job #1412405

Survey: Phoenix MWD Surveys

Standard Survey Report

08 January, 2015



Survey Report



Company:	Nadel and Gussman Permian, LLC	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	RKB @ 3164.50usft (Patriot 5)
Site:	El Presidente State	MD Reference:	RKB @ 3164.50usft (Patriot 5)
Well:	3H	North Reference:	Grid
Wellbore:	Wellbore #4 Job #1412405	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patriot 5)	Database:	Compass 5000 GCR

Project	Eddy County, New Mexico (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	El Presidente State		
Site Position:		Northing:	451,106.30 usft
From:	Map	Easting:	555,703.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 14' 24.28738 N
		Longitude:	104° 9' 11.41555 W
		Grid Convergence:	0.10 °

Well	3H		
Well Position	+N/-S	0.00 usft	Northing: 451,106.30 usft
	+E/-W	0.00 usft	Easting: 555,703.40 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 14' 24.28738 N
		Longitude:	104° 9' 11.41555 W
		Ground Level:	3,141.00 usft

Wellbore	Wellbore #4 Job #1412405		
Magnetics	Model Name	Sample Date	Declination
	IGRF2010_14	11/25/2014	(°) 7.43
			Dip Angle (°) 60.02
			Field Strength (nT) 48,220

Design	Surveys (Patriot 5)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	8,700.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction (°) 359.69

Survey Program	Date	1/8/2015		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
100.00	8,700.00	Scientific Gyro Surveys (Wellbore #1 Job #	Scientific Gyro	Scientific Drilling Intl. Standard Wireline Keeper
8,700.00	14,105.00	Phoenix MWD Surveys (Wellbore #4 Job #	PHX+MWD+IGRF	PHX+MWD+IGRF v3: standard declination

Survey										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn	
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate	
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)	
8,700.00	1.40	213.31	8,696.83	-70.75	72.48	-71.14	0.00	0.00	0.00	
Tie-in to WB1										
8,745.00	1.00	215.70	8,741.82	-71.53	71.95	-71.92	0.90	-0.89	5.31	
WB4 First Phoenix Survey										
8,952.00	9.20	285.80	8,947.89	-68.48	54.94	-68.78	4.30	3.96	33.86	
9,047.00	7.50	290.40	9,041.88	-64.25	41.82	-64.48	1.92	-1.79	4.84	
9,142.00	6.60	291.10	9,136.16	-60.13	30.91	-60.30	0.95	-0.95	0.74	
9,174.00	7.30	301.90	9,167.93	-58.39	27.47	-58.54	4.62	2.19	33.75	
9,205.00	9.00	321.50	9,198.62	-55.45	24.29	-55.58	10.43	5.48	63.23	

Survey Report



Company:	Nadel and Gussman Permian, LLC	Local Co-ordinate Reference:	Well 3H
Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	RKB @ 3164.50usft (Patriot 5)
Site:	EI Presidente State	MD Reference:	RKB @ 3164.50usft (Patriot 5)
Well:	3H	North Reference:	Grid
Wellbore:	Wellbore #4 Job #1412405	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patriot 5)	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)
9,237.00	11.50	334.50	9,230.11	-50.61	21.36	-50.73	10.60	7.81	40.63
9,269.00	15.10	336.40	9,261.25	-43.91	18.31	-44.01	11.33	11.25	5.94
9,301.00	18.30	334.40	9,291.89	-35.56	14.47	-35.64	10.16	10.00	-6.25
9,332.00	20.40	333.00	9,321.14	-26.36	9.92	-26.41	6.94	6.77	-4.52
9,364.00	22.90	334.60	9,350.88	-15.76	4.71	-15.79	8.03	7.81	5.00
9,396.00	25.80	337.40	9,380.03	-3.70	-0.63	-3.70	9.75	9.06	8.75
9,427.00	28.10	339.90	9,407.66	9.38	-5.74	9.41	8.27	7.42	8.06
9,459.00	29.90	346.10	9,435.66	24.21	-10.24	24.26	10.94	5.63	19.38
9,491.00	30.70	352.50	9,463.29	40.05	-13.23	40.12	10.39	2.50	20.00
9,523.00	31.20	355.70	9,490.74	56.42	-14.91	56.50	5.37	1.56	10.00
9,554.00	33.50	356.50	9,516.92	72.97	-16.04	73.05	7.55	7.42	2.58
9,586.00	36.10	356.40	9,543.20	91.19	-17.17	91.28	8.13	8.13	-0.31
9,618.00	38.40	356.00	9,568.67	110.52	-18.46	110.62	7.23	7.19	-1.25
9,649.00	40.30	356.20	9,592.64	130.13	-19.79	130.23	6.14	6.13	0.65
9,681.00	41.80	355.70	9,616.77	151.09	-21.28	151.20	4.80	4.69	-1.56
9,713.00	43.40	355.00	9,640.33	172.68	-23.04	172.80	5.21	5.00	-2.19
9,744.00	45.60	353.80	9,662.44	194.30	-25.16	194.43	7.60	7.10	-3.87
9,776.00	47.00	352.30	9,684.54	217.26	-27.96	217.41	5.53	4.38	-4.69
9,808.00	48.60	352.00	9,706.04	240.74	-31.20	240.91	5.05	5.00	-0.94
9,840.00	51.10	352.20	9,726.67	264.97	-34.56	265.15	7.83	7.81	0.63
9,872.00	52.10	354.10	9,746.55	289.87	-37.55	290.07	5.60	3.13	5.94
9,903.00	54.70	354.40	9,765.03	314.63	-40.04	314.84	8.42	8.39	0.97
9,935.00	58.40	355.80	9,782.67	341.22	-42.31	341.45	12.12	11.56	4.38
9,967.00	61.20	357.80	9,798.76	368.83	-43.85	369.07	10.28	8.75	6.25
9,998.00	64.80	358.80	9,812.83	396.44	-44.67	396.67	11.96	11.61	3.23
10,030.00	67.30	359.20	9,825.82	425.67	-45.18	425.91	7.90	7.81	1.25
10,045.00	69.00	358.90	9,831.41	439.59	-45.41	439.83	11.48	11.33	-2.00
10,159.00	71.90	359.20	9,869.55	547.00	-47.19	547.24	2.56	2.54	0.26
10,191.00	74.70	0.60	9,878.74	577.64	-47.24	577.89	9.70	8.75	4.38
10,223.00	78.60	1.70	9,886.13	608.76	-46.61	609.01	12.64	12.19	3.44
10,286.00	83.50	0.60	9,895.93	670.96	-45.36	671.20	7.97	7.78	-1.75
10,381.00	82.50	359.70	9,907.51	765.25	-45.12	765.49	1.41	-1.05	-0.95
10,476.00	87.10	0.70	9,916.12	859.84	-44.78	860.07	4.95	4.84	1.05
10,572.00	88.00	0.00	9,920.22	955.74	-44.20	955.97	1.19	0.94	-0.73
10,667.00	89.70	0.30	9,922.13	1,050.72	-43.95	1,050.95	1.82	1.79	0.32
10,759.00	89.50	0.60	9,922.77	1,142.72	-43.23	1,142.93	0.39	-0.22	0.33
10,851.00	86.50	0.80	9,925.98	1,234.64	-42.10	1,234.85	3.27	-3.26	0.22
10,949.00	91.60	1.90	9,927.60	1,332.57	-39.80	1,332.77	5.32	5.20	1.12
11,045.00	90.90	0.90	9,925.51	1,428.52	-37.45	1,428.70	1.27	-0.73	-1.04
11,140.00	88.90	0.90	9,925.68	1,523.50	-35.96	1,523.67	2.11	-2.11	0.00
11,234.00	90.60	0.00	9,926.09	1,617.49	-35.22	1,617.66	2.05	1.81	-0.96
11,328.00	91.40	0.80	9,924.44	1,711.47	-34.56	1,711.64	1.20	0.85	0.85
11,423.00	88.90	0.00	9,924.20	1,806.46	-33.90	1,806.62	2.76	-2.63	-0.84

Survey Report



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Site:	El Presidente State	MD Reference:	RKB @ 3164.50usft (Patriot 5)
Well:	3H	North Reference:	Grid
Wellbore:	Wellbore #4 Job #1412405	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patriot 5)	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)	
11,518.00	89.20	1.20	9,925.77	1,901.44	-32.91	1,901.59	1.30	0.32	1.26	
11,614.00	90.30	1.90	9,926.19	1,997.40	-30.31	1,997.54	1.36	1.15	0.73	
11,709.00	89.80	2.10	9,926.11	2,092.34	-26.99	2,092.46	0.57	-0.53	0.21	
11,804.00	90.00	358.40	9,926.27	2,187.33	-26.58	2,187.44	3.90	0.21	-3.89	
11,899.00	89.10	356.70	9,927.02	2,282.23	-30.64	2,282.37	2.02	-0.95	-1.79	
11,994.00	89.50	357.20	9,928.18	2,377.09	-35.69	2,377.25	0.67	0.42	0.53	
12,088.00	92.30	0.90	9,926.70	2,471.04	-37.25	2,471.21	4.94	2.98	3.94	
12,183.00	91.20	0.40	9,923.80	2,565.99	-36.18	2,566.15	1.27	-1.16	-0.53	
12,278.00	91.20	0.80	9,921.81	2,660.96	-35.18	2,661.11	0.42	0.00	0.42	
12,374.00	88.50	0.50	9,922.06	2,756.95	-34.09	2,757.09	2.83	-2.81	-0.31	
12,468.00	89.10	1.50	9,924.03	2,850.91	-32.45	2,851.04	1.24	0.64	1.06	
12,563.00	89.80	1.60	9,924.94	2,945.87	-29.88	2,945.99	0.74	0.74	0.11	
12,657.00	87.30	359.70	9,927.32	3,039.82	-28.82	3,039.93	3.34	-2.66	-2.02	
12,753.00	88.20	0.40	9,931.09	3,135.75	-28.73	3,135.86	1.19	0.94	0.73	
12,848.00	86.80	358.90	9,935.24	3,230.65	-29.31	3,230.76	2.16	-1.47	-1.58	
12,880.00	89.30	0.00	9,936.32	3,262.63	-29.62	3,262.74	8.53	7.81	3.44	
12,912.00	89.90	0.90	9,936.55	3,294.62	-29.37	3,294.74	3.38	1.88	2.81	
12,943.00	89.70	0.90	9,936.66	3,325.62	-28.88	3,325.73	0.65	-0.65	0.00	
12,975.00	90.10	0.90	9,936.71	3,357.62	-28.38	3,357.72	1.25	1.25	0.00	
13,007.00	90.30	1.50	9,936.60	3,389.61	-27.71	3,389.71	1.98	0.63	1.88	
13,039.00	90.00	1.40	9,936.52	3,421.60	-26.90	3,421.69	0.99	-0.94	-0.31	
13,133.00	89.60	2.40	9,936.84	3,515.54	-23.78	3,515.62	1.15	-0.43	1.06	
13,228.00	88.00	0.90	9,938.83	3,610.48	-21.05	3,610.54	2.31	-1.68	-1.58	
13,323.00	88.70	1.10	9,941.57	3,705.42	-19.39	3,705.47	0.77	0.74	0.21	
13,418.00	87.20	359.80	9,944.97	3,800.36	-18.64	3,800.40	2.09	-1.58	-1.37	
13,513.00	87.20	359.30	9,949.61	3,895.24	-19.39	3,895.29	0.53	0.00	-0.53	
13,609.00	88.00	357.80	9,953.63	3,991.12	-21.82	3,991.18	1.77	0.83	-1.56	
13,704.00	87.60	358.40	9,957.28	4,086.00	-24.96	4,086.07	0.76	-0.42	0.63	
13,799.00	87.30	357.70	9,961.50	4,180.85	-28.19	4,180.94	0.80	-0.32	-0.74	
13,894.00	87.10	357.90	9,966.14	4,275.66	-31.83	4,275.77	0.30	-0.21	0.21	
13,990.00	88.00	358.50	9,970.25	4,371.53	-34.85	4,371.65	1.13	0.94	0.63	
14,051.00	87.70	0.20	9,972.54	4,432.48	-35.54	4,432.61	2.83	-0.49	2.79	
WB4 Final Phoenix Survey										
14,105.00	87.70	0.20	9,974.70	4,486.44	-35.35	4,486.56	0.00	0.00	0.00	
WB4 Projection to TD										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
8,700.00	8,696.83	-70.75	72.48	Tie-in to WB1	
8,745.00	8,741.82	-71.53	71.95	WB4 First Phoenix Survey	
14,051.00	9,972.54	4,432.48	-35.54	WB4 Final Phoenix Survey	
14,105.00	9,974.70	4,486.44	-35.35	WB4 Projection to TD	

Survey Report



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Project:	Eddy County, New Mexico (NAD27)	TVD Reference:	RKB @ 3164.50usft (Patriot 5)
Site:	El Presidente State	MD Reference:	RKB @ 3164.50usft (Patriot 5)
Well:	3H	North Reference:	Grid
Wellbore:	Wellbore #4 Job #1412405	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patriot 5)	Database:	Compass 5000 GCR

Checked By: _____	Approved By: _____	Date: _____
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DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & 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

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
Property Code	Property Name EL PRESIDENTE STATE	Well Number 3H
OGRID No.	Operator Name NADEL & GUSSMAN PERMIAN, LLC	Elevation 3141'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	2	24-S	27-E		250	SOUTH	330	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
A	2	24-S	27-E		330	NORTH	330	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
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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

NAD 27 NME BOTTOM HOLE LOCATION Y= 455844.0 N X= 555720.0 E LAT.=32.253104° N LONG.=104.153092° W		NAD 83 NME BOTTOM HOLE LOCATION Y= 455902.5 N X= 596902.8 E LAT.=32.253223° N LONG.=104.153588° W		A	
CORNER COORDINATES TABLE NAD 27 NME A - Y= 456167.2 N, X= 554726.9 E B - Y= 456176.2 N, X= 556051.1 E C - Y= 450859.3 N, X= 556032.5 E D - Y= 450847.4 N, X= 554704.9 E					
CORNER COORDINATES TABLE NAD 83 NME A - Y= 456225.7 N, X= 595909.6 E B - Y= 456234.7 N, X= 597233.9 E C - Y= 450917.7 N, X= 597215.3 E D - Y= 450905.8 N, X= 595887.7 E					
GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y= 451106.3 N X= 555703.4 E LAT.=32.240080° N LONG.=104.153171° W		GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y= 451164.7 N X= 596886.3 E LAT.=32.240200° N LONG.=104.153667° W		D	

B.H. 330'

GRID AZ = 100° 11' 59"

HORIZ. DIST. = 4738.9

S.L. 250'

330'

OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature _____ Date _____

Printed Name _____

E-mail Address _____

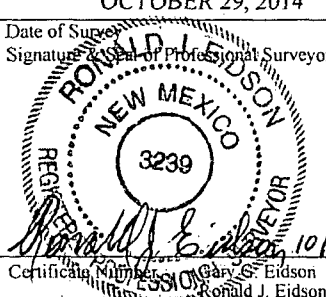
SURVEYOR CERTIFICATION

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.

OCTOBER 29, 2014

Date of Survey _____

Signature of Professional Surveyor: *Ronald J. Eidson*



Certificate Number: 12641
Ronald J. Eidson 3239

LSL JWSC W.O.: 14.11.1140