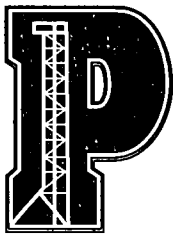


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APR 09 2015

RECEIVED

OPERATOR: Nadel & Gussman Permian
WELL/LEASE: Raptor West 3 State #4H
COUNTY: Lea Co., New Mexico
Sec. 3, T 19S, R 34E

PATRIOT DRILLING, LLC

**STATE OF NEW MEXICO
DEVIATION REPORT**

<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
370	1/2	6,397	1 1/2
622	1/4	6,492	1 1/4
752	0	6,587	1
1,210	1/4	6,682	1
1,705	0	6,840	1/4
1,937	0	6,934	1/2
2,227	1/2	7,029	1/2
2,536	1/4	7,125	1/2
2,856	2	7,220	1/2
3,142	2 1/2	7,316	1/2
3,380	2 3/4	7,411	1/4
3,690	3 1/2	7,506	1/2
3,736	4	7,602	0
3,828	4 1/4	7,697	1/2
3,925	5	7,792	0
4,019	4 1/4	7,887	3/4
4,113	4 1/4	7,982	3/4
4,209	4 1/4	8,077	1
4,313	4 1/4	8,173	1
4,494	3 1/2	8,268	1
4,589	3 1/2	8,362	1
4,684	3	8,458	1
4,780	3	8,553	1/2
4,874	2 1/2	8,649	1/2
4,969	2 1/2	8,839	1
5,064	2 1/2	8,934	1 1/4
5,160	2 3/4	9,029	1 1/4
5,257	2	9,124	1
5,350	2 1/2	9,220	1/2
5,445	2 1/4	9,315	1
5,540	2	9,324	1
5,634	2 1/4	9,798	1
5,730	2 1/4	10,083	1
5,825	2	10,146	4 1/4
5,921	1 1/4	10,174	7 3/4
6,016	1 1/2		
6,102	1 1/4		

APR 21 2015

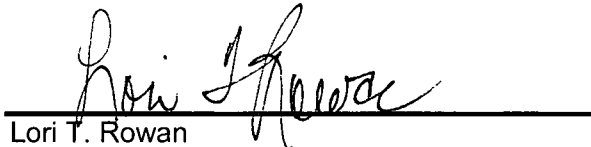
Patriot Drilling, LLC



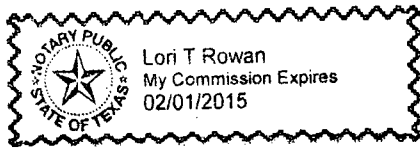
M. Leroy Peterson, Executive Vice-President

The foregoing instrument was acknowledged before me on this 18th day of November, 2014 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling, LLC.

My Commission Expires: 02/01/2015



Lori T. Rowan
Notary Public for Ector Co., Texas



HOBBSOCD

APR 09 2015

RECEIVED

NADEL & GUSSMAN LLC

Scharb

Lea County, NM (Grid North)

Raptor West 3 State #4H

VH - Job #321114-KW-1275

Survey: Gyro

Regulatory Survey Report (Grid Nort

23 November, 2014

This survey is correct to the best of my knowledge and is supported by actual field data.

Jami Thorman

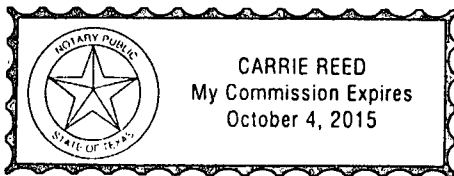
Notarized this date 25th of November, 2014.

Carrie Reed

Notary Signature

County of Midland

State of Texas



Regulatory Survey Report (Grid North)

Company:	NADEL & GUSSMAN LLC	Local Co-ordinate Reference:	Well Raptor West 3 State #4H
Project:	Scharb	TVD Reference:	Mean Sea Level (System)
Site:	Lea County, NM (Grid North)	MD Reference:	Mean Sea Level (System)
Well:	Raptor West 3 State #4H	North Reference:	Grid
Wellbore:	VH - Job #321114-KW-1275	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #321114-KW-1275	Database:	MID_Regulatory

Project:	Scharb		
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:	Lea County, NM (Grid North)				
Site Position:	Northing:	613,038.37 usft	Latitude:	32° 40' 58.249 N	
From:	Lat/Long	Easting:	743,423.81 usft	Longitude:	103° 32' 31.823 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.43 °

Well:	Raptor West 3 State #4H Horizontal					
Well Position	+N-S	0.0 usft	Northing:	612,964.41 usft	Latitude:	32° 40' 57.472 N
	+E-W	0.0 usft	Easting:	744,044.08 usft	Longitude:	103° 32' 24.572 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	0.0 usft	

Wellbore:	VH - Job #321114-KW-1275				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	11/2/2014	(°) 7.19	(°) 60.53	(nT) 48,582

Design:	VH - Job #321114-KW-1275				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD):	+N-S	+E-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0	60.71	

Survey Program	Date 11/23/2014				
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.0	9,320.0	Gyro (VH - Job #321114-KW-1275)	Keeper	Keeper Gyro	

Survey	MD	Inc	Azi	TVD	N/S	E/W	Closure Azimuth	Closure Distance
	(usft)	(°)	(grid_north_azim)	(usft)	(usft)	(usft)	(°)	(usft)
	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.0
	100.0	0.52	159.70	100.0	-0.4	0.2	159.70	0.5
	200.0	0.57	147.81	200.0	-1.3	0.6	155.50	1.4
	300.0	0.60	157.81	300.0	-2.2	1.0	154.42	2.4
	400.0	0.55	151.32	400.0	-3.1	1.5	154.50	3.4
	500.0	0.50	159.11	500.0	-3.9	1.9	154.61	4.3
	600.0	0.27	154.55	600.0	-4.5	2.1	155.00	5.0
	700.0	0.09	116.69	700.0	-4.8	2.3	154.46	5.3
	800.0	0.05	112.18	800.0	-4.8	2.4	153.63	5.4
	900.0	0.03	90.03	900.0	-4.8	2.5	153.08	5.4
	1,000.0	0.09	90.11	1,000.0	-4.8	2.6	152.11	5.5
	1,100.0	0.04	83.67	1,100.0	-4.8	2.7	151.05	5.5

Regulatory Survey Report (Grid North)

Company:	NADEL & GUSSMAN LLC	Local Co-ordinate Reference:	Well Raptor West 3 State #4H
Project:	Scharb	TVD Reference:	Mean Sea Level (System)
Site:	Lea County, NM (Grid North)	MD Reference:	Mean Sea Level (System)
Well:	Raptor West 3 State #4H	North Reference:	Grid
Wellbore:	VH - Job #321114-KW-1275	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #321114-KW-1275	Database:	MID_Regulatory

MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200.0	0.05	98.91	1,200.0	-4.8	2.8	150.37	5.6
1,300.0	0.08	52.60	1,300.0	-4.8	2.9	149.31	5.6
1,400.0	0.13	82.07	1,400.0	-4.8	3.0	147.54	5.6
1,500.0	0.15	18.62	1,500.0	-4.6	3.2	145.45	5.6
1,600.0	0.06	21.29	1,600.0	-4.4	3.2	143.90	5.5
1,700.0	0.08	10.05	1,700.0	-4.3	3.3	142.90	5.4
1,800.0	0.02	93.65	1,800.0	-4.3	3.3	142.22	5.4
1,900.0	0.23	114.20	1,900.0	-4.3	3.5	141.12	5.6
2,000.0	0.36	78.14	2,000.0	-4.4	4.0	137.52	5.9
2,100.0	0.43	78.63	2,100.0	-4.2	4.7	132.12	6.3
2,200.0	0.38	70.84	2,200.0	-4.0	5.3	127.05	6.7
2,300.0	0.47	81.40	2,300.0	-3.9	6.1	122.51	7.2
2,400.0	0.46	76.92	2,400.0	-3.7	6.9	118.43	7.8
2,500.0	0.46	90.18	2,500.0	-3.6	7.7	115.34	8.5
2,600.0	0.55	100.62	2,600.0	-3.7	8.5	113.54	9.3
2,700.0	0.53	91.38	2,699.9	-3.8	9.5	111.95	10.2
2,800.0	1.06	75.44	2,799.9	-3.6	10.8	108.37	11.4
2,900.0	2.18	69.10	2,899.9	-2.7	13.5	101.24	13.8
3,000.0	2.79	69.77	2,999.8	-1.2	17.6	93.79	17.6
3,100.0	2.91	69.00	3,099.7	0.6	22.2	88.48	22.2
3,200.0	3.14	66.20	3,199.5	2.6	27.1	84.51	27.2
3,300.0	3.17	63.96	3,299.4	4.9	32.1	81.27	32.4
3,400.0	2.97	62.95	3,399.2	7.3	36.9	78.78	37.6
3,500.0	2.83	63.85	3,499.1	9.6	41.4	76.96	42.5
3,600.0	3.13	60.20	3,599.0	12.0	46.0	75.34	47.5
3,700.0	3.79	59.60	3,698.8	15.1	51.2	73.61	53.4
3,800.0	4.41	58.05	3,798.5	18.8	57.3	71.87	60.3
3,900.0	4.51	57.34	3,898.2	22.9	63.9	70.26	67.9
4,000.0	4.49	57.74	3,997.9	27.1	70.5	68.95	75.5
4,100.0	4.26	57.39	4,097.6	31.2	76.9	67.91	83.0
4,200.0	4.27	58.12	4,197.4	35.2	83.2	67.08	90.4
4,300.0	4.28	57.11	4,297.1	39.2	89.5	66.36	97.7
4,400.0	3.91	57.34	4,396.8	43.0	95.5	65.74	104.8
4,500.0	3.72	57.16	4,496.6	46.6	101.1	65.24	111.4
4,600.0	3.54	57.24	4,596.4	50.1	106.4	64.81	117.6
4,700.0	3.24	58.04	4,696.2	53.2	111.4	64.46	123.5
4,800.0	2.89	56.64	4,796.1	56.1	115.9	64.17	128.8
4,900.0	2.75	55.57	4,896.0	58.9	120.0	63.87	133.7
5,000.0	2.58	52.48	4,995.9	61.6	123.8	63.55	138.3
5,100.0	2.40	52.73	5,095.8	64.2	127.2	63.21	142.5
5,200.0	2.26	50.65	5,195.7	66.8	130.4	62.90	146.5
5,300.0	2.18	52.34	5,295.6	69.2	133.5	62.61	150.3
5,400.0	2.12	50.37	5,395.5	71.5	136.4	62.33	154.0
5,500.0	2.12	49.27	5,495.5	73.9	139.2	62.04	157.6

Regulatory Survey Report (Grid North)

Company:	NADEL & GUSSMAN LLC	Local Co-ordinate Reference:	Well Raptor West 3 State #4H
Project:	Scharb	TVD Reference:	Mean Sea Level (System)
Site:	Lea County, NM (Grid North)	MD Reference:	Mean Sea Level (System)
Well:	Raptor West 3 State #4H	North Reference:	Grid
Wellbore:	VH - Job #321114-KW-1275	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #321114-KW-1275	Database:	MID_Regulatory

Survey									
MD (usft)	Inc (°)	Azi (grid_north_azim)	TVD (usft)	N/S (usft)	E/W (usft)	Closure Azimuth (°)	Closure Distance (usft)		
5,600.0	1.97	48.45	5,595.4	76.2	141.9	61.75	161.1		
5,700.0	1.87	49.18	5,695.3	78.4	144.4	61.49	164.4		
5,800.0	1.67	49.85	5,795.3	80.5	146.8	61.27	167.4		
5,900.0	1.54	48.05	5,895.3	82.3	148.9	61.07	170.1		
6,000.0	1.36	45.83	5,995.2	84.0	150.7	60.87	172.6		
6,100.0	1.20	32.62	6,095.2	85.7	152.2	60.60	174.6		
6,200.0	1.05	30.88	6,195.2	87.4	153.2	60.30	176.4		
6,300.0	1.06	30.32	6,295.2	89.0	154.1	60.00	178.0		
6,400.0	1.08	26.15	6,395.1	90.6	155.0	59.69	179.6		
6,500.0	0.93	23.93	6,495.1	92.2	155.8	59.37	181.0		
6,600.0	0.96	12.66	6,595.1	93.8	156.3	59.03	182.2		
6,700.0	0.76	5.10	6,695.1	95.2	156.5	58.68	183.2		
6,800.0	0.53	57.17	6,795.1	96.2	157.0	58.51	184.1		
6,900.0	0.39	82.90	6,895.1	96.4	157.7	58.55	184.8		
7,000.0	0.32	64.59	6,995.1	96.6	158.3	58.60	185.4		
7,100.0	0.33	87.97	7,095.1	96.7	158.8	58.65	186.0		
7,200.0	0.13	77.37	7,195.1	96.8	159.2	58.71	186.3		
7,300.0	0.21	49.09	7,295.1	96.9	159.5	58.71	186.6		
7,400.0	0.17	98.40	7,395.1	97.0	159.7	58.73	186.9		
7,500.0	0.27	47.16	7,495.1	97.2	160.1	58.74	187.2		
7,600.0	0.24	41.87	7,595.1	97.5	160.4	58.71	187.7		
7,700.0	0.26	31.80	7,695.1	97.8	160.6	58.66	188.1		
7,800.0	0.26	33.32	7,795.1	98.2	160.9	58.60	188.5		
7,900.0	0.52	48.36	7,895.1	98.7	161.3	58.54	189.1		
8,000.0	0.63	45.13	7,995.1	99.4	162.1	58.48	190.1		
8,100.0	0.71	45.31	8,095.1	100.2	162.9	58.40	191.3		
8,200.0	0.78	45.02	8,195.1	101.1	163.8	58.31	192.5		
8,300.0	0.83	46.54	8,295.0	102.1	164.8	58.22	193.9		
8,400.0	0.54	59.64	8,395.0	102.8	165.8	58.18	195.1		
8,500.0	0.57	75.96	8,495.0	103.2	166.7	58.23	196.0		
8,600.0	0.39	110.20	8,595.0	103.2	167.5	58.35	196.7		
8,700.0	0.79	131.96	8,695.0	102.6	168.3	58.62	197.1		
8,800.0	1.44	123.81	8,795.0	101.5	169.8	59.15	197.8		
8,900.0	1.22	110.49	8,895.0	100.4	171.9	59.71	199.1		
9,000.0	1.08	108.15	8,995.0	99.7	173.8	60.15	200.4		
9,100.0	0.93	80.17	9,094.9	99.6	175.5	60.43	201.8		
9,200.0	0.87	76.25	9,194.9	99.9	177.0	60.56	203.2		
9,300.0	0.78	79.98	9,294.9	100.2	178.4	60.68	204.6		
9,320.0	0.84	81.20	9,314.9	100.2	178.7	60.71	204.9		

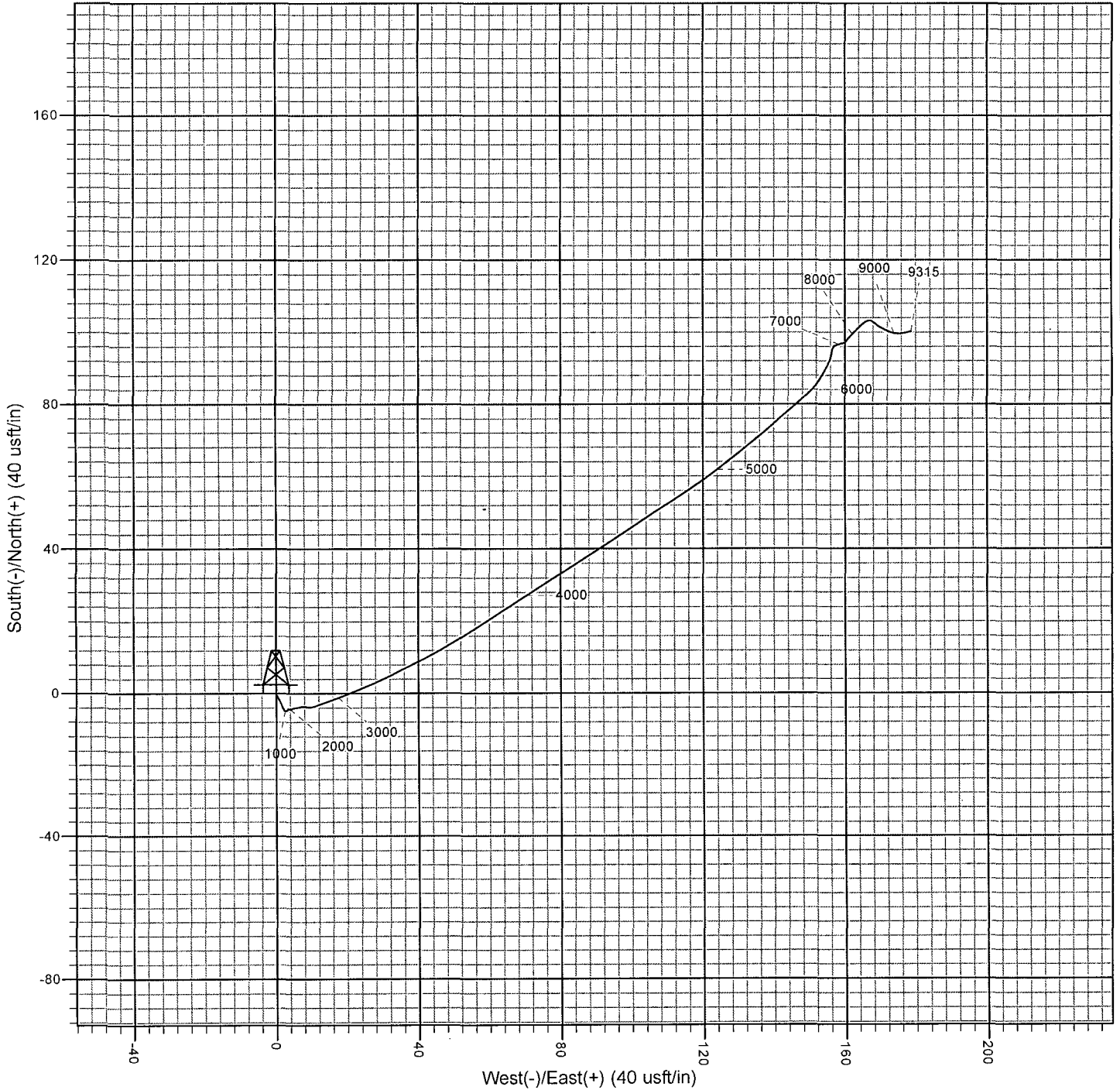


Scientific Drilling

Project: Scharb
Lea County, NM (Grid North)
Well: Raptor West 3 State #4H
Wellbore: VH - Job #321114-KW-1275
Design: VH - Job #321114-KW-1275

WELL DETAILS: Raptor West 3 State #4H
Mean Sea Level (System)
Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	612964.41	744044.08	32° 40' 57.472 N	103° 32' 24.572 W	



PROJECT DETAILS:	SITE DETAILS:
Geodetic System: US State Plane 1927 (Exact solution)	Lea County, NM (Grid North)
Datum: NAD 1927 (NADCON CONUS)	Site Centre Latitude: 32° 40' 58.249 N
Ellipsoid: Clarke 1866	Longitude: 103° 32' 31.823 W
Zone: New Mexico East 3001	Positional Uncertainty: 0.0
System Datum: Mean Sea Level	Convergence: 0.43
	Local North: Grid

DEC 15 2014



**PHOENIX
TECHNOLOGY SERVICES**

December 11, 2014

Nadel & Gussman Permian, L.L.C.
Attention: Regulatory Department
601 N. Marienfield, Suite 508
Midland, TX 79701

HOBBSOCD

APR 09 2015

Re: Nadel & Gussman Permian, L.L.C.
Raptor West 3 State #4H
Lea County, NM
API #30-025-42173
Job No. 1412046

RECEIVED

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 1 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	
Dean Young	4H	9,798	15,165	11/04/14	11/11/14	MWD

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

Best Regards,

Dana Robinson

Dana Robinson
Operations Administrator

Phoenix Technology Services SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER **1412046**

CLIENT **Nadel & Gussman**

WELL NAME **Raptor West 3 State #4H**

COUNTY & STATE **Lea Co, NM**

API WELL NUMBER **30-025-42173**

PROPOSED DIRECTION **359.1**

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
9,320 ft	9,314.94 ft	0.84	81.2 ft	100.22 ft	178.74 ft	Gyro

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
4-Nov-14	9,798 ft	1.0	107.8

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
11-Nov-14	15,165 ft	88.4	356.9

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

PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH
12-Nov-14	15,218 ft	88.4	356.9

Dean Young

PRINT YOUR NAME ABOVE

Dean Young

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID	
TOTAL CORRECTION USED	6.76
DECLINATION OR GRID	GRID

11/12/2014

TODAY'S DATE

MWD SUPERVISOR 1 **Dean Young**
MWD SUPERVISOR 2 **Billy Bews**

DIRECTIONAL DRILLER 1 **Zach Johnson**
DIRECTIONAL DRILLER 2 **Nick Berwick**

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 RAPTOR WEST 3 STATE	
OGRID No.	Operator Name NADEL & GUSSMAN PERMIAN, LLC	
	Well Number 4H	Elevation 3988'

Surface Location

UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
P	3	19-S	34-E		250	SOUTH	330	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
1	3	19-S	34-E		330	NORTH	330	EAST	LEA
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

4 44.32 AC.	3 44.28 AC. GEODETIC COORDINATES NAD 27 NME BOTTOM HOLE LOCATION Y=617801.7 N X=744018.1 E LAT.=32.695927° N LONG.=103.540126° W	2 44.24 AC.	1 44.20 AC. GEODETIC COORDINATES NAD 83 NME BOTTOM HOLE LOCATION Y=617865.7 N X=785197.8 E LAT.=32.696050° N LONG.=103.540620° W
	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=612964.6 N X=744044.2 E LAT.=32.682631° N LONG.=103.540159° W		
	GEODETIC COORDINATES NAD 83 NME SURFACE LOCATION Y=613028.4 N X=785224.0 E LAT.=32.682755° N LONG.=103.540653° W		

B.H. 330'

GRID AZ.=359°41'21"

HORIZ. DIST.=4838.4'

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 _____

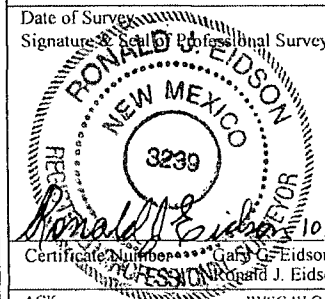
SURVEYOR CERTIFICATION

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.

SEPTEMBER 29, 2014

Date of Survey _____

Signature of Registered Professional Surveyor: _____



Certificate Number: 3239
 Surveyor: Ronald J. Eidson
 Date: 10/06/2014

ACK JWSC W.O.: 14.11.1022

Nadel and Gussman Permian, LLC

Lea County, New Mexico (NAD27)

Raptor West 3 State

4H

Wellbore #1 Job #1412046

Survey: Phoenix MWD Surveys

Standard Survey Report

13 November, 2014



Phoenix Technology Services
Survey Report



Company:	Nadel and Gussman Permian, LLC	Local Co-ordinate Reference:	Well 4H
Project:	Lea County, New Mexico (NAD27)	TVD Reference:	RKB @ 4011.50usft (Patriot 5)
Site:	Raptor West 3 State	MD Reference:	RKB @ 4011.50usft (Patriot 5)
Well:	4H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1412046	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patriot 5)	Database:	Compass 5000 GCR

Project	Lea 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	Raptor West 3 State				
Site Position:		Northing:	612,964.60 usft	Latitude:	32° 40' 57.47346 N
From:	Map	Easting:	744,044.20 usft	Longitude:	103° 32' 24.57096 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.43 °

Well	4H					
Well Position	+N/-S	0.00 usft	Northing:	612,964.60 usft	Latitude:	32° 40' 57.47346 N
	+E/-W	0.00 usft	Easting:	744,044.20 usft	Longitude:	103° 32' 24.57096 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,988.00 usft

Wellbore	Wellbore #1 Job #1412046				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	10/17/14	7.19	60.53	48,556

Design	Surveys (Patriot 5)				
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	359.10	

Survey Program	Date	11/13/14			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	9,320.00	Scientific Gyro Surveys (Wellbore #1 Job #	NS-GYRO-MS	North sensing gyrocompassing m/s	
9,798.00	15,218.00	Phoenix MWD Surveys (Wellbore #1 Job #	PHX+MWD+IGRF	PHX+MWD+IGRF v3:standard declination	

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)	
9,320.00	0.84	81.20	9,314.94	100.22	178.74	97.40	0.00	0.00	0.00	
Tie-in to Scientific Gyro										
9,798.00	1.00	107.80	9,792.88	99.48	186.17	96.54	0.09	0.03	5.56	
First Phoenix MWD Survey										
10,051.00	1.10	113.70	10,045.84	97.83	190.50	94.83	0.06	0.04	2.33	
10,083.00	0.80	125.80	10,077.83	97.58	190.96	94.56	1.12	-0.94	37.81	
10,110.00	1.00	271.20	10,104.83	97.47	190.88	94.46	6.37	0.74	538.52	
10,142.00	4.10	289.50	10,136.79	97.86	189.52	94.87	9.89	9.69	57.19	
10,174.00	7.70	291.70	10,168.62	99.03	186.45	96.09	11.27	11.25	6.88	

Phoenix Technology Services
Survey Report



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Well:	4H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1412046	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patriot 5)	Database:	Compass 5000 GCR

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)
10,205.00	12.00	297.70	10,199.16	101.30	181.67	98.43	14.24	13.87	19.35
10,237.00	16.60	299.40	10,230.16	105.09	174.73	102.33	14.43	14.38	5.31
10,269.00	21.00	298.70	10,260.44	110.09	165.72	107.48	13.77	13.75	-2.19
10,301.00	23.50	301.80	10,290.06	116.21	155.26	113.76	8.63	7.81	9.69
10,333.00	24.70	306.00	10,319.27	123.50	144.43	121.22	6.54	3.75	13.13
10,365.00	26.10	310.70	10,348.18	132.02	133.68	129.91	7.67	4.38	14.69
10,396.00	28.80	316.30	10,375.69	141.87	123.35	139.92	12.04	8.71	18.06
10,428.00	32.60	320.50	10,403.20	154.10	112.54	152.32	13.63	11.88	13.13
10,460.00	35.90	323.40	10,429.65	168.29	101.46	166.68	11.50	10.31	9.06
10,492.00	38.90	325.90	10,455.07	184.15	90.23	182.71	10.51	9.38	7.81
10,523.00	41.20	328.60	10,478.80	200.92	79.45	199.65	9.30	7.42	8.71
10,555.00	42.60	329.30	10,502.62	219.23	68.43	218.13	4.61	4.38	2.19
10,587.00	44.20	329.00	10,525.87	238.11	57.15	237.18	5.04	5.00	-0.94
10,621.00	46.70	330.80	10,549.72	259.07	45.01	258.33	8.26	7.35	5.29
10,653.00	49.30	333.10	10,571.13	280.06	33.84	279.49	9.72	8.13	7.19
10,685.00	53.80	337.10	10,591.03	302.79	23.32	302.38	17.13	14.06	12.50
10,716.00	58.50	340.70	10,608.30	326.80	14.08	326.54	17.97	15.16	11.61
10,748.00	62.10	343.10	10,624.15	353.22	5.45	353.09	13.00	11.25	7.50
10,780.00	64.10	344.00	10,638.63	380.59	-2.63	380.58	6.73	6.25	2.81
10,812.00	65.80	344.50	10,652.18	408.49	-10.49	408.60	5.50	5.31	1.56
10,843.00	67.20	346.00	10,664.54	435.98	-17.73	436.20	6.33	4.52	4.84
10,875.00	69.30	347.80	10,676.40	464.92	-24.46	465.25	8.39	6.56	5.63
10,907.00	71.30	348.40	10,687.19	494.40	-30.67	494.82	6.49	6.25	1.88
10,938.00	73.60	348.10	10,696.53	523.34	-36.69	523.85	7.48	7.42	-0.97
10,970.00	75.70	349.50	10,705.00	553.61	-42.68	554.21	7.80	6.56	4.38
11,002.00	78.90	352.10	10,712.04	584.42	-47.67	585.09	12.76	10.00	8.13
11,034.00	81.00	355.30	10,717.62	615.73	-51.12	616.46	11.83	6.56	10.00
11,066.00	84.30	357.60	10,721.72	647.40	-53.09	648.15	12.54	10.31	7.19
11,097.00	85.50	358.50	10,724.47	678.26	-54.14	679.02	4.83	3.87	2.90
11,129.00	85.40	358.20	10,727.01	710.14	-55.05	710.92	0.99	-0.31	-0.94
11,224.00	88.30	358.20	10,732.23	804.94	-58.03	805.76	3.05	3.05	0.00
11,319.00	91.80	358.00	10,732.15	899.88	-61.18	900.73	3.69	3.68	-0.21
11,415.00	91.80	357.60	10,729.13	995.76	-64.87	996.65	0.42	0.00	-0.42
11,510.00	91.70	357.70	10,726.23	1,090.63	-68.76	1,091.58	0.15	-0.11	0.11
11,605.00	89.80	358.60	10,724.99	1,185.57	-71.83	1,186.55	2.21	-2.00	0.95
11,700.00	89.50	358.40	10,725.57	1,280.54	-74.31	1,281.55	0.38	-0.32	-0.21
11,796.00	89.30	358.00	10,726.57	1,376.48	-77.33	1,377.53	0.47	-0.21	-0.42
11,891.00	88.80	357.70	10,728.15	1,471.40	-80.89	1,472.49	0.61	-0.53	-0.32
11,986.00	89.60	358.80	10,729.48	1,566.35	-83.79	1,567.47	1.43	0.84	1.16
12,081.00	88.10	357.20	10,731.38	1,661.26	-87.11	1,662.43	2.31	-1.58	-1.68
12,175.00	91.10	359.30	10,732.04	1,755.20	-89.98	1,756.40	3.90	3.19	2.23
12,270.00	90.90	358.60	10,730.38	1,850.17	-91.72	1,851.38	0.77	-0.21	-0.74
12,365.00	89.90	358.10	10,729.72	1,945.13	-94.45	1,946.37	1.18	-1.05	-0.53

Phoenix Technology Services
Survey Report



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Well:	4H	North Reference:	Grid
Wellbore:	Wellbore #1 Job #1412046	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patriot 5)	Database:	Compass 5000 GCR

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)	
12,460.00	88.70	0.70	10,730.88	2,040.11	-95.45	2,041.35	3.01	-1.26	2.74	
12,556.00	89.80	1.60	10,732.13	2,136.08	-93.52	2,137.28	1.48	1.15	0.94	
12,651.00	90.90	2.70	10,731.55	2,231.00	-89.96	2,232.14	1.64	1.16	1.16	
12,746.00	90.30	2.40	10,730.56	2,325.90	-85.73	2,326.96	0.71	-0.63	-0.32	
12,840.00	89.30	1.90	10,730.89	2,419.84	-82.20	2,420.83	1.19	-1.06	-0.53	
12,935.00	90.80	2.50	10,730.80	2,514.76	-78.56	2,515.69	1.70	1.58	0.63	
13,030.00	89.60	2.40	10,730.47	2,609.67	-74.50	2,610.52	1.27	-1.26	-0.11	
13,125.00	91.30	1.80	10,729.73	2,704.60	-71.02	2,705.38	1.90	1.79	-0.63	
13,221.00	91.10	1.10	10,727.72	2,800.55	-68.59	2,801.28	0.76	-0.21	-0.73	
13,316.00	90.20	0.30	10,726.64	2,895.54	-67.43	2,896.24	1.27	-0.95	-0.84	
13,411.00	90.80	359.50	10,725.81	2,990.53	-67.59	2,991.22	1.05	0.63	-0.84	
13,506.00	90.20	359.60	10,724.98	3,085.52	-68.34	3,086.22	0.64	-0.63	0.11	
13,601.00	89.50	359.10	10,725.23	3,180.52	-69.42	3,181.21	0.91	-0.74	-0.53	
13,696.00	91.90	0.90	10,724.07	3,275.50	-69.42	3,276.18	3.16	2.53	1.89	
13,791.00	91.20	0.60	10,721.50	3,370.45	-68.17	3,371.11	0.80	-0.74	-0.32	
13,887.00	90.40	0.20	10,720.16	3,466.44	-67.50	3,467.07	0.93	-0.83	-0.42	
13,982.00	89.90	0.30	10,719.91	3,561.44	-67.09	3,562.05	0.54	-0.53	0.11	
14,078.00	89.20	0.00	10,720.66	3,657.44	-66.84	3,658.04	0.79	-0.73	-0.31	
14,173.00	91.00	1.00	10,720.50	3,752.43	-66.01	3,753.00	2.17	1.89	1.05	
14,268.00	90.20	0.50	10,719.50	3,847.41	-64.76	3,847.96	0.99	-0.84	-0.53	
14,363.00	89.40	0.00	10,719.83	3,942.41	-64.35	3,942.93	0.99	-0.84	-0.53	
14,458.00	92.10	359.70	10,718.59	4,037.39	-64.60	4,037.91	2.86	2.84	-0.32	
14,554.00	91.50	359.50	10,715.58	4,133.34	-65.27	4,133.86	0.66	-0.63	-0.21	
14,649.00	91.10	359.20	10,713.42	4,228.31	-66.35	4,228.83	0.53	-0.42	-0.32	
14,744.00	90.80	358.60	10,711.85	4,323.28	-68.17	4,323.82	0.71	-0.32	-0.63	
14,839.00	90.70	358.20	10,710.60	4,418.24	-70.82	4,418.80	0.43	-0.11	-0.42	
14,934.00	89.80	357.80	10,710.19	4,513.18	-74.14	4,513.78	1.04	-0.95	-0.42	
15,029.00	88.90	357.60	10,711.27	4,608.09	-77.95	4,608.75	0.97	-0.95	-0.21	
15,124.00	88.10	357.10	10,713.75	4,702.96	-82.34	4,703.67	0.99	-0.84	-0.53	
15,165.00	88.40	356.90	10,715.00	4,743.88	-84.49	4,744.62	0.88	0.73	-0.49	
Final Phoenix MWD Survey										
15,218.00	88.40	356.90	10,716.48	4,796.78	-87.35	4,797.56	0.00	0.00	0.00	
Projection to TD										

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,320.00	9,314.94	100.22	178.74	Tie-in to Scientific Gyro
9,798.00	9,792.88	99.48	186.17	First Phoenix MWD Survey
15,165.00	10,715.00	4,743.88	-84.49	Final Phoenix MWD Survey
15,218.00	10,716.48	4,796.78	-87.35	Projection to TD

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Wellbore:	Wellbore #1 Job #1412046	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Patriot 5)	Database:	Compass 5000 GCR

Checked By: _____ Approved By: _____ Date: _____

NADEL AND GUSSMAN PERMIAN, L.L.C.

601 N. Marienfeld, Suite 508

Midland, TX 79701

Office: (432) 682-4429

Fax: (432) 682-4325

April 6, 2015

HOBBSOCD

APR 09 2015

RECEIVED

State of New Mexico
Oil Conservation Division
Attn: Paul Kautz
1625 N. French Dr.
Hobbs, NM 88240

RE: Completion Reports
Raptor West 3 State #4H
API: 30-025-42173
Sec 3-T19S-R34E
Lea County, NM

Enclosed please find the following documents:

- Form C-102
- Form C-103
- Form C-104
- Form C-105
- Certified Deviation Report
- Certified Directional Survey
- CBL Log

Should you have any questions, please give me a call.

Thank you for your help,



Sarah Presley
Regulatory Analyst

Enc