

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB No 1004-0137
Expires: October 31, 2014

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NM 58815, NM 113407 & NM 130858
6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE – Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.
N/A

8. Well Name and No.
PARKWAY 19-18 FEDERAL COM #1H

9. API Well No.
30-015-42545

10. Field and Pool or Exploratory Area
TURKEY TRACK; BONE SPRING

11. County or Parish, State
EDDY, NM

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
NADEL AND GUSSMAN PERMIAN, LLC.

3a. Address
601 N. MARIENFELD, SUITE 208
MIDLAND, TX 79701

3b. Phone No. (include area code)
(432) 682-4429

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
150' FSL, 330' FWL, SEC. 19, T-19-S, R-30-E

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
	☒ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

INCREASE WELL MEASURED DEPTH FROM 12,986' TO 15,629'. ADDING ACREAGE IN SECTION 18 (SEE PLAT). TOTAL ACRES 235.14.

CHANGE WELL NAME TO PARKWAY 19-18 FEDERAL COM #1H

Prop. Code 313547

Original COA Still Applies

Accepted for record

NMOCD

tes
9/29/14

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 29 2014

RECEIVED



14 I hereby certify that the foregoing is true and correct Name (Printed/Typed)

SARAH PRESLEY

Title REGULATORY ANALYST

Signature

Sarah Presley

Date 07/29/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Sarah Presley

From: Scott Grifo
Sent: Friday, July 18, 2014 7:43 AM
To: Sarah Presley
Cc: Jason Goss
Subject: FW: Parkway permit

Please see below.

Scott Grifo

New Mexico Land Manager
Nadel and Gussman Permian
Tel: (432)682-4429
Fax: (432)682-4325
sgrifo@naguss.com

From: Muhlinghause, Meg [<mailto:Meg.Muhlinghause@dvn.com>]
Sent: Thursday, July 17, 2014 5:46 PM
To: Scott Grifo
Subject: RE: Parkway permit

Devon understands that Nadel and Gussman Permian has submitted an APD for the Parkway 19-18 Fed Com 1H well located in the W/2W/2 of Section 19-19S-30E and W/2SW/4 of Section 18-19S-30E, all in Eddy County, NM. Please be advised that Devon is agreeable to Nadel and Gussman including the W/2SW/4 of Section 18-19S-30E, Eddy County, NM of Devon's acreage in BLM Lease number NMNM-130858, in the Project Area for this well. Should you have any questions or need anything additional, please feel free to contact me.

Thanks,
Meg

Meg Muhlinghause
Sr. Land Advisor - Permian New Mexico
Devon Energy Production Company, LP
333 West Sheridan Avenue, OKC, OK 73102
405-228-4416 direct
405-552-8113 fax
meg.muhlinghause@dvn.com

From: Scott Grifo [<mailto:sgrifo@naguss.com>]
Sent: Thursday, July 17, 2014 1:49 PM
To: Muhlinghause, Meg
Subject: FW: Parkway permit

Meg,

Will you please shoot over a quick note stating that we have Devon's permission to add your acreage to our Parkway? I am still working on the JOA but should have it to you shortly.

Thanks,

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 30-015-42545	Pool Code	Pool Name Turkey Track; Bone Spring
Property Code 313547	Property Name PARKWAY 19-18 Federal Com	Well Number 1H
OGRID No. 155615	Operator Name NADEL AND GUSSMAN PERMIAN, LLC	Elevation 3361'

Surface Location									
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
4/M	19	19-S	30-E		150	SOUTH	330	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
4/M	18	19-S	30-E		2310	SOUTH	330	WEST	EDDY

Dedicated Acres 235.14	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

	BOTTOM HOLE LOCATION Y=603757.7 N X=596991.7 E CORNER COORDINATES TABLE A - Y=604086.8' N, X=596662.7' E B - Y=604089.9' N, X=597940.6' E C - Y=596174.3' N, X=597961.5' E D - Y=596172.2' N, X=596667.4' E GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=596322.8 N X=596996.8 E LAT. = 32.32.638998" N LONG. = 104.018231" W	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: <i>[Signature]</i> Date: _____ Printed Name: Jason Goss E-mail Address: jgoss@naguss.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. JANUARY 6, 2013 Date of Survey: _____ Signature: <i>[Signature]</i> Professional Surveyor: RONALD J. EIDSON NEW MEXICO REGISTERED 3239 Certification Number: 12641 Professional Surveyor: 3239 LSL: _____ JWSC W O: 14 13 0639
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Nadel and Gussman Permian, L.L.C.
601 N. Marienfeld, Suite 508
Midland, Texas 79701

July 16, 2014

UNITED STATES DEPARTMENT OF INTERIOR

Bureau of Land Management
Carlsbad Field Office
620 E. Greene Street
Carlsbad, NM 88220

RE: STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land, or portion thereof, as described below:

Lease Name: Parkway 19 Federal Com #1H

Lease Number: Federal Lease NMNM 113407, NMNM 58815 and NMNM 130858

Legal Description of Land: S18 & 19, T-19-S R-30-E

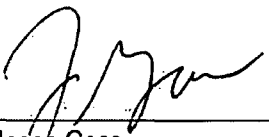
Lease Covers: NMNM 113407: 79.210 Acres
NM 58815: 396.130 Acres
NMNM130858: 238.38 Acres

Formations: Bone Springs

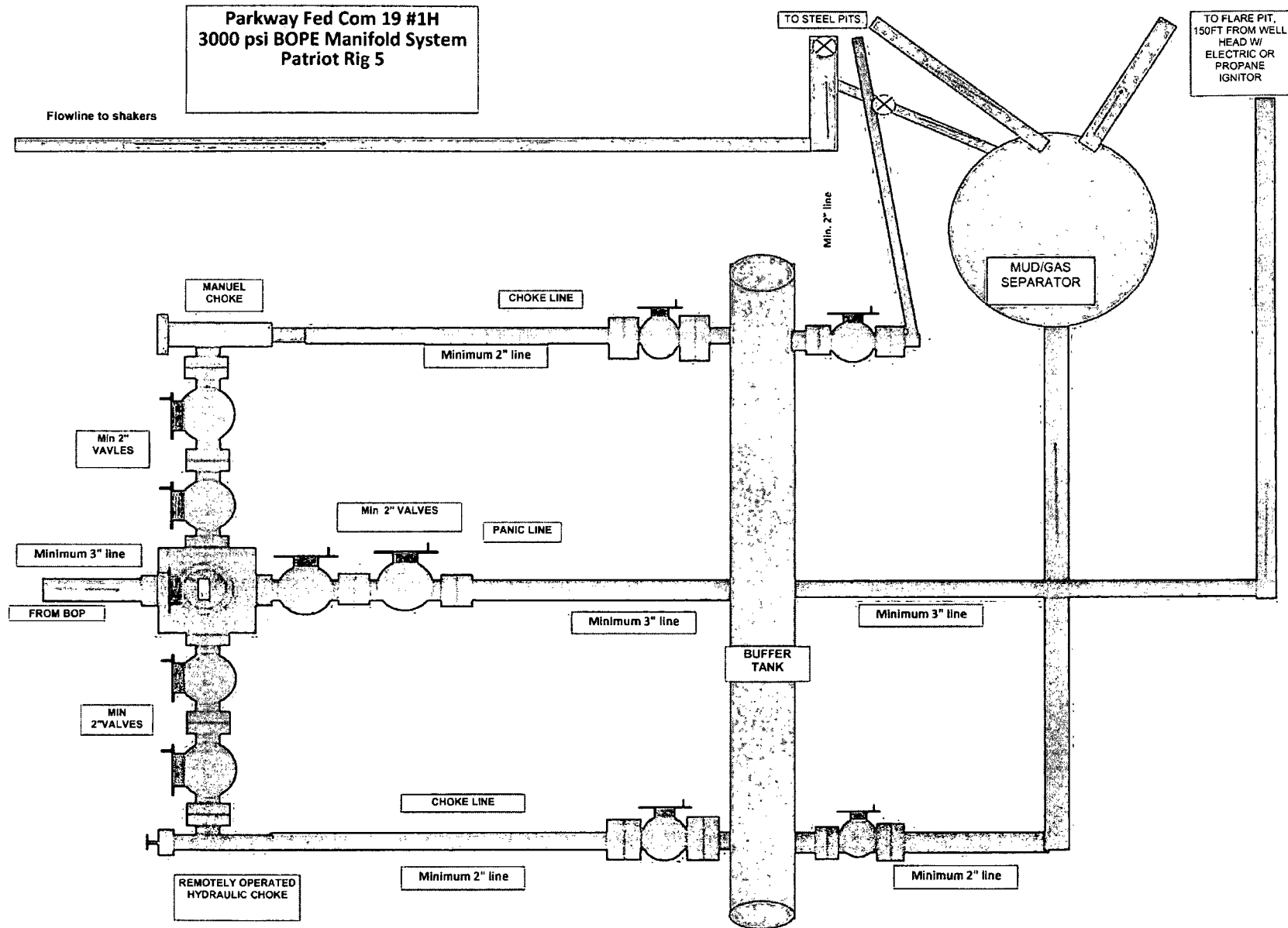
Bond Coverage: Blanket Statewide

BLM Bond File Number: NM2812

Surface Ownership: Federal



Jason Goss
Drilling Engineer



Exact manifold configuration may vary

**DRILLING AND OPERATIONS PLAN
NADEL AND GUSSMAN PERMIAN, L.L.C.
PARKWAY 19 FEDERAL COM #1H**

Surface: 150' FSL & 330' FWL, UL M, Sec 19, T-19-S, R-30-E
BHL: 2310' FSL & 330' FWL, Lot 4, Sec 20, T-19-S, R-30-E
Sec 19, T-19-S, R-30-E
Eddy County, New Mexico

1. Geological Surface Formation: **Quaternary Alluvium, vegetated dunes.**
2. Horizontal Oil well. No pilot hole, depth to Fresh Water 372'. **Elevation 3361'**

3. **TOPS OF IMPORTANT GEOLOGICAL MARKERS: TVD**

Rustler	372'
Top Salado	400'
Base Salado	1410'
Yates	1570'
Capitan Reef	1870'
Delaware	3542'
Bone Springs Ls	6055'
1 st Bone Springs Sand	7440'
2 nd Bone Springs Sand	8140'
Bone Springs Horizontal Target	8400'

4. **Estimated Depth of Anticipated/Possible Water, Oil or Gas:**

0-372' ground water
1750'-3500' water

All zones from top of Cherry Canyon to Bone Springs have potential for oil, gas and water

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water will be protected by setting 20" casing at 400' and circulating cement back to surface, all other intervals will be isolated by the 13-3/8" intermediate, 9 5/8" intermediate and 5-1/2" production casing.

5. Proposed Casing Program

HOLE SIZE	CASING SIZE	WT./GRADE	THREAD/COLLAR	SETTING DEPTH	TOP CEMENT
26"	20"	94# J-55	8rd STC	400'	Surface
17.5"	13 3/8" (new)	54.5# J-55	8rd STC	1,750'	Surface
12.25"	9 5/8" (new)	40# J-55	8rd LTC	3,500'	1,300'
8.75" & 7-7/8"	5-1/2" (new)	17# P-110	8rd LTC	15,692'	3,000'

*8.75" From 0 → KOP**7 7/8" From KOP → TD*

MINIMUM SAFETY FACTORS:

BURST 1.125

COLLAPSE 1.125

TENSION 1.8

ALL CASING WILL BE NEW API APPROVED

CEMENT PROGRAM-ALL CEMENT BLENDS WILL BE TESTED TO BLM MINIMUM REQUIREMENTS.

- A. 20" SURFACE CEMENT TO SURFACE **100% EXCESS OVER CALCULATED**
 850 SACKS CLASS "C"+2%CACL+.25# CELLO-FLAKE+.25% DEFOAMER, 14.8 PPG, 1.35 YIELD, 6.34 GAL/SK
- B. 13 3/8" INTERMEDIATE CEMENT TO SURFACE **50% EXCESS OVER CALCULATED**
 LEAD: 800 SACKS CLASS "C" 35/65 +6% BENTONITE+5% SALT+.25% DEFOAMER 12.8 PPG, 1.9 YIELD, 11.2 GAL/SK
 TAIL: 250 SACKS CLASS "C"+2%CACL+.25# CELLO-FLAKE+.25% DEFOAMER, 14.8 PPG, 1.35 YIELD, 6.34 GAL/SK
- C. 9 5/8" 2ND INTERMEDIATE CEMENT TO 1,250' **50% EXCESS OVER CALCULATED**
 LEAD 790 SACKS CLASS "C" 35/65 +6% BENTONITE+5% SALT+.25% DEFOAMER 12.8 PPG, 1.9 YIELD, 11.2 GAL/SK
 TAIL 200 SACKS CLASS "C" + .25% DEFOAMER, 14.8 PPG, 1.33 YIELD, 6.34 GAL/SK
- D. 5-1/2" PRODUCTION CEMENT TO 3,000' **50% OVER CALCULATED.**
See Original COA
CMT Tie-back 50' Above Capitan Reef
 LEAD: 1300 SACKS 50:50 POZ:CLASS H, +5% SALT, +10% BENTONITE, .4% PF153, +.2%PF13, + 3PPS PF 42 +.125 PPS PF29, +.4 PPS PF46. 11.9 PPG, 2.48 YIELD, 13.876 GALLONS/SACK MIX WATER.
 TAIL: 1465 SACKS PVL ACIDSOLID + 30 CACL,+.5%PF174, +.7% PF606, +.2% PF154, +.4%PF813 +.4PPS PF46. 13.0 PPG, 1.87 YIELD, 9.517 GALLONS/SACK MIX WATER.

- ABOVE CEMENT VOLUMES COULD BE REVISED BASED ON CALIPER MEASUREMENTS
- 5-1/2" PRODUCTION STRING WILL TIE BACK A MINIMUM OF 500' INTO 9-5/8" CASING

SPECIFICATIONS FOR PRESSURE CONTROL EQUIPMENT: (EXHIBIT #5)

Nipple up on 20" and 13-3/8" casing with a 20" annular preventer and test to 50% of the working pressure by third party before drilling out, the remaining equipment will be tested to 2000psi. 3,000# WP Double Ram BOP and 3,000 annular will be installed after running the 9-5/8". Pressure test will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOP's will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use 9-5/8" BOP will be tested to 3000# and the annular to 1500# with a third party testing company before drilling below each shoe. If operations last more than 30 days from 1st test, will test again as per BLM Onshore Oil and Gas order #2.

MUD PROGRAM:

Spud and drill 26" surface hole with **fresh water (8.4 to 8.7 ppg)** to a depth of approx 400'. Control lost circulation with paper and LCM pills. Viscosity 28-55, no fluid loss control. Fresh water gel sweeps.

Drill 17 1/2" Intermediate hole with **Brine (10.0 ppg)** to a depth of approx 1750'. Control lost circulation with paper and LCM pills. Viscosity 28-55, no fluid loss control. Fresh water gel sweeps.

Drill 12 1/4" 2nd intermediate hole from 1750' to 3,500' with **Fresh Water (8.4 to 8.7 ppg)**. Control lost circulation with paper and LCM pills. Viscosity 28-30, no fluid loss control. Fresh water gel sweeps.

Drill 8 3/4" production hole from 3,500' to 8,673 (TD of curve), 7-7/8" from 8,673 to TD with **fresh water (8.4 to 8.7 ppg) or cut brine (8.4 to 9.0 ppg)**. Control lost circulation with paper and LCM pills. From 6,000' to TD (8.7 to 9.0 ppg), control filtrate with starch and water loss additives. Clean hole with pre-hydrated freshwater sweeps as necessary. System properties: viscosity 34-44, fluid loss <20 ml/30min.

All necessary mud products for weight addition and fluid loss control will be on location at all times. Mud program subject to change due to hole conditions.

Mud monitoring system: Mud will be maintained and checked daily for mud weight, viscosity, API water loss, pH, etc. Additional electronic monitoring will include a pit volume totalizer to monitor mud volume in active system, pump rate, and mud return flow percentage. H₂S monitors and alarms will be located on rig floor, shale shakers, and mud tanks (see rig plat). Gas chromatograph with monitor hydrocarbon gas content of mud from 3,000' to TD. Third party corrosion company will utilize H₂S/oxygen scavengers to monitor for corrosion and limit damage to tubulars.

Auxiliary Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having the appropriate connections will be on the rig floor at all times
- C. Hydrogen Sulfide detection equipment will be in operation after drilling out the 20" casing shoe until the 5 1/2" Casing is run and set and rigging down operations have begun.

TESTING, LOGGING & CORING PROGRAM:

- a. Testing: No DST's are planned.
- b. Open hole logs are possible at TD of vertical hole (KOP, 7,921').
 - 1. Halliburton Triple Combo: Dual lateral log and gamma ray, compensated neutron, caliper log.
- c. Mud logging will take place from 3,000ft to TD 10ft samples
- d. Gyro survey will be run at KOP of 7,921'
- e. MWD (directional) and LWD (gamma) surveys will be taken from KOP (7921') to TD 15,692ft

POTENTIAL HAZARDS:

No significant hazards are expected, no abnormal pressures or temperatures are expected, **Expected pressure gradient will be that of .433 psi/ft or less approx. 3637 psi at 8,400 TVD**, expected temperature at 8,400 TVD is **120 deg F**. Lost circulation is likely in surface hole 0-400. No H₂S is expected, but the operator will utilize a 3rd party H₂S monitoring package from 400' to TD. If H₂S is encountered the operator will comply with the provisions of onshore oil and gas order no 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well.

ANTICIPATED STARTING DATE & DURATION:

Nadel & Gussman Permian, LLC anticipates drilling operations to begin around July 30, 2014 and completed in approximately 45 days. An additional 15 days will be needed for completion activities. Road and location construction will begin after the BLM has approved the APD.

Jason Goss, Drilling Engineer
Nadel & Gussman Permian, LLC

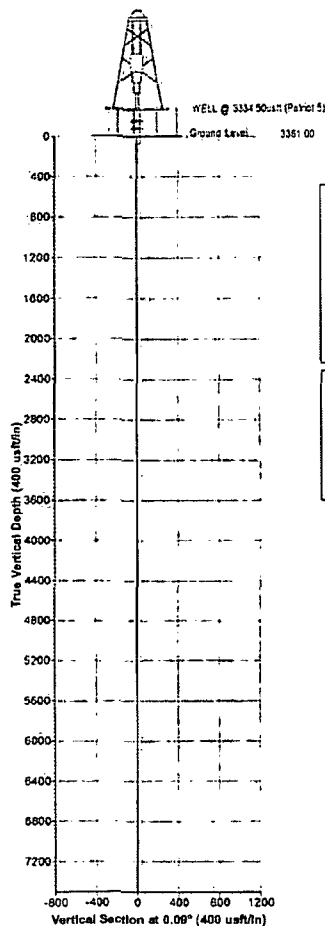
Date

Nadel and Gussman Permian, LLC

Project: Eddy County, New Mexico (NAD27)
 Site: Parkway 19 Federal
 Well: 1H
 Wellbore: Wellbore #1 Job #1411119
 Design: Plan #1 06-25-14
 Rig: Patriot 5



Azimuths to Grid North
 True North: -0.17°
 Magnetic North: 7.29°
 Magnetic Field
 Strength: 48515.0nT
 Dip Angle: 80.42°
 Date: 08/24/2014
 Model: IGRF2010_14



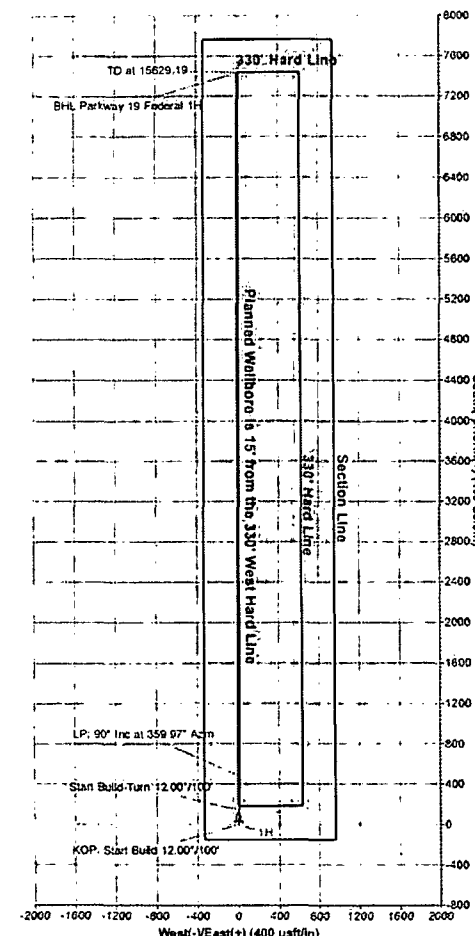
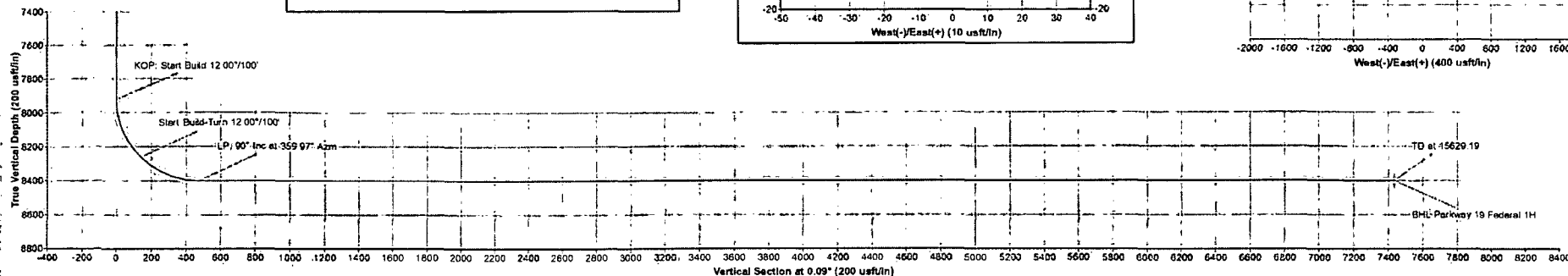
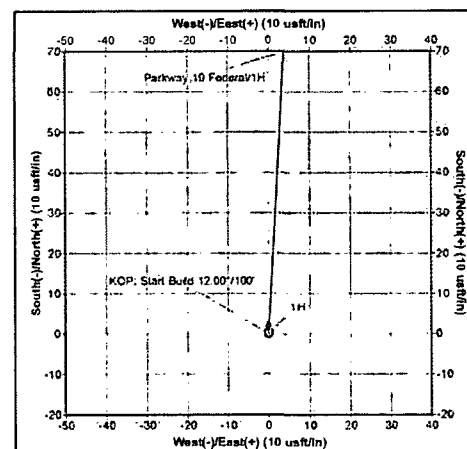
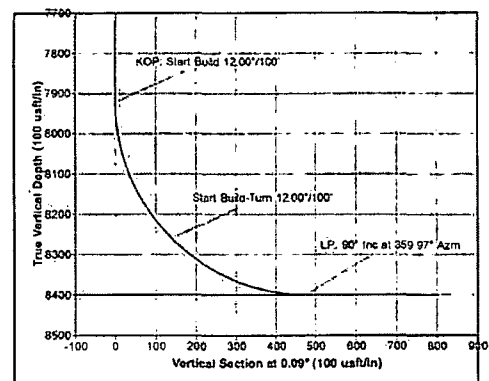
WELL DETAILS									
	+N/S	+E/W	Nothing	Ground Level	3351.00	Latitude	Longitude		
	0.00	0.00	596322.80	596996.80	32° 38' 20.39455 N	104° 1' 5.83137 W			

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Diag	TFace	VFace	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	7222.23	0.00	0.00	7222.23	3.00	0.00	0.00	0.00	0.00		KOP Start Build 12.00°/100'
3	8297.23	45.00	3.15	8259.65	139.63	7.65	12.00	3.15	139.65		Start Build-Turn 12.00°/100'
4	8672.97	50.00	359.97	8460.00	477.78	15.27	12.00	-4.50	477.80		LP 90° Inc at 359.97° Azm
5	15923.19	80.00	359.97	8400.00	7434.00	11.08	0.00	0.00	7434.01	BHL Parkway 19 Federal 1H	TD at 15629.19

DESIGN TARGET DETAILS									
Name	TVD	+N/S	+E/W	Nothing	Easting	Latitude	Longitude	Shape	
BHL Parkway 19 Federal 1H	8400.00	7434.00	11.08	603756.80	597007.90	32° 38' 33.95780 N	104° 1' 5.24355 W	Point	

Map System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone Name: New Mexico East 3001
 Local Origin: Well 1H, Grid North
 Latitude: 32° 38' 20.39455 N
 Longitude: 104° 1' 5.83137 W
 Grid East: 596996.80
 Grid North: 596322.80
 Scale Factor: 1.000
 Geomagnetic Model: IGRF2010_14
 Sample Date: 24-Jun-14
 Magnetic Declination: 7.45°
 Dip Angle from Horizontal: 80.42°
 Magnetic Field Strength: 48515
 To convert a Magnetic Direction to a Grid Direction Add 7.29°
 To convert a Magnetic Direction to a True Direction, Add 7.45° East
 To convert a True Direction to a Grid Direction, Subtract 0.17°

LEGEND
 — Plan #1 06-25-14



Nadel and Gussman Permian, LLC

Eddy County, New Mexico (NAD27)

Parkway 19 Federal

1H

Wellbore #1 Job #1411119

Plan: Plan #1 06-25-14

Standard Planning Report

25 June, 2014



Phoenix Technology Services
Planning Report



Database:	Compass 5000 GCR DB	Local Co-ordinate Reference:	Well 1H
Company:	Nadel and Gussman Permian, LLC	TVD Reference:	WELL @ 3384.50usft (Patriot 5)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	WELL @ 3384.50usft (Patriot 5)
Site:	Parkway 19 Federal	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1 Job #1411119		
Design:	Plan #1 06-25-14		

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	Parkway 19 Federal		
Site Position:	Northing:	596,322.80 usft	Latitude: 32° 38' 20.39455 N
From: Map	Easting:	596,996.80 usft	Longitude: 104° 1' 5.63137 W
Position Uncertainty: 0.00 usft	Slot Radius: 13-3/16 "		Grid Convergence: 0.17 °

Well	1H		
Well Position	+N/-S	0.00 usft	Northing: 596,322.80 usft
	+E/-W	0.00 usft	Easting: 596,996.80 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Ground Level:	3,361.00 usft

Wellbore	Wellbore #1 Job #1411119				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010_14	06/24/14	7.45	60.42	48,515

Design	Plan #1 06-25-14			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	0.09

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
7,922.23	0.00	0.00	7,922.23	0.00	0.00	0.00	0.00	0.00	0.00	
8,297.23	45.00	3.15	8,259.85	139.63	7.68	12.00	12.00	0.00	3.15	
8,672.97	90.00	359.97	8,400.00	477.78	15.27	12.00	11.98	-0.85	-4.50	
15,629.19	90.00	359.97	8,400.00	7,434.00	11.10	0.00	0.00	0.00	0.00	BHL Parkway 19 Fed

Phoenix Technology Services
Planning Report



Database:	Compass 5000 GCR DB	Local Co-ordinate Reference:	Well 1H
Company:	Nadel and Gussman Permian, LLC	TVD Reference:	WELL @ 3384.50usft (Patriot 5)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	WELL @ 3384.50usft (Patriot 5)
Site:	Parkway 19 Federal	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1 Job #1411119		
Design:	Plan #1 06-25-14		

Planned 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
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00

Phoenix Technology Services
Planning Report



Database:	Compass 5000 GCR DB	Local Co-ordinate Reference:	Well 1H
Company:	Nadel and Gussman Permian, LLC	TVD Reference:	WELL @ 3384.50usft (Patriot 5)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	WELL @ 3384.50usft (Patriot 5)
Site:	Parkway 19 Federal	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1 Job #1411119		
Design:	Plan #1 06-25-14		

Planned 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)
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,922.23	0.00	0.00	7,922.23	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start Build 12.00°/100'									
7,925.00	0.33	3.15	7,925.00	0.01	0.00	0.01	12.00	12.00	0.00
7,950.00	3.33	3.15	7,949.98	0.81	0.04	0.81	12.00	12.00	0.00
7,975.00	6.33	3.15	7,974.89	2.91	0.16	2.91	12.00	12.00	0.00
8,000.00	9.33	3.15	7,999.66	6.31	0.35	6.31	12.00	12.00	0.00
8,025.00	12.33	3.15	8,024.21	11.00	0.61	11.00	12.00	12.00	0.00
8,050.00	15.33	3.15	8,048.48	16.97	0.93	16.97	12.00	12.00	0.00
8,075.00	18.33	3.15	8,072.41	24.20	1.33	24.20	12.00	12.00	0.00
8,100.00	21.33	3.15	8,095.92	32.66	1.80	32.67	12.00	12.00	0.00
8,125.00	24.33	3.15	8,118.96	42.35	2.33	42.35	12.00	12.00	0.00
8,150.00	27.33	3.15	8,141.46	53.22	2.93	53.23	12.00	12.00	0.00
8,175.00	30.33	3.15	8,163.36	65.26	3.59	65.27	12.00	12.00	0.00
8,200.00	33.33	3.15	8,184.59	78.43	4.32	78.43	12.00	12.00	0.00
8,225.00	36.33	3.15	8,205.11	92.68	5.10	92.69	12.00	12.00	0.00
8,250.00	39.33	3.15	8,224.86	107.99	5.94	108.00	12.00	12.00	0.00
8,275.00	42.33	3.15	8,243.77	124.31	6.84	124.32	12.00	12.00	0.00
8,297.23	45.00	3.15	8,259.85	139.63	7.68	139.65	12.00	12.00	0.00
Start Build-Turn 12.00°/100'									
8,300.00	45.33	3.11	8,261.80	141.60	7.79	141.61	12.00	11.96	-1.32
8,325.00	48.32	2.80	8,278.90	159.80	8.73	159.82	12.00	11.97	-1.25
8,350.00	51.31	2.51	8,295.03	178.88	9.62	178.89	12.00	11.97	-1.14
8,375.00	54.31	2.25	8,310.14	198.78	10.44	198.79	12.00	11.97	-1.05
8,400.00	57.30	2.01	8,324.19	219.44	11.21	219.45	12.00	11.97	-0.97
8,425.00	60.29	1.78	8,337.14	240.81	11.92	240.82	12.00	11.97	-0.91
8,450.00	63.29	1.57	8,348.96	262.83	12.56	262.84	12.00	11.98	-0.86
8,475.00	66.28	1.36	8,359.61	285.43	13.14	285.45	12.00	11.98	-0.81

Phoenix Technology Services
Planning Report



Database:	Compass 5000 GCR DB	Local Co-ordinate Reference:	Well 1H
Company:	Nadel and Gussman Permian, LLC	TVD Reference:	WELL @ 3384.50usft (Patriot 5)
Project:	Eddy County, New Mexico (NAD27)	MD Reference:	WELL @ 3384.50usft (Patriot 5)
Site:	Parkway 19 Federal	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1 Job #1411119		
Design:	Plan #1 06-25-14		

Planned 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)
8,500.00	89.28	1.17	8,369.06	308.57	13.65	308.59	12.00	11.98	-0.78
8,525.00	72.27	0.98	8,377.29	332.17	14.09	332.19	12.00	11.98	-0.75
8,550.00	75.27	0.80	8,384.28	356.17	14.47	356.19	12.00	11.98	-0.72
8,575.00	78.26	0.63	8,390.00	380.50	14.77	380.52	12.00	11.98	-0.70
8,600.00	81.26	0.46	8,394.44	405.10	15.00	405.12	12.00	11.98	-0.69
8,625.00	84.25	0.29	8,397.60	429.89	15.16	429.91	12.00	11.98	-0.68
8,650.00	87.25	0.12	8,399.45	454.82	15.25	454.84	12.00	11.98	-0.67
8,672.97	90.00	359.97	8,400.00	477.78	15.27	477.80	12.00	11.98	-0.67
LP: 90° Inc at 359.97° Azm									
8,700.00	90.00	359.97	8,400.00	504.81	15.25	504.83	0.00	0.00	0.00
8,800.00	90.00	359.97	8,400.00	604.81	15.19	604.83	0.00	0.00	0.00
8,900.00	90.00	359.97	8,400.00	704.81	15.13	704.83	0.00	0.00	0.00
9,000.00	90.00	359.97	8,400.00	804.81	15.07	804.83	0.00	0.00	0.00
9,100.00	90.00	359.97	8,400.00	904.81	15.01	904.83	0.00	0.00	0.00
9,200.00	90.00	359.97	8,400.00	1,004.81	14.95	1,004.83	0.00	0.00	0.00
9,300.00	90.00	359.97	8,400.00	1,104.81	14.89	1,104.83	0.00	0.00	0.00
9,400.00	90.00	359.97	8,400.00	1,204.81	14.83	1,204.83	0.00	0.00	0.00
9,500.00	90.00	359.97	8,400.00	1,304.81	14.77	1,304.83	0.00	0.00	0.00
9,600.00	90.00	359.97	8,400.00	1,404.81	14.71	1,404.83	0.00	0.00	0.00
9,700.00	90.00	359.97	8,400.00	1,504.81	14.65	1,504.83	0.00	0.00	0.00
9,800.00	90.00	359.97	8,400.00	1,604.81	14.59	1,604.83	0.00	0.00	0.00
9,900.00	90.00	359.97	8,400.00	1,704.81	14.53	1,704.83	0.00	0.00	0.00
10,000.00	90.00	359.97	8,400.00	1,804.81	14.47	1,804.83	0.00	0.00	0.00
10,100.00	90.00	359.97	8,400.00	1,904.81	14.41	1,904.83	0.00	0.00	0.00
10,200.00	90.00	359.97	8,400.00	2,004.81	14.35	2,004.83	0.00	0.00	0.00
10,300.00	90.00	359.97	8,400.00	2,104.81	14.29	2,104.83	0.00	0.00	0.00
10,400.00	90.00	359.97	8,400.00	2,204.81	14.23	2,204.83	0.00	0.00	0.00
10,500.00	90.00	359.97	8,400.00	2,304.81	14.17	2,304.83	0.00	0.00	0.00
10,600.00	90.00	359.97	8,400.00	2,404.81	14.11	2,404.83	0.00	0.00	0.00
10,700.00	90.00	359.97	8,400.00	2,504.81	14.05	2,504.83	0.00	0.00	0.00
10,800.00	90.00	359.97	8,400.00	2,604.81	13.99	2,604.83	0.00	0.00	0.00
10,900.00	90.00	359.97	8,400.00	2,704.81	13.93	2,704.83	0.00	0.00	0.00
11,000.00	90.00	359.97	8,400.00	2,804.81	13.87	2,804.83	0.00	0.00	0.00
11,100.00	90.00	359.97	8,400.00	2,904.81	13.81	2,904.83	0.00	0.00	0.00
11,200.00	90.00	359.97	8,400.00	3,004.81	13.75	3,004.83	0.00	0.00	0.00
11,300.00	90.00	359.97	8,400.00	3,104.81	13.69	3,104.83	0.00	0.00	0.00
11,400.00	90.00	359.97	8,400.00	3,204.81	13.63	3,204.83	0.00	0.00	0.00
11,500.00	90.00	359.97	8,400.00	3,304.81	13.57	3,304.83	0.00	0.00	0.00
11,600.00	90.00	359.97	8,400.00	3,404.81	13.51	3,404.83	0.00	0.00	0.00
11,700.00	90.00	359.97	8,400.00	3,504.81	13.45	3,504.83	0.00	0.00	0.00
11,800.00	90.00	359.97	8,400.00	3,604.81	13.39	3,604.83	0.00	0.00	0.00
11,900.00	90.00	359.97	8,400.00	3,704.81	13.33	3,704.83	0.00	0.00	0.00
12,000.00	90.00	359.97	8,400.00	3,804.81	13.27	3,804.83	0.00	0.00	0.00
12,100.00	90.00	359.97	8,400.00	3,904.81	13.21	3,904.83	0.00	0.00	0.00
12,200.00	90.00	359.97	8,400.00	4,004.81	13.15	4,004.83	0.00	0.00	0.00
12,300.00	90.00	359.97	8,400.00	4,104.81	13.09	4,104.83	0.00	0.00	0.00
12,400.00	90.00	359.97	8,400.00	4,204.81	13.03	4,204.83	0.00	0.00	0.00
12,500.00	90.00	359.97	8,400.00	4,304.81	12.97	4,304.83	0.00	0.00	0.00
12,600.00	90.00	359.97	8,400.00	4,404.81	12.91	4,404.83	0.00	0.00	0.00
12,700.00	90.00	359.97	8,400.00	4,504.81	12.85	4,504.83	0.00	0.00	0.00
12,800.00	90.00	359.97	8,400.00	4,604.81	12.79	4,604.83	0.00	0.00	0.00
12,900.00	90.00	359.97	8,400.00	4,704.81	12.73	4,704.83	0.00	0.00	0.00
13,000.00	90.00	359.97	8,400.00	4,804.81	12.67	4,804.82	0.00	0.00	0.00
13,100.00	90.00	359.97	8,400.00	4,904.81	12.61	4,904.82	0.00	0.00	0.00

Phoenix Technology Services
Planning Report



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Project:	Eddy County, New Mexico (NAD27)	MD Reference:	WELL @ 3384.50usft (Patriot 5)
Site:	Parkway 19 Federal	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1 Job #1411119		
Design:	Plan #1 06-25-14		

Planned 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)
13,200.00	90.00	359.97	8,400.00	5,004.81	12.55	5,004.82	0.00	0.00	0.00
13,300.00	90.00	359.97	8,400.00	5,104.81	12.49	5,104.82	0.00	0.00	0.00
13,400.00	90.00	359.97	8,400.00	5,204.81	12.43	5,204.82	0.00	0.00	0.00
13,500.00	90.00	359.97	8,400.00	5,304.81	12.37	5,304.82	0.00	0.00	0.00
13,600.00	90.00	359.97	8,400.00	5,404.81	12.31	5,404.82	0.00	0.00	0.00
13,700.00	90.00	359.97	8,400.00	5,504.81	12.25	5,504.82	0.00	0.00	0.00
13,800.00	90.00	359.97	8,400.00	5,604.81	12.19	5,604.82	0.00	0.00	0.00
13,900.00	90.00	359.97	8,400.00	5,704.81	12.13	5,704.82	0.00	0.00	0.00
14,000.00	90.00	359.97	8,400.00	5,804.81	12.07	5,804.82	0.00	0.00	0.00
14,100.00	90.00	359.97	8,400.00	5,904.81	12.01	5,904.82	0.00	0.00	0.00
14,200.00	90.00	359.97	8,400.00	6,004.81	11.95	6,004.82	0.00	0.00	0.00
14,300.00	90.00	359.97	8,400.00	6,104.81	11.89	6,104.82	0.00	0.00	0.00
14,400.00	90.00	359.97	8,400.00	6,204.81	11.83	6,204.82	0.00	0.00	0.00
14,500.00	90.00	359.97	8,400.00	6,304.81	11.77	6,304.82	0.00	0.00	0.00
14,600.00	90.00	359.97	8,400.00	6,404.81	11.71	6,404.82	0.00	0.00	0.00
14,700.00	90.00	359.97	8,400.00	6,504.81	11.65	6,504.82	0.00	0.00	0.00
14,800.00	90.00	359.97	8,400.00	6,604.81	11.59	6,604.82	0.00	0.00	0.00
14,900.00	90.00	359.97	8,400.00	6,704.81	11.53	6,704.82	0.00	0.00	0.00
15,000.00	90.00	359.97	8,400.00	6,804.81	11.47	6,804.82	0.00	0.00	0.00
15,100.00	90.00	359.97	8,400.00	6,904.81	11.41	6,904.82	0.00	0.00	0.00
15,200.00	90.00	359.97	8,400.00	7,004.81	11.35	7,004.82	0.00	0.00	0.00
15,300.00	90.00	359.97	8,400.00	7,104.81	11.29	7,104.82	0.00	0.00	0.00
15,400.00	90.00	359.97	8,400.00	7,204.81	11.23	7,204.82	0.00	0.00	0.00
15,500.00	90.00	359.97	8,400.00	7,304.81	11.17	7,304.82	0.00	0.00	0.00
15,600.00	90.00	359.97	8,400.00	7,404.81	11.11	7,404.82	0.00	0.00	0.00
15,629.19	90.00	359.97	8,400.00	7,434.00	11.10	7,434.01	0.00	0.00	0.00
TD at 15629.19									

Design Targets

Target Name	Dip Angle (°)	Dip Dir (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
hit/miss target									
- Shape									
BHL Parkway 19 Federa	0.00	0.00	8,400.00	7,434.00	11.10	603,756.80	597,007.90	32° 39' 33.95780 N	104° 1' 5.24358 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
7,922.23	7,922.23	0.00	0.00	KOP: Start Build 12.00°/100'
8,297.23	8,259.85	139.63	7.68	Start Build-Turn 12.00°/100'
8,672.97	8,400.00	477.78	15.27	LP: 90° Inc at 359.97° Azm
15,629.19	8,400.00	7,434.00	11.10	TD at 15629.19

