

DISTRICT I
1626 N. French Dr., Hobbs, NM 88240
Phone (505) 393-8161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 748-1283 Fax: (505) 748-9720

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 87505
Phone (505) 476-3460 Fax: (505) 476-3462

HOBBS OCD

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

JAN 28 2014

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

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-41339	Pool Code 22900	Pool Name Eunice; BLI-TU-DR, North
Property Code	Property Name NORTHEAST DRINKARD UNIT	Well Number 863
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3414

Surface Location

UL or lot No. G	Section 22	Township 21 S	Range 37 E	Lot Idn.	Feet from the 1440	North/South line NORTH	Feet from the 2205	East/West line EAST	County LEA
--------------------	---------------	------------------	---------------	----------	-----------------------	---------------------------	-----------------------	------------------------	---------------

Bottom Hole Location If Different From Surface

UL or lot No. B	Section 22	Township 21 S	Range 37 E	Lot Idn.	Feet from the 1205	North/South line NORTH	Feet from the 2195	East/West line EAST	County 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

N 537311.06 E 903354.13 (NAD-83)	SURFACE LOCATION Lat - N 32°28'03.76" Long - W 103°08'58.12" NMSPC - N 535909.33 E 906454.38 (NAD-83) Lat - N 32°28'03.32" Long - W 103°08'56.43" NMSPC - N 535849.64 E 865270.07 (NAD-27)	BOTTOM HOLE Lat - N 32°28'06.08" Long - W 103°08'58.00" NMSPC - N 536144.52 E 906461.78 (NAD-83) Lat - N 32°28'05.65" Long - W 103°08'56.31" NMSPC - N 536084.83 E 865277.45 (NAD-27)	N 537379.31 E 908642.53 (NAD-83)	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 undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Michelle Cooper 7-30-13 Signature Date Michelle Cooper Printed Name michelle.cooper@apachecorp.com 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 of Surveyor Professional Surveyor 7977 Certificate No. Gary L. Jones 7977 BASIN SURVEYS 28928
--	--	---	--	---

JAN 29 2014

Phoenix Technology Services
SURVEY DATA CERTIFICATION

JAN 28 2014



RECEIVED

PHOENIX JOB NUMBER

1311551

OPERATOR

Apache Corporation

WELL NAME

NEDU #863

COUNTY & STATE

Lea County, NM

API WELL NUMBER

30-025-41339

PROPOSED DIRECTION

1:8

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
1,200 ft	1,199.96 ft	0.76	208.42	-6.36 ft	1.41 ft	GYRO

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
5-Dec-13	1,381 ft	0.7	236.5

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
8-Dec-13	6,811 ft	2.9	341

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
8-Dec-13	6,865 ft	2.9	341

Antonio Thompkins

PRINT YOUR NAME ABOVE

Antonio Thompkins

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	6.57
DECLINATION OR GRID	GRID

12/8/2013

TODAY'S DATE

MWD SUPERVISOR 1

Antonio Thompkins

DIRECTIONAL DRILLER 1

Mike Chambers

MWD SUPERVISOR 2

0

DIRECTIONAL DRILLER 2

Brandon Jenkins

1805 Brittmore Road

Houston, Texas 77043

(713)3370609 (Voice), (713)337-0599 (Fax)



Apache Corporation

Lea County, NM (NAD83 NME)

NEDU

#863

WB1/Job #1311551

HOBBS OCD

JAN 28 2014

RECEIVED

Survey: Phoenix MWD Surveys

Phoenix Final Survey Report

11 December, 2013



Company:	Apache Corporation	Local Co-ordinate Reference:	Well #863
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB @ 3432.00usft (Silver Oak 5)
Site:	NEDU	MD Reference:	KB @ 3432.00usft (Silver Oak 5)
Well:	#863	North Reference:	Grid
Wellbore:	WB1/Job #1311551	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 5)	Database:	GCR DB

Project		Lea County, NM (NAD83 NME)	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		NEDU			
Site Position:		Northing:	549,246.17 usft	Latitude:	32° 30' 15.55234 N
From:	Map	Easting:	907,874.81 usft	Longitude:	103° 8' 39.81023 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.64 °

Well	#863					
Well Position	+N/-S	0.00 usft	Northing:	535,909.33 usft	Latitude:	32° 28' 3.76029 N
	+E/-W	0.00 usft	Easting:	906,454.38 usft	Longitude:	103° 8' 58.12230 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,414.00 usft

Wellbore						WB1/Job #1311551																													
Magnetics						Model Name						Sample Date						Declination						Dip Angle						Field Strength					
																		(°)						(°)						(nT)					
						BGGM2013						11/11/13						7.21						60.41						48,559					

Design		Surveys (Silver Oak 5)			
Audit Notes:					
Version:		1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:		Depth From (TVD)	+N/-S	+E/-W	Direction
		(usft)	(usft)	(usft)	(°)
		0.00	0.00	0.00	1.80

Survey Program	Date	12/11/13
From	To	
(usft)	(usft)	
Survey (Wellbore)	Tool Name	Description
1,381.00	6,865.00	Phoenix MWD Surveys (WB1/Job #131155)
		MWD
		MWD - Standard

Survey	MD	Inc	Azi (azimuth)	TVD	N/S	E/W	V. Sec	DLeg
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)
	1,200.00	0.76	208.42	1,199.96	-6.36	1.41	-6.31	0.00
Tie-on to Gyro	1,381.00	0.70	236.50	1,380.95	-8.02	-0.08	-8.02	0.20
First Phoenix MWD Survey	1,569.00	0.60	257.10	1,568.94	-8.88	-2.00	-8.94	0.13
	1,757.00	0.40	312.20	1,756.93	-8.66	-3.45	-8.76	0.26
	1,944.00	0.60	336.60	1,943.92	-7.32	-4.32	-7.45	0.15
	2,131.00	2.60	23.40	2,130.85	-2.53	-3.02	-2.62	1.19
	2,319.00	4.20	17.50	2,318.51	7.95	0.74	7.97	0.87
	2,506.00	3.40	5.00	2,505.10	20.01	3.28	20.10	0.61
	2,694.00	2.80	2.30	2,692.82	30.15	3.95	30.26	0.33
	2,881.00	2.50	359.70	2,879.62	38.79	4.11	38.90	0.17



Phoenix Technology Services

Phoenix Final Survey Report



Company:	Apache Corporation	Local Co-ordinate Reference:	Well #863
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB @ 3432.00usft (Silver Oak 5)
Site:	NEDU	MD Reference:	KB @ 3432.00usft (Silver Oak 5)
Well:	#863	North Reference:	Grid
Wellbore:	WB1/Job #1311551	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Silver Oak 5)	Database:	GCR DB

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
3,068.00	1.70	5.80	3,066.50	45.63	4.37	45.74	0.44
3,255.00	2.70	1.50	3,253.36	52.79	4.77	52.92	0.54
3,443.00	1.90	2.70	3,441.20	60.33	5.03	60.46	0.43
3,630.00	1.50	353.60	3,628.12	65.86	4.91	65.98	0.26
3,818.00	2.80	6.60	3,815.99	72.87	5.16	72.99	0.73
4,005.00	2.60	5.50	4,002.78	81.63	6.09	81.78	0.11
4,193.00	4.00	0.20	4,190.46	92.43	6.52	92.59	0.76
4,380.00	4.30	359.40	4,376.97	105.96	6.47	106.11	0.16
4,567.00	4.70	11.10	4,563.40	120.49	7.87	120.68	0.53
4,756.00	3.60	7.00	4,751.90	133.98	10.09	134.23	0.60
4,943.00	3.20	341.10	4,938.58	144.74	9.11	144.96	0.84
5,131.00	3.10	341.60	5,126.30	154.53	5.81	154.64	0.06
5,318.00	3.30	347.60	5,313.01	164.59	3.06	164.60	0.21
5,506.00	2.20	6.60	5,500.79	173.46	2.31	173.44	0.75
5,693.00	2.10	13.20	5,687.66	180.36	3.50	180.38	0.14
5,881.00	2.90	9.40	5,875.48	188.40	5.07	188.47	0.43
6,068.00	2.50	8.70	6,062.27	197.10	6.46	197.21	0.21
6,256.00	2.10	10.40	6,250.12	204.54	7.70	204.68	0.22
6,444.00	2.10	9.90	6,437.99	211.32	8.91	211.50	0.01
6,631.00	3.50	345.90	6,624.77	220.23	8.11	220.38	0.96
6,811.00	2.90	341.00	6,804.49	229.87	5.29	229.92	0.37
Last Phoenix MWD Survey							
6,865.00	2.90	341.00	6,858.42	232.45	4.40	232.48	0.00
Projection to TD							

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,200.00	1,199.96	-6.36	1.41	Tie-on to Gyro
1,381.00	1,380.95	-8.02	-0.08	First Phoenix MWD Survey
6,811.00	6,804.49	229.87	5.29	Last Phoenix MWD Survey
6,865.00	6,858.42	232.45	4.40	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------



January 22, 2014

Oil Conservation Division
State of New Mexico
1625 N. French Drive
District 1 - Hobbs
Hobbs, New Mexico 88240

HOBBS OCD

JAN 28 2014

RECEIVED

Attention: Regulatory Department

Re: Apache Corporation
NEDU #863
Lea County, NM
API #30-025-41339
Job No. 1311551

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	
Antonio Thompkins	863	1,381	6,811	12/05/13	12/08/13	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,

Dolly Bush

Dolly Bush
Operations Administrator

Certified mail receipt number: 7012 3050 0001 3227 2894