

HOBBS OCD

DISTRICT I
1025 N. French Dr., Hobbs, NM 88240
Phone (505) 393-0161 Fax: (505) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 746-1263 Fax: (505) 746-0720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6176 Fax: (505) 334-6176

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3400 Fax: (505) 476-3482

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 38-25-41278	Pool Code 22900	Pool Name Eunice, BLI-TU-DR, North
Property Code	Property Name NORTHEAST DRINKARD UNIT	Well Number 727
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3415

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	15	21 S	37 E		1240	SOUTH	1855	EAST	LEA

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
0	15	21 S	37 E		1240	SOUTH	1970	EAST	LEA

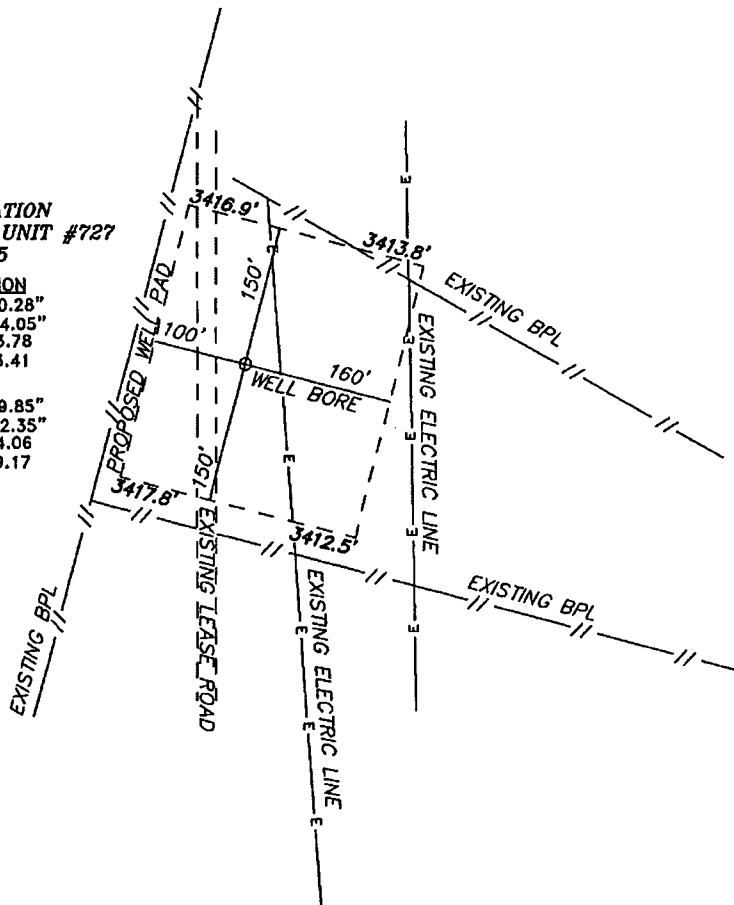
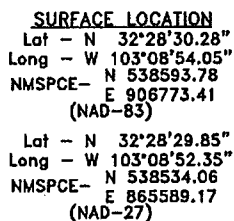
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

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

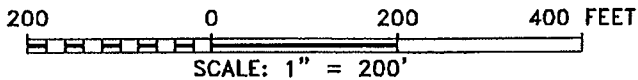
N 542589.48 E 903307.29 NAD 83	N 542659.09 E 908582.20 NAD 83	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including 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. <u>Michelle Cooper</u> 7-24-13 Signature Date <u>Michelle Cooper</u> Printed Name <u>michelle.cooper@apachecorp.com</u> Email Address
BOTTOM HOLE Lot - N 32°28'30.31" Long - W 103°08'55.39" NMSPCE - N 538595.35 E 906658.42 (NAD-83) Lot - N 32°28'29.88" Long - W 103°08'53.70" NMSPCE - N 538535.63 E 865474.18 (NAD-27)	SURFACE LOCATION Lot - N 32°28'30.28" Long - W 103°08'54.05" NMSPCE - N 538593.78 E 906773.41 (NAD-83) Lot - N 32°28'29.85" Long - W 103°08'52.35" NMSPCE - N 538534.06 E 865589.17 (NAD-27)	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 Professional Surveyor 7877 Certificate No. Gary L. Jones: 7977 BASIN SURVEYS 28925

DEC 04 2013

SECTION 15, TOWNSHIP 21 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



EUNICE NM, IS LOCATED ± 2 MILES TO THE SOUTH OF LOCATION.



Directions to Location:

FROM ST 18 AND JONES CITY ROAD GO WEST ON
JONES CITY .2 MILES THEN GO NORTH .3 MILES
THEN TURN EAST GO .2 MILES TO BEGIN ROAD ON
SOUTH.

BASIN SURVEYS P.O. BOX 1786 — HOBBS, NEW MEXICO

Drawn By: D. JONES

Disk: DAJ 28925

APACHE CORPORATION

REF: NORTHEAST DRINKARD UNIT #727/ WELL PAD TOPO

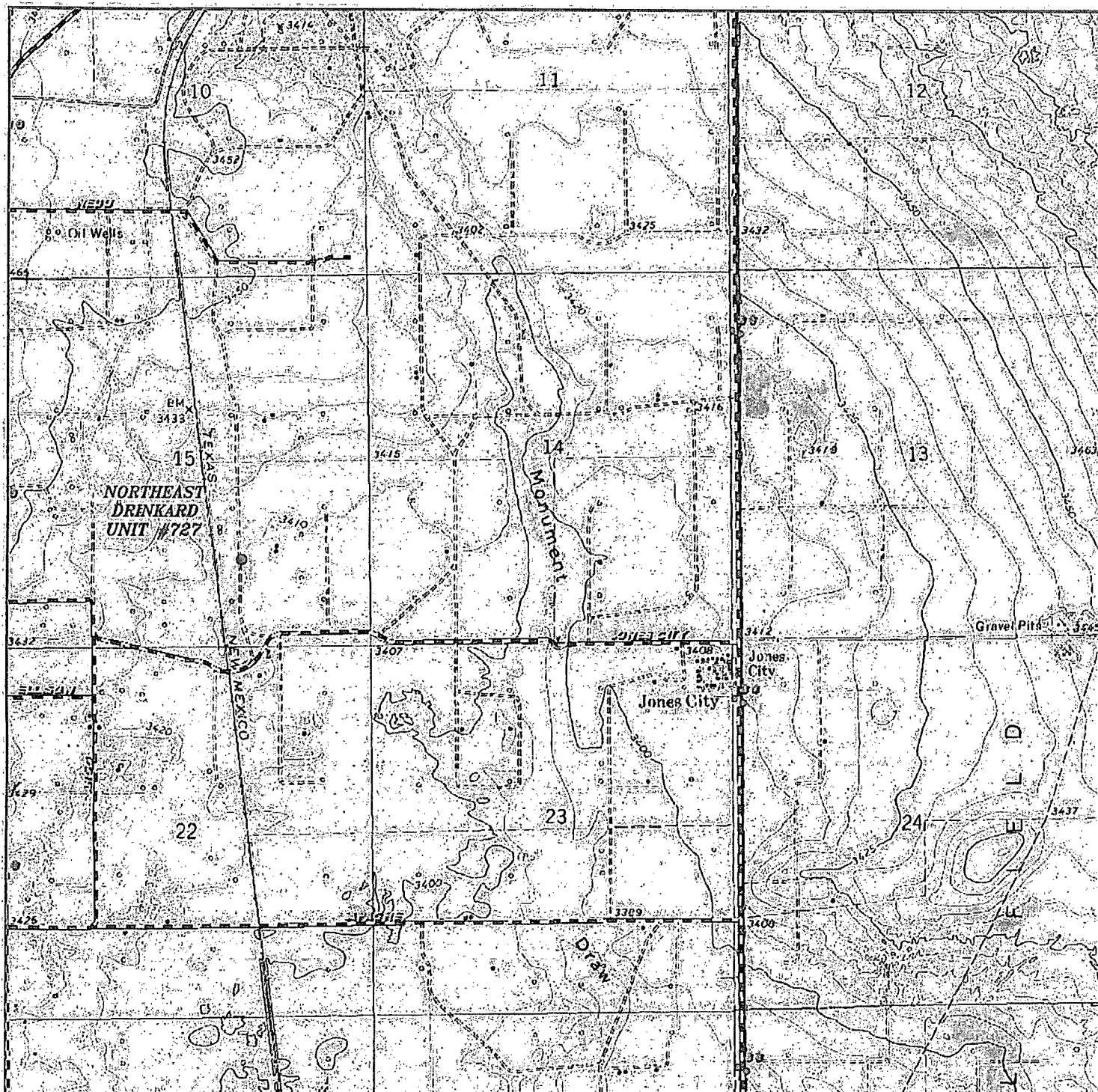
THE NORTHEAST DRINKARD UNIT #727 LOCATED 1240'

FROM THE SOUTH LINE AND 1855' FROM THE EAST LINE OF

SECTION 15, TOWNSHIP 21 SOUTH, RANGE 37 EAST,

N.M.P.M., LEA COUNTY, NEW MEXICO.

Sheet 1 of 1 Sheets



NORTHEAST DRINKARD UNIT #727
 Located 1240' FSL and 1855' FEL
 Section 15, Township 21 South, Range 37 East,
 N.M.P.M., LEA County, New Mexico.

basin
surveys
 focused on excellence
 in the oilfield

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

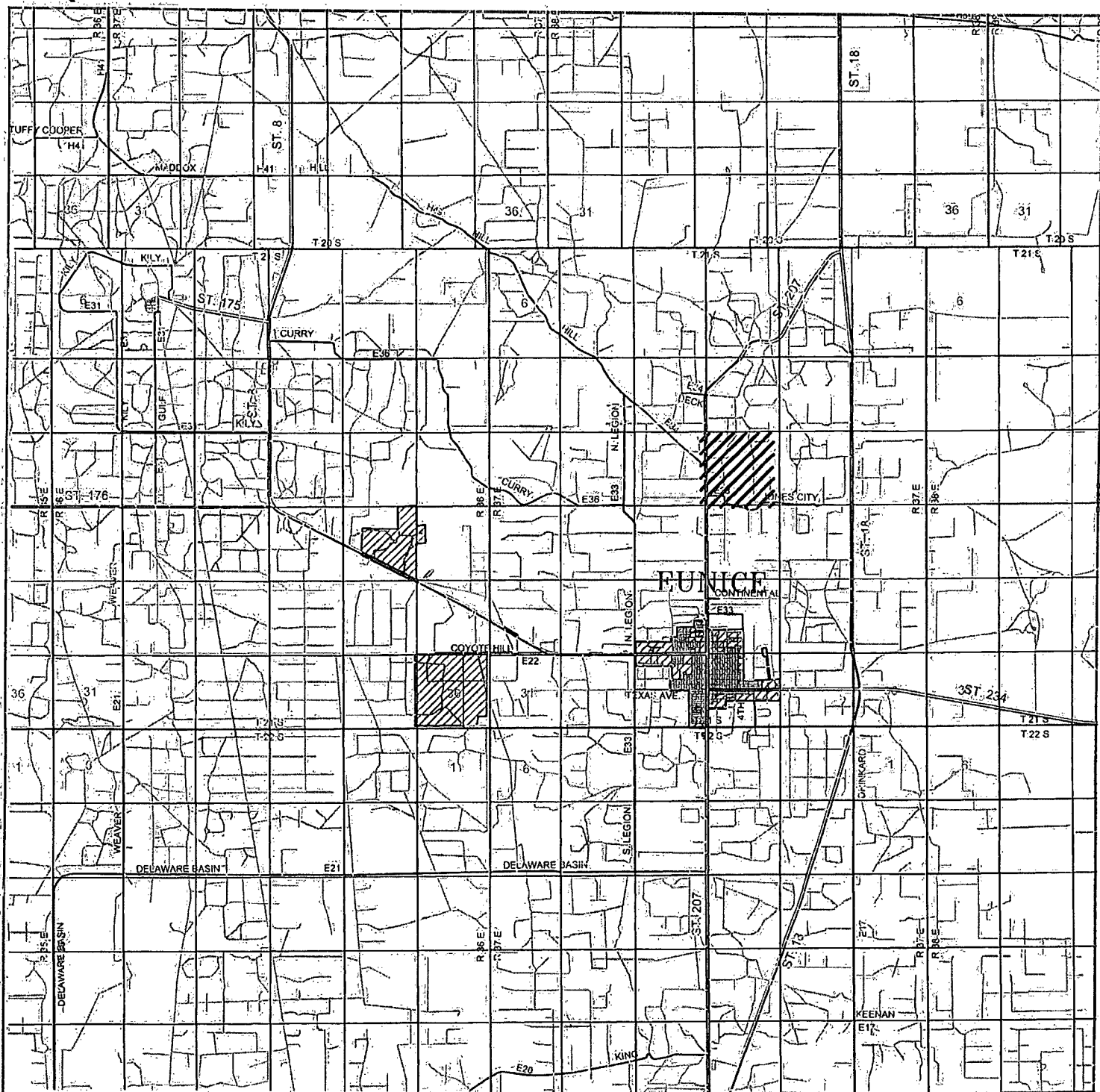
W.O. Number: DAJ 28925

Survey Date: 06-28-2013

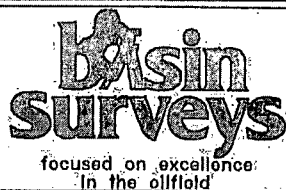
Scale: 1" = 2000'

Date: 07-02-2013

APACHE
CORPORATION



NORTHEAST DRINKARD UNIT #727
 Located 1240' FSL and 1855' FEL
 Section 15, Township 21 South, Range 37 East,
 N.M.P.M., LEA County, New Mexico.



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

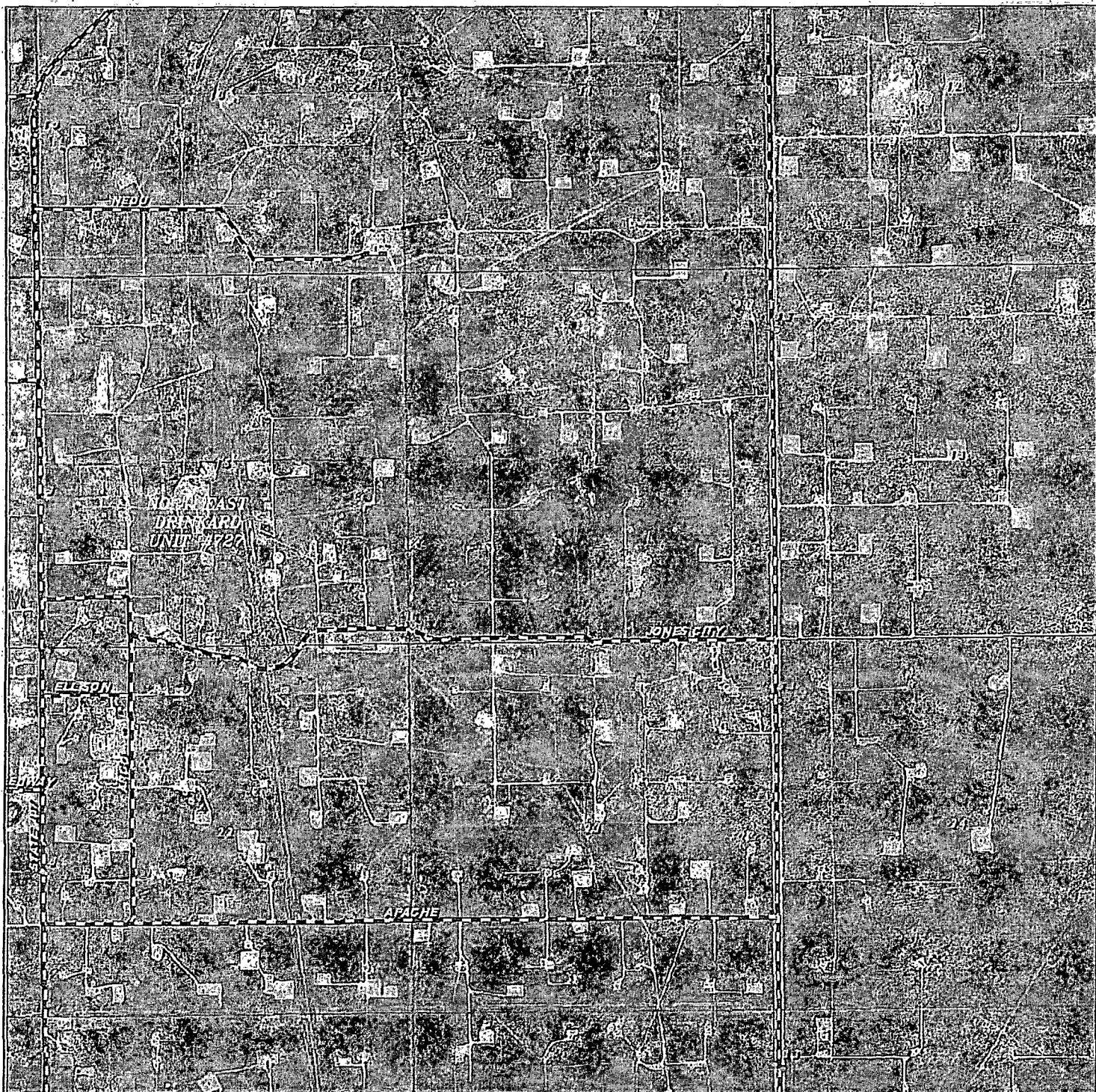
W.O. Number: DAJ 28925

Survey Date: 06-28-2013

Scale: 1" = 2 Miles

Date: 07-02-2013

**APACHE
 CORPORATION**



NORTHEAST DRINKARD UNIT #727
 Located 1240' FSL and 1855' FEL
 Section 15, Township 21 South, Range 37 East,
 N.M.P.M., LEA County, New Mexico.

basin
surveys

focused on excellence
 in the oilfield

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

W.O. Number: DAJ 28925

Scale: 1" = 2000'

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

APACHE
CORPORATION

HOBBS OCD

NOV 20 2013

RECEIVED

Apache Corporation

Lea County, NM (NAD83 NME)

NEDU

#727D

WB1/Job #1311427

Survey: Phoenix MWD Survey

Phoenix Final Survey Report

29 October, 2013

Phoenix Technology Services

Phoenix Final Survey Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well #727D
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB @ 3426.00usft (Capstar 120)
Site:	NEDU	MD Reference:	KB @ 3426.00usft (Capstar 120)
Well:	#727D	North Reference:	Grid
Wellbore:	WB1/Job #1311427	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 120)	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	#727D					
Well Position	+N/-S	0.00 usft	Northing:	538,593.78 usft	Latitude:	32° 28' 30.28401 N
	+E/-W	0.00 usft	Easting:	906,773.41 usft	Longitude:	103° 8' 54.05115 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,415.00 usft

Wellbore						WB1/Job #1311427																													
Magnetics						Model Name						Sample Date						Declination (°)						Dip Angle (°)						Field Strength (nT)					
						IGRF2010_14						10/21/13						7.11						60.43						48,577					

Design:	Surveys (Capstar 120)			
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	271.47

Survey Program		Date 10/29/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,390.00	6,875.00	Phoenix MWD Survey (WB1/Job #131142)	MWD	MWD - Standard

Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)
1,254.00	0.15	67.50	1,253.98	3.61	3.79	-3.70	0.00
Tie-on to Gyro							
1,390.00	0.20	118.50	1,389.98	3.56	4.16	-4.07	0.12
First Phoenix MWD Survey							
1,475.00	0.10	168.30	1,474.98	3.42	4.31	-4.22	0.18
1,561.00	1.10	249.10	1,560.97	3.05	3.55	-3.47	1.27
1,646.00	1.20	248.20	1,645.96	2.43	1.96	-1.90	0.12
1,731.00	1.20	277.30	1,730.94	2.21	0.25	-0.20	0.71
1,817.00	0.80	275.90	1,816.93	2.39	-1.24	1.30	0.47
1,902.00	1.70	283.90	1,901.90	2.75	-3.05	3.12	1.08
1,987.00	2.30	261.30	1,986.85	2.80	-5.96	6.03	1.15
2,073.00	2.20	259.20	2,072.79	2.23	-9.29	9.34	0.15

Phoenix Technology Services

Phoenix Final Survey Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well #727D
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB @ 3426.00usft (Capstar 120)
Site:	NEDU	MD Reference:	KB @ 3426.00usft (Capstar 120)
Well:	#727D	North Reference:	Grid
Wellbore:	WB1/Job #1311427	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 120)	Database:	GCR DB

Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	
2,158.00	2.10	258.70	2,157.73	1.62	-12.42	12.45	0.12	
2,243.00	1.90	256.00	2,242.68	0.97	-15.31	15.33	0.26	
2,329.00	1.50	253.00	2,328.64	0.30	-17.77	17.77	0.48	
2,414.00	2.40	279.00	2,413.59	0.25	-20.59	20.59	1.46	
2,499.00	2.30	282.70	2,498.52	0.90	-24.01	24.03	0.21	
2,584.00	2.10	278.10	2,583.46	1.50	-27.22	27.25	0.31	
2,670.00	1.70	278.50	2,669.41	1.91	-30.04	30.08	0.47	
2,755.00	1.60	269.50	2,754.37	2.09	-32.48	32.52	0.33	
2,841.00	1.60	260.70	2,840.34	1.88	-34.86	34.90	0.29	
2,926.00	1.30	262.60	2,925.31	1.57	-36.99	37.02	0.36	
3,011.00	1.20	269.60	3,010.29	1.43	-38.83	38.86	0.21	
3,097.00	1.00	263.30	3,096.28	1.34	-40.48	40.50	0.27	
3,182.00	1.00	259.30	3,181.26	1.12	-41.95	41.96	0.08	
3,267.00	0.70	250.00	3,266.25	0.80	-43.16	43.17	0.39	
3,353.00	0.70	298.30	3,352.25	0.87	-44.12	44.13	0.67	
3,437.00	0.90	254.60	3,436.24	0.94	-45.21	45.22	0.74	
3,522.00	1.00	246.40	3,521.23	0.46	-46.53	46.53	0.20	
3,608.00	1.20	279.90	3,607.21	0.32	-48.10	48.10	0.77	
3,694.00	0.90	264.30	3,693.20	0.41	-49.66	49.66	0.48	
3,778.00	0.80	278.10	3,777.19	0.42	-50.90	50.89	0.27	
3,863.00	0.90	269.40	3,862.18	0.50	-52.16	52.15	0.19	
3,948.00	0.80	263.90	3,947.17	0.43	-53.41	53.41	0.15	
4,033.00	1.50	280.70	4,032.15	0.57	-55.10	55.09	0.91	
4,119.00	1.40	268.70	4,118.13	0.76	-57.25	57.25	0.37	
4,204.00	1.50	266.60	4,203.10	0.67	-59.40	59.40	0.13	
4,290.00	1.20	259.20	4,289.08	0.43	-61.41	61.40	0.40	
4,375.00	1.40	260.80	4,374.05	0.10	-63.31	63.29	0.24	
4,461.00	1.30	264.40	4,460.03	-0.16	-65.32	65.29	0.15	
4,546.00	1.40	260.20	4,545.01	-0.43	-67.30	67.27	0.17	
4,632.00	1.30	255.60	4,630.98	-0.85	-69.28	69.24	0.17	
4,717.00	1.40	250.90	4,715.96	-1.43	-71.20	71.13	0.18	
4,803.00	1.20	256.70	4,801.94	-1.98	-73.06	72.99	0.28	
4,888.00	1.30	248.50	4,886.92	-2.54	-74.83	74.74	0.24	
4,973.00	1.10	252.80	4,971.90	-3.14	-76.50	76.40	0.26	
5,058.00	1.10	255.70	5,056.88	-3.58	-78.07	77.96	0.07	
5,144.00	1.50	274.90	5,142.86	-3.69	-80.00	79.87	0.68	
5,228.00	1.40	275.20	5,226.83	-3.50	-82.11	82.00	0.12	
5,314.00	1.60	281.80	5,312.80	-3.16	-84.33	84.23	0.31	
5,399.00	1.50	284.70	5,397.77	-2.64	-86.57	86.48	0.15	
5,484.00	1.30	282.00	5,482.75	-2.15	-88.59	88.51	0.25	
5,569.00	1.20	285.70	5,567.73	-1.71	-90.39	90.32	0.15	
5,655.00	1.20	286.10	5,653.71	-1.22	-92.12	92.06	0.01	
5,740.00	1.20	289.60	5,738.69	-0.67	-93.82	93.77	0.09	
5,826.00	1.20	292.60	5,824.67	-0.02	-95.50	95.46	0.07	
5,911.00	1.30	289.00	5,909.65	0.63	-97.23	97.21	0.15	

Phoenix Technology Services

Phoenix Final Survey Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well #727D
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB @ 3426.00usft (Capstar 120)
Site:	NEDU	MD Reference:	KB @ 3426.00usft (Capstar 120)
Well:	#727D	North Reference:	Grid
Wellbore:	WB1/Job #1311427	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 120)	Database:	GCR DB

Survey								
MD (usft)	Inc (°)	Azi. (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	
5,996.00	1.50	283.80	5,994.62	1.21	-99.22	99.22	0.28	
6,081.00	1.20	290.40	6,079.60	1.79	-101.14	101.15	0.40	
6,167.00	1.20	293.30	6,165.58	2.46	-102.81	102.84	0.07	
6,251.00	1.00	301.20	6,249.57	3.18	-104.24	104.29	0.30	
6,337.00	1.00	300.50	6,335.55	3.95	-105.53	105.60	0.01	
6,422.00	1.00	290.30	6,420.54	4.59	-106.87	106.95	0.21	
6,508.00	1.00	287.60	6,506.53	5.07	-108.29	108.38	0.05	
6,593.00	1.00	278.60	6,591.52	5.41	-109.73	109.83	0.18	
6,678.00	0.80	271.20	6,676.50	5.53	-111.05	111.16	0.27	
6,763.00	0.80	299.80	6,761.50	5.84	-112.16	112.27	0.46	
6,826.00	0.40	319.30	6,824.49	6.23	-112.69	112.81	0.70	
Last Phoenix MWD Survey								
6,875.00	0.40	319.30	6,873.49	6.49	-112.91	113.04	0.00	
Projection to TD								

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,254.00	1,253.98	3.61	3.79	Tie-on to Gyro	
1,390.00	1,389.98	3.56	4.16	First Phoenix MWD Survey	
6,826.00	6,824.49	6.23	-112.69	Last Phoenix MWD Survey	
6,875.00	6,873.49	6.49	-112.91	Projection to TD	

Checked By: _____ Approved By: _____ Date: _____

NOV 20 2013

PHOENIX TECHNOLOGY SERVICES SURVEY DATA CERTIFICATION



RECEIVED

PHOENIX JOB NUMBER 1311427

OPERATOR Apache Corporation

WELL NAME NEDU #727 (D)

COUNTY & STATE Lea County, New Mexico

API WELL NUMBER 30-025-41278

PROPOSED DIRECTION 270.78

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
1,254 ft	1,253.98 ft	0.15	67.5	3.61	3.79	Gyro

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
10/25/2013	1,390 ft	0.2	118.5

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
28-Oct-13	6,826 ft	0.4	319.3

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
28-Oct-13	6,875 ft	0.4	319.3

Tony Rogers

PRINT YOUR NAME ABOVE

Tony Rogers

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	Grid
DECLINATION OR GRID	6.47

10/28/2013

TODAY'S DATE

MWD SUPERVISOR 1 Tony Rogers

DIRECTIONAL DRILLER 1 John Barry

MWD SUPERVISOR 2 Cory Black

DIRECTIONAL DRILLER 2 Jackson John

1805 Brittmore Road

Houston, Texas 77043

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



**PHOENIX
TECHNOLOGY SERVICES**

November 15, 2013

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

HOBBS OCD

NOV 20 2013

RECEIVED

Attention: Regulatory Department

Re: Apache Corporation
NEDU #727D
Lea County, NM
API #30-025-41278
Job No. 1311427

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	
Tony Rogers	727D	1,390	6,826	10/25/13	10/28/13	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: 7011 1570 0001 4364 8875