

DISTRICT I
1825 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6181 Fax: (575) 393-0720

DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (505) 745-1233 Fax: (505) 745-9725

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 834-6178 Fax: (505) 834-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 475-3460 Fax: (505) 475-3462

HOBBS OCD

JUN 04 2013

RECEIVED

State of New Mexico
Energy, Minerals and 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 30-025-41037	Pool Code 23000	Pool Name Eunice/Monument: Grayburg San Andres
Property Code 302708	Property Name NMGSAU	Well Number 385
GRID No. 873	Operator Name APACHE CORPORATION	Elevation 3682'

Surface Location

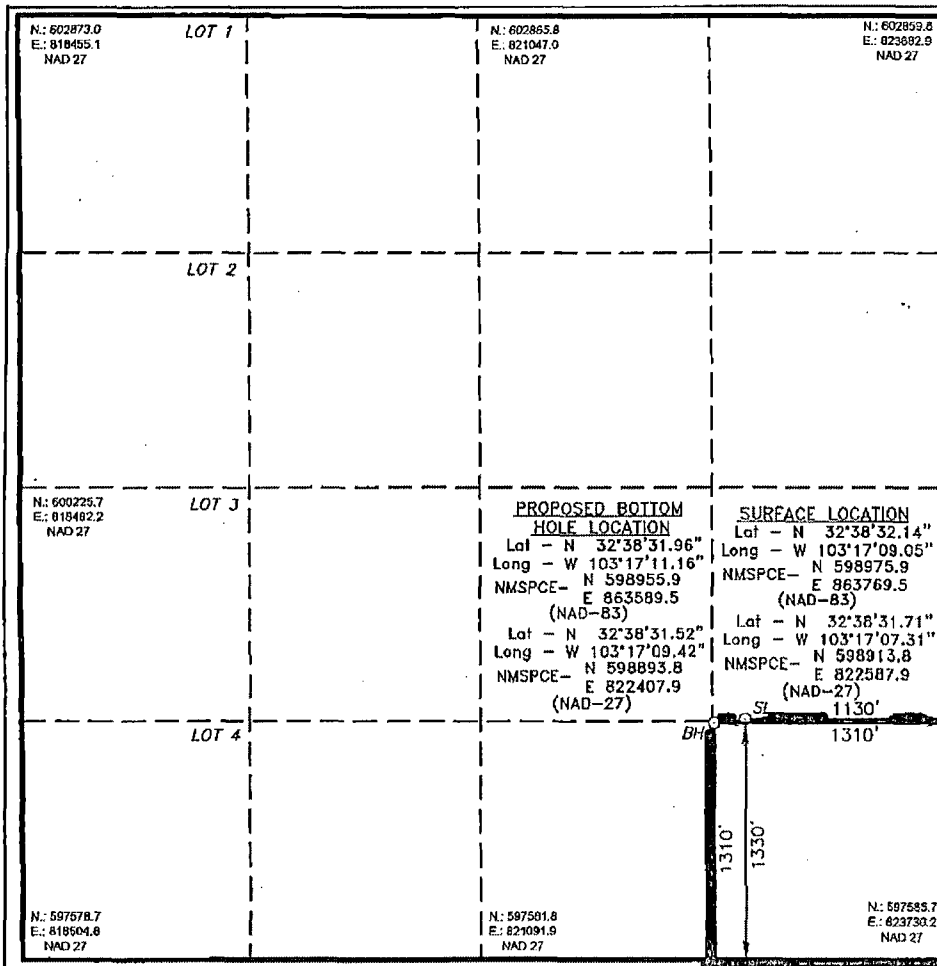
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	19	19 S	37 E		1330	SOUTH	1130	EAST	LEA

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
P	19	19 S	37 E		1310	SOUTH	1310	EAST	LEA

Dedicated Acres 40	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



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.

Vicki Brown 2/26/13
Signature Date
Vicki Brown
Printed Name
vicki.brown@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.

JANUARY L. JONES 2013
Date Signed
JANUARY L. JONES
Signature
7977
Professional Surveyor
Certificate No. **7977**
BASIN SURVEYS **27976**

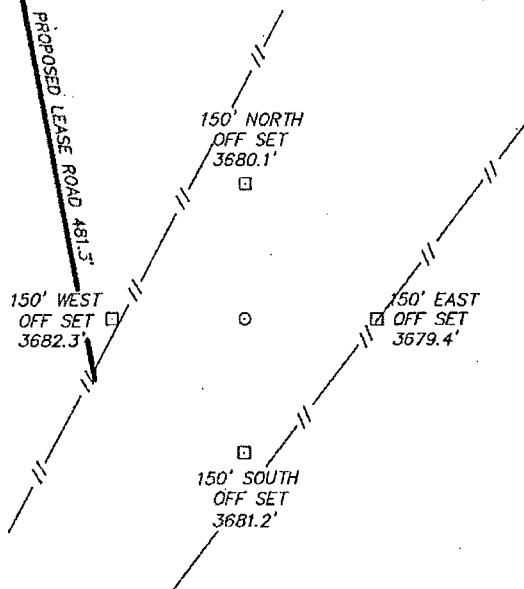
ELG 6-4-2013

JUN 04 2013

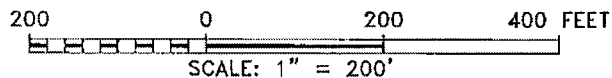
SECTION 19, TOWNSHIP 19 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

APACHE CORPORATION
NMGSAU #385
ELEV. - 3682'

Lat - N 32°38'32.14"
Long - W 103°17'09.05"
NMSPCE - N 598975.9
E 863769.5
(NAD-83)
Lat - N 32°38'31.71"
Long - W 103°17'07.31"
NMSPCE - N 598913.8
E 822587.9
(NAD-27)



WELL IS LOCATED ±10 MILES SOUTHWEST OF HOBBS, NEW MEXICO.



Directions to Location:

FROM THE JUNCTION OF HWY 62-180 AND MADDOX,
GO SOUTH 3.8 MILES TURNING EAST 0.7 MILES TO
PROPOSED LEASE ROAD.

APACHE CORPORATION

REF: NMGSAU #385 / WELL PAD TOPO

THE NMGSAU #385 LOCATED 1330'

FROM THE SOUTH LINE AND 1130' FROM THE EAST LINE OF

SECTION 19, TOWNSHIP 19 SOUTH, RANGE 37 EAST,

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

BASIN SURVEYS

P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 27976

Drawn By: J. SMALL

Date: 02-11-2013

Disk: JMS 27976

Survey Date: 01-31-2013

Sheet 1 of 1 Sheets

PHOENIX TECHNOLOGY SERVICES INC.
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER 1310453

OPERATOR Apache Corp

WELL NAME NMGSAU #385

COUNTY & STATE

LEA COUNTY

API WELL NUMBER	30-025-41037
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PROPOSED DIRECTION	264.22
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TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
ft	0.00	. ft	0	0.00 N	0.00 E	PHOENIX MWD

FIRST	FIRST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
08-May-13	1,354 ft	0.4	114.2

SURVEY INSTRUMENT
TYPE
PHOENIX MWD

LAST	LAST		
SURVEY	SURVEY		
DATE	DEPTH	INCLIN	AZIMUTH
09-May-13	4,065 ft	6.8	260.6

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
09 May 13	4,114 ft	6.8	260.6

JIA LEWIS

PRINT YOUR NAME ABOVE

Jia Lewis

SIGN YOUR NAME ABOVE.

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	7.25
DECLINATION OR GRID	DEC

05/09/13

TODAY'S DATE

MWD SUPERVISOR 1 Jia Lewis

DIRECTIONAL DRILLER 1

TRAVIS GIBSON

MWD SUPERVISOR 2 NONE

DIRECTIONAL DRILLER 2

NONE

1805 Brittmore Road

Houston, Texas 77043

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



Apache Corporation

Lea County, NM (NAD83 NME)

NMGSAU

#385

OH / Job #1310453

HOBBS OCD

JUN 04 2013

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Survey: Phoenix MWD Survey

Phoenix Final Survey Report

11 May, 2013





Phoenix Technology Services

Phoenix Final Survey Report



Company:	Apache Corporation	Local Co-ordinate Reference:	Well #385
Project:	Lea County, NM (NAD83 NME)	TVD Reference:	KB @ 3693.00usft (Capstar 120)
Site:	NMGSAU	MD Reference:	KB @ 3693.00usft (Capstar 120)
Well:	#385	North Reference:	True
Wellbore:	OH / Job #1310453	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	NMGSAU		
Site Position:		Northing:	582,973.08 usft
From:	Map	Easting:	870,597.88 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"
		Latitude:	32° 35' 53.144390 N
		Longitude:	103° 15' 51.083479 W
		Grid Convergence:	0.58 °

Well	#385		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 38' 32.145028 N
		Longitude:	103° 17' 9.049237 W
		Ground Level:	3,682.00 usft

Wellbore	OH / Job #1310453		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010_14	04/18/13	7.25	60.58	48,713

Design	Surveys (Capstar 120)			
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	264.22

Survey Program	Date: 05/11/13		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
1,482.00	4,114.00	Phoenix MWD Survey (OH / Job #1310453)	MWD
			Description
			MWD - Standard

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1,354.00	2.65	248.80	1,353.52	-11.32	-29.18	30.17	0.20
Phoenix First MWD Survey	1,482.00	2.90	248.80	1,481.37	-13.56	-34.96	36.15	0.20
	1,610.00	3.80	253.30	1,609.15	-15.95	-42.04	43.43	0.73
	1,738.00	3.80	352.70	1,736.98	-12.96	-46.65	47.71	4.53
	1,866.00	5.00	278.00	1,864.69	-7.97	-52.71	53.25	4.23
	1,994.00	4.80	279.50	1,992.22	-6.31	-63.52	63.83	0.19
	2,122.00	3.10	271.60	2,119.91	-5.33	-72.26	72.43	1.39
	2,250.00	2.80	278.00	2,247.74	-4.80	-78.82	78.90	0.35
	2,378.00	2.30	279.80	2,375.61	-3.93	-84.44	84.41	0.40
	2,507.00	3.50	275.50	2,504.45	-3.11	-90.92	90.77	0.94



Phoenix Technology Services
Phoenix Final Survey Report



Company: Apache Corporation
Project: Lea County, NM (NAD83 NME)
Site: NMGSAU
Well: #385
Wellbore: OH / Job #1310453
Design: Surveys (Capstar 120)

Local Co-ordinate Reference: Well #385
TVD Reference: KB @ 3693.00usft (Capstar 120)
MD Reference: KB @ 3693.00usft (Capstar 120)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: GCR DB

Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
2,635.00	2.90	271.60	2,632.25	-2.64	-98.04	97.81	0.50
2,763.00	2.40	243.70	2,760.11	-3.74	-103.68	103.53	1.07
2,891.00	3.30	227.60	2,887.96	-7.41	-108.80	109.00	0.93
3,019.00	3.90	221.70	3,015.70	-13.15	-114.42	115.16	0.55
3,147.00	4.20	227.40	3,143.38	-19.57	-120.77	122.12	0.39
3,275.00	4.00	231.50	3,271.06	-25.52	-127.71	129.63	0.28
3,403.00	4.80	231.10	3,398.68	-31.66	-135.37	137.87	0.63
3,531.00	5.40	270.40	3,526.21	-34.99	-145.57	148.35	2.71
3,659.00	5.10	260.40	3,653.68	-35.89	-157.20	160.01	0.75
3,787.00	4.40	231.20	3,781.25	-39.92	-166.64	169.81	1.94
3,915.00	5.80	255.80	3,908.76	-44.58	-176.73	180.33	2.00
4,065.00	6.80	260.60	4,057.85	-47.89	-192.84	196.69	0.75
Phoenix Last MWD Survey							
4,114.00	6.80	260.60	4,106.51	-48.84	-198.57	202.48	0.00
Projection to TD							

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/S (usft)	+E/W (usft)	Comment
1,354.00	1,353.52	-11.32	-29.18	Phoenix First MWD Survey
4,065.00	4,057.85	-47.89	-192.84	Phoenix Last MWD Survey
4,114.00	4,106.51	-48.84	-198.57	Projection to TD

Checked By: _____

Approved By: _____

Date: _____



PHOENIX
TECHNOLOGY SERVICES

May 29, 2013

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

HOBBS OCD

JUN 04 2013

RECEIVED

Attention: Regulatory Department

Re: Apache Corporation
NMGSAU #385
Lea County, NM
API #30-025-41037
Job No. 1310453

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	Drainhole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Jia Lewis	1H	1,354	4,065	05/08/13	05/09/13	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,

Kelly Jo Walter
Operations Administrator

Certified mail receipt number: 7011 1570 0001 8455