



PHOENIX
TECHNOLOGY SERVICES

March 24, 2015

Oil Conservation Division
State of New Mexico
811 S. First St.
Artesia, New Mexico 88210

Dear District 2 - Artesia

Attention: Regulatory Department

Re: Apache Corporation
Crow Federal #41H
Eddy County, NM
API #30-015-42763
Job No. 1512793

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	
Jeff Broussard	41H	793	9,895	02/26/15	03/07/15	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,

Claudia Carreon

Claudia Carreon
Operations Administrator

ARD 3/31/15
NM OIL CONSERVATION
ARTESIA DISTRICT

MAR 30 2015

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Certified mail receipt number: 7014 2120 0004 3423 7286

Phoenix Technology Services
SURVEY DATA CERTIFICATION



PHOENIX JOB NUMBER

1512793

Energy Company

Apache

WELL NAME

Crow Federal #41H

COUNTY & STATE

Eddy County, NM

API WELL NUMBER

30-015-42763

PROPOSED DIRECTION

89.61

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
650.00 ft	649.94 ft	1.06	70.34	0.75 N	7.88 E	Gyro

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
26-Feb-15	793.00 ft	1.00	72.00

SURVEY INSTRUMENT

TYPE

Phoenix P-360

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
7-Mar-15	9,895.00 ft	89.90	90.90

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
7-Mar-15	9,966.00 ft	89.90	90.90

Jeff Broussard

PRINT YOUR NAME ABOVE

Jeff Broussard

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED

7.24

DECLINATION OR GRID

GRID

3/7/2015

TODAY'S DATE

MWD SUPERVISOR 1

Jeff Broussard

DIRECTIONAL DRILLER 1

Ian Hobbs

MWD SUPERVISOR 2

Burton Fowles

DIRECTIONAL DRILLER 2

Joshua Ashley

12329 Cutten Rd.,

Houston, Texas 77066

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



NM OIL CONSERVATION

ARTESIA DISTRICT

MAR 30 2015

RECEIVED

Apache Corporation

Eddy County, NM (NAD27 NME)

Crow Federal

#41H

WB1 / Job #1512793

Survey: Phoenix MWD Surveys

Standard Survey Report

09 March, 2015



Company:	Apache Corporation	Local Co-ordinate Reference:	Well #41H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3950.00usft (Capstar 114)
Site:	Crow Federal	MD Reference:	KB @ 3950.00usft (Capstar 114)
Well:	#41H	North Reference:	Grid
Wellbore:	WB1 / Job #1512793	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 114)	Database:	Compass 5000 GCR

Project	Eddy County, NM (NAD27 NME)		
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	Crow Federal		
Site Position:		Northing:	671,130.90 usft
From:	Map	Easting:	643,906.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 50' 38.92796 N
		Longitude:	103° 51' 53.16689 W
		Grid Convergence:	0.25 °

Well	#41H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 51' 44.56411 N
		Longitude:	103° 51' 56.07997 W
		Ground Level:	3,939.00 usft

Wellbore	WB1 / Job #1512793		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2014	2/26/2015	7.50
			Dip Angle
			(°)
			Field Strength
			(nT)
			48,541

Design	Surveys (Capstar 114)		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			89.61

Survey Program	Date: 3/9/2015		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		
100.00	650.00	Gyrodata Surveys (WB1 / Job #1512793)	NS-GYRO-MS
793.00	9,966.00	Phoenix MWD Surveys (WB1 / Job #1512)	PHX+MWD+BGGM
			Description
			North sensing gyrocompassing m/s
			PHX+MWD+BGGM v3: standard declination

Survey									
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Vertical	Dogleg	Build	Turn
Depth	(°)	(°)	Depth	(usft)	(usft)	Section	Rate	Rate	Rate
(usft)			(usft)			(usft)	(°/100usft)	(°/100usft)	(°/100usft)
650.00	1.06	70.34	649.94	0.75	7.88	7.88	0.00	0.00	0.00
Tie-in to Gyrodata									
793.00	1.00	72.00	792.92	1.58	10.31	10.32	0.05	-0.04	1.16
First Phoenix MWD Survey									
879.00	1.10	78.40	878.90	1.98	11.83	11.85	0.18	0.12	7.44
965.00	1.50	75.20	964.88	2.43	13.73	13.75	0.47	0.47	-3.72
1,050.00	1.80	77.20	1,049.85	3.01	16.11	16.13	0.36	0.35	2.35
1,178.00	2.40	78.20	1,177.76	4.01	20.69	20.72	0.47	0.47	0.78
1,309.00	2.60	84.10	1,308.63	4.87	26.33	26.37	0.25	0.15	4.50

Company:	Apache Corporation	Local Co-ordinate Reference:	Well #41H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3950.00usft (Capstar 114)
Site:	Crow Federal	MD Reference:	KB @ 3950.00usft (Capstar 114)
Well:	#41H	North Reference:	Grid
Wellbore:	WB1 / Job #1512793	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 114)	Database:	Compass 5000 GCR

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)
1,438.00	2.20	67.60	1,437.52	6.12	31.53	31.57	0.62	-0.31	-12.79
1,566.00	2.80	68.60	1,565.40	8.19	36.72	36.77	0.47	0.47	0.78
1,694.00	1.50	92.70	1,693.31	9.25	41.30	41.36	1.22	-1.02	18.83
1,822.00	1.40	115.80	1,821.27	8.50	44.38	44.44	0.46	-0.08	18.05
1,951.00	1.30	121.70	1,950.23	7.04	47.04	47.09	0.13	-0.08	4.57
2,078.00	1.00	127.30	2,077.21	5.61	49.15	49.19	0.25	-0.24	4.41
2,207.00	1.00	123.30	2,206.19	4.31	50.99	51.02	0.05	0.00	-3.10
2,334.00	0.80	115.60	2,333.17	3.32	52.71	52.74	0.18	-0.16	-6.06
2,462.00	0.60	129.70	2,461.16	2.51	54.04	54.05	0.21	-0.16	11.02
2,590.00	0.40	156.90	2,589.16	1.67	54.73	54.74	0.24	-0.16	21.25
2,725.00	0.50	217.60	2,724.16	0.77	54.55	54.56	0.34	0.07	44.96
2,851.00	0.70	238.10	2,850.15	-0.08	53.56	53.56	0.23	0.16	16.27
2,980.00	0.80	251.50	2,979.14	-0.78	52.04	52.03	0.16	0.08	10.39
3,107.00	0.80	260.80	3,106.13	-1.20	50.32	50.32	0.10	0.00	7.32
3,233.00	0.90	270.60	3,232.11	-1.33	48.47	48.46	0.14	0.08	7.78
3,362.00	1.00	272.80	3,361.09	-1.27	46.33	46.32	0.08	0.08	1.71
3,447.00	0.90	273.00	3,446.08	-1.19	44.92	44.91	0.12	-0.12	0.24
3,573.00	0.70	276.60	3,572.07	-1.05	43.17	43.16	0.16	-0.16	2.86
3,702.00	0.80	268.30	3,701.06	-0.99	41.49	41.48	0.11	0.08	-6.43
3,830.00	0.90	261.00	3,829.04	-1.17	39.60	39.59	0.12	0.08	-5.70
3,959.00	1.00	265.30	3,958.03	-1.42	37.48	37.47	0.10	0.08	3.33
4,087.00	1.00	256.00	4,086.01	-1.79	35.28	35.27	0.13	0.00	-7.27
4,215.00	0.90	260.90	4,213.99	-2.22	33.20	33.19	0.10	-0.08	3.83
4,344.00	0.90	256.10	4,342.97	-2.62	31.22	31.20	0.06	0.00	-3.72
4,472.00	1.00	254.60	4,470.96	-3.16	29.17	29.15	0.08	0.08	-1.17
4,600.00	0.80	249.10	4,598.94	-3.77	27.26	27.23	0.17	-0.16	-4.30
4,714.00	1.00	250.30	4,712.93	-4.39	25.58	25.55	0.18	0.18	1.05
4,748.00	0.90	262.70	4,746.92	-4.53	25.03	25.00	0.67	-0.29	36.47
4,791.00	1.50	58.00	4,789.92	-4.27	25.17	25.14	5.46	1.40	361.16
4,833.00	5.80	74.40	4,831.82	-3.41	27.69	27.66	10.43	10.24	39.05
4,876.00	9.90	81.40	4,874.41	-2.27	33.44	33.42	9.77	9.53	16.28
4,919.00	14.30	82.30	4,916.45	-1.01	42.36	42.35	10.24	10.23	2.09
4,962.00	19.30	82.70	4,957.60	0.61	54.68	54.68	11.63	11.63	0.93
5,005.00	24.20	83.10	4,997.53	2.57	70.48	70.50	11.40	11.40	0.93
5,047.00	29.10	86.50	5,035.05	4.23	89.24	89.26	12.21	11.67	8.10
5,090.00	34.00	89.80	5,071.69	4.91	111.71	111.74	12.08	11.40	7.67
5,133.00	39.30	92.50	5,106.18	4.36	137.36	137.38	12.88	12.33	6.28
5,176.00	44.90	91.40	5,138.07	3.39	166.16	166.18	13.14	13.02	-2.56
5,218.00	50.80	90.20	5,166.24	2.98	197.28	197.29	14.21	14.05	-2.86
5,261.00	56.40	89.40	5,191.75	3.10	231.87	231.89	13.11	13.02	-1.86
5,304.00	60.60	89.00	5,214.21	3.62	268.53	268.54	9.80	9.77	-0.93
5,347.00	65.90	88.90	5,233.56	4.32	306.90	306.93	12.33	12.33	-0.23
5,390.00	72.00	88.40	5,249.00	5.27	347.00	347.03	14.23	14.19	-1.16

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Site:	Crow Federal	MD Reference:	KB @ 3950.00usft (Capstar 114)
Well:	#41H	North Reference:	Grid
Wellbore:	WB1 / Job #1512793	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 114)	Database:	Compass 5000 GCR

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)
5,432.00	78.00	88.60	5,259.86	6.33	387.54	387.58	14.29	14.29	0.48
5,475.00	82.00	88.70	5,267.33	7.33	429.87	429.91	9.31	9.30	0.23
5,514.00	85.70	88.80	5,271.51	8.18	468.63	468.67	9.49	9.49	0.26
5,557.00	86.60	88.60	5,274.39	9.15	511.52	511.57	2.14	2.09	-0.47
5,642.00	87.90	89.70	5,278.47	10.41	596.41	596.47	2.00	1.53	1.29
5,771.00	90.10	89.80	5,280.72	10.97	725.38	725.44	1.71	1.71	0.08
5,898.00	90.20	89.70	5,280.39	11.52	852.38	852.44	0.11	0.08	-0.08
6,026.00	90.20	90.00	5,279.94	11.86	980.38	980.43	0.23	0.00	0.23
6,155.00	89.80	89.90	5,279.94	11.97	1,109.38	1,109.43	0.32	-0.31	-0.08
6,283.00	89.60	89.90	5,280.61	12.20	1,237.37	1,237.43	0.16	-0.16	0.00
6,410.00	89.60	90.20	5,281.50	12.08	1,364.37	1,364.42	0.24	0.00	0.24
6,542.00	89.40	90.20	5,282.65	11.62	1,496.36	1,496.41	0.15	-0.15	0.00
6,672.00	87.90	89.30	5,285.72	12.19	1,626.32	1,626.37	1.35	-1.15	-0.69
6,800.00	88.00	89.20	5,290.29	13.87	1,754.23	1,754.28	0.11	0.08	-0.08
6,928.00	88.20	88.90	5,294.54	15.99	1,882.14	1,882.21	0.28	0.16	-0.23
7,056.00	88.30	88.50	5,298.45	18.89	2,010.05	2,010.13	0.32	0.08	-0.31
7,184.00	88.50	88.00	5,302.02	22.80	2,137.94	2,138.04	0.42	0.16	-0.39
7,312.00	88.80	88.00	5,305.04	27.26	2,265.82	2,265.96	0.23	0.23	0.00
7,441.00	88.00	89.20	5,308.64	30.41	2,394.73	2,394.88	1.12	-0.62	0.93
7,569.00	87.90	88.70	5,313.22	32.76	2,522.63	2,522.79	0.40	-0.08	-0.39
7,697.00	88.40	89.20	5,317.35	35.10	2,650.54	2,650.72	0.55	0.39	0.39
7,831.00	88.90	89.20	5,320.51	36.97	2,784.49	2,784.68	0.37	0.37	0.00
7,960.00	90.70	89.60	5,320.96	38.32	2,913.48	2,913.67	1.43	1.40	0.31
8,088.00	90.30	91.00	5,319.84	37.65	3,041.47	3,041.65	1.14	-0.31	1.09
8,219.00	89.70	91.70	5,319.84	34.57	3,172.43	3,172.59	0.70	-0.46	0.53
8,347.00	89.50	91.90	5,320.73	30.55	3,300.36	3,300.49	0.22	-0.16	0.16
8,475.00	89.00	92.10	5,322.41	26.08	3,428.27	3,428.37	0.42	-0.39	0.16
8,604.00	86.70	91.80	5,327.25	21.69	3,557.10	3,557.16	1.80	-1.78	-0.23
8,732.00	88.30	89.00	5,332.83	20.80	3,684.96	3,685.01	2.52	1.25	-2.19
8,860.00	89.80	87.10	5,334.96	25.16	3,812.85	3,812.94	1.89	1.17	-1.48
8,992.00	88.80	87.00	5,336.57	31.95	3,944.67	3,944.79	0.76	-0.76	-0.08
9,119.00	90.20	87.00	5,337.68	38.60	4,071.49	4,071.65	1.10	1.10	0.00
9,248.00	92.10	88.10	5,335.09	44.11	4,200.33	4,200.54	1.70	1.47	0.85
9,376.00	91.70	88.60	5,330.84	47.79	4,328.21	4,328.44	0.50	-0.31	0.39
9,504.00	92.40	90.70	5,326.26	48.57	4,456.12	4,456.35	1.73	0.55	1.64
9,632.00	90.60	91.60	5,322.91	46.01	4,584.04	4,584.25	1.57	-1.41	0.70
9,759.00	90.10	91.40	5,322.14	42.68	4,711.00	4,711.18	0.42	-0.39	-0.16
9,895.00	89.90	90.90	5,322.14	39.95	4,846.97	4,847.13	0.40	-0.15	-0.37
Final Phoenix MWD Survey									
9,966.00	89.90	90.90	5,322.26	38.84	4,917.96	4,918.11	0.00	0.00	0.00
Projection to TD									



Phoenix Survey Report



Company:	Apache Corporation	Local Co-ordinate Reference:	Well #41H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3950.00usft (Capstar 114)
Site:	Crow Federal	MD Reference:	KB @ 3950.00usft (Capstar 114)
Well:	#41H	North Reference:	Grid
Wellbore:	WB1 / Job #1512793	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 114)	Database:	Compass 5000 GCR

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
650.00	649.94	0.75	7.88	Tie-in to Gyrodata
793.00	792.92	1.58	10.31	First Phoenix MWD Survey
9,895.00	5,322.14	39.95	4,846.97	Final Phoenix MWD Survey
9,966.00	5,322.26	38.84	4,917.96	Projection to TD

Checked By: _____	Approved By: _____	Date: _____
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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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

MAR 30 2015

RECEIVED

☐ AMENDED REPORT

17-27

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-42763	Pool Code 26 770	Pool Name Frenj Glorieta - Yeso
Property Code 308711	Property Name CROW FEDERAL	
OGRID No. 873	Operator Name APACHE CORPORATION	
		Well Number 41H
		Elevation 3940'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	3	17-S	31-E		2233	SOUTH	10	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
I	3	17-S	31-E		2233	SOUTH	330	EAST	EDDY

Dedicated Acres 160	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

4 3 2 1 39.93 AC. 39.93 AC. 39.91 AC. 39.91 AC. DETAIL 3939.5' 3942.7' 600' 3931.6' 3939.0' 10' SEE DETAIL GRID AZ. = 89°36'39" HORIZ. DIST. = 4941.5' B.H. 330' 2233' CORNER COORDINATES TABLE A) Y=678167.7 N, X=643616.4 E B) Y=678206.6 N, X=648896.5 E C) Y=676849.1 N, X=643624.5 E D) Y=676886.4 N, X=648904.4 E GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=677762.9 N X=643628.9 E LAT.=32.862379° N LONG.=103.865578° W LAT.=32° 51' 45" N LONG.=103° 51' 56" W BOTTOM HOLE LOCATION Y=677796.4 N X=648569.0 E	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. <i>Sorina L Flores</i> 3/31/14 Signature Date Sorina L. Flores Printed Name Sorina.Flores@apachecorp.com 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. JUNE 19, 2012 Date of Survey Signature & Seal of Professional Surveyor:  Certificate Number: 3239 Surveyor: Ronald J. Eidson AF JWSC W.O.: 12.11.1094
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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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-102

Revised August 1, 2011

Submit one copy to appropriate District Office

MAR 30 2015

RECEIVED

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 26 770	Pool Name Fren; Glorieta - Yeso
Property Code 308711	Property Name CROW FEDERAL	
GRID No. 873	Operator Name APACHE CORPORATION	
		Well Number 41H
		Elevation 3940'

Surface Location

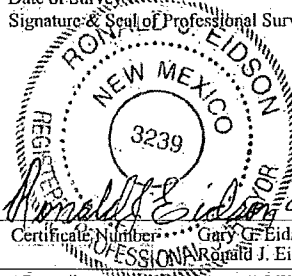
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	3	17-S	31-E		2233	SOUTH	10	WEST	EDDY

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
I	3	17-S	31-E		2233	SOUTH	330	EAST	EDDY

Dedicated Acres 160	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

4 3 2 1 39.93 AC. 39.93 AC. 39.91 AC. 39.91 AC. DETAIL 3939.5' 3942.7' ○ 600' 600' 3931.6' 3939.0' SEE DETAIL GRID AZ. = 89°36'39" HORIZ. DIST. = 4941.5' B.H. 330' 10' 2233' GEODETC COORDINATES NAD 27 NME SURFACE LOCATION Y=677762.9 N X=643628.9 E LAT.=32.862379° N LONG.=103.865578° W LAT.=32° 51' 45" N LONG.=103° 51' 56" W BOTTOM HOLE LOCATION Y=677796.4 N X=648569.0 E CORNER COORDINATES TABLE A) Y=678167.7 N, X=643616.4 E B) Y=678206.6 N, X=648896.5 E C) Y=676849.1 N, X=643624.5 E D) Y=676886.4 N, X=648904.4 E	OPERATOR CERTIFICATION <i>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.</i> <i>Sorina L Flores</i> 3/31/14 Signature Date <i>Sorina L. Flores</i> Printed Name <i>Sorina.Flores@apachecorp.com</i> E-mail Address SURVEYOR CERTIFICATION <i>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.</i> JUNE 19, 2012 Date of Survey Signature & Seal of Professional Surveyor:  3239 <i>Ronald J. Eidson</i> 07/02/2012 Certificate Number Gary G. Eidson 12641 Ronald J. Eidson 3239 AF JWSC W.O.: 12.11.1094
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