



PHOENIX
TECHNOLOGY SERVICES

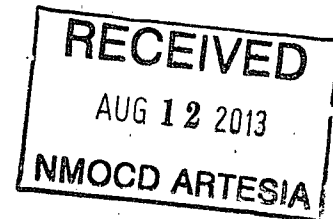
August 8, 2013

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 #12H
Eddy County, NM
API #30-015-40576
Job No. 1310847



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	
Bernard Caldwell	12H	608	10,631	07/22/13	08/05/13	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 Aguirre

Dolly Aguirre
Operations Administrator

Certified mail receipt number: 7011 1570 0001 4364 8547

Phoenix Technology Services SURVEY DATA CERTIFICATION

RECEIVED

AUG 12 2013

NMOCD ARTESIA



PHOENIX
TECHNOLOGY SERVICES

PHOENIX JOB NUMBER

1310847

OPERATOR

Apache Corporation

WELL NAME

Crow Federal 12H

COUNTY & STATE

Eddy County, NM

API WELL NUMBER

30-015-40576

PROPOSED DIRECTION

89.57

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
500 ft	499.98 ft	78 ft	199.8 ft	3.48 S	0.76 W	Gyro

FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH
22-Jul-13	608 ft	0.8	188.4

SURVEY INSTRUMENT TYPE
Phoenix MWD

LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH
5-Aug-13	10,631 ft	88.5	90.1

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
5-Aug-13	10,687 ft	88.5	90.1

Bernard Caldwell

PRINT YOUR NAME ABOVE

SIGN YOUR NAME ABOVE

MAGNETIC DECLINATION OR TOTAL GRID

TOTAL CORRECTION USED	
	7.41
DECLINATION OR GRID	GRID

8-5-13

TODAY'S DATE

MWD SUPERVISOR 1

B.Caldwell/B.Hill

DIRECTIONAL DRILLER 1

Matt Boyt

MWD SUPERVISOR 2

M.Dice/M.Colvin

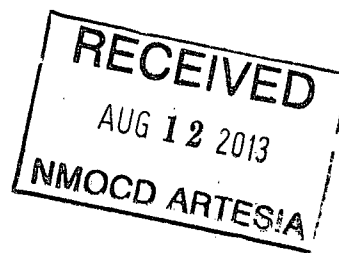
DIRECTIONAL DRILLER 2

Ken Smith

1805 Brittmore Road

Houston, Texas 77043

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



Apache Corporation

Eddy County, NM (NAD27 NME)

Crow Federal

#12H

OH/Job #1310847

Survey: Phoneix MWD Survey

Phoenix Final Survey Report

06 August, 2013





Phoenix Technology Services
Phoenix Final Survey Report



Company:	Apache Corporation	Local Co-ordinate Reference:	Well #12H
Project:	Eddy County, NM (NAD27 NME)	TVD Reference:	KB @ 3897.00usft (Capstar 114)
Site:	Crow Federal	MD Reference:	KB @ 3897.00usft (Capstar 114)
Well:	#12H	North Reference:	Grid
Wellbore:	OH/Job #1310847	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 114)	Database:	GCR DB

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	Latitude:	32° 50' 38.927956 N
From:	Map	Easting:	643,906.80 usft	Longitude:	103° 51' 53.166888 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16"	Grid Convergence:	0.25 °

Well	#12H					
Well Position	+N-S	0.00 usft	Northing:	671,260.90 usft	Latitude:	32° 50' 40.214349 N
	+E-W	0.00 usft	Easting:	643,906.00 usft	Longitude:	103° 51' 53.169507 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,886.00 usft	

Wellbore	OH/Job #1310847				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010_14	04/25/12	(°) 7.66	(°) 60.69	(nT) 48,868

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	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	89.57	

Survey Program	Date 08/06/13				
From	To	Survey (Wellbore)	Tool Name	Description	
(usft)	(usft)				
100.00	500.00	Gyrodatta Survey (OH/Job #1310847)	NS-GYRO-MS	North sensing gyrocompassing m/s	
608.00	10,687.00	Phoenix MWD Survey (OH/Job #1310847)	MWD	MWD - Standard	

Survey	MD	Inc	Azi (azimuth)	TVD	N/S	E/W	V. Sec	DLeg
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)
	500.00	0.78	199.76	499.98	-3.48	-0.76	-0.79	0.00
Tie-on to Gyrodatta								
	608.00	0.80	188.40	607.97	-4.92	-1.12	-1.16	0.15
First Phoenix MWD Survey								
	693.00	1.60	145.90	692.96	-6.49	-0.54	-0.59	1.35
	779.00	3.00	121.20	778.89	-8.65	2.05	1.99	1.96
	864.00	3.60	101.00	863.75	-10.31	6.58	6.50	1.53
	950.00	4.10	85.30	949.56	-10.57	12.29	12.21	1.35
	1,036.00	4.60	85.00	1,035.31	-10.02	18.79	18.71	0.58
	1,121.00	5.00	86.80	1,120.01	-9.52	25.88	25.81	0.50
	1,207.00	5.60	86.80	1,205.64	-9.07	33.82	33.75	0.70



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Well:	#12H	North Reference:	Grid
Wellbore:	OH/Job #1310847	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 114)	Database:	GCR DB

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
1,292.00	4.10	94.10	1,290.34	-9.06	40.99	40.92	1.90
1,378.00	2.20	87.20	1,376.20	-9.20	45.70	45.63	2.25
1,463.00	2.20	83.30	1,461.14	-8.93	48.95	48.89	0.18
1,549.00	2.40	83.20	1,547.07	-8.52	52.38	52.32	0.23
1,635.00	2.40	90.20	1,632.99	-8.32	55.97	55.91	0.34
1,720.00	1.10	60.20	1,717.95	-7.92	58.46	58.40	1.82
1,805.00	0.60	331.80	1,802.95	-7.12	58.96	58.90	1.46
1,890.00	0.80	322.60	1,887.94	-6.26	58.38	58.34	0.27
1,976.00	1.00	317.90	1,973.93	-5.22	57.52	57.48	0.25
2,061.00	0.80	311.90	2,058.92	-4.28	56.58	56.54	0.26
2,147.00	0.90	331.70	2,144.91	-3.28	55.81	55.78	0.36
2,233.00	1.00	320.10	2,230.90	-2.11	55.01	54.99	0.25
2,318.00	1.10	328.80	2,315.88	-0.84	54.11	54.10	0.22
2,403.00	1.10	320.20	2,400.87	0.48	53.17	53.17	0.19
2,489.00	1.10	325.40	2,486.85	1.80	52.17	52.18	0.12
2,575.00	1.20	330.60	2,572.84	3.26	51.26	51.28	0.17
2,660.00	1.50	335.80	2,657.81	5.05	50.36	50.40	0.38
2,746.00	0.60	351.00	2,743.80	6.52	49.83	49.88	1.09
2,831.00	0.50	355.90	2,828.79	7.33	49.74	49.79	0.13
2,916.00	0.90	343.00	2,913.79	8.34	49.51	49.58	0.50
3,001.00	0.40	65.30	2,998.78	9.10	49.59	49.66	1.10
3,087.00	0.60	101.90	3,084.78	9.13	50.30	50.37	0.43
3,173.00	0.50	69.40	3,170.78	9.17	51.09	51.16	0.37
3,258.00	0.70	54.10	3,255.77	9.61	51.86	51.93	0.30
3,342.00	0.80	49.80	3,339.76	10.29	52.73	52.80	0.14
3,467.00	1.00	38.80	3,464.75	11.70	54.08	54.16	0.21
3,553.00	1.40	189.40	3,550.74	11.25	54.37	54.46	2.70
3,639.00	0.90	192.20	3,636.72	9.55	54.06	54.13	0.58
3,724.00	0.70	202.90	3,721.71	8.42	53.72	53.78	0.29
3,810.00	0.70	205.00	3,807.71	7.46	53.29	53.35	0.03
3,895.00	0.80	195.30	3,892.70	6.42	52.91	52.96	0.19
3,981.00	0.70	194.60	3,978.69	5.33	52.62	52.66	0.12
4,066.00	0.50	173.50	4,063.69	4.46	52.53	52.57	0.35
4,152.00	0.50	164.00	4,149.69	3.73	52.68	52.71	0.10
4,238.00	0.50	155.50	4,235.68	3.02	52.94	52.96	0.09
4,323.00	0.70	150.60	4,320.68	2.23	53.35	53.36	0.24
4,409.00	0.70	133.60	4,406.67	1.41	53.99	54.00	0.24
4,494.00	0.80	138.10	4,491.66	0.62	54.76	54.76	0.14
4,580.00	0.70	134.50	4,577.66	-0.20	55.53	55.53	0.13
4,665.00	0.70	138.80	4,662.65	-0.95	56.25	56.24	0.06
4,751.00	0.70	145.50	4,748.64	-1.78	56.89	56.88	0.10
4,837.00	0.80	145.60	4,834.64	-2.71	57.53	57.51	0.12
4,922.00	0.70	151.70	4,919.63	-3.66	58.11	58.08	0.15
5,008.00	1.10	308.60	5,005.63	-3.61	57.71	57.68	2.05



Phoenix Technology Services

Phoenix Final Survey Report



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Site:	Crow Federal	MD Reference:	KB @ 3897.00usft (Capstar 114)
Well:	#12H	North Reference:	Grid
Wellbore:	OH/Job #1310847	Survey Calculation Method:	Minimum Curvature
Design:	Surveys (Capstar 114)	Database:	GCR DB

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)
5,093.00	1.30	308.80	5,090.61	-2.49	56.32	56.30	0.24
5,179.00	1.10	315.70	5,176.59	-1.29	54.99	54.98	0.29
5,264.00	1.10	323.70	5,261.57	-0.05	53.93	53.93	0.18
5,350.00	1.00	323.70	5,347.56	1.22	53.00	53.01	0.12
5,436.00	1.00	323.30	5,433.54	2.43	52.11	52.12	0.01
5,521.00	1.00	325.10	5,518.53	3.63	51.24	51.27	0.04
5,607.00	1.10	335.30	5,604.52	5.00	50.47	50.50	0.25
5,692.00	1.10	336.00	5,689.50	6.48	49.79	49.84	0.02
5,738.00	1.10	339.30	5,735.49	7.30	49.46	49.51	0.14
5,780.00	2.10	63.90	5,777.48	8.02	50.01	50.07	5.42
5,823.00	6.70	80.00	5,820.34	8.80	53.19	53.25	10.97
5,866.00	12.00	82.10	5,862.76	9.85	60.09	60.16	12.35
5,909.00	17.40	85.20	5,904.34	11.00	70.93	71.01	12.69
5,952.00	22.80	87.80	5,944.70	11.86	85.68	85.76	12.73
5,995.00	28.40	89.40	5,983.47	12.29	104.24	104.33	13.12
6,037.00	34.00	89.90	6,019.38	12.41	125.99	126.08	13.35
6,080.00	39.60	90.40	6,053.79	12.34	151.74	151.82	13.04
6,123.00	44.20	90.90	6,085.79	12.01	180.44	180.53	10.73
6,166.00	48.70	90.80	6,115.41	11.55	211.60	211.68	10.47
6,209.00	53.70	90.80	6,142.35	11.08	245.09	245.17	11.63
6,251.00	58.40	90.90	6,165.79	10.56	279.92	279.99	11.19
6,293.00	62.60	90.70	6,186.47	10.05	316.46	316.53	10.01
6,336.00	66.80	90.60	6,204.84	9.61	355.33	355.39	9.77
6,379.00	72.00	90.20	6,219.97	9.33	395.56	395.62	12.12
6,422.00	77.50	90.20	6,231.27	9.19	437.03	437.09	12.79
6,462.00	82.60	89.40	6,238.18	9.33	476.42	476.48	12.90
6,518.00	88.80	89.40	6,242.38	9.91	532.23	532.29	11.07
6,604.00	88.80	88.60	6,244.18	11.41	618.20	618.27	0.93
6,689.00	89.00	90.60	6,245.81	12.01	703.18	703.25	2.36
6,774.00	88.70	90.40	6,247.52	11.26	788.16	788.22	0.42
6,860.00	88.50	90.20	6,249.62	10.81	874.13	874.19	0.33
6,946.00	88.20	89.80	6,252.10	10.81	960.09	960.15	0.58
7,031.00	88.20	89.60	6,254.77	11.26	1,045.05	1,045.10	0.24
7,117.00	90.00	89.70	6,256.12	11.78	1,131.03	1,131.09	2.10
7,202.00	89.70	88.80	6,256.34	12.90	1,216.03	1,216.09	1.12
7,288.00	90.10	90.60	6,256.49	13.35	1,302.02	1,302.08	2.14
7,373.00	89.50	90.40	6,256.79	12.60	1,387.02	1,387.07	0.74
7,459.00	89.00	89.90	6,257.91	12.38	1,473.01	1,473.06	0.82
7,545.00	88.50	89.40	6,259.79	12.90	1,558.99	1,559.04	0.82
7,630.00	88.60	88.30	6,261.94	14.61	1,643.94	1,644.00	1.30
7,716.00	88.30	89.90	6,264.27	15.96	1,729.89	1,729.97	1.89
7,801.00	87.60	89.80	6,267.31	16.18	1,814.84	1,814.91	0.83
7,887.00	89.70	91.20	6,269.33	15.43	1,900.81	1,900.87	2.93
7,973.00	89.10	91.20	6,270.23	13.63	1,986.78	1,986.83	0.70



Phoenix Technology Services
Phoenix Final Survey Report



Company: Apache Corporation
Project: Eddy County, NM (NAD27 NME)
Site: Crow Federal
Well: #12H
Wellbore: OH/Job #1310847
Design: Surveys (Capstar 114)

Local Co-ordinate Reference: Well #12H
TVD Reference: KB @ 3897.00usft (Capstar 114)
MD Reference: KB @ 3897.00usft (Capstar 114)
North Reference: Grid
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)
8,058.00	88.60	91.20	6,271.94	11.85	2,071.75	2,071.78	0.59
8,144.00	89.40	90.30	6,273.44	10.73	2,157.72	2,157.74	1.40
8,229.00	89.10	90.60	6,274.55	10.06	2,242.71	2,242.73	0.50
8,315.00	90.20	89.40	6,275.08	10.06	2,328.71	2,328.72	1.89
8,400.00	90.00	89.90	6,274.93	10.58	2,413.71	2,413.72	0.63
8,486.00	89.40	90.20	6,275.38	10.50	2,499.71	2,499.71	0.78
8,572.00	89.40	91.00	6,276.28	9.60	2,585.69	2,585.69	0.93
8,657.00	89.60	89.00	6,277.02	9.60	2,670.69	2,670.68	2.36
8,743.00	89.00	89.20	6,278.07	10.95	2,756.67	2,756.67	0.74
8,828.00	88.70	89.80	6,279.78	11.69	2,841.65	2,841.66	0.79
8,914.00	89.60	89.20	6,281.06	12.45	2,927.63	2,927.65	1.26
9,000.00	88.90	89.00	6,282.18	13.80	3,013.62	3,013.64	0.85
9,085.00	88.60	89.00	6,284.04	15.28	3,098.58	3,098.61	0.35
9,170.00	88.30	88.60	6,286.33	17.06	3,183.53	3,183.57	0.59
9,256.00	89.90	88.40	6,287.68	19.31	3,269.49	3,269.54	1.87
9,340.00	89.30	88.70	6,288.27	21.44	3,353.46	3,353.53	0.80
9,426.00	88.40	88.10	6,290.00	23.84	3,439.41	3,439.49	1.26
9,511.00	90.60	88.80	6,290.74	26.13	3,524.37	3,524.47	2.72
9,597.00	90.10	88.60	6,290.21	28.09	3,610.34	3,610.45	0.63
9,682.00	89.60	88.60	6,290.44	30.16	3,695.32	3,695.44	0.59
9,768.00	89.10	88.20	6,291.41	32.56	3,781.28	3,781.42	0.74
9,854.00	90.60	89.80	6,291.64	34.06	3,867.26	3,867.41	2.55
9,944.00	89.90	89.90	6,291.24	34.30	3,957.26	3,957.40	0.79
10,031.00	88.80	89.70	6,292.23	34.60	4,044.25	4,044.40	1.29
10,121.00	88.70	90.00	6,294.19	34.84	4,134.23	4,134.37	0.35
10,212.00	88.50	89.80	6,296.42	35.00	4,225.20	4,225.35	0.31
10,297.00	90.00	89.70	6,297.53	35.37	4,310.19	4,310.34	1.77
10,389.00	89.40	89.50	6,298.01	36.01	4,402.19	4,402.33	0.69
10,480.00	88.90	89.90	6,299.36	36.49	4,493.18	4,493.32	0.70
10,567.00	88.50	89.80	6,301.34	36.72	4,580.15	4,580.30	0.47
10,631.00	88.50	90.10	6,303.01	36.77	4,644.13	4,644.28	0.47
Last Phoenix MWD Survey							
10,687.00	88.50	90.10	6,304.48	36.67	4,700.11	4,700.25	0.00
Projection to TD							



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Phoenix Final Survey Report



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Design:	Surveys (Capstar 114)	Database:	GCR DB

Survey Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
500.00	499.98	-3.48	-0.76	Tie-on to Gyrodata
608.00	607.97	-4.92	-1.12	First Phoenix MWD Survey
10,631.00	6,303.01	36.77	4,644.13	Last Phoenix MWD Survey
10,687.00	6,304.48	36.67	4,700.11	Projection to TD

Checked By: _____ Approved By: _____ Date: _____

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 30-015-40576	Pool Code 96831	Pool Name Cedar Lake, Gloria - Yeso
Property Code 308711	Property Name CROW FEDERAL	Well Number 12H
GRID No. 873	Operator Name APACHE CORPORATION	Elevation 3886'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn.	Feet from the	North/South line	Feet from the	East/West line	County
M	10	17-S	31-E		1013	SOUTH	250	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
P	10	17-S	31-E		1013	SOUTH	330	EAST	EDDY

Dedicated Acres 1160	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

CORNER COORDINATES TABLE Ⓐ - Y=671567.1 N, X=643654.3 E Ⓑ - Y=671606.0 N, X=648934.5 E Ⓒ - Y=670246.2 N, X=643662.0 E Ⓓ - Y=670286.2 N, X=648942.1 E	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=671260.9 N X=643906.0 E LAT.=32° 44' 50.4" N LONG.=103° 86' 47.69" W LAT.=32° 50' 40" N LONG.=103° 51' 53" W BOTTOM HOLE LOCATION Y=671296.5 N X=648606.4 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> 5/1/12 Signature Date Sorina L. Flores Printed Name sorina.flores@apachecorp.com E-mail Address
DETAIL		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. MARCH 27, 2012 Date of Survey Signature & Seal of Professional Surveyor: GARY G. EIDSON NEW MEXICO 12641 REG. SURV. 12/11/0633
GRID AZ.=89°33'54" HORIZ. DIST.=4701.6'		CERTIFICATION GARY G. EIDSON 12641 PROFESSIONAL SURVEYOR 3239 DSS Reg. 11/11/2011 12/11/0633