

Santa Fe Main Office

Phone: (505) 476-3441 Fax: (55) 476-3462

General Information

Phone: (505) 629-6116

Online Phone Directory Visit:

<https://www.emnrd.nm.gov/ocd/contact-us/>State of New Mexico
Energy, Minerals and Natural ResourcesForm C-103
Revised July 18, 2013OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505WELL API NO.
30-015-550035. Indicate Type of Lease
STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Camacho 25 26 State Com

8. Well Number 201H

9. OGRID Number 873

10. Pool name or Wildcat #97569
WINCHESTER; BONE SPRING, WEST

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

APACHE CORPORATION

3. Address of Operator

303 VETERANS AIRPARK LN #1000, MIDLAND, TX 79705

4. Well Location

Unit Letter A: 790 feet from the NORTH line and 445 feet from the EAST line
Section 25 Township 19S Range 27E NMPM County EDDY11. Elevation (Show whether DR, RKB, RT, GR, etc.)
GL: 3474'

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☒
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Apache request to change SHL and well path to adjust for off lease surf waivers and to accommodate Palmillo 300 wells.
(New plat, dir survey attached):OLD SHL: 2542' FSL & 750' FEL OLD BHL: 333' FNL & 50' FWL
NEW SHL: 790' FNL and 445' FEL NEW BHL: 330' FNL & 50' FWLOLD SURF CSG: Hole: 17-1/2" Csg Sz: 13-3/8" Setting: 400' Sx Cmt: 212 TOC: 0'
OLD INTERM CSG: Hole: 12-1/4" Csg Sz: 9-5/8" Setting: 3000' Sx Cmt: 579 TOC: 0'
OLD PROD CSG: Hole: 8-1/2" Csg Sz: 5-1/2" Setting: 19340' Sx Cmt: 2843 TOC: 400'NEW SURF CSG: Hole: 17-1/2" Csg Sz: 13-3/8" Top MD: 0' Setting: 370' Sx Cmt: 260 TOC: 0'
NEW INTERM CSG: Hole: 12-1/4" Csg Sz: 9-5/8" Top MD: 0' Setting: 3300' Sx Cmt: 724 TOC: 0'
NEW PROD CSG: Hole: 8-3/4" Csg Sz: 5-1/2" Top MD: 0' Setting: 8612' Sx Cmt: 706 TOC: 2800'
NEW PROD CSG: Hole: 8-1/2" Csg Sz: 5-1/2" Top MD: 8600' Setting: 19038' Sx Cmt: 1799 TOC: 8612'

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Sorina L Flores TITLE Regulatory Advisor – EH&S DATE 10/17/24Type or print name Sorina L Flores E-mail address: sorina.flores@apachecorp.com PHONE: 432-818-1167**For State Use Only**

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☒ Initial Submittal
			☐ Amended Report
		☐ As Drilled	

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015	Pool Code 97569	Pool Name WINCHESTER; BONE SPRING, WEST
Property Code 335857	Property Name CAMACHO 25-26 STATE COM	Well Number 201H
OGRID No. 873	Operator Name APACHE CORPORATION	Ground Level Elevation 3474'
Surface Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☒ State ☐ Fee ☐ Tribal ☐ Federal

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	25	19-S	27-E	-	790' N	445' E	N 32.6362283	W 104.2252764	EDDY

Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	26	19-S	27-E	-	330' N	50' W	N 32.6380202	W 104.2579994	EDDY

Dedicated Acres 319.76	Infill or Defining Well -	Defining Well API -	Overlapping Spacing Unit (Y/N) -	Consolidated Code -
Order Numbers -			Well Setbacks are under Common Ownership: ☐ Yes ☐ No	

Kick Off Point (KOP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	30	19-S	27-E	-	346' N	378' W	N 32.6374466	W 104.2225890	EDDY

First Take Point (FTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
A	25	19-S	27-E	-	330' N	100' E	N 32.6374718	W 104.2241403	EDDY

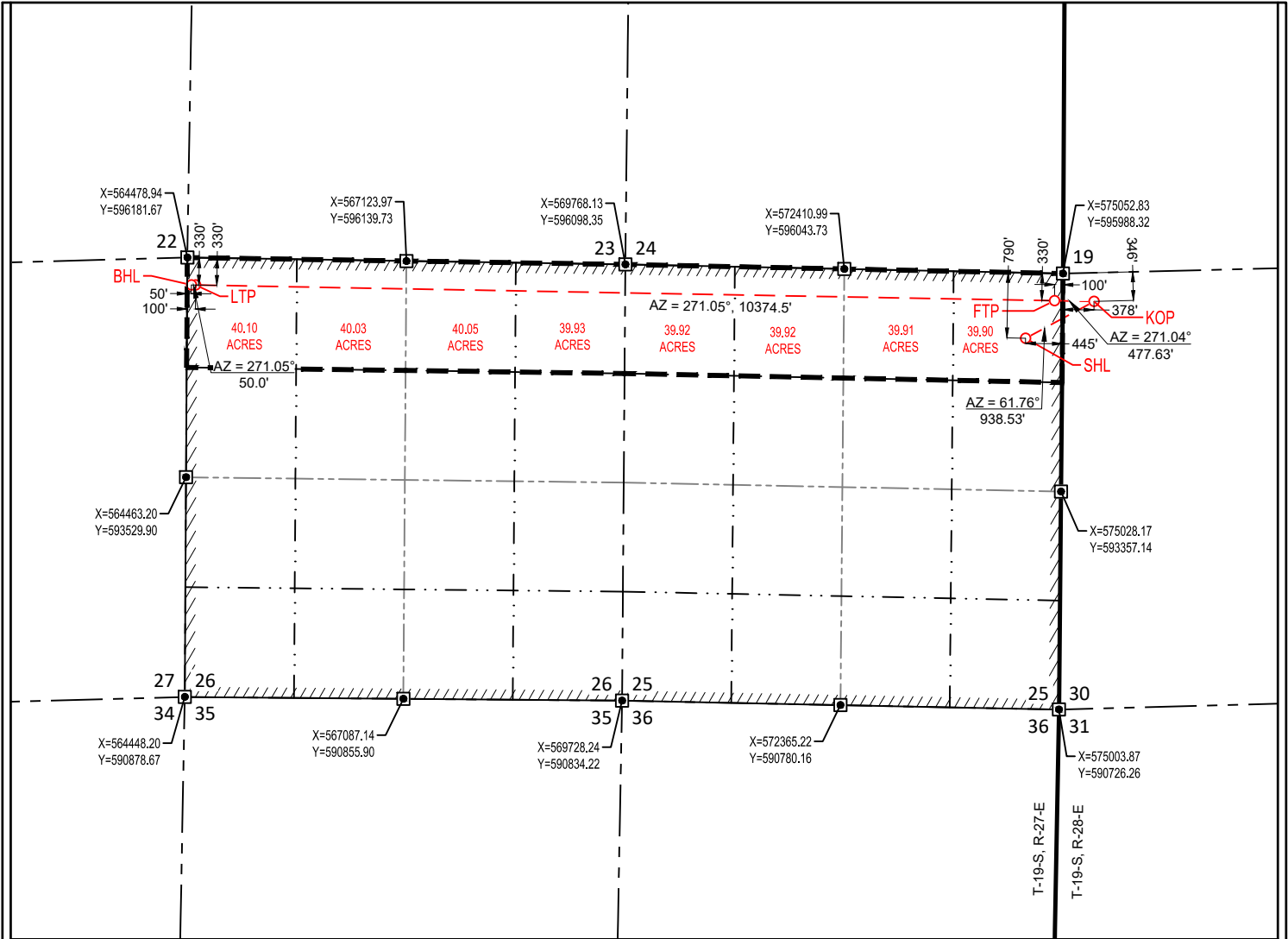
Last Take Point (LTP)

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude	Longitude	County
D	26	19-S	27-E	-	330' N	100' W	N 32.6380176	W 104.2578370	EDDY

Unitized Area or Area of Uniform Intrest -	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 3474' -
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OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> Sorina L Flores10/7/2024 SignatureDate Print Name sorina.flores@apachecorp.com E-mail Address		SURVEYORS 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> ANGEL M. BAEZA NEW MEXICO 25116 10/7/24 PROFESSIONAL SURVEYOR Signature and Seal of Professional SurveyorDate Certificate Number Date of Survey 09/25/2024	
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C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☐ Amended Report
		☐ As Drilled	
Property Name and Well Number CAMACHO 25-26 STATE COM 201H			



SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=574601 Y=595208
LAT.: N 32.6362283
LONG.: W 104.2252764
790' FNL 445' FEL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=575427 Y=595652
LAT.: N 32.6374466
LONG.: W 104.2225890
346' FNL 378' FWL

FIRST TAKE POINT (FTP)

NEW MEXICO EAST
NAD 1983
X=574950 Y=595660
LAT.: N 32.6374718
LONG.: W 104.2241403
330' FNL 100' FEL

LAST TAKE POINT (FTP)

NEW MEXICO EAST
NAD 1983
X=564577 Y=595850
LAT.: N 32.6380176
LONG.: W 104.2578370
330' FNL 100' FWL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=564527 Y=595851
LAT.: N 32.6380202
LONG.: W 104.2579994
330' FNL 50' FWL

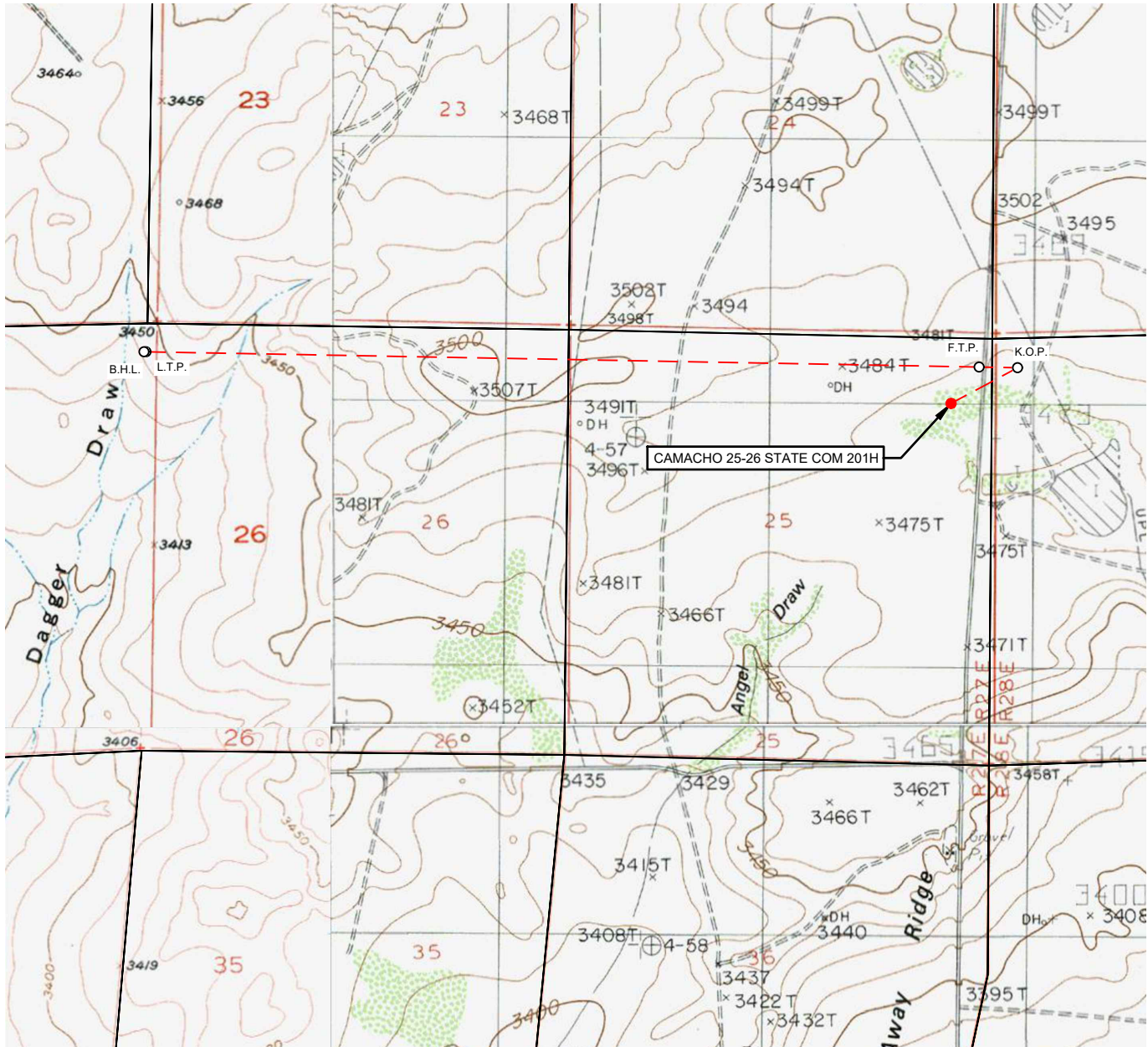
SURVEYORS CERTIFICATION

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, 09/25/2024

Date of Survey



LOCATION & ELEVATION VERIFICATION MAP



Apache

LEASE NAME & WELL NO.: CAMACHO 25-26 STATE COM 201H

SECTION 25 TWP 19-S RGE 27-E SURVEY N.M.P.M.
 COUNTY EDDY STATE NM ELEVATION 3474'
 DESCRIPTION 790' FNL & 445' FEL

LATITUDE N 32.6362283 LONGITUDE W 104.2252764

SCALE: 1" = 2000'
 0' 1000' 2000'

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY APACHE CORPORATION. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

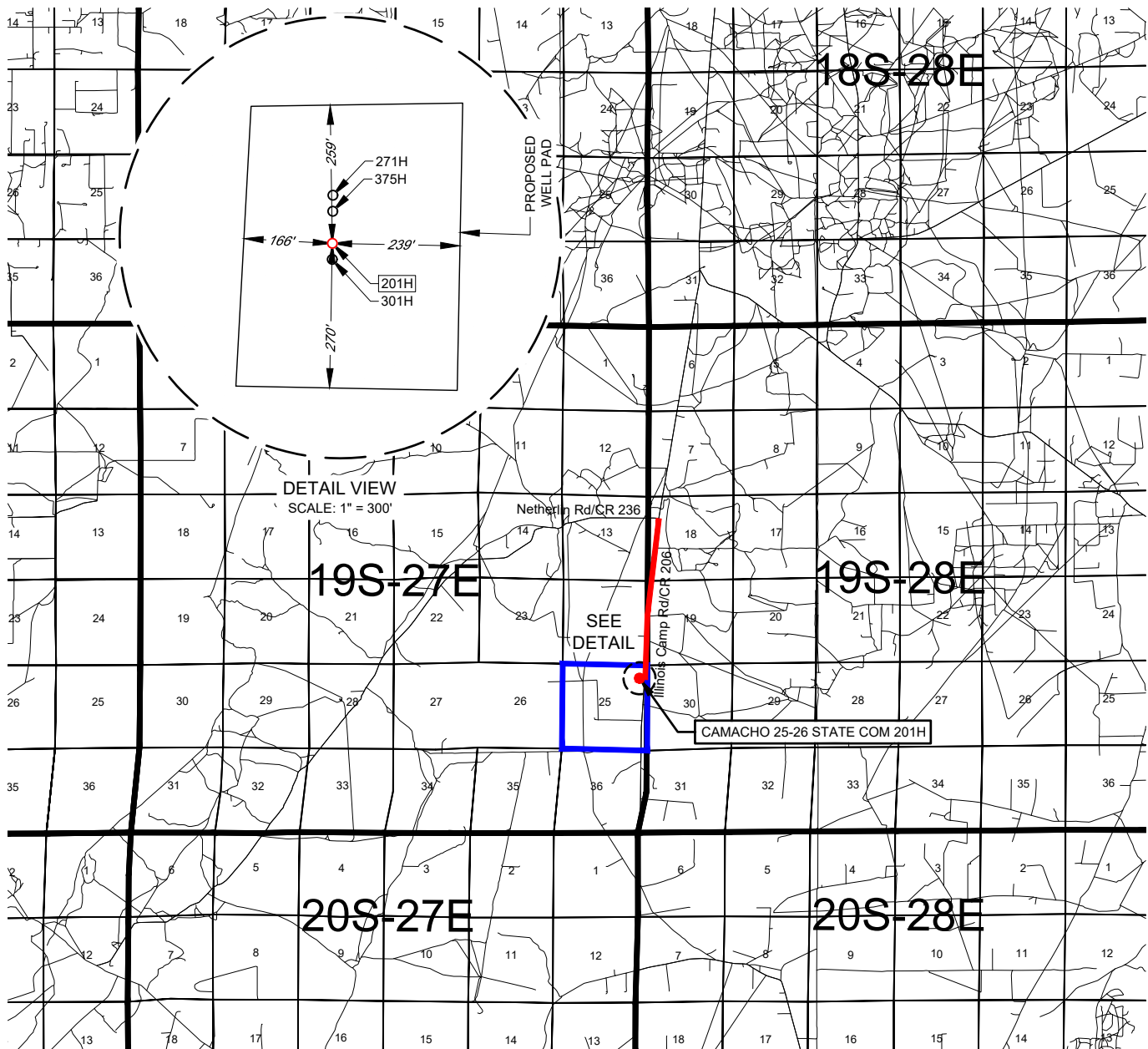
TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

481 WINSOFT ROAD, Ste. 200 • BENBROOK, TEXAS 76126

TELEPHONE: (817) 744-7512 • FAX (817) 744-7554

2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705

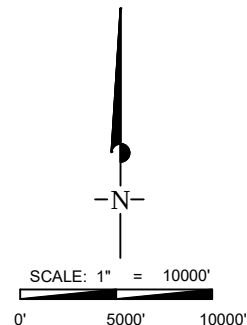
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM

EXHIBIT 2
VICINITY MAP

LEASE NAME & WELL NO.: CAMACHO 25-26 STATE COM 201H

SECTION 25 TWP 19-S RGE 27-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 790' FNL & 445' FEL

DISTANCE & DIRECTION

FROM INT. OF NETHERLIN RD/ CR-236. & ILLINOIS CAMP RD/ CR-206.
GO SOUTH ON ILLINOIS CAMP RD/ CR-206 ±2.0 MILES TO A POINT ±339
FEET EAST OF THE LOCATION.481 WINSBOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM

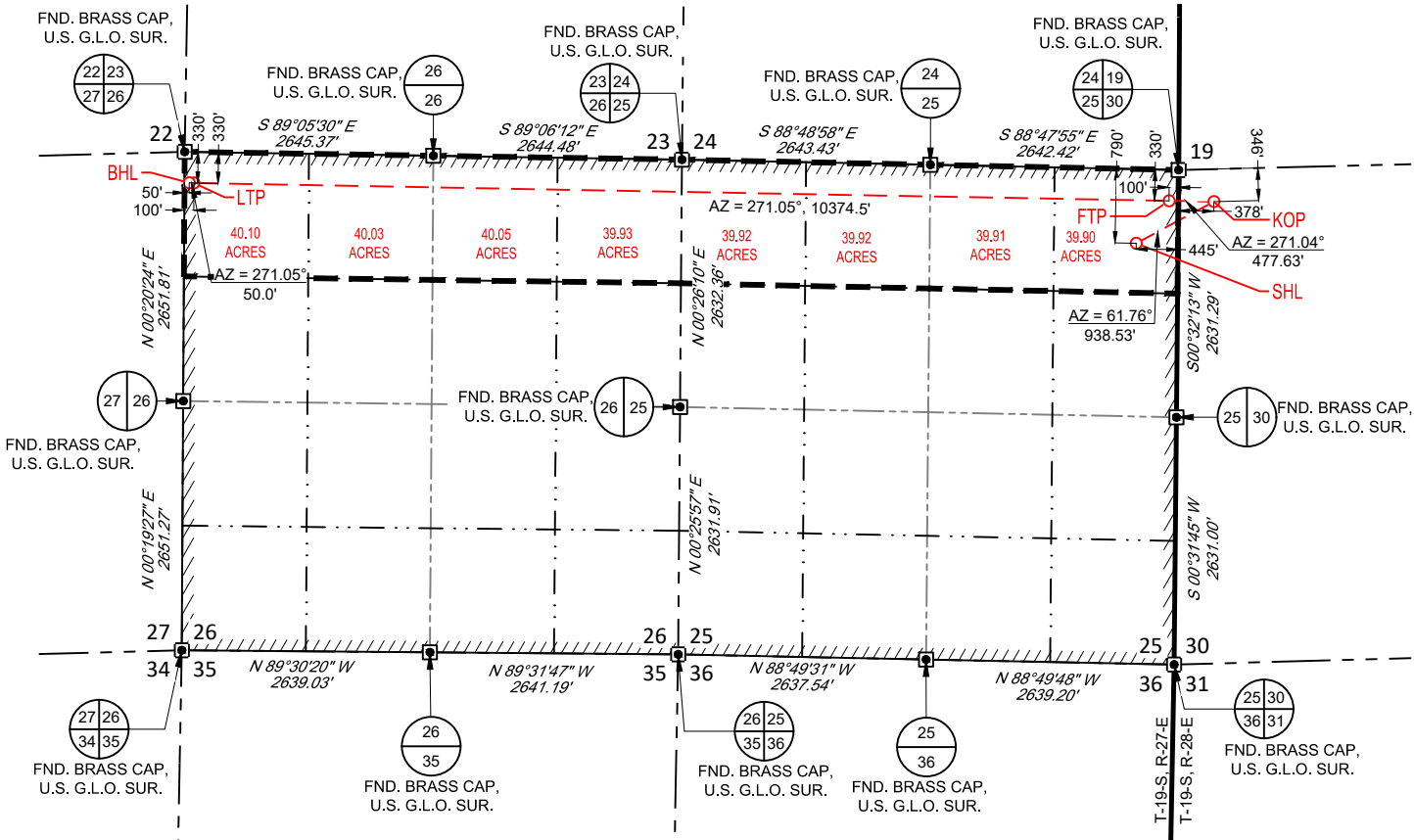
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EXHIBIT 2A

SECTION 25, TOWNSHIP 19-S, RANGE 27-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=574601 Y=595208
LAT.: N 32.6362283
LONG.: W 104.2252764
790' FNL 445' FEL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=575427 Y=595652
LAT.: N 32.6374466
LONG.: W 104.2225890
346' FNL 378' FWL

FIRST TAKE POINT (FTP)

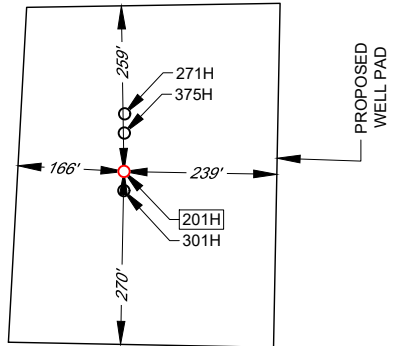
NEW MEXICO EAST
NAD 1983
X=574950 Y=595660
LAT.: N 32.6374718
LONG.: W 104.2241403
330' FNL 100' FEL

LAST TAKE POINT (FTP)

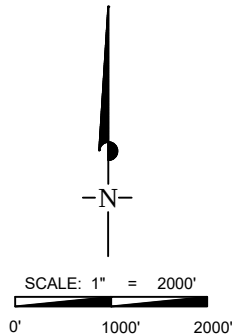
NEW MEXICO EAST
NAD 1983
X=564577 Y=595850
LAT.: N 32.6380176
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BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=564527 Y=595851
LAT.: N 32.6380202
LONG.: W 104.2579994
330' FNL 50' FWL



DETAIL VIEW
SCALE: 1" = 300'



LEASE NAME & WELL NO.: CAMACHO 25-26 STATE COM 201H

SECTION 25 TWP 19-S RGE 27-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 790' FNL & 445' FEL

DISTANCE & DIRECTION
FROM INT. OF NETHERLIN RD/ CR-236. & ILLINOIS CAMP RD/ CR-206.
GO SOUTH ON ILLINOIS CAMP RD/ CR-206 ±2.0 MILES TO A POINT
±339 FEET EAST OF THE LOCATION.



Angel M. Baeza, P.S. No. 25116

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY
FEET.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND
UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF
SURVEY, AND DATA PROVIDED BY APACHE CORPORATION. THIS CERTIFICATION IS MADE AND LIMITED
TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE.
THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



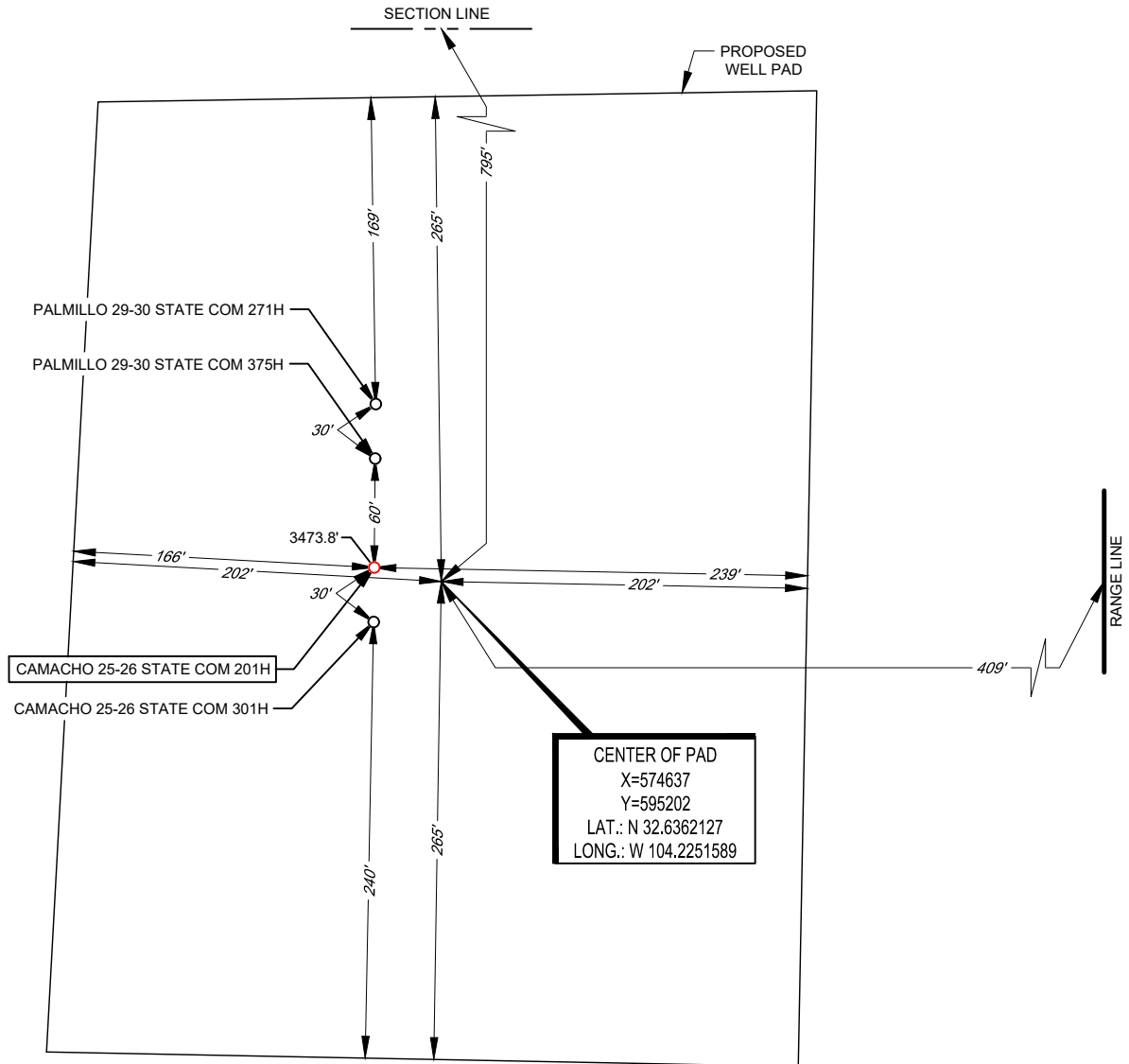
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LEGEND

—— RANGE LINE
 --- SECTION LINE



SECTION 25, TOWNSHIP 19-S, RANGE 27-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO



Angel M. Baeza, P.S. No. 25116

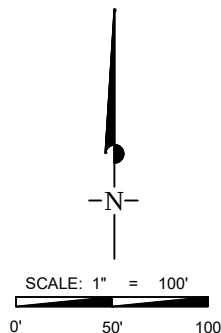
LEASE NAME & WELL NO.: CAMACHO 25-26 STATE COM 201H
 201H LATITUDE N 32.6362283 201H LONGITUDE W 104.2252764

CENTER OF PAD IS 795' FNL & 409' FEL

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY APACHE CORPORATION. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO. ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



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 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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 WWW.TOPOGRAPHIC.COM

Apache Corporation

Eddy Co, NM (NAD83 NM E)

Camacho 25 26

Camacho 25-26 State Com 201H

OH

Plan: Plan #1

Standard Planning Report

10 October, 2024



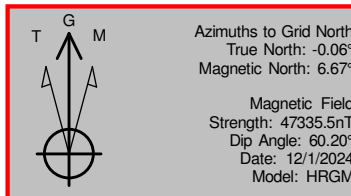
Project: Eddy Co. NM (NAD83 NM E)
Site: Camacho 25 26
Well: Camacho 25-26 State Com 201H
Wellbore: OH
Design: Plan #1
Lat: 32.636228
Long: -104.225276
GL: 3474.00
KB: PATT 879 @ 3499.00usft

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Camacho 25-26 201H - FTP	0.00	452.75	349.26	595660.40	574949.76	Point
Camacho 25-26 201H - KOP	0.00	444.08	826.80	595651.72	575427.30	Point
Camacho 25-26 201H - Off Lease	0.00	-1922.75	-322.51	593284.89	574278.00	Polygon
Camacho 25-26 201H - PP	0.00	444.07	826.80	595651.72	575427.31	Point
Camacho 25-26 201H - SC1	0.00	240.22	447.26	595447.87	575047.77	Point
Camacho 25-26 201H - SC2	0.00	450.99	449.24	595658.64	575049.74	Point
Camacho 25-26 201H - BHL	7000.00	643.15	-10073.51	595850.80	564527.00	Point
Camacho 25-26 201H - LTP	7000.00	642.35	-10023.51	595850.00	564577.00	Point

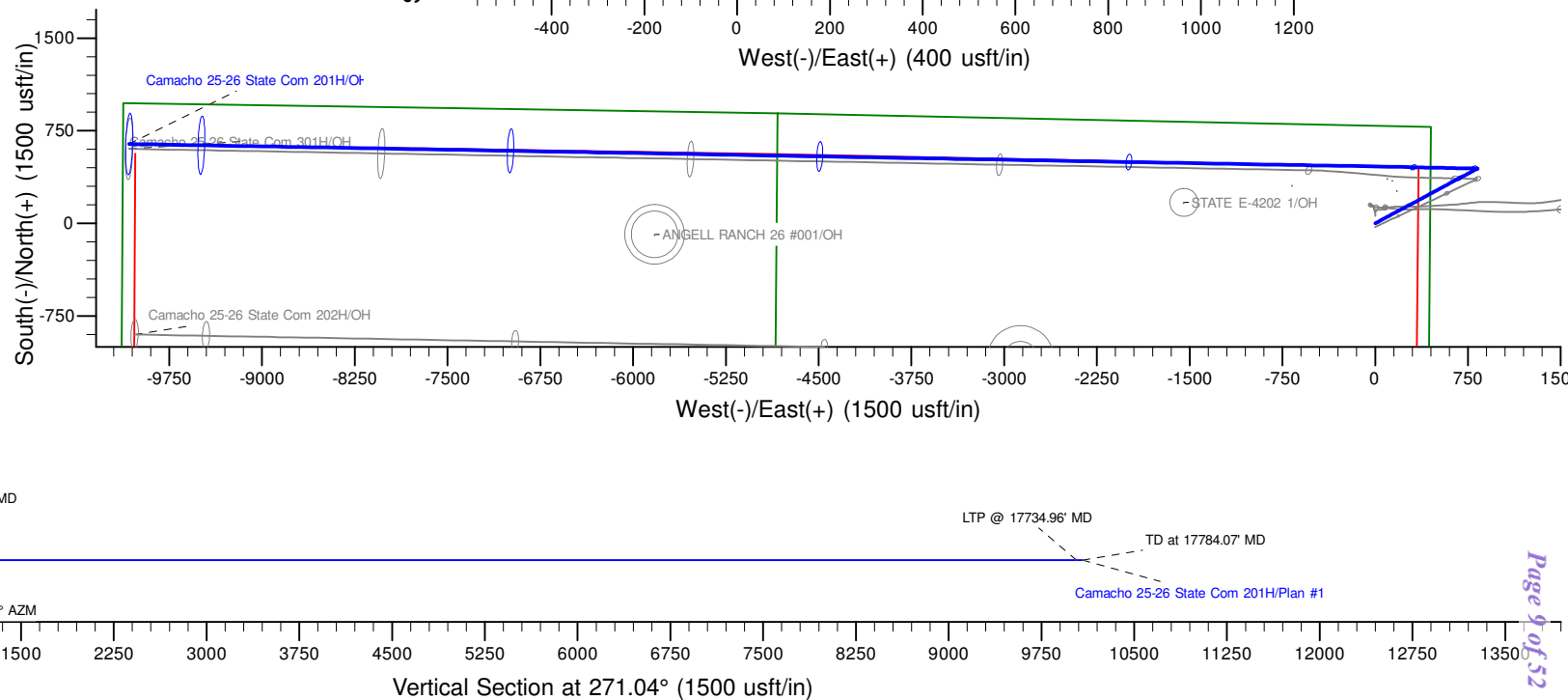
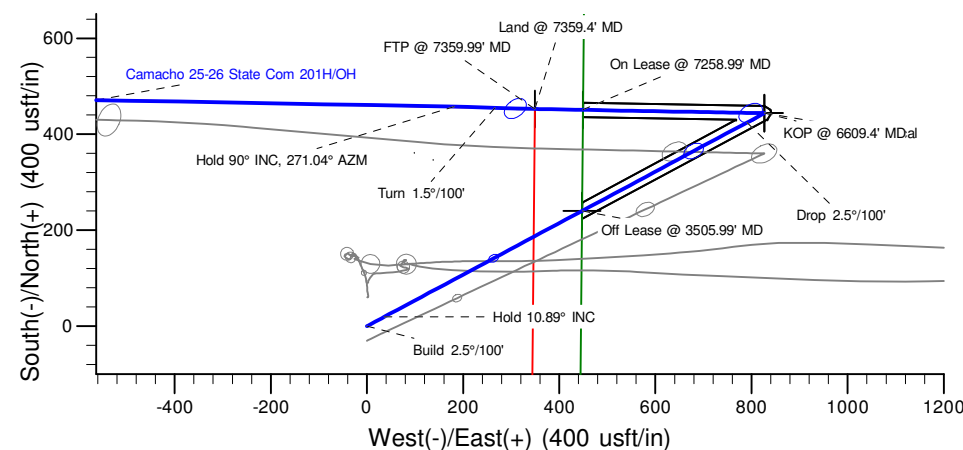
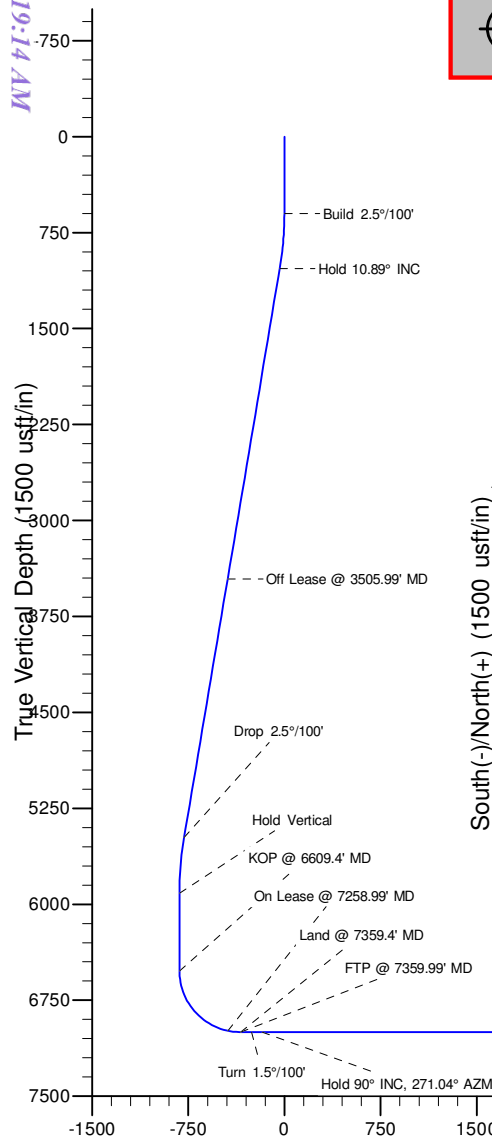
WELL DETAILS: Camacho 25-26 State Com 201H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	595207.65	574600.51	32.636228	-104.225276



SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	Build 2.5°/100'
1035.78	10.89	61.76	1033.16	19.54	36.39	2.50	61.76	-36.03	Hold 10.89° INC
5564.33	10.89	61.76	5480.09	424.53	790.41	0.00	0.00	-782.57	Drop 2.5°/100'
6000.11	0.00	0.00	5913.25	444.08	826.80	2.50	180.00	-818.60	Hold Vertical
6609.40	0.00	0.00	6522.54	444.08	826.80	0.00	0.00	-818.60	KOP @ 6609.4' MD
7359.40	90.00	271.05	7000.00	452.83	349.41	12.00	271.05	-341.14	Land @ 7359.4' MD
7442.73	90.00	272.30	7000.00	455.26	266.12	1.50	90.00	-257.81	Turn 1.5°/100'
7527.01	90.00	271.04	7000.00	457.71	181.88	1.50	-90.00	-173.54	Hold 90° INC, 271.04° AZM
17784.07	90.00	271.04	7000.00	643.15	-10073.51	0.00	0.00	10083.52	TD at 17784.07' MD



Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H	
Company:	Apache Corporation	TVD Reference:	PATT 879 @ 3499.00usft	
Project:	Eddy Co, NM (NAD83 NM E)	MD Reference:	PATT 879 @ 3499.00usft	
Site:	Camacho 25 26	North Reference:	Grid	
Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature	
Wellbore:	OH			
Design:	Plan #1			

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

Site	Camacho 25 26, Site Center : Camacho 25-26 State com 201H				
Site Position:		Northing:	593,284.90 usft	Latitude:	32.630944
From:	Map	Easting:	574,278.00 usft	Longitude:	-104.226331
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "		

Well	Camacho 25-26 State Com 201H					
Well Position	+N/-S	0.00 usft	Northing:	595,207.65 usft	Latitude:	32.636228
	+E/-W	0.00 usft	Easting:	574,600.51 usft	Longitude:	-104.225277
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,474.00 usft
Grid Convergence:		0.06 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	12/1/2024	6.72	60.20	47,335.52266392

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	271.04	

Plan Survey Tool Program	Date	10/10/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	17,784.07	Plan #1 (OH)	MWD+HRGM	
				OWSG MWD + HRGM	

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Company:	Apache Corporation	TVD Reference:	PATT 879 @ 3499.00usft
Project:	Eddy Co, NM (NAD83 NM E)	MD Reference:	PATT 879 @ 3499.00usft
Site:	Camacho 25 26	North Reference:	Grid
Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,035.78	10.89	61.76	1,033.16	19.54	36.39	2.50	2.50	0.00	61.76	
5,564.33	10.89	61.76	5,480.09	424.53	790.41	0.00	0.00	0.00	0.00	
6,000.11	0.00	0.00	5,913.25	444.08	826.80	2.50	-2.50	0.00	180.00	
6,609.40	0.00	0.00	6,522.54	444.08	826.80	0.00	0.00	0.00	0.00	
7,359.40	90.00	271.05	7,000.00	452.83	349.41	12.00	12.00	0.00	271.05	
7,442.73	90.00	272.30	7,000.00	455.26	266.12	1.50	0.00	1.50	90.00	
7,527.01	90.00	271.04	7,000.00	457.71	181.88	1.50	0.00	-1.50	-90.00	
17,784.07	90.00	271.04	7,000.00	643.15	-10,073.51	0.00	0.00	0.00	0.00	Camacho 25-26 201H

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Company:	Apache Corporation	TVD Reference:	PATT 879 @ 3499.00usft
Project:	Eddy Co, NM (NAD83 NM E)	MD Reference:	PATT 879 @ 3499.00usft
Site:	Camacho 25 26	North Reference:	Grid
Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 2.5°/100'									
700.00	2.50	61.76	699.97	1.03	1.92	-1.90	2.50	2.50	0.00
800.00	5.00	61.76	799.75	4.13	7.68	-7.61	2.50	2.50	0.00
900.00	7.50	61.76	899.14	9.28	17.27	-17.10	2.50	2.50	0.00
1,000.00	10.00	61.76	997.97	16.47	30.67	-30.37	2.50	2.50	0.00
1,035.78	10.89	61.76	1,033.16	19.54	36.39	-36.03	2.50	2.50	0.00
Hold 10.89° INC									
1,100.00	10.89	61.76	1,096.22	25.29	47.08	-46.62	0.00	0.00	0.00
1,200.00	10.89	61.76	1,194.42	34.23	63.73	-63.10	0.00	0.00	0.00
1,300.00	10.89	61.76	1,292.62	43.17	80.38	-79.59	0.00	0.00	0.00
1,400.00	10.89	61.76	1,390.81	52.12	97.03	-96.07	0.00	0.00	0.00
1,500.00	10.89	61.76	1,489.01	61.06	113.68	-112.56	0.00	0.00	0.00
1,600.00	10.89	61.76	1,587.21	70.00	130.33	-129.04	0.00	0.00	0.00
1,700.00	10.89	61.76	1,685.41	78.95	146.98	-145.53	0.00	0.00	0.00
1,800.00	10.89	61.76	1,783.61	87.89	163.63	-162.01	0.00	0.00	0.00
1,900.00	10.89	61.76	1,881.80	96.83	180.28	-178.50	0.00	0.00	0.00
2,000.00	10.89	61.76	1,980.00	105.77	196.94	-194.98	0.00	0.00	0.00
2,100.00	10.89	61.76	2,078.20	114.72	213.59	-211.47	0.00	0.00	0.00
2,200.00	10.89	61.76	2,176.40	123.66	230.24	-227.95	0.00	0.00	0.00
2,300.00	10.89	61.76	2,274.59	132.60	246.89	-244.44	0.00	0.00	0.00
2,400.00	10.89	61.76	2,372.79	141.55	263.54	-260.92	0.00	0.00	0.00
2,500.00	10.89	61.76	2,470.99	150.49	280.19	-277.41	0.00	0.00	0.00
2,600.00	10.89	61.76	2,569.19	159.43	296.84	-293.89	0.00	0.00	0.00
2,700.00	10.89	61.76	2,667.38	168.38	313.49	-310.38	0.00	0.00	0.00
2,800.00	10.89	61.76	2,765.58	177.32	330.14	-326.86	0.00	0.00	0.00
2,900.00	10.89	61.76	2,863.78	186.26	346.79	-343.35	0.00	0.00	0.00
3,000.00	10.89	61.76	2,961.98	195.20	363.44	-359.84	0.00	0.00	0.00
3,100.00	10.89	61.76	3,060.18	204.15	380.09	-376.32	0.00	0.00	0.00
3,200.00	10.89	61.76	3,158.37	213.09	396.74	-392.81	0.00	0.00	0.00
3,300.00	10.89	61.76	3,256.57	222.03	413.39	-409.29	0.00	0.00	0.00
3,400.00	10.89	61.76	3,354.77	230.98	430.04	-425.78	0.00	0.00	0.00
3,500.00	10.89	61.76	3,452.97	239.92	446.69	-442.26	0.00	0.00	0.00
3,505.99	10.89	61.76	3,458.85	240.45	447.69	-443.25	0.00	0.00	0.00
Off Lease @ 3505.99' MD									
3,600.00	10.89	61.76	3,551.16	248.86	463.34	-458.75	0.00	0.00	0.00
3,700.00	10.89	61.76	3,649.36	257.80	479.99	-475.23	0.00	0.00	0.00
3,800.00	10.89	61.76	3,747.56	266.75	496.64	-491.72	0.00	0.00	0.00
3,900.00	10.89	61.76	3,845.76	275.69	513.29	-508.20	0.00	0.00	0.00
4,000.00	10.89	61.76	3,943.96	284.63	529.94	-524.69	0.00	0.00	0.00
4,100.00	10.89	61.76	4,042.15	293.58	546.59	-541.17	0.00	0.00	0.00
4,200.00	10.89	61.76	4,140.35	302.52	563.24	-557.66	0.00	0.00	0.00
4,300.00	10.89	61.76	4,238.55	311.46	579.89	-574.14	0.00	0.00	0.00
4,400.00	10.89	61.76	4,336.75	320.41	596.54	-590.63	0.00	0.00	0.00
4,500.00	10.89	61.76	4,434.94	329.35	613.19	-607.11	0.00	0.00	0.00
4,600.00	10.89	61.76	4,533.14	338.29	629.84	-623.60	0.00	0.00	0.00
4,700.00	10.89	61.76	4,631.34	347.23	646.49	-640.08	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Company:	Apache Corporation	TVD Reference:	PATT 879 @ 3499.00usft
Project:	Eddy Co, NM (NAD83 NM E)	MD Reference:	PATT 879 @ 3499.00usft
Site:	Camacho 25 26	North Reference:	Grid
Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned 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)
4,800.00	10.89	61.76	4,729.54	356.18	663.14	-656.57	0.00	0.00	0.00
4,900.00	10.89	61.76	4,827.73	365.12	679.79	-673.06	0.00	0.00	0.00
5,000.00	10.89	61.76	4,925.93	374.06	696.44	-689.54	0.00	0.00	0.00
5,100.00	10.89	61.76	5,024.13	383.01	713.10	-706.03	0.00	0.00	0.00
5,200.00	10.89	61.76	5,122.33	391.95	729.75	-722.51	0.00	0.00	0.00
5,300.00	10.89	61.76	5,220.53	400.89	746.40	-739.00	0.00	0.00	0.00
5,400.00	10.89	61.76	5,318.72	409.83	763.05	-755.48	0.00	0.00	0.00
5,500.00	10.89	61.76	5,416.92	418.78	779.70	-771.97	0.00	0.00	0.00
5,564.33	10.89	61.76	5,480.09	424.53	790.41	-782.57	0.00	0.00	0.00
Drop 2.5°/100'									
5,600.00	10.00	61.76	5,515.17	427.59	796.11	-788.21	2.50	-2.50	0.00
5,700.00	7.50	61.76	5,614.00	434.79	809.51	-801.49	2.50	-2.50	0.00
5,800.00	5.00	61.76	5,713.39	439.94	819.11	-810.99	2.50	-2.50	0.00
5,900.00	2.50	61.76	5,813.17	443.04	824.87	-816.69	2.50	-2.50	0.00
6,000.11	0.00	0.00	5,913.25	444.08	826.80	-818.60	2.50	-2.50	0.00
Hold Vertical									
6,100.00	0.00	0.00	6,013.14	444.08	826.80	-818.60	0.00	0.00	0.00
6,200.00	0.00	0.00	6,113.14	444.08	826.80	-818.60	0.00	0.00	0.00
6,300.00	0.00	0.00	6,213.14	444.08	826.80	-818.60	0.00	0.00	0.00
6,400.00	0.00	0.00	6,313.14	444.08	826.80	-818.60	0.00	0.00	0.00
6,500.00	0.00	0.00	6,413.14	444.08	826.80	-818.60	0.00	0.00	0.00
6,609.40	0.00	0.00	6,522.54	444.08	826.80	-818.60	0.00	0.00	0.00
KOP @ 6609.4' MD									
6,625.00	1.87	271.05	6,538.14	444.08	826.54	-818.35	12.00	12.00	0.00
6,650.00	4.87	271.05	6,563.09	444.11	825.07	-816.88	12.00	12.00	0.00
6,675.00	7.87	271.05	6,587.93	444.16	822.30	-814.10	12.00	12.00	0.00
6,700.00	10.87	271.05	6,612.60	444.23	818.23	-810.03	12.00	12.00	0.00
6,725.00	13.87	271.05	6,637.01	444.33	812.87	-804.67	12.00	12.00	0.00
6,750.00	16.87	271.05	6,661.12	444.45	806.25	-798.05	12.00	12.00	0.00
6,775.00	19.87	271.05	6,684.84	444.60	798.37	-790.17	12.00	12.00	0.00
6,800.00	22.87	271.05	6,708.12	444.76	789.26	-781.06	12.00	12.00	0.00
6,825.00	25.87	271.05	6,730.89	444.95	778.95	-770.74	12.00	12.00	0.00
6,850.00	28.87	271.05	6,753.09	445.16	767.46	-759.25	12.00	12.00	0.00
6,875.00	31.87	271.05	6,774.65	445.39	754.82	-746.61	12.00	12.00	0.00
6,900.00	34.87	271.05	6,795.53	445.65	741.07	-732.86	12.00	12.00	0.00
6,925.00	37.87	271.05	6,815.66	445.92	726.25	-718.04	12.00	12.00	0.00
6,950.00	40.87	271.05	6,834.98	446.21	710.40	-702.18	12.00	12.00	0.00
6,975.00	43.87	271.05	6,853.45	446.52	693.55	-685.34	12.00	12.00	0.00
7,000.00	46.87	271.05	6,871.01	446.84	675.77	-667.55	12.00	12.00	0.00
7,025.00	49.87	271.05	6,887.61	447.19	657.09	-648.86	12.00	12.00	0.00
7,050.00	52.87	271.05	6,903.22	447.54	637.56	-629.33	12.00	12.00	0.00
7,075.00	55.87	271.05	6,917.78	447.92	617.25	-609.01	12.00	12.00	0.00
7,100.00	58.87	271.05	6,931.26	448.30	596.20	-587.96	12.00	12.00	0.00
7,125.00	61.87	271.05	6,943.61	448.70	574.47	-566.23	12.00	12.00	0.00
7,150.00	64.87	271.05	6,954.82	449.11	552.13	-543.89	12.00	12.00	0.00
7,175.00	67.87	271.05	6,964.84	449.53	529.23	-520.99	12.00	12.00	0.00
7,200.00	70.87	271.05	6,973.64	449.96	505.84	-497.59	12.00	12.00	0.00
7,225.00	73.87	271.05	6,981.21	450.39	482.02	-473.77	12.00	12.00	0.00
7,250.00	76.87	271.05	6,987.53	450.84	457.84	-449.58	12.00	12.00	0.00
7,258.99	77.95	271.05	6,989.49	451.00	449.07	-440.81	12.00	12.00	0.00
On Lease @ 7258.99' MD									
7,275.00	79.87	271.05	6,992.56	451.29	433.36	-425.10	12.00	12.00	0.00
7,300.00	82.87	271.05	6,996.31	451.74	408.65	-400.38	12.00	12.00	0.00
7,325.00	85.87	271.05	6,998.77	452.20	383.78	-375.51	12.00	12.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Company:	Apache Corporation	TVD Reference:	PATT 879 @ 3499.00usft
Project:	Eddy Co, NM (NAD83 NM E)	MD Reference:	PATT 879 @ 3499.00usft
Site:	Camacho 25 26	North Reference:	Grid
Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned 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)
7,350.00	88.87	271.05	6,999.91	452.65	358.81	-350.53	12.00	12.00	0.00
7,359.40	90.00	271.05	7,000.00	452.83	349.41	-341.14	12.00	12.00	0.00
Land @ 7359.4' MD									
7,359.99	90.00	271.06	7,000.00	452.84	348.82	-340.55	1.50	0.00	1.50
FTP @ 7359.99' MD									
7,400.00	90.00	271.66	7,000.00	453.78	308.82	-300.54	1.50	0.00	1.50
7,442.73	90.00	272.30	7,000.00	455.26	266.12	-257.81	1.50	0.00	1.50
Turn 1.5°/100'									
7,500.00	90.00	271.44	7,000.00	457.13	208.88	-200.55	1.50	0.00	-1.50
7,527.01	90.00	271.04	7,000.00	457.71	181.88	-173.54	1.50	0.00	-1.50
Hold 90° INC, 271.04° AZM									
7,600.00	90.00	271.04	7,000.00	459.03	108.90	-100.55	0.00	0.00	0.00
7,700.00	90.00	271.04	7,000.00	460.84	8.92	-0.55	0.00	0.00	0.00
7,800.00	90.00	271.04	7,000.00	462.65	-91.07	99.45	0.00	0.00	0.00
7,900.00	90.00	271.04	7,000.00	464.46	-191.05	199.45	0.00	0.00	0.00
8,000.00	90.00	271.04	7,000.00	466.27	-291.04	299.45	0.00	0.00	0.00
8,100.00	90.00	271.04	7,000.00	468.07	-391.02	399.45	0.00	0.00	0.00
8,200.00	90.00	271.04	7,000.00	469.88	-491.00	499.45	0.00	0.00	0.00
8,300.00	90.00	271.04	7,000.00	471.69	-590.99	599.45	0.00	0.00	0.00
8,400.00	90.00	271.04	7,000.00	473.50	-690.97	699.45	0.00	0.00	0.00
8,500.00	90.00	271.04	7,000.00	475.30	-790.95	799.45	0.00	0.00	0.00
8,600.00	90.00	271.04	7,000.00	477.11	-890.94	899.45	0.00	0.00	0.00
8,700.00	90.00	271.04	7,000.00	478.92	-990.92	999.45	0.00	0.00	0.00
8,800.00	90.00	271.04	7,000.00	480.73	-1,090.91	1,099.45	0.00	0.00	0.00
8,900.00	90.00	271.04	7,000.00	482.54	-1,190.89	1,199.45	0.00	0.00	0.00
9,000.00	90.00	271.04	7,000.00	484.34	-1,290.87	1,299.45	0.00	0.00	0.00
9,100.00	90.00	271.04	7,000.00	486.15	-1,390.86	1,399.45	0.00	0.00	0.00
9,200.00	90.00	271.04	7,000.00	487.96	-1,490.84	1,499.45	0.00	0.00	0.00
9,300.00	90.00	271.04	7,000.00	489.77	-1,590.82	1,599.45	0.00	0.00	0.00
9,400.00	90.00	271.04	7,000.00	491.58	-1,690.81	1,699.45	0.00	0.00	0.00
9,500.00	90.00	271.04	7,000.00	493.38	-1,790.79	1,799.45	0.00	0.00	0.00
9,600.00	90.00	271.04	7,000.00	495.19	-1,890.77	1,899.45	0.00	0.00	0.00
9,700.00	90.00	271.04	7,000.00	497.00	-1,990.76	1,999.45	0.00	0.00	0.00
9,800.00	90.00	271.04	7,000.00	498.81	-2,090.74	2,099.45	0.00	0.00	0.00
9,900.00	90.00	271.04	7,000.00	500.62	-2,190.73	2,199.45	0.00	0.00	0.00
10,000.00	90.00	271.04	7,000.00	502.42	-2,290.71	2,299.45	0.00	0.00	0.00
10,100.00	90.00	271.04	7,000.00	504.23	-2,390.69	2,399.45	0.00	0.00	0.00
10,200.00	90.00	271.04	7,000.00	506.04	-2,490.68	2,499.45	0.00	0.00	0.00
10,300.00	90.00	271.04	7,000.00	507.85	-2,590.66	2,599.45	0.00	0.00	0.00
10,400.00	90.00	271.04	7,000.00	509.65	-2,690.64	2,699.45	0.00	0.00	0.00
10,500.00	90.00	271.04	7,000.00	511.46	-2,790.63	2,799.45	0.00	0.00	0.00
10,600.00	90.00	271.04	7,000.00	513.27	-2,890.61	2,899.45	0.00	0.00	0.00
10,700.00	90.00	271.04	7,000.00	515.08	-2,990.59	2,999.45	0.00	0.00	0.00
10,800.00	90.00	271.04	7,000.00	516.89	-3,090.58	3,099.45	0.00	0.00	0.00
10,900.00	90.00	271.04	7,000.00	518.69	-3,190.56	3,199.45	0.00	0.00	0.00
11,000.00	90.00	271.04	7,000.00	520.50	-3,290.55	3,299.45	0.00	0.00	0.00
11,100.00	90.00	271.04	7,000.00	522.31	-3,390.53	3,399.45	0.00	0.00	0.00
11,200.00	90.00	271.04	7,000.00	524.12	-3,490.51	3,499.45	0.00	0.00	0.00
11,300.00	90.00	271.04	7,000.00	525.93	-3,590.50	3,599.45	0.00	0.00	0.00
11,400.00	90.00	271.04	7,000.00	527.73	-3,690.48	3,699.45	0.00	0.00	0.00
11,500.00	90.00	271.04	7,000.00	529.54	-3,790.46	3,799.45	0.00	0.00	0.00
11,600.00	90.00	271.04	7,000.00	531.35	-3,890.45	3,899.45	0.00	0.00	0.00
11,700.00	90.00	271.04	7,000.00	533.16	-3,990.43	3,999.45	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Company:	Apache Corporation	TVD Reference:	PATT 879 @ 3499.00usft
Project:	Eddy Co, NM (NAD83 NM E)	MD Reference:	PATT 879 @ 3499.00usft
Site:	Camacho 25 26	North Reference:	Grid
Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned 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)
11,800.00	90.00	271.04	7,000.00	534.97	-4,090.41	4,099.45	0.00	0.00	0.00
11,900.00	90.00	271.04	7,000.00	536.77	-4,190.40	4,199.45	0.00	0.00	0.00
12,000.00	90.00	271.04	7,000.00	538.58	-4,290.38	4,299.45	0.00	0.00	0.00
12,100.00	90.00	271.04	7,000.00	540.39	-4,390.37	4,399.45	0.00	0.00	0.00
12,200.00	90.00	271.04	7,000.00	542.20	-4,490.35	4,499.45	0.00	0.00	0.00
12,300.00	90.00	271.04	7,000.00	544.01	-4,590.33	4,599.45	0.00	0.00	0.00
12,400.00	90.00	271.04	7,000.00	545.81	-4,690.32	4,699.45	0.00	0.00	0.00
12,500.00	90.00	271.04	7,000.00	547.62	-4,790.30	4,799.45	0.00	0.00	0.00
12,600.00	90.00	271.04	7,000.00	549.43	-4,890.28	4,899.45	0.00	0.00	0.00
12,700.00	90.00	271.04	7,000.00	551.24	-4,990.27	4,999.45	0.00	0.00	0.00
12,800.00	90.00	271.04	7,000.00	553.04	-5,090.25	5,099.45	0.00	0.00	0.00
12,900.00	90.00	271.04	7,000.00	554.85	-5,190.24	5,199.45	0.00	0.00	0.00
13,000.00	90.00	271.04	7,000.00	556.66	-5,290.22	5,299.45	0.00	0.00	0.00
13,100.00	90.00	271.04	7,000.00	558.47	-5,390.20	5,399.45	0.00	0.00	0.00
13,200.00	90.00	271.04	7,000.00	560.28	-5,490.19	5,499.45	0.00	0.00	0.00
13,300.00	90.00	271.04	7,000.00	562.08	-5,590.17	5,599.45	0.00	0.00	0.00
13,400.00	90.00	271.04	7,000.00	563.89	-5,690.15	5,699.45	0.00	0.00	0.00
13,500.00	90.00	271.04	7,000.00	565.70	-5,790.14	5,799.45	0.00	0.00	0.00
13,600.00	90.00	271.04	7,000.00	567.51	-5,890.12	5,899.45	0.00	0.00	0.00
13,700.00	90.00	271.04	7,000.00	569.32	-5,990.10	5,999.45	0.00	0.00	0.00
13,800.00	90.00	271.04	7,000.00	571.12	-6,090.09	6,099.45	0.00	0.00	0.00
13,900.00	90.00	271.04	7,000.00	572.93	-6,190.07	6,199.45	0.00	0.00	0.00
14,000.00	90.00	271.04	7,000.00	574.74	-6,290.06	6,299.45	0.00	0.00	0.00
14,100.00	90.00	271.04	7,000.00	576.55	-6,390.04	6,399.45	0.00	0.00	0.00
14,200.00	90.00	271.04	7,000.00	578.36	-6,490.02	6,499.45	0.00	0.00	0.00
14,300.00	90.00	271.04	7,000.00	580.16	-6,590.01	6,599.45	0.00	0.00	0.00
14,400.00	90.00	271.04	7,000.00	581.97	-6,689.99	6,699.45	0.00	0.00	0.00
14,500.00	90.00	271.04	7,000.00	583.78	-6,789.97	6,799.45	0.00	0.00	0.00
14,600.00	90.00	271.04	7,000.00	585.59	-6,889.96	6,899.45	0.00	0.00	0.00
14,700.00	90.00	271.04	7,000.00	587.39	-6,989.94	6,999.45	0.00	0.00	0.00
14,800.00	90.00	271.04	7,000.00	589.20	-7,089.92	7,099.45	0.00	0.00	0.00
14,900.00	90.00	271.04	7,000.00	591.01	-7,189.91	7,199.45	0.00	0.00	0.00
15,000.00	90.00	271.04	7,000.00	592.82	-7,289.89	7,299.45	0.00	0.00	0.00
15,100.00	90.00	271.04	7,000.00	594.63	-7,389.88	7,399.45	0.00	0.00	0.00
15,200.00	90.00	271.04	7,000.00	596.43	-7,489.86	7,499.45	0.00	0.00	0.00
15,300.00	90.00	271.04	7,000.00	598.24	-7,589.84	7,599.45	0.00	0.00	0.00
15,400.00	90.00	271.04	7,000.00	600.05	-7,689.83	7,699.45	0.00	0.00	0.00
15,500.00	90.00	271.04	7,000.00	601.86	-7,789.81	7,799.45	0.00	0.00	0.00
15,600.00	90.00	271.04	7,000.00	603.67	-7,889.79	7,899.45	0.00	0.00	0.00
15,700.00	90.00	271.04	7,000.00	605.47	-7,989.78	7,999.45	0.00	0.00	0.00
15,800.00	90.00	271.04	7,000.00	607.28	-8,089.76	8,099.45	0.00	0.00	0.00
15,900.00	90.00	271.04	7,000.00	609.09	-8,189.74	8,199.45	0.00	0.00	0.00
16,000.00	90.00	271.04	7,000.00	610.90	-8,289.73	8,299.45	0.00	0.00	0.00
16,100.00	90.00	271.04	7,000.00	612.71	-8,389.71	8,399.45	0.00	0.00	0.00
16,200.00	90.00	271.04	7,000.00	614.51	-8,489.70	8,499.45	0.00	0.00	0.00
16,300.00	90.00	271.04	7,000.00	616.32	-8,589.68	8,599.45	0.00	0.00	0.00
16,400.00	90.00	271.04	7,000.00	618.13	-8,689.66	8,699.45	0.00	0.00	0.00
16,500.00	90.00	271.04	7,000.00	619.94	-8,789.65	8,799.45	0.00	0.00	0.00
16,600.00	90.00	271.04	7,000.00	621.75	-8,889.63	8,899.45	0.00	0.00	0.00
16,700.00	90.00	271.04	7,000.00	623.55	-8,989.61	8,999.45	0.00	0.00	0.00
16,800.00	90.00	271.04	7,000.00	625.36	-9,089.60	9,099.45	0.00	0.00	0.00
16,900.00	90.00	271.04	7,000.00	627.17	-9,189.58	9,199.45	0.00	0.00	0.00
17,000.00	90.00	271.04	7,000.00	628.98	-9,289.57	9,299.45	0.00	0.00	0.00
17,100.00	90.00	271.04	7,000.00	630.78	-9,389.55	9,399.45	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Company:	Apache Corporation	TVD Reference:	PATT 879 @ 3499.00usft
Project:	Eddy Co, NM (NAD83 NM E)	MD Reference:	PATT 879 @ 3499.00usft
Site:	Camacho 25 26	North Reference:	Grid
Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned 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)
17,200.00	90.00	271.04	7,000.00	632.59	-9,489.53	9,499.45	0.00	0.00	0.00
17,300.00	90.00	271.04	7,000.00	634.40	-9,589.52	9,599.45	0.00	0.00	0.00
17,400.00	90.00	271.04	7,000.00	636.21	-9,689.50	9,699.45	0.00	0.00	0.00
17,500.00	90.00	271.04	7,000.00	638.02	-9,789.48	9,799.45	0.00	0.00	0.00
17,600.00	90.00	271.04	7,000.00	639.82	-9,889.47	9,899.45	0.00	0.00	0.00
17,700.00	90.00	271.04	7,000.00	641.63	-9,989.45	9,999.45	0.00	0.00	0.00
17,734.96	90.00	271.04	7,000.00	642.26	-10,024.41	10,034.41	0.00	0.00	0.00
LTP @ 17734.96' MD									
17,784.07	90.00	271.04	7,000.00	643.15	-10,073.51	10,083.52	0.00	0.00	0.00
TD at 17784.07' MD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
Camacho 25-26 201H -	0.00	0.00	0.00	450.99	449.24	595,658.64	575,049.75	32.637467	-104.223816
- plan misses target center by 636.56usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Camacho 25-26 201H -	0.00	0.00	0.00	452.75	349.26	595,660.40	574,949.77	32.637472	-104.224141
- plan misses target center by 571.81usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Camacho 25-26 201H -	0.00	0.00	0.00	-1,922.75	-322.51	593,284.90	574,278.00	32.630944	-104.226331
- plan misses target center by 1949.61usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Polygon									
Point 1			0.00	2,388.43	772.31	595,673.33	575,050.31		
Point 2			0.00	2,382.10	1,149.25	595,667.00	575,427.25		
Point 3			0.00	2,374.21	1,162.21	595,659.11	575,440.21		
Point 4			0.00	2,366.86	1,164.00	595,651.76	575,442.00		
Point 5			0.00	2,353.89	1,156.10	595,638.79	575,434.10		
Point 6			0.00	2,146.36	770.01	595,431.26	575,048.01		
Point 7			0.00	2,180.59	770.33	595,465.49	575,048.33		
Point 8			0.00	2,353.07	1,091.21	595,637.97	575,369.21		
Point 9			0.00	2,358.43	772.02	595,643.33	575,050.02		
Point 10			0.00	2,388.43	772.31	595,673.33	575,050.31		
Camacho 25-26 201H -	0.00	0.00	0.00	444.07	826.80	595,651.73	575,427.31	32.637447	-104.222589
- plan misses target center by 938.51usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Camacho 25-26 201H -	0.00	0.00	0.00	444.08	826.80	595,651.73	575,427.30	32.637447	-104.222589
- plan misses target center by 938.51usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Camacho 25-26 201H -	0.00	0.00	0.00	240.22	447.26	595,447.87	575,047.77	32.636887	-104.223823
- plan misses target center by 507.69usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									
Camacho 25-26 201H -	0.00	0.00	7,000.00	642.35	-10,023.51	595,850.00	564,577.00	32.638018	-104.257837
- plan misses target center by 0.10usft at 17734.06usft MD (7000.00 TVD, 642.25 N, -10023.51 E)									
- Point									
Camacho 25-26 201H -	0.00	0.00	7,000.00	643.15	-10,073.51	595,850.80	564,527.00	32.638020	-104.258000
- plan hits target center									
- Point									

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Company:	Apache Corporation	TVD Reference:	PATT 879 @ 3499.00usft
Project:	Eddy Co, NM (NAD83 NM E)	MD Reference:	PATT 879 @ 3499.00usft
Site:	Camacho 25 26	North Reference:	Grid
Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
600.00	600.00	0.00	0.00	Build 2.5°/100'	
1,035.78	1,033.16	19.54	36.39	Hold 10.89° INC	
3,505.99	3,458.85	240.45	447.69	Off Lease @ 3505.99' MD	
5,564.33	5,480.09	424.53	790.41	Drop 2.5°/100'	
6,000.11	5,913.25	444.08	826.80	Hold Vertical	
6,609.40	6,522.54	444.08	826.80	KOP @ 6609.4' MD	
7,258.99	6,989.49	451.00	449.07	On Lease @ 7258.99' MD	
7,359.40	7,000.00	452.83	349.41	Land @ 7359.4' MD	
7,359.99	7,000.00	452.84	348.82	FTP @ 7359.99' MD	
7,442.73	7,000.00	455.26	266.12	Turn 1.5°/100'	
7,527.01	7,000.00	457.71	181.88	Hold 90° INC, 271.04° AZM	
17,734.96	7,000.00	642.26	-10,024.41	LTP @ 17734.96' MD	
17,784.07	7,000.00	643.15	-10,073.51	TD at 17784.07' MD	

Apache Corporation

Eddy Co, NM (NAD83 NM E)

Camacho 25 26

Camacho 25-26 State Com 201H

OH

Plan #1

Anticollision Report

10 October, 2024

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference	Plan #1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	0.00 to 35,000.00usft	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum centre distance of 2,500.00usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program		Date	10/10/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.00	17,784.07	Plan #1 (OH)	MWD+HRGM	OWSG MWD + HRGM	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Camacho 25 26						
Camacho 25-26 State Com 202H - OH - Plan #1	6,609.40	6,717.46	1,541.12	1,495.96	34.121	CC
Camacho 25-26 State Com 202H - OH - Plan #1	17,700.00	17,863.93	1,545.54	1,177.38	4.198	ES
Camacho 25-26 State Com 202H - OH - Plan #1	17,784.07	17,877.63	1,547.21	1,177.52	4.185	SF
Camacho 25-26 State Com 203H - OH - Plan #1	566.33	567.33	2,008.89	2,004.20	428.565	CC
Camacho 25-26 State Com 203H - OH - Plan #1	600.00	600.00	2,008.89	2,003.99	410.035	ES
Camacho 25-26 State Com 203H - OH - Plan #1	3,300.00	3,061.99	2,497.83	2,475.03	109.558	SF
Camacho 25-26 State Com 204H - OH - Plan #1	566.33	567.33	2,038.45	2,033.76	434.873	CC
Camacho 25-26 State Com 204H - OH - Plan #1	600.00	600.00	2,038.45	2,033.55	416.069	ES
Camacho 25-26 State Com 204H - OH - Plan #1	2,300.00	1,525.60	2,482.44	2,469.19	187.419	SF
Camacho 25-26 State Com 301H - OH - Plan #1	600.00	600.00	30.02	24.30	5.255	CC, ES
Camacho 25-26 State Com 301H - OH - Plan #1	6,609.40	6,601.49	84.60	44.52	2.111	SF
Camacho 25 26 Offsets						
ANGELL RANCH 26 #001 - OH - OH	13,523.19	7,023.68	654.69	351.60	2.160	CC, ES, SF
EDDY GL STATE COM #001 - OH - OH	600.00	564.50	2,497.07	2,466.58	81.898	CC
EDDY GL STATE COM #001 - OH - OH	700.00	664.47	2,498.30	2,463.35	71.489	ES, SF
GUARDIAN 25 STATE COM #001 - OH - OH	10,547.57	6,986.45	1,607.59	1,357.51	6.428	CC
GUARDIAN 25 STATE COM #001 - OH - OH	10,600.00	6,986.45	1,608.44	1,357.35	6.406	ES
GUARDIAN 25 STATE COM #001 - OH - OH	10,700.00	6,986.45	1,614.80	1,361.99	6.387	SF
LAKEWOOD STATE COM #001 - OH - OH						Out of range
Palmillo 29-30 271H - OH - OH	1,351.20	1,349.38	86.86	77.38	9.167	CC
Palmillo 29-30 271H - OH - OH	1,400.00	1,397.61	87.13	77.22	8.791	ES
Palmillo 29-30 271H - OH - OH	7,200.00	7,186.84	335.98	290.43	7.377	SF
Palmillo 29-30 272H - OH - OH	7,362.40	6,983.51	1,751.91	1,706.98	38.994	CC, ES
Palmillo 29-30 272H - OH - OH	8,300.00	6,726.99	1,937.90	1,884.94	36.593	SF
Palmillo 29-30 273H - OH - OH	641.90	663.85	1,855.39	1,850.28	363.488	CC
Palmillo 29-30 273H - OH - OH	700.00	724.17	1,855.81	1,850.22	332.391	ES
Palmillo 29-30 273H - OH - OH	3,400.00	2,988.11	2,492.13	2,469.47	110.018	SF
Palmillo 29-30 274H - OH - OH						Out of range
Palmillo 29-30 375H - OH - OH	0.00	1.30	60.36			
Palmillo 29-30 375H - OH - OH	300.00	300.95	60.99	58.33	22.860	ES
Palmillo 29-30 375H - OH - OH	7,700.00	7,006.04	319.30	277.27	7.598	SF
Palmillo 29-30 376H - OH - OH	7,728.70	7,015.60	1,795.47	1,746.43	36.611	CC, ES
Palmillo 29-30 376H - OH - OH	8,500.00	7,017.00	1,954.13	1,895.78	33.491	SF
Palmillo 29-30 377H - OH - OH	651.40	678.50	1,885.06	1,879.83	361.007	CC
Palmillo 29-30 377H - OH - OH	700.00	728.78	1,885.35	1,879.73	335.282	ES
Palmillo 29-30 377H - OH - OH	3,700.00	3,250.99	2,490.72	2,466.13	101.307	SF

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Camacho 25 26 Offsets						
Palmillo 29-30 378H - OH - OH						Out of range
STATE E-4202 1 - OH - OH	600.00	581.00	1,555.90	1,524.74	49.934	CC
STATE E-4202 1 - OH - OH	700.00	680.97	1,557.70	1,522.03	43.680	ES
STATE E-4202 1 - OH - OH	2,700.00	2,648.38	1,860.06	1,735.60	14.944	SF
WHITE THORN 26 STATE COM #001 - OH - OH						Out of range

Offset Design: Camacho 25 26 - Camacho 25-26 State Com 202H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SuperiorQC MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference Measured Depth (usft)	Vertical Depth (usft)	Offset Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance				Rule Assigned:	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	1.00	0.00	0.00	0.00	-170.62	-1,952.65	-322.71	1,979.13					
100.00	100.00	101.00	100.00	0.86	0.25	-170.62	-1,952.65	-322.71	1,979.13	1,978.02	1.11	1,780.097		
200.00	200.00	201.00	200.00	1.46	0.61	-170.62	-1,952.65	-322.71	1,979.13	1,977.06	2.07	955.777		
300.00	300.00	301.00	300.00	1.90	0.97	-170.62	-1,952.65	-322.71	1,979.13	1,976.26	2.87	689.057		
400.00	400.00	401.00	400.00	2.26	1.33	-170.62	-1,952.65	-322.71	1,979.13	1,975.54	3.59	551.075		
500.00	500.00	501.00	500.00	2.57	1.69	-170.62	-1,952.65	-322.71	1,979.13	1,974.87	4.26	464.251		
600.00	600.00	601.99	600.99	2.86	2.05	-170.62	-1,952.65	-322.70	1,979.13	1,974.23	4.91	403.379		
700.00	699.97	801.21	800.05	3.47	2.76	127.61	-1,948.42	-317.05	1,977.91	1,971.87	6.03	327.793		
800.00	799.75	999.91	997.61	4.67	3.47	127.56	-1,935.97	-300.38	1,974.34	1,966.97	7.37	268.054		
900.00	899.14	1,197.58	1,192.26	5.65	4.18	127.48	-1,915.47	-272.96	1,968.45	1,959.85	8.60	228.759		
1,000.00	997.97	1,393.76	1,382.64	6.51	4.90	127.36	-1,887.24	-235.18	1,960.30	1,950.52	9.78	200.428		
1,035.78	1,033.16	1,440.50	1,427.53	6.60	5.08	127.36	-1,879.42	-224.73	1,956.98	1,946.98	10.00	195.688		
1,100.00	1,096.22	1,504.40	1,488.85	6.73	5.32	127.27	-1,868.66	-210.33	1,951.27	1,940.93	10.34	188.647		
1,200.00	1,194.42	1,603.89	1,584.32	6.96	5.70	127.13	-1,851.92	-187.93	1,942.40	1,931.46	10.94	177.545		
1,300.00	1,292.62	1,703.38	1,679.80	7.23	6.08	126.99	-1,835.17	-165.52	1,933.53	1,921.97	11.56	167.205		
1,400.00	1,390.81	1,802.88	1,775.28	7.51	6.46	126.84	-1,818.42	-143.11	1,924.68	1,912.48	12.20	157.754		
1,500.00	1,489.01	1,902.37	1,870.76	7.81	6.85	126.70	-1,801.68	-120.70	1,915.84	1,902.99	12.85	149.111		
1,600.00	1,587.21	2,001.86	1,966.23	8.13	7.24	126.55	-1,784.93	-98.29	1,907.01	1,893.51	13.51	141.198		
1,700.00	1,685.41	2,101.35	2,061.71	8.46	7.63	126.41	-1,768.18	-75.89	1,898.20	1,884.03	14.17	133.944		
1,800.00	1,783.61	2,200.84	2,157.19	8.80	8.02	126.26	-1,751.43	-53.48	1,889.39	1,874.55	14.84	127.281		
1,900.00	1,881.80	2,300.33	2,252.66	9.16	8.42	126.11	-1,734.69	-31.07	1,880.60	1,865.08	15.52	121.149		
2,000.00	1,980.00	2,399.82	2,348.14	9.52	8.81	125.96	-1,717.94	-8.66	1,871.83	1,855.62	16.21	115.495		
2,100.00	2,078.20	2,499.32	2,443.62	9.89	9.20	125.80	-1,701.19	13.75	1,863.06	1,846.17	16.90	110.270		
2,200.00	2,176.40	2,598.81	2,539.10	10.27	9.60	125.65	-1,684.44	36.15	1,854.31	1,836.72	17.59	105.433		
2,300.00	2,274.59	2,698.30	2,634.57	10.66	9.99	125.49	-1,667.70	58.56	1,845.57	1,827.29	18.28	100.944		
2,400.00	2,372.79	2,797.79	2,730.05	11.05	10.39	125.34	-1,650.95	80.97	1,836.85	1,817.87	18.98	96.771		
2,500.00	2,470.99	2,897.28	2,825.53	11.45	10.79	125.18	-1,634.20	103.38	1,828.14	1,808.46	19.68	92.883		
2,600.00	2,569.19	2,996.77	2,921.01	11.85	11.18	125.02	-1,617.46	125.79	1,819.44	1,799.06	20.38	89.255		
2,700.00	2,667.38	3,096.26	3,016.48	12.26	11.58	124.86	-1,600.71	148.19	1,810.76	1,789.67	21.09	85.861		
2,800.00	2,765.58	3,195.76	3,111.96	12.67	11.98	124.69	-1,583.96	170.60	1,802.09	1,780.30	21.80	82.683		
2,900.00	2,863.78	3,295.25	3,207.44	13.08	12.38	124.53	-1,567.21	193.01	1,793.44	1,770.94	22.50	79.700		
3,000.00	2,961.98	3,394.74	3,302.92	13.50	12.78	124.36	-1,550.47	215.42	1,784.80	1,761.59	23.21	76.896		
3,100.00	3,060.18	3,494.23	3,398.39	13.92	13.18	124.19	-1,533.72	237.83	1,776.18	1,752.26	23.92	74.256		
3,200.00	3,158.37	3,593.72	3,493.87	14.34	13.58	124.02	-1,516.97	260.24	1,767.57	1,742.94	24.63	71.767		
3,300.00	3,256.57	3,693.21	3,589.35	14.77	13.98	123.85	-1,500.23	282.64	1,758.98	1,733.64	25.34	69.417		
3,400.00	3,354.77	3,792.70	3,684.83	15.20	14.38	123.68	-1,483.48	305.05	1,750.40	1,724.35	26.05	67.194		
3,500.00	3,452.97	3,892.19	3,780.30	15.63	14.78	123.51	-1,466.73	327.46	1,741.84	1,715.08	26.76	65.090		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 - Camacho 25-26 State Com 202H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SuperiorQC MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
3,600.00	3,551.16	3,991.69	3,875.78	16.06	15.18	123.33	-1,449.98	349.87	1,733.30	1,705.83	27.47	63.095		
3,700.00	3,649.36	4,091.18	3,971.26	16.50	15.58	123.15	-1,433.24	372.28	1,724.77	1,696.59	28.18	61.201		
3,800.00	3,747.56	4,190.67	4,066.74	16.93	15.98	122.97	-1,416.49	394.68	1,716.26	1,687.37	28.89	59.401		
3,900.00	3,845.76	4,290.16	4,162.21	17.37	16.38	122.79	-1,399.74	417.09	1,707.77	1,678.16	29.60	57.688		
4,000.00	3,943.96	4,389.65	4,257.69	17.81	16.78	122.61	-1,382.99	439.50	1,699.29	1,668.98	30.31	56.057		
4,100.00	4,042.15	4,489.14	4,353.17	18.25	17.18	122.42	-1,366.25	461.91	1,690.83	1,659.81	31.02	54.501		
4,200.00	4,140.35	4,588.63	4,448.65	18.69	17.58	122.23	-1,349.50	484.32	1,682.39	1,650.66	31.73	53.017		
4,300.00	4,238.55	4,688.13	4,544.12	19.13	17.98	122.04	-1,332.75	506.72	1,673.97	1,641.53	32.44	51.598		
4,400.00	4,336.75	4,787.62	4,639.60	19.58	18.38	121.85	-1,316.01	529.13	1,665.56	1,632.41	33.15	50.242		
4,500.00	4,434.94	4,887.11	4,735.08	20.02	18.78	121.66	-1,299.26	551.54	1,657.18	1,623.32	33.86	48.944		
4,600.00	4,533.14	4,986.60	4,830.56	20.47	19.18	121.47	-1,282.51	573.95	1,648.81	1,614.25	34.57	47.700		
4,700.00	4,631.34	5,086.09	4,926.03	20.91	19.59	121.27	-1,265.76	596.36	1,640.46	1,605.19	35.27	46.508		
4,800.00	4,729.54	5,185.58	5,021.51	21.36	19.99	121.07	-1,249.02	618.76	1,632.13	1,596.16	35.98	45.364		
4,900.00	4,827.73	5,285.07	5,116.99	21.81	20.39	120.87	-1,232.27	641.17	1,623.83	1,587.14	36.68	44.265		
5,000.00	4,925.93	5,384.57	5,212.47	22.26	20.79	120.67	-1,215.52	663.58	1,615.54	1,578.15	37.39	43.209		
5,100.00	5,024.13	5,484.06	5,307.94	22.71	21.19	120.46	-1,198.77	685.99	1,607.27	1,569.18	38.09	42.194		
5,200.00	5,122.33	5,583.55	5,403.42	23.16	21.59	120.26	-1,182.03	708.40	1,599.02	1,560.23	38.79	41.217		
5,300.00	5,220.53	5,681.59	5,497.51	23.61	21.99	120.05	-1,165.53	730.48	1,590.80	1,551.30	39.49	40.281		
5,400.00	5,318.72	5,755.71	5,568.93	24.06	22.28	119.92	-1,153.66	746.35	1,583.48	1,543.35	40.13	39.462		
5,500.00	5,416.92	5,830.09	5,641.09	24.51	22.58	119.85	-1,142.88	760.78	1,577.78	1,537.02	40.76	38.711		
5,564.33	5,480.09	5,878.04	5,687.85	24.79	22.76	119.83	-1,136.52	769.29	1,574.96	1,533.81	41.15	38.274		
5,600.00	5,515.17	5,900.00	5,709.32	24.95	22.85	119.80	-1,133.76	772.97	1,573.55	1,532.21	41.34	38.061		
5,700.00	5,614.00	5,979.25	5,787.09	25.45	23.14	119.65	-1,124.64	785.18	1,569.20	1,527.25	41.95	37.411		
5,800.00	5,713.39	6,053.89	5,860.70	26.00	23.42	119.44	-1,117.23	795.10	1,564.31	1,521.82	42.49	36.814		
5,900.00	5,813.17	6,128.59	5,934.66	26.51	23.69	119.18	-1,110.96	803.48	1,558.89	1,515.93	42.97	36.283		
5,999.99	5,913.13	6,200.00	6,005.59	26.77	23.94	-179.38	-1,106.06	810.05	1,552.98	1,509.61	43.37	35.811		
6,000.11	5,913.25	6,200.00	6,005.59	26.77	23.94	-179.38	-1,106.06	810.05	1,552.97	1,509.60	43.37	35.810		
6,100.00	6,013.14	6,278.32	6,083.60	26.82	24.21	-179.59	-1,101.89	815.62	1,547.61	1,503.93	43.68	35.430		
6,200.00	6,113.14	6,353.59	6,158.72	26.85	24.46	-179.72	-1,099.10	819.36	1,543.86	1,499.96	43.91	35.163		
6,300.00	6,213.14	6,429.05	6,234.14	26.89	24.71	-179.80	-1,097.48	821.52	1,541.71	1,497.58	44.13	34.937		
6,400.00	6,313.14	6,508.06	6,313.14	26.92	24.97	-179.83	-1,097.04	822.11	1,541.12	1,496.75	44.37	34.734		
6,500.00	6,413.14	6,608.06	6,413.14	26.96	25.29	-179.83	-1,097.04	822.11	1,541.12	1,496.37	44.75	34.441		
6,599.99	6,513.13	6,708.05	6,513.13	27.00	25.61	-179.83	-1,097.04	822.11	1,541.12	1,495.99	45.13	34.149		
6,609.40	6,522.54	6,717.46	6,522.54	27.00	25.64	-179.83	-1,097.04	822.11	1,541.12	1,495.96	45.17	34.121 CC		
6,625.00	6,538.14	6,733.06	6,538.14	26.99	25.69	-90.88	-1,097.04	822.11	1,541.12	1,495.91	45.22	34.084		
6,650.00	6,563.09	6,758.43	6,563.51	26.93	25.77	-90.94	-1,097.04	822.05	1,541.15	1,495.86	45.29	34.032		
6,675.00	6,587.93	6,784.81	6,589.85	26.86	25.85	-91.00	-1,097.02	820.88	1,541.18	1,495.83	45.35	33.984		
6,700.00	6,612.60	6,811.28	6,616.20	26.79	25.92	-91.06	-1,096.97	818.25	1,541.20	1,495.80	45.41	33.942		
6,725.00	6,637.01	6,837.86	6,642.45	26.71	26.00	-91.11	-1,096.89	814.15	1,541.23	1,495.78	45.46	33.905		
6,750.00	6,661.12	6,864.53	6,668.52	26.63	26.07	-91.17	-1,096.79	808.57	1,541.26	1,495.76	45.50	33.871		
6,775.00	6,684.84	6,891.28	6,694.33	26.55	26.14	-91.22	-1,096.66	801.51	1,541.29	1,495.75	45.55	33.841		
6,800.00	6,708.12	6,918.12	6,719.78	26.46	26.20	-91.26	-1,096.51	793.00	1,541.32	1,495.74	45.58	33.813		
6,825.00	6,730.89	6,945.04	6,744.78	26.38	26.27	-91.31	-1,096.33	783.04	1,541.35	1,495.73	45.62	33.788		
6,850.00	6,753.09	6,972.03	6,769.24	26.29	26.33	-91.35	-1,096.12	771.65	1,541.37	1,495.72	45.65	33.764		
6,875.00	6,774.65	6,999.09	6,793.08	26.21	26.39	-91.38	-1,095.88	758.86	1,541.40	1,495.71	45.68	33.741		
6,900.00	6,795.53	7,026.20	6,816.21	26.13	26.44	-91.41	-1,095.63	744.72	1,541.42	1,495.70	45.72	33.718		
6,925.00	6,815.66	7,053.37	6,838.54	26.04	26.49	-91.44	-1,095.34	729.25	1,541.44	1,495.69	45.75	33.694		
6,950.00	6,834.98	7,080.58	6,859.98	25.97	26.54	-91.46	-1,095.04	712.52	1,541.45	1,495.67	45.78	33.669		
6,975.00	6,853.45	7,107.83	6,880.47	25.89	26.59	-91.48	-1,094.71	694.56	1,541.47	1,495.65	45.82	33.642		
7,000.00	6,871.01	7,135.10	6,899.92	25.83	26.63	-91.49	-1,094.36	675.44	1,541.48	1,495.62	45.86	33.611		
7,025.00	6,887.61	7,162.40	6,918.26	25.76	26.67	-91.50	-1,094.00	655.23	1,541.49	1,495.58	45.91	33.575		
7,050.00	6,903.22	7,189.71	6,935.42	25.71	26.71	-91.51	-1,093.61	633.99	1,541.49	1,495.53	45.97	33.535		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design:		Camacho 25 26 - Camacho 25-26 State Com 202H - OH - Plan #1											Offset Site Error:		0.00 usft
Survey Program:		0-SuperiorQC MWD+IFR1+SAG+FDIR							Rule Assigned:				Offset Well Error:		0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
7,075.00	6,917.78	7,217.03	6,951.34	25.66	26.75	-91.51	-1,093.20	611.80	1,541.49	1,495.46	46.03	33.488			
7,100.00	6,931.26	7,244.34	6,965.96	25.61	26.78	-91.50	-1,092.78	588.74	1,541.49	1,495.39	46.10	33.435			
7,125.00	6,943.61	7,271.64	6,979.24	25.58	26.81	-91.49	-1,092.35	564.89	1,541.49	1,495.30	46.19	33.375			
7,150.00	6,954.82	7,298.93	6,991.12	25.55	26.84	-91.48	-1,091.90	540.34	1,541.48	1,495.20	46.28	33.307			
7,175.00	6,964.84	7,326.18	7,001.58	25.54	26.86	-91.46	-1,091.44	515.18	1,541.47	1,495.09	46.39	33.230			
7,200.00	6,973.64	7,353.40	7,010.57	25.53	26.89	-91.44	-1,090.97	489.49	1,541.46	1,494.95	46.51	33.146			
7,225.00	6,981.21	7,380.58	7,018.06	25.54	26.90	-91.42	-1,090.50	463.38	1,541.44	1,494.81	46.64	33.053			
7,250.00	6,987.53	7,407.70	7,024.06	25.55	26.92	-91.38	-1,090.01	436.93	1,541.43	1,494.65	46.78	32.953			
7,275.00	6,992.56	7,434.77	7,028.53	25.58	26.94	-91.35	-1,089.53	410.25	1,541.41	1,494.48	46.93	32.845			
7,300.00	6,996.31	7,461.77	7,031.48	25.62	26.95	-91.31	-1,089.04	383.41	1,541.39	1,494.29	47.09	32.730			
7,325.00	6,998.77	7,488.71	7,032.90	25.67	26.96	-91.27	-1,088.55	356.53	1,541.36	1,494.10	47.27	32.610			
7,350.00	6,999.91	7,514.99	7,032.89	25.73	26.97	-91.23	-1,088.07	330.24	1,541.34	1,493.89	47.45	32.484			
7,359.40	7,000.00	7,524.39	7,032.76	25.76	26.97	-91.22	-1,087.90	320.85	1,541.34	1,493.81	47.52	32.435			
7,361.23	7,000.00	7,526.22	7,032.73	25.76	26.97	-91.22	-1,087.86	319.02	1,541.34	1,493.80	47.54	32.425			
7,400.00	7,000.00	7,564.99	7,032.18	25.88	26.99	-91.20	-1,087.16	280.27	1,541.54	1,493.69	47.86	32.211			
7,442.73	7,000.00	7,607.71	7,031.57	26.03	27.02	-91.17	-1,086.38	237.55	1,542.23	1,493.97	48.26	31.959			
7,500.00	7,000.00	7,664.96	7,030.75	26.28	27.07	-91.14	-1,085.34	180.31	1,543.04	1,494.16	48.88	31.568			
7,527.01	7,000.00	7,691.97	7,030.36	26.40	27.10	-91.13	-1,084.84	153.32	1,543.12	1,493.93	49.19	31.369			
7,600.00	7,000.00	7,764.95	7,029.32	26.80	27.20	-91.09	-1,083.51	80.35	1,543.09	1,492.94	50.14	30.773			
7,700.00	7,000.00	7,864.94	7,027.90	27.49	27.38	-91.04	-1,081.69	-19.61	1,543.05	1,491.41	51.63	29.884			
7,800.00	7,000.00	7,964.93	7,026.47	28.35	27.62	-90.98	-1,079.87	-119.57	1,543.01	1,489.69	53.32	28.939			
7,900.00	7,000.00	8,064.92	7,025.04	29.42	27.90	-90.93	-1,078.04	-219.54	1,542.97	1,487.80	55.17	27.966			
8,000.00	7,000.00	8,164.91	7,023.61	30.66	28.23	-90.88	-1,076.22	-319.50	1,542.93	1,485.76	57.17	26.987			
8,100.00	7,000.00	8,264.90	7,022.19	32.08	28.61	-90.82	-1,074.40	-419.46	1,542.89	1,483.59	59.30	26.018			
8,200.00	7,000.00	8,364.89	7,020.76	33.63	29.03	-90.77	-1,072.58	-519.43	1,542.86	1,481.32	61.54	25.070			
8,300.00	7,000.00	8,464.88	7,019.33	35.30	29.49	-90.72	-1,070.75	-619.39	1,542.82	1,478.94	63.88	24.151			
8,400.00	7,000.00	8,564.87	7,017.91	37.07	29.99	-90.66	-1,068.93	-719.35	1,542.79	1,476.48	66.31	23.266			
8,500.00	7,000.00	8,664.86	7,016.48	38.92	30.53	-90.61	-1,067.11	-819.32	1,542.76	1,473.94	68.82	22.419			
8,600.00	7,000.00	8,764.85	7,015.05	40.83	31.10	-90.56	-1,065.28	-919.28	1,542.73	1,471.34	71.39	21.609			
8,700.00	7,000.00	8,864.84	7,013.63	42.79	31.70	-90.51	-1,063.46	-1,019.24	1,542.70	1,468.67	74.03	20.839			
8,800.00	7,000.00	8,964.83	7,012.20	44.80	32.33	-90.45	-1,061.64	-1,119.20	1,542.67	1,465.95	76.73	20.106			
8,900.00	7,000.00	9,064.82	7,010.77	46.84	32.98	-90.40	-1,059.82	-1,219.17	1,542.65	1,463.18	79.47	19.411			
9,000.00	7,000.00	9,164.81	7,009.34	48.91	33.67	-90.35	-1,057.99	-1,319.13	1,542.62	1,460.36	82.26	18.752			
9,100.00	7,000.00	9,264.80	7,007.92	51.01	34.37	-90.29	-1,056.17	-1,419.09	1,542.60	1,457.50	85.10	18.127			
9,200.00	7,000.00	9,364.79	7,006.49	53.13	35.10	-90.24	-1,054.35	-1,519.06	1,542.58	1,454.61	87.97	17.535			
9,300.00	7,000.00	9,464.78	7,005.06	55.27	35.85	-90.19	-1,052.52	-1,619.02	1,542.56	1,451.68	90.88	16.974			
9,400.00	7,000.00	9,564.77	7,003.64	57.43	36.62	-90.13	-1,050.70	-1,718.98	1,542.54	1,448.72	93.82	16.442			
9,500.00	7,000.00	9,664.76	7,002.21	59.60	37.40	-90.08	-1,048.88	-1,818.95	1,542.52	1,445.73	96.79	15.937			
9,600.00	7,000.00	9,764.75	7,000.78	61.78	38.21	-90.03	-1,047.06	-1,918.91	1,542.50	1,442.72	99.79	15.458			
9,700.00	7,000.00	9,864.74	6,999.36	63.98	39.03	-89.98	-1,045.23	-2,018.87	1,542.49	1,439.68	102.81	15.003			
9,800.00	7,000.00	9,964.73	6,997.93	66.18	39.86	-89.92	-1,043.41	-2,118.83	1,542.48	1,436.62	105.86	14.572			
9,900.00	7,000.00	10,064.72	6,996.50	68.40	40.71	-89.87	-1,041.59	-2,218.80	1,542.46	1,433.54	108.92	14.161			
10,000.00	7,000.00	10,164.71	6,995.07	70.62	41.57	-89.82	-1,039.76	-2,318.76	1,542.45	1,430.44	112.01	13.771			
10,100.00	7,000.00	10,264.70	6,993.65	72.85	42.45	-89.76	-1,037.94	-2,418.72	1,542.44	1,427.32	115.12	13.399			
10,200.00	7,000.00	10,364.69	6,992.22	75.09	43.33	-89.71	-1,036.12	-2,518.69	1,542.43	1,424.19	118.24	13.045			
10,300.00	7,000.00	10,464.68	6,990.79	77.33	44.23	-89.66	-1,034.30	-2,618.65	1,542.42	1,421.05	121.38	12.708			
10,400.00	7,000.00	10,564.67	6,989.37	79.58	45.14	-89.60	-1,032.47	-2,718.61	1,542.42	1,417.89	124.53	12.386			
10,500.00	7,000.00	10,664.66	6,987.94	81.83	46.05	-89.55	-1,030.65	-2,818.58	1,542.41	1,414.71	127.70	12.078			
10,600.00	7,000.00	10,764.65	6,986.51	84.09	46.98	-89.50	-1,028.83	-2,918.54	1,542.41	1,411.53	130.88	11.785			
10,700.00	7,000.00	10,864.64	6,985.09	86.35	47.92	-89.45	-1,027.01	-3,018.50	1,542.41	1,408.33	134.07	11.504			
10,800.00	7,000.00	10,964.63	6,983.66	88.61	48.86	-89.39	-1,025.18	-3,118.46	1,542.41	1,405.13	137.28	11.236			
10,811.88	7,000.00	10,976.51	6,983.49	88.88	48.97	-89.39	-1,024.97	-3,130.34	1,542.41	1,404.75	137.66	11.205			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 - Camacho 25-26 State Com 202H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-SuperiorQC MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
10,900.00	7,000.00	11,064.62	6,982.23	90.88	49.81	-89.34	-1,023.36	-3,218.43	1,542.41	1,401.91	140.49	10.979	
11,000.00	7,000.00	11,164.61	6,980.80	93.15	50.77	-89.29	-1,021.54	-3,318.39	1,542.41	1,398.69	143.72	10.732	
11,100.00	7,000.00	11,264.60	6,979.38	95.43	51.73	-89.23	-1,019.71	-3,418.35	1,542.41	1,395.46	146.95	10.496	
11,200.00	7,000.00	11,364.59	6,977.95	97.71	52.70	-89.18	-1,017.89	-3,518.32	1,542.42	1,392.22	150.20	10.269	
11,300.00	7,000.00	11,464.58	6,976.52	99.99	53.68	-89.13	-1,016.07	-3,618.28	1,542.42	1,388.98	153.45	10.052	
11,400.00	7,000.00	11,564.57	6,975.10	102.27	54.66	-89.07	-1,014.25	-3,718.24	1,542.43	1,385.72	156.71	9.843	
11,500.00	7,000.00	11,664.56	6,973.67	104.55	55.65	-89.02	-1,012.42	-3,818.21	1,542.44	1,382.47	159.97	9.642	
11,600.00	7,000.00	11,764.55	6,972.24	106.84	56.64	-88.97	-1,010.60	-3,918.17	1,542.45	1,379.20	163.25	9.449	
11,700.00	7,000.00	11,864.54	6,970.82	109.13	57.64	-88.92	-1,008.78	-4,018.13	1,542.46	1,375.93	166.52	9.263	
11,800.00	7,000.00	11,964.53	6,969.39	111.42	58.65	-88.86	-1,006.95	-4,118.09	1,542.47	1,372.66	169.81	9.083	
11,900.00	7,000.00	12,064.52	6,967.96	113.71	59.65	-88.81	-1,005.13	-4,218.06	1,542.49	1,369.38	173.10	8.911	
12,000.00	7,000.00	12,164.51	6,966.53	116.01	60.67	-88.76	-1,003.31	-4,318.02	1,542.50	1,366.10	176.40	8.744	
12,100.00	7,000.00	12,264.50	6,965.11	118.30	61.68	-88.70	-1,001.49	-4,417.98	1,542.52	1,362.82	179.70	8.584	
12,200.00	7,000.00	12,364.49	6,963.68	120.60	62.70	-88.65	-999.66	-4,517.95	1,542.53	1,359.53	183.01	8.429	
12,300.00	7,000.00	12,464.48	6,962.25	122.90	63.72	-88.60	-997.84	-4,617.91	1,542.55	1,356.23	186.32	8.279	
12,400.00	7,000.00	12,564.46	6,960.83	125.19	64.75	-88.54	-996.02	-4,717.87	1,542.57	1,352.94	189.64	8.134	
12,500.00	7,000.00	12,664.45	6,959.40	127.50	65.78	-88.49	-994.19	-4,817.84	1,542.60	1,349.64	192.96	7.995	
12,600.00	7,000.00	12,764.44	6,957.97	129.80	66.81	-88.44	-992.37	-4,917.80	1,542.62	1,346.34	196.28	7.859	
12,700.00	7,000.00	12,864.43	6,956.55	132.10	67.85	-88.39	-990.55	-5,017.76	1,542.64	1,343.04	199.61	7.728	
12,800.00	7,000.00	12,964.42	6,955.12	134.40	68.89	-88.33	-988.73	-5,117.72	1,542.67	1,339.73	202.94	7.602	
12,900.00	7,000.00	13,064.41	6,953.69	136.71	69.93	-88.28	-986.90	-5,217.69	1,542.70	1,336.42	206.27	7.479	
13,000.00	7,000.00	13,164.40	6,952.26	139.01	70.97	-88.23	-985.08	-5,317.65	1,542.72	1,333.11	209.61	7.360	
13,100.00	7,000.00	13,264.39	6,950.84	141.32	72.02	-88.17	-983.26	-5,417.61	1,542.75	1,329.80	212.95	7.245	
13,200.00	7,000.00	13,364.38	6,949.41	143.63	73.07	-88.12	-981.43	-5,517.58	1,542.78	1,326.49	216.29	7.133	
13,300.00	7,000.00	13,464.37	6,947.98	145.93	74.12	-88.07	-979.61	-5,617.54	1,542.82	1,323.18	219.64	7.024	
13,400.00	7,000.00	13,564.36	6,946.56	148.24	75.17	-88.01	-977.79	-5,717.50	1,542.85	1,319.86	222.99	6.919	
13,500.00	7,000.00	13,664.35	6,945.13	150.55	76.23	-87.96	-975.97	-5,817.47	1,542.88	1,316.54	226.34	6.817	
13,600.00	7,000.00	13,764.34	6,943.70	152.86	77.29	-87.91	-974.14	-5,917.43	1,542.92	1,313.23	229.69	6.717	
13,700.00	7,000.00	13,864.33	6,942.28	155.17	78.35	-87.86	-972.32	-6,017.39	1,542.96	1,309.91	233.05	6.621	
13,800.00	7,000.00	13,964.32	6,940.85	157.48	79.41	-87.80	-970.50	-6,117.36	1,543.00	1,306.59	236.41	6.527	
13,900.00	7,000.00	14,064.31	6,939.42	159.80	80.47	-87.75	-968.67	-6,217.32	1,543.04	1,303.27	239.77	6.436	
14,000.00	7,000.00	14,164.30	6,937.99	162.11	81.54	-87.70	-966.85	-6,317.28	1,543.08	1,299.95	243.13	6.347	
14,100.00	7,000.00	14,264.29	6,936.57	164.42	82.60	-87.64	-965.03	-6,417.24	1,543.12	1,296.63	246.49	6.260	
14,200.00	7,000.00	14,364.28	6,935.14	166.74	83.67	-87.59	-963.21	-6,517.21	1,543.17	1,293.31	249.85	6.176	
14,300.00	7,000.00	14,464.27	6,933.71	169.05	84.74	-87.54	-961.38	-6,617.17	1,543.21	1,289.99	253.22	6.094	
14,400.00	7,000.00	14,564.26	6,932.29	171.36	85.81	-87.49	-959.56	-6,717.13	1,543.26	1,286.67	256.59	6.015	
14,500.00	7,000.00	14,664.25	6,930.86	173.68	86.89	-87.43	-957.74	-6,817.10	1,543.31	1,283.35	259.96	5.937	
14,600.00	7,000.00	14,764.24	6,929.43	175.99	87.96	-87.38	-955.92	-6,917.06	1,543.35	1,280.03	263.33	5.861	
14,700.00	7,000.00	14,864.23	6,928.01	178.31	89.03	-87.33	-954.09	-7,017.02	1,543.41	1,276.71	266.70	5.787	
14,800.00	7,000.00	14,964.22	6,926.58	180.63	90.11	-87.27	-952.27	-7,116.99	1,543.46	1,273.39	270.07	5.715	
14,900.00	7,000.00	15,064.21	6,925.15	182.94	91.19	-87.22	-950.45	-7,216.95	1,543.51	1,270.06	273.45	5.645	
15,000.00	7,000.00	15,164.20	6,923.72	185.26	92.27	-87.17	-948.62	-7,316.91	1,543.57	1,266.74	276.82	5.576	
15,100.00	7,000.00	15,264.19	6,922.30	187.58	93.35	-87.11	-946.80	-7,416.87	1,543.62	1,263.42	280.20	5.509	
15,200.00	7,000.00	15,364.18	6,920.87	189.89	94.43	-87.06	-944.98	-7,516.84	1,543.68	1,260.10	283.57	5.444	
15,300.00	7,000.00	15,464.17	6,919.44	192.21	95.51	-87.01	-943.16	-7,616.80	1,543.74	1,256.79	286.95	5.380	
15,400.00	7,000.00	15,564.16	6,918.02	194.53	96.59	-86.96	-941.33	-7,716.76	1,543.80	1,253.47	290.33	5.317	
15,500.00	7,000.00	15,664.15	6,916.59	196.85	97.68	-86.90	-939.51	-7,816.73	1,543.86	1,250.15	293.71	5.256	
15,600.00	7,000.00	15,764.14	6,915.16	199.17	98.76	-86.85	-937.69	-7,916.69	1,543.92	1,246.83	297.09	5.197	
15,700.00	7,000.00	15,864.13	6,913.74	201.49	99.85	-86.80	-935.86	-8,016.65	1,543.98	1,243.51	300.47	5.139	
15,800.00	7,000.00	15,964.12	6,912.31	203.81	100.94	-86.74	-934.04	-8,116.62	1,544.05	1,240.20	303.85	5.082	
15,900.00	7,000.00	16,064.11	6,910.88	206.12	102.02	-86.69	-932.22	-8,216.58	1,544.12	1,236.88	307.23	5.026	
16,000.00	7,000.00	16,164.10	6,909.45	208.44	103.11	-86.64	-930.40	-8,316.54	1,544.18	1,233.57	310.62	4.971	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 - Camacho 25-26 State Com 202H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-SuperiorQC MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
16,100.00	7,000.00	16,264.09	6,908.03	210.76	104.20	-86.59	-928.57	-8,416.50	1,544.25	1,230.25	314.00	4.918	
16,200.00	7,000.00	16,364.08	6,906.60	213.08	105.29	-86.53	-926.75	-8,516.47	1,544.32	1,226.94	317.38	4.866	
16,300.00	7,000.00	16,464.07	6,905.17	215.41	106.38	-86.48	-924.93	-8,616.43	1,544.39	1,223.63	320.77	4.815	
16,400.00	7,000.00	16,564.06	6,903.75	217.73	107.48	-86.43	-923.10	-8,716.39	1,544.47	1,220.32	324.15	4.765	
16,500.00	7,000.00	16,664.05	6,902.32	220.05	108.57	-86.37	-921.28	-8,816.36	1,544.54	1,217.01	327.53	4.716	
16,600.00	7,000.00	16,764.04	6,900.89	222.37	109.66	-86.32	-919.46	-8,916.32	1,544.62	1,213.70	330.92	4.668	
16,700.00	7,000.00	16,864.03	6,899.47	224.69	110.76	-86.27	-917.64	-9,016.28	1,544.69	1,210.39	334.30	4.621	
16,800.00	7,000.00	16,964.02	6,898.04	227.01	111.85	-86.22	-915.81	-9,116.25	1,544.77	1,207.08	337.69	4.575	
16,900.00	7,000.00	17,064.01	6,896.61	229.33	112.95	-86.16	-913.99	-9,216.21	1,544.85	1,203.78	341.07	4.529	
17,000.00	7,000.00	17,164.00	6,895.18	231.66	114.04	-86.11	-912.17	-9,316.17	1,544.93	1,200.47	344.46	4.485	
17,100.00	7,000.00	17,263.99	6,893.76	233.98	115.14	-86.06	-910.34	-9,416.13	1,545.02	1,197.17	347.85	4.442	
17,200.00	7,000.00	17,363.98	6,892.33	236.30	116.24	-86.00	-908.52	-9,516.10	1,545.10	1,193.87	351.23	4.399	
17,300.00	7,000.00	17,463.97	6,890.90	238.62	117.33	-85.95	-906.70	-9,616.06	1,545.18	1,190.57	354.62	4.357	
17,400.00	7,000.00	17,563.96	6,889.48	240.94	118.43	-85.90	-904.88	-9,716.02	1,545.27	1,187.27	358.00	4.316	
17,500.00	7,000.00	17,663.95	6,888.05	243.27	119.53	-85.85	-903.05	-9,815.99	1,545.36	1,183.97	361.39	4.276	
17,600.00	7,000.00	17,763.94	6,886.62	245.59	120.63	-85.79	-901.23	-9,915.95	1,545.45	1,180.67	364.77	4.237	
17,700.00	7,000.00	17,863.93	6,885.20	247.91	121.73	-85.74	-899.41	-10,015.91	1,545.54	1,177.38	368.16	4.198 ES	
17,784.07	7,000.00	17,877.63	6,885.00	249.87	121.88	-85.73	-899.16	-10,029.62	1,547.21	1,177.52	369.70	4.185 SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 - Camacho 25-26 State Com 203H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SuperiorQC MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference	Offset		Semi Major Axis		Distance		Rule Assigned:							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	1.00	0.00	0.00	0.00	-170.75	-1,982.75	-323.01	2,008.89					
100.00	100.00	101.00	100.00	0.86	0.25	-170.75	-1,982.75	-323.01	2,008.89	2,007.77	1.11	1,806.857		
200.00	200.00	201.00	200.00	1.46	0.61	-170.75	-1,982.75	-323.01	2,008.89	2,006.82	2.07	970.145		
300.00	300.00	301.00	300.00	1.90	0.97	-170.75	-1,982.75	-323.01	2,008.89	2,006.01	2.87	699.415		
400.00	400.00	401.00	400.00	2.26	1.33	-170.75	-1,982.75	-323.01	2,008.89	2,005.29	3.59	559.359		
500.00	500.00	501.00	500.00	2.57	1.69	-170.75	-1,982.75	-323.01	2,008.89	2,004.62	4.26	471.230		
566.33	566.33	567.33	566.33	2.76	1.93	-170.75	-1,982.75	-323.01	2,008.89	2,004.20	4.69	428.565 CC		
600.00	600.00	600.00	599.00	2.86	2.04	-170.75	-1,982.75	-323.01	2,008.89	2,003.99	4.90	410.035 ES		
700.00	699.97	681.37	680.36	3.47	2.32	127.47	-1,983.31	-322.00	2,010.71	2,005.10	5.61	358.703		
800.00	799.75	761.80	760.72	4.67	2.60	127.39	-1,984.99	-319.02	2,016.14	2,009.62	6.52	309.218		
900.00	899.14	842.00	840.71	5.65	2.87	127.25	-1,987.76	-314.10	2,025.18	2,017.82	7.36	275.170		
1,000.00	997.97	921.83	920.15	6.51	3.15	127.06	-1,991.60	-307.27	2,037.80	2,029.64	8.16	249.838		
1,035.78	1,033.16	950.28	948.41	6.60	3.25	126.98	-1,993.23	-304.36	2,043.18	2,034.86	8.32	245.612		
1,100.00	1,096.22	1,000.00	997.70	6.73	3.42	127.02	-1,996.41	-298.70	2,053.43	2,044.82	8.60	238.728		
1,200.00	1,194.42	1,080.53	1,077.28	6.96	3.71	127.04	-2,002.46	-287.96	2,070.15	2,061.04	9.11	227.231		
1,300.00	1,292.62	1,159.49	1,154.94	7.23	3.99	127.00	-2,009.44	-275.54	2,087.79	2,078.16	9.64	216.656		
1,400.00	1,390.81	1,238.06	1,231.80	7.51	4.28	126.90	-2,017.44	-261.33	2,106.36	2,096.19	10.17	207.096		
1,500.00	1,489.01	1,316.11	1,307.68	7.81	4.57	126.75	-2,026.39	-245.40	2,125.86	2,115.15	10.71	198.464		
1,600.00	1,587.21	1,404.93	1,393.52	8.13	4.91	126.53	-2,037.57	-225.53	2,146.16	2,134.86	11.30	189.869		
1,700.00	1,685.41	1,502.41	1,487.68	8.46	5.28	126.28	-2,049.93	-203.54	2,166.58	2,154.64	11.94	181.434		
1,800.00	1,783.61	1,599.88	1,581.83	8.80	5.66	126.04	-2,062.30	-181.56	2,187.05	2,174.46	12.59	173.729		
1,900.00	1,881.80	1,697.35	1,675.98	9.16	6.04	125.81	-2,074.66	-159.57	2,207.54	2,194.30	13.24	166.682		
2,000.00	1,980.00	1,794.83	1,770.14	9.52	6.42	125.58	-2,087.03	-137.58	2,228.08	2,214.17	13.91	160.226		
2,100.00	2,078.20	1,892.30	1,864.29	9.89	6.80	125.35	-2,099.39	-115.60	2,248.64	2,234.07	14.57	154.301		
2,200.00	2,176.40	1,989.77	1,958.44	10.27	7.19	125.13	-2,111.76	-93.61	2,269.25	2,254.00	15.25	148.851		
2,300.00	2,274.59	2,087.25	2,052.59	10.66	7.58	124.91	-2,124.12	-71.62	2,289.88	2,273.96	15.92	143.828		
2,400.00	2,372.79	2,184.72	2,146.75	11.05	7.97	124.69	-2,136.49	-49.64	2,310.54	2,293.94	16.60	139.188		
2,500.00	2,470.99	2,282.20	2,240.90	11.45	8.36	124.48	-2,148.85	-27.65	2,331.24	2,313.96	17.28	134.892		
2,600.00	2,569.19	2,379.67	2,335.05	11.85	8.75	124.27	-2,161.22	-5.66	2,351.97	2,334.00	17.97	130.907		
2,700.00	2,667.38	2,477.14	2,429.21	12.26	9.14	124.07	-2,173.58	16.33	2,372.72	2,354.07	18.65	127.203		
2,800.00	2,765.58	2,574.62	2,523.36	12.67	9.53	123.87	-2,185.95	38.31	2,393.51	2,374.16	19.34	123.751		
2,900.00	2,863.78	2,672.09	2,617.51	13.08	9.93	123.67	-2,198.31	60.30	2,414.32	2,394.29	20.03	120.530		
3,000.00	2,961.98	2,769.56	2,711.67	13.50	10.32	123.48	-2,210.68	82.29	2,435.15	2,414.43	20.72	117.518		
3,100.00	3,060.18	2,867.04	2,805.82	13.92	10.72	123.29	-2,223.04	104.27	2,456.02	2,434.61	21.41	114.696		
3,200.00	3,158.37	2,964.51	2,899.97	14.34	11.11	123.10	-2,235.41	126.26	2,476.91	2,454.80	22.11	112.047		
3,300.00	3,256.57	3,061.99	2,994.13	14.77	11.51	122.92	-2,247.78	148.25	2,497.83	2,475.03	22.80	109.558 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design:		Camacho 25 26 - Camacho 25-26 State Com 204H - OH - Plan #1											Offset Site Error:		0.00 usft
Survey Program:		0-SuperiorQC MWD+IFR1+SAG+FDIR											Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.00	0.00	1.00	0.00	0.00	0.00	-170.87	-2,012.65	-323.31	2,038.45						
100.00	100.00	101.00	100.00	0.86	0.25	-170.87	-2,012.65	-323.31	2,038.45	2,037.34	1.11	1,833.448			
200.00	200.00	201.00	200.00	1.46	0.61	-170.87	-2,012.65	-323.31	2,038.45	2,036.38	2.07	984.422			
300.00	300.00	301.00	300.00	1.90	0.97	-170.87	-2,012.65	-323.31	2,038.45	2,035.58	2.87	709.708			
400.00	400.00	401.00	400.00	2.26	1.33	-170.87	-2,012.65	-323.31	2,038.45	2,034.86	3.59	567.591			
500.00	500.00	501.00	500.00	2.57	1.69	-170.87	-2,012.65	-323.31	2,038.45	2,034.19	4.26	478.165			
566.33	566.33	567.33	566.33	2.76	1.93	-170.87	-2,012.65	-323.31	2,038.45	2,033.76	4.69	434.873	CC		
600.00	600.00	600.00	599.00	2.86	2.04	-170.87	-2,012.65	-323.31	2,038.45	2,033.55	4.90	416.069	ES		
700.00	699.97	659.03	658.02	3.47	2.25	127.33	-2,013.32	-322.95	2,040.81	2,035.29	5.53	369.366			
800.00	799.75	700.00	698.97	4.67	2.39	127.22	-2,014.58	-322.28	2,047.97	2,041.67	6.30	325.039			
900.00	899.14	775.17	774.00	5.65	2.64	127.09	-2,018.56	-320.17	2,059.53	2,052.42	7.11	289.591			
1,000.00	997.97	832.50	831.10	6.51	2.83	126.87	-2,023.06	-317.79	2,075.81	2,067.99	7.82	265.586			
1,035.78	1,033.16	852.84	851.32	6.60	2.90	126.77	-2,024.96	-316.78	2,082.74	2,074.79	7.95	262.105			
1,100.00	1,096.22	900.00	898.14	6.73	3.07	126.88	-2,029.98	-314.13	2,096.14	2,087.93	8.21	255.174			
1,200.00	1,194.42	945.51	943.20	6.96	3.22	126.96	-2,035.62	-311.14	2,118.47	2,109.89	8.58	246.839			
1,300.00	1,292.62	1,000.00	996.97	7.23	3.41	127.04	-2,043.42	-307.01	2,142.74	2,133.74	9.00	238.063			
1,400.00	1,390.81	1,056.81	1,052.79	7.51	3.61	127.10	-2,052.75	-302.07	2,168.87	2,159.43	9.44	229.856			
1,500.00	1,489.01	1,100.00	1,095.04	7.81	3.76	127.12	-2,060.66	-297.88	2,196.88	2,187.06	9.82	223.761			
1,600.00	1,587.21	1,165.96	1,159.23	8.13	4.00	127.14	-2,074.09	-290.77	2,226.57	2,216.28	10.30	216.187			
1,700.00	1,685.41	1,200.00	1,192.17	8.46	4.12	127.13	-2,081.66	-286.76	2,258.24	2,247.59	10.64	212.156			
1,800.00	1,783.61	1,272.54	1,261.93	8.80	4.40	127.10	-2,099.23	-277.45	2,291.33	2,280.17	11.16	205.275			
1,900.00	1,881.80	1,324.76	1,311.74	9.16	4.60	127.05	-2,113.08	-270.12	2,326.27	2,314.69	11.58	200.802			
2,000.00	1,980.00	1,376.20	1,360.45	9.52	4.80	126.98	-2,127.70	-262.38	2,362.89	2,350.88	12.01	196.783			
2,100.00	2,078.20	1,426.84	1,408.02	9.89	5.00	126.90	-2,143.04	-254.26	2,401.14	2,388.71	12.43	193.227			
2,200.00	2,176.40	1,476.65	1,454.43	10.27	5.20	126.80	-2,159.02	-245.79	2,441.00	2,428.16	12.84	190.125			
2,300.00	2,274.59	1,525.60	1,499.64	10.66	5.40	126.69	-2,175.59	-237.01	2,482.44	2,469.19	13.25	187.419	SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 - Camacho 25-26 State Com 301H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Distance				Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	-179.47	-30.01	-0.28	30.02				
100.00	100.00	100.00	100.00	0.86	0.86	-179.47	-30.01	-0.28	30.02	28.30	1.71	17.506	
200.00	200.00	200.00	200.00	1.46	1.46	-179.47	-30.01	-0.28	30.02	27.10	2.92	10.295	
300.00	300.00	300.00	300.00	1.90	1.90	-179.47	-30.01	-0.28	30.02	26.21	3.80	7.896	
400.00	400.00	400.00	400.00	2.26	2.26	-179.47	-30.01	-0.28	30.02	25.49	4.52	6.636	
500.00	500.00	500.00	500.00	2.57	2.57	-179.47	-30.01	-0.28	30.02	24.87	5.15	5.829	
600.00	600.00	600.00	600.00	2.86	2.86	-179.47	-30.01	-0.28	30.02	24.30	5.71	5.255 CC, ES	
700.00	699.97	699.97	699.97	3.47	3.11	122.27	-30.01	-0.28	31.12	24.76	6.36	4.893	
800.00	799.75	799.75	799.75	4.67	3.35	131.26	-30.01	-0.28	35.06	27.69	7.37	4.759	
900.00	899.14	899.14	899.14	5.65	3.58	142.07	-30.01	-0.28	43.03	34.45	8.59	5.012	
1,000.00	997.97	997.97	997.97	6.51	3.79	151.53	-30.01	-0.28	55.85	46.02	9.83	5.681	
1,035.78	1,033.16	1,033.96	1,033.96	6.60	3.93	154.28	-29.91	-0.05	61.43	51.30	10.13	6.064	
1,100.00	1,096.22	1,099.03	1,099.00	6.73	4.27	157.91	-29.10	1.66	70.92	60.24	10.68	6.639	
1,200.00	1,194.42	1,201.42	1,201.16	6.96	5.32	161.02	-26.24	7.72	82.70	70.75	11.95	6.923	
1,300.00	1,292.62	1,304.74	1,303.85	7.23	6.22	162.36	-21.38	18.02	90.46	77.38	13.08	6.916	
1,400.00	1,390.81	1,408.23	1,406.07	7.51	7.02	162.55	-14.55	32.50	94.03	79.93	14.10	6.669	
1,500.00	1,489.01	1,508.21	1,504.55	7.81	7.72	162.33	-7.16	48.16	95.86	80.73	15.13	6.336	
1,600.00	1,587.21	1,608.19	1,603.02	8.13	7.93	162.12	0.22	63.81	97.70	82.04	15.66	6.240	
1,700.00	1,685.41	1,708.17	1,701.49	8.46	8.17	161.91	7.61	79.47	99.53	83.32	16.21	6.138	
1,800.00	1,783.61	1,808.16	1,799.97	8.80	8.42	161.71	14.99	95.12	101.37	84.57	16.80	6.033	
1,900.00	1,881.80	1,908.14	1,898.44	9.16	8.69	161.52	22.38	110.78	103.20	85.79	17.41	5.927	
2,000.00	1,980.00	2,008.12	1,996.91	9.52	8.97	161.34	29.77	126.43	105.04	86.99	18.05	5.820	
2,100.00	2,078.20	2,108.10	2,095.38	9.89	9.27	161.16	37.15	142.09	106.88	88.18	18.70	5.715	
2,200.00	2,176.40	2,208.09	2,193.86	10.27	9.58	160.99	44.54	157.74	108.72	89.35	19.38	5.611	
2,300.00	2,274.59	2,308.07	2,292.33	10.66	9.90	160.83	51.93	173.40	110.56	90.50	20.07	5.510	
2,400.00	2,372.79	2,408.05	2,390.80	11.05	10.23	160.67	59.31	189.05	112.40	91.63	20.77	5.412	
2,500.00	2,470.99	2,508.03	2,489.27	11.45	10.57	160.51	66.70	204.71	114.25	92.76	21.49	5.317	
2,600.00	2,569.19	2,608.02	2,587.75	11.85	10.92	160.36	74.08	220.36	116.09	93.87	22.22	5.225	
2,700.00	2,667.38	2,708.00	2,686.22	12.26	11.28	160.22	81.47	236.02	117.94	94.98	22.96	5.137	
2,800.00	2,765.58	2,807.98	2,784.69	12.67	11.64	160.08	88.86	251.67	119.78	96.07	23.71	5.053	
2,900.00	2,863.78	2,907.96	2,883.16	13.08	12.01	159.94	96.24	267.33	121.63	97.16	24.46	4.972	
3,000.00	2,961.98	3,007.95	2,981.64	13.50	12.38	159.81	103.63	282.98	123.47	98.24	25.23	4.894	
3,100.00	3,060.18	3,107.93	3,080.11	13.92	12.76	159.68	111.01	298.64	125.32	99.32	26.00	4.819	
3,200.00	3,158.37	3,207.91	3,178.58	14.34	13.15	159.56	118.40	314.29	127.17	100.38	26.78	4.748	
3,300.00	3,256.57	3,307.89	3,277.06	14.77	13.54	159.44	125.79	329.95	129.02	101.45	27.57	4.680	
3,400.00	3,354.77	3,407.88	3,375.53	15.20	13.93	159.32	133.17	345.61	130.86	102.51	28.36	4.615	
3,500.00	3,452.97	3,507.86	3,474.00	15.63	14.33	159.20	140.56	361.26	132.71	103.56	29.15	4.552	
3,600.00	3,551.16	3,607.84	3,572.47	16.06	14.73	159.09	147.94	376.92	134.56	104.61	29.95	4.493	
3,700.00	3,649.36	3,707.83	3,670.95	16.50	15.14	158.98	155.33	392.57	136.41	105.66	30.76	4.435	
3,800.00	3,747.56	3,807.81	3,769.42	16.93	15.54	158.88	162.72	408.23	138.27	106.70	31.56	4.381	
3,900.00	3,845.76	3,907.79	3,867.89	17.37	15.95	158.78	170.10	423.88	140.12	107.74	32.37	4.328	
4,000.00	3,943.96	4,007.77	3,966.36	17.81	16.37	158.68	177.49	439.54	141.97	108.78	33.19	4.278	
4,100.00	4,042.15	4,107.76	4,064.84	18.25	16.78	158.58	184.88	455.19	143.82	109.82	34.00	4.230	
4,200.00	4,140.35	4,207.74	4,163.31	18.69	17.20	158.49	192.26	470.85	145.67	110.85	34.82	4.183	
4,300.00	4,238.55	4,307.72	4,261.78	19.13	17.62	158.39	199.65	486.50	147.53	111.88	35.64	4.139	
4,400.00	4,336.75	4,407.70	4,360.25	19.58	18.04	158.30	207.03	502.16	149.38	112.91	36.47	4.096	
4,500.00	4,434.94	4,507.69	4,458.73	20.02	18.46	158.21	214.42	517.81	151.23	113.94	37.29	4.055	
4,600.00	4,533.14	4,607.67	4,557.20	20.47	18.88	158.13	221.81	533.47	153.09	114.97	38.12	4.016	
4,700.00	4,631.34	4,707.65	4,655.67	20.91	19.31	158.05	229.19	549.12	154.94	115.99	38.95	3.978	
4,800.00	4,729.54	4,807.63	4,754.15	21.36	19.73	157.96	236.58	564.78	156.80	117.02	39.78	3.942	
4,900.00	4,827.73	4,907.62	4,852.62	21.81	20.16	157.88	243.96	580.43	158.65	118.04	40.61	3.907	
5,000.00	4,925.93	5,007.60	4,951.09	22.26	20.59	157.81	251.35	596.09	160.51	119.06	41.44	3.873	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 - Camacho 25-26 State Com 301H - OH - Plan #1													Offset Site Error: 0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	5,024.13	5,107.58	5,049.56	22.71	21.02	157.73	258.74	611.74	162.36	120.08	42.28	3.840	
5,200.00	5,122.33	5,207.56	5,148.04	23.16	21.45	157.66	266.12	627.40	164.22	121.10	43.11	3.809	
5,300.00	5,220.53	5,307.55	5,246.51	23.61	21.88	157.58	273.51	643.06	166.07	122.12	43.95	3.779	
5,400.00	5,318.72	5,407.53	5,344.98	24.06	22.32	157.51	280.90	658.71	167.93	123.14	44.79	3.749	
5,500.00	5,416.92	5,507.51	5,443.45	24.51	22.75	157.44	288.28	674.37	169.79	124.16	45.63	3.721	
5,564.33	5,480.09	5,571.83	5,506.80	24.79	23.03	157.40	293.03	684.44	170.98	124.82	46.16	3.704	
5,600.00	5,515.17	5,607.50	5,541.93	24.95	23.19	157.34	295.67	690.02	171.39	124.94	46.45	3.690	
5,700.00	5,614.00	5,707.46	5,640.39	25.45	23.62	156.77	303.05	705.67	169.80	122.58	47.22	3.596	
5,800.00	5,713.39	5,807.24	5,738.66	26.00	24.06	155.54	310.42	721.30	164.26	116.36	47.90	3.429	
5,900.00	5,813.17	5,906.64	5,836.56	26.51	24.49	153.48	317.77	736.86	154.87	106.56	48.32	3.205	
5,999.99	5,913.13	6,005.47	5,933.89	26.77	24.93	-147.97	325.07	752.34	141.91	93.67	48.24	2.942	
6,000.11	5,913.25	6,005.59	5,934.01	26.77	24.93	-147.97	325.08	752.35	141.89	93.65	48.24	2.941	
6,100.00	6,013.14	6,103.97	6,030.91	26.82	25.36	-152.15	332.34	767.76	127.61	80.04	47.57	2.683	
6,200.00	6,113.14	6,202.46	6,127.91	26.85	25.79	-157.34	339.62	783.18	114.16	67.74	46.42	2.459	
6,300.00	6,213.14	6,300.00	6,223.99	26.89	26.21	-163.71	346.79	798.37	101.94	57.27	44.67	2.282	
6,400.00	6,313.14	6,396.73	6,319.72	26.92	26.67	-170.13	352.70	810.89	92.99	50.27	42.72	2.177	
6,500.00	6,413.14	6,494.15	6,416.63	26.96	27.19	-175.42	356.90	819.81	87.52	46.42	41.10	2.129	
6,599.99	6,513.13	6,592.23	6,514.54	27.00	27.67	-178.79	359.36	825.01	84.75	44.62	40.13	2.112	
6,609.40	6,522.54	6,601.49	6,523.79	27.00	27.71	-178.99	359.50	825.31	84.60	44.52	40.08	2.111 SF	
6,625.00	6,538.14	6,616.82	6,539.11	26.99	27.74	-90.51	359.69	825.72	84.40	44.46	39.94	2.113	
6,650.00	6,563.09	6,641.36	6,563.65	26.93	27.79	-91.84	359.91	826.19	84.20	44.70	39.51	2.131	
6,659.88	6,572.92	6,651.03	6,573.32	26.90	27.81	-92.55	359.97	826.31	84.18	44.91	39.28	2.143	
6,675.00	6,587.93	6,665.82	6,588.10	26.86	27.84	-93.84	360.02	826.43	84.24	45.38	38.86	2.168	
6,700.00	6,612.60	6,690.31	6,612.60	26.79	27.87	-96.51	360.04	826.45	84.60	46.58	38.02	2.225	
6,725.00	6,637.01	6,714.73	6,637.01	26.71	27.88	-99.91	360.04	826.45	85.38	48.36	37.02	2.306	
6,750.00	6,661.12	6,738.83	6,661.12	26.63	27.89	-103.91	360.04	826.45	86.80	50.80	36.00	2.411	
6,775.00	6,684.84	6,762.56	6,684.84	26.55	27.89	-108.34	360.04	826.45	89.10	54.00	35.10	2.538	
6,800.00	6,708.12	6,785.83	6,708.12	26.46	27.90	-113.01	360.04	826.45	92.53	58.03	34.50	2.682	
6,825.00	6,730.89	6,808.60	6,730.89	26.38	27.91	-117.71	360.04	826.45	97.30	62.97	34.33	2.834	
6,850.00	6,753.09	6,830.80	6,753.09	26.29	27.92	-122.25	360.04	826.45	103.57	68.95	34.62	2.992	
6,875.00	6,774.65	6,852.37	6,774.65	26.21	27.92	-126.49	360.04	826.45	111.43	76.13	35.30	3.157	
6,900.00	6,795.53	6,873.24	6,795.53	26.13	27.93	-130.32	360.04	826.45	120.91	84.67	36.24	3.336	
6,925.00	6,815.66	6,893.37	6,815.66	26.04	27.94	-133.71	360.04	826.45	131.97	94.65	37.32	3.573	
6,950.00	6,834.98	6,912.70	6,834.98	25.97	27.95	-136.62	360.04	826.45	144.55	106.14	38.41	3.764	
6,975.00	6,853.45	6,931.16	6,853.45	25.89	27.95	-139.08	360.04	826.45	158.56	119.11	39.45	4.020	
7,000.00	6,871.01	6,948.72	6,871.01	25.83	27.96	-141.08	360.04	826.45	173.90	133.50	40.40	4.305	
7,025.00	6,887.61	6,965.33	6,887.61	25.76	27.96	-142.67	360.04	826.45	190.47	149.23	41.24	4.618	
7,050.00	6,903.22	6,980.93	6,903.22	25.71	27.97	-143.84	360.04	826.45	208.18	166.19	41.99	4.958	
7,075.00	6,917.78	6,995.49	6,917.78	25.66	27.97	-144.60	360.04	826.45	226.92	184.28	42.63	5.323	
7,100.00	6,931.26	7,008.97	6,931.26	25.61	27.98	-144.96	360.04	826.45	246.59	203.40	43.19	5.709	
7,125.00	6,943.61	7,021.33	6,943.61	25.58	27.98	-144.89	360.04	826.45	267.13	223.45	43.67	6.116	
7,150.00	6,954.82	7,032.53	6,954.82	25.55	27.99	-144.35	360.04	826.45	288.42	244.33	44.09	6.541	
7,175.00	6,964.84	7,042.55	6,964.84	25.54	27.99	-143.26	360.04	826.45	310.40	265.94	44.46	6.982	
7,200.00	6,973.64	7,051.36	6,973.64	25.53	27.99	-141.48	360.04	826.45	332.98	288.21	44.78	7.437	
7,225.00	6,981.21	7,058.93	6,981.21	25.54	28.00	-138.84	360.04	826.45	356.09	311.03	45.06	7.903	
7,250.00	6,987.53	7,065.24	6,987.53	25.55	28.00	-135.02	360.04	826.45	379.63	334.33	45.30	8.380	
7,275.00	6,992.56	7,070.28	6,992.56	25.58	28.00	-129.56	360.04	826.45	403.55	358.02	45.53	8.864	
7,300.00	6,996.31	7,074.03	6,996.31	25.62	28.00	-121.77	360.04	826.45	427.75	382.03	45.72	9.355	
7,325.00	6,998.77	7,076.48	6,998.77	25.67	28.00	-110.84	360.04	826.45	452.17	406.26	45.91	9.850	
7,350.00	6,999.91	7,077.63	6,999.91	25.73	28.00	-96.27	360.04	826.45	476.73	430.65	46.07	10.347	
7,359.40	7,000.00	7,077.72	7,000.00	25.76	28.00	-90.00	360.04	826.45	485.98	439.85	46.13	10.535	
7,400.00	7,000.00	7,077.72	7,000.00	25.88	28.00	-90.00	360.04	826.45	526.05	479.69	46.36	11.348	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 - Camacho 25-26 State Com 301H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,442.73	7,000.00	7,077.72	7,000.00	26.03	28.00	-90.00	360.04	826.45	568.37	521.83	46.54	12.211	
7,500.00	7,000.00	7,077.72	7,000.00	26.28	28.00	-90.00	360.04	826.45	625.16	578.40	46.76	13.370	
7,527.01	7,000.00	7,077.72	7,000.00	26.40	28.00	-90.00	360.04	826.45	651.93	605.08	46.85	13.915	
7,600.00	7,000.00	7,077.72	7,000.00	26.80	28.00	-90.00	360.04	826.45	724.35	677.28	47.08	15.387	
7,700.00	7,000.00	7,077.72	7,000.00	27.49	28.00	-90.00	360.04	826.45	823.73	776.41	47.32	17.408	
7,800.00	7,000.00	7,077.72	7,000.00	28.35	28.00	-90.00	360.04	826.45	923.24	875.73	47.51	19.433	
7,900.00	7,000.00	7,077.72	7,000.00	29.42	28.00	-90.00	360.04	826.45	1,022.85	975.19	47.66	21.461	
8,000.00	7,000.00	7,077.72	7,000.00	30.66	28.00	-90.00	360.04	826.45	1,122.53	1,074.74	47.79	23.490	
8,100.00	7,000.00	7,077.72	7,000.00	32.08	28.00	-90.00	360.04	826.45	1,222.26	1,174.36	47.89	25.520	
8,200.00	7,000.00	9,455.62	8,262.00	33.63	34.29	-178.14	428.94	-492.05	1,262.66	1,223.67	38.99	32.384	
8,247.99	7,000.00	9,503.30	8,262.00	34.43	35.04	-178.15	429.91	-539.73	1,262.66	1,223.11	39.55	31.927	
8,300.00	7,000.00	9,555.31	8,262.00	35.30	35.89	-178.15	430.86	-591.73	1,262.66	1,222.49	40.17	31.434	
8,400.00	7,000.00	9,655.31	8,262.00	37.07	37.60	-178.15	432.68	-691.71	1,262.66	1,221.27	41.39	30.510	
8,500.00	7,000.00	9,755.31	8,262.00	38.92	39.39	-178.15	434.49	-791.70	1,262.66	1,220.03	42.63	29.620	
8,600.00	7,000.00	9,855.31	8,262.00	40.83	41.25	-178.15	436.31	-891.68	1,262.66	1,218.77	43.89	28.767	
8,700.00	7,000.00	9,955.31	8,262.00	42.79	43.18	-178.15	438.13	-991.66	1,262.66	1,217.48	45.18	27.950	
8,800.00	7,000.00	10,055.31	8,262.00	44.80	45.15	-178.15	439.95	-1,091.65	1,262.66	1,216.18	46.48	27.168	
8,900.00	7,000.00	10,155.31	8,262.00	46.84	47.16	-178.15	441.76	-1,191.63	1,262.66	1,214.86	47.79	26.419	
9,000.00	7,000.00	10,255.31	8,262.00	48.91	49.21	-178.15	443.58	-1,291.61	1,262.66	1,213.53	49.13	25.702	
9,100.00	7,000.00	10,355.31	8,262.00	51.01	51.28	-178.15	445.40	-1,391.60	1,262.66	1,212.18	50.47	25.016	
9,200.00	7,000.00	10,455.31	8,262.00	53.13	53.39	-178.15	447.22	-1,491.58	1,262.66	1,210.82	51.83	24.360	
9,300.00	7,000.00	10,555.31	8,262.00	55.27	55.51	-178.15	449.03	-1,591.56	1,262.66	1,209.45	53.21	23.732	
9,400.00	7,000.00	10,655.31	8,262.00	57.43	57.65	-178.15	450.85	-1,691.55	1,262.66	1,208.07	54.59	23.131	
9,500.00	7,000.00	10,755.31	8,262.00	59.60	59.81	-178.15	452.67	-1,791.53	1,262.66	1,206.68	55.98	22.555	
9,600.00	7,000.00	10,855.31	8,262.00	61.78	61.98	-178.15	454.49	-1,891.52	1,262.66	1,205.27	57.38	22.004	
9,700.00	7,000.00	10,955.31	8,262.00	63.98	64.16	-178.15	456.30	-1,991.50	1,262.66	1,203.86	58.79	21.476	
9,800.00	7,000.00	11,055.31	8,262.00	66.18	66.36	-178.15	458.12	-2,091.48	1,262.66	1,202.44	60.21	20.970	
9,900.00	7,000.00	11,155.31	8,262.00	68.40	68.56	-178.15	459.94	-2,191.47	1,262.66	1,201.02	61.64	20.484	
10,000.00	7,000.00	11,255.31	8,262.00	70.62	70.78	-178.15	461.76	-2,291.45	1,262.66	1,199.58	63.07	20.019	
10,100.00	7,000.00	11,355.31	8,262.00	72.85	73.00	-178.15	463.57	-2,391.43	1,262.66	1,198.14	64.51	19.572	
10,200.00	7,000.00	11,455.31	8,262.00	75.09	75.23	-178.15	465.39	-2,491.42	1,262.65	1,196.69	65.96	19.142	
10,300.00	7,000.00	11,555.31	8,262.00	77.33	77.46	-178.16	467.21	-2,591.40	1,262.65	1,195.24	67.41	18.730	
10,400.00	7,000.00	11,655.31	8,262.00	79.58	79.70	-178.16	469.03	-2,691.38	1,262.65	1,193.78	68.87	18.333	
10,500.00	7,000.00	11,755.31	8,262.00	81.83	81.95	-178.16	470.84	-2,791.37	1,262.65	1,192.32	70.34	17.952	
10,600.00	7,000.00	11,855.31	8,262.00	84.09	84.20	-178.16	472.66	-2,891.35	1,262.65	1,190.85	71.80	17.585	
10,700.00	7,000.00	11,955.31	8,262.00	86.35	86.46	-178.16	474.48	-2,991.33	1,262.65	1,189.38	73.28	17.232	
10,800.00	7,000.00	12,055.31	8,262.00	88.61	88.72	-178.16	476.30	-3,091.32	1,262.65	1,187.90	74.75	16.891	
10,900.00	7,000.00	12,155.31	8,262.00	90.88	90.98	-178.16	478.11	-3,191.30	1,262.65	1,186.42	76.23	16.563	
11,000.00	7,000.00	12,255.31	8,262.00	93.15	93.25	-178.16	479.93	-3,291.28	1,262.65	1,184.94	77.72	16.247	
11,100.00	7,000.00	12,355.31	8,262.00	95.43	95.52	-178.16	481.75	-3,391.27	1,262.65	1,183.45	79.20	15.942	
11,200.00	7,000.00	12,455.31	8,262.00	97.71	97.80	-178.16	483.57	-3,491.25	1,262.65	1,181.96	80.70	15.647	
11,300.00	7,000.00	12,555.31	8,262.00	99.99	100.07	-178.16	485.38	-3,591.23	1,262.65	1,180.46	82.19	15.363	
11,400.00	7,000.00	12,655.31	8,262.00	102.27	102.35	-178.16	487.20	-3,691.22	1,262.65	1,178.96	83.69	15.088	
11,500.00	7,000.00	12,755.31	8,262.00	104.55	104.63	-178.16	489.02	-3,791.20	1,262.65	1,177.46	85.19	14.822	
11,600.00	7,000.00	12,855.31	8,262.00	106.84	106.92	-178.16	490.84	-3,891.18	1,262.65	1,175.96	86.69	14.565	
11,700.00	7,000.00	12,955.31	8,262.00	109.13	109.20	-178.16	492.65	-3,991.17	1,262.65	1,174.45	88.20	14.316	
11,800.00	7,000.00	13,055.31	8,262.00	111.42	111.49	-178.16	494.47	-4,091.15	1,262.65	1,172.95	89.70	14.076	
11,900.00	7,000.00	13,155.31	8,262.00	113.71	113.78	-178.16	496.29	-4,191.14	1,262.65	1,171.44	91.21	13.843	
12,000.00	7,000.00	13,255.31	8,262.00	116.01	116.07	-178.16	498.11	-4,291.12	1,262.65	1,169.92	92.73	13.617	
12,100.00	7,000.00	13,355.31	8,262.00	118.30	118.36	-178.16	499.92	-4,391.10	1,262.65	1,168.41	94.24	13.398	
12,200.00	7,000.00	13,455.31	8,262.00	120.60	120.66	-178.16	501.74	-4,491.09	1,262.65	1,166.89	95.76	13.186	
12,300.00	7,000.00	13,555.31	8,262.00	122.90	122.95	-178.16	503.56	-4,591.07	1,262.65	1,165.37	97.28	12.980	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 - Camacho 25-26 State Com 301H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM												Offset Well Error:	0.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Offset	Highside Toolface (°)	Offset Wellbore Centre	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
12,400.00	7,000.00	13,655.31	8,262.00	125.19	125.25	-178.16	505.38	-4,691.05	1,262.65	1,163.85	98.80	12.780	
12,500.00	7,000.00	13,755.31	8,262.00	127.50	127.55	-178.16	507.19	-4,791.04	1,262.65	1,162.33	100.32	12.586	
12,600.00	7,000.00	13,855.31	8,262.00	129.80	129.85	-178.17	509.01	-4,891.02	1,262.65	1,160.81	101.84	12.398	
12,700.00	7,000.00	13,955.31	8,262.00	132.10	132.15	-178.17	510.83	-4,991.00	1,262.65	1,159.28	103.37	12.215	
12,800.00	7,000.00	14,055.31	8,262.00	134.40	134.45	-178.17	512.65	-5,090.99	1,262.65	1,157.75	104.89	12.037	
12,900.00	7,000.00	14,155.31	8,262.00	136.71	136.75	-178.17	514.46	-5,190.97	1,262.65	1,156.22	106.42	11.864	
13,000.00	7,000.00	14,255.31	8,262.00	139.01	139.06	-178.17	516.28	-5,290.95	1,262.65	1,154.69	107.95	11.696	
13,100.00	7,000.00	14,355.31	8,262.00	141.32	141.36	-178.17	518.10	-5,390.94	1,262.65	1,153.16	109.48	11.533	
13,200.00	7,000.00	14,455.31	8,262.00	143.63	143.67	-178.17	519.92	-5,490.92	1,262.65	1,151.63	111.01	11.374	
13,300.00	7,000.00	14,555.31	8,262.00	145.93	145.98	-178.17	521.73	-5,590.90	1,262.65	1,150.10	112.55	11.219	
13,400.00	7,000.00	14,655.31	8,262.00	148.24	148.28	-178.17	523.55	-5,690.89	1,262.64	1,148.56	114.08	11.068	
13,500.00	7,000.00	14,755.31	8,262.00	150.55	150.59	-178.17	525.37	-5,790.87	1,262.64	1,147.03	115.62	10.921	
13,600.00	7,000.00	14,855.31	8,262.00	152.86	152.90	-178.17	527.19	-5,890.85	1,262.64	1,145.49	117.15	10.778	
13,700.00	7,000.00	14,955.31	8,262.00	155.17	155.21	-178.17	529.00	-5,990.84	1,262.64	1,143.95	118.69	10.638	
13,800.00	7,000.00	15,055.31	8,262.00	157.48	157.52	-178.17	530.82	-6,090.82	1,262.64	1,142.41	120.23	10.502	
13,900.00	7,000.00	15,155.31	8,262.00	159.80	159.83	-178.17	532.64	-6,190.80	1,262.64	1,140.87	121.77	10.369	
14,000.00	7,000.00	15,255.31	8,262.00	162.11	162.14	-178.17	534.46	-6,290.79	1,262.64	1,139.33	123.31	10.239	
14,100.00	7,000.00	15,355.31	8,262.00	164.42	164.45	-178.17	536.27	-6,390.77	1,262.64	1,137.79	124.85	10.113	
14,200.00	7,000.00	15,455.31	8,262.00	166.74	166.76	-178.17	538.09	-6,490.76	1,262.64	1,136.25	126.40	9.990	
14,300.00	7,000.00	15,555.31	8,262.00	169.05	169.08	-178.17	539.91	-6,590.74	1,262.64	1,134.70	127.94	9.869	
14,400.00	7,000.00	15,655.31	8,262.00	171.36	171.39	-178.17	541.73	-6,690.72	1,262.64	1,133.16	129.48	9.751	
14,500.00	7,000.00	15,755.31	8,262.00	173.68	173.70	-178.17	543.55	-6,790.71	1,262.64	1,131.61	131.03	9.636	
14,600.00	7,000.00	15,855.31	8,262.00	175.99	176.02	-178.17	545.36	-6,890.69	1,262.64	1,130.07	132.57	9.524	
14,700.00	7,000.00	15,955.31	8,262.00	178.31	178.33	-178.17	547.18	-6,990.67	1,262.64	1,128.52	134.12	9.414	
14,800.00	7,000.00	16,055.31	8,262.00	180.63	180.65	-178.17	549.00	-7,090.66	1,262.64	1,126.97	135.67	9.307	
14,900.00	7,000.00	16,155.31	8,262.00	182.94	182.96	-178.18	550.82	-7,190.64	1,262.64	1,125.43	137.21	9.202	
15,000.00	7,000.00	16,255.31	8,262.00	185.26	185.28	-178.18	552.63	-7,290.62	1,262.64	1,123.88	138.76	9.099	
15,100.00	7,000.00	16,355.31	8,262.00	187.58	187.60	-178.18	554.45	-7,390.61	1,262.64	1,122.33	140.31	8.999	
15,200.00	7,000.00	16,455.31	8,262.00	189.89	189.91	-178.18	556.27	-7,490.59	1,262.64	1,120.78	141.86	8.901	
15,300.00	7,000.00	16,555.31	8,262.00	192.21	192.23	-178.18	558.09	-7,590.57	1,262.64	1,119.23	143.41	8.804	
15,400.00	7,000.00	16,655.31	8,262.00	194.53	194.55	-178.18	559.90	-7,690.56	1,262.64	1,117.68	144.96	8.710	
15,500.00	7,000.00	16,755.31	8,262.00	196.85	196.86	-178.18	561.72	-7,790.54	1,262.64	1,116.13	146.51	8.618	
15,600.00	7,000.00	16,855.31	8,262.00	199.17	199.18	-178.18	563.54	-7,890.52	1,262.64	1,114.58	148.06	8.528	
15,700.00	7,000.00	16,955.31	8,262.00	201.49	201.50	-178.18	565.36	-7,990.51	1,262.64	1,113.02	149.61	8.439	
15,800.00	7,000.00	17,055.31	8,262.00	203.81	203.82	-178.18	567.17	-8,090.49	1,262.64	1,111.47	151.17	8.353	
15,900.00	7,000.00	17,155.31	8,262.00	206.12	206.14	-178.18	568.99	-8,190.47	1,262.64	1,109.92	152.72	8.268	
16,000.00	7,000.00	17,255.31	8,262.00	208.44	208.46	-178.18	570.81	-8,290.46	1,262.64	1,108.36	154.27	8.184	
16,100.00	7,000.00	17,355.31	8,262.00	210.76	210.78	-178.18	572.63	-8,390.44	1,262.64	1,106.81	155.83	8.103	
16,200.00	7,000.00	17,455.31	8,262.00	213.08	213.10	-178.18	574.44	-8,490.42	1,262.64	1,105.25	157.38	8.023	
16,300.00	7,000.00	17,555.31	8,262.00	215.41	215.42	-178.18	576.26	-8,590.41	1,262.64	1,103.70	158.94	7.944	
16,400.00	7,000.00	17,655.31	8,262.00	217.73	217.74	-178.18	578.08	-8,690.39	1,262.64	1,102.14	160.49	7.867	
16,500.00	7,000.00	17,755.31	8,262.00	220.05	220.06	-178.18	579.90	-8,790.38	1,262.64	1,100.59	162.05	7.792	
16,600.00	7,000.00	17,855.31	8,262.00	222.37	222.38	-178.18	581.71	-8,890.36	1,262.64	1,099.03	163.60	7.718	
16,700.00	7,000.00	17,955.31	8,262.00	224.69	224.70	-178.18	583.53	-8,990.34	1,262.63	1,097.47	165.16	7.645	
16,800.00	7,000.00	18,055.31	8,262.00	227.01	227.02	-178.18	585.35	-9,090.33	1,262.63	1,095.92	166.72	7.574	
16,900.00	7,000.00	18,155.31	8,262.00	229.33	229.34	-178.18	587.17	-9,190.31	1,262.63	1,094.36	168.27	7.503	
17,000.00	7,000.00	18,255.31	8,262.00	231.66	231.66	-178.18	588.98	-9,290.29	1,262.63	1,092.80	169.83	7.435	
17,100.00	7,000.00	18,355.31	8,262.00	233.98	233.98	-178.19	590.80	-9,390.28	1,262.63	1,091.24	171.39	7.367	
17,200.00	7,000.00	18,455.31	8,262.00	236.30	236.31	-178.19	592.62	-9,490.26	1,262.63	1,089.69	172.95	7.301	
17,300.00	7,000.00	18,555.31	8,262.00	238.62	238.63	-178.19	594.44	-9,590.24	1,262.63	1,088.13	174.51	7.235	
17,400.00	7,000.00	18,655.31	8,262.00	240.94	240.95	-178.19	596.25	-9,690.23	1,262.63	1,086.57	176.07	7.171	
17,500.00	7,000.00	18,755.31	8,262.00	243.27	243.27	-178.19	598.07	-9,790.21	1,262.63	1,085.01	177.62	7.108	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 - Camacho 25-26 State Com 301H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD+HRGM													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,600.00	7,000.00	18,855.31	8,262.00	245.59	245.59	-178.19	599.89	-9,890.19	1,262.63	1,083.45	179.18	7.047		
17,700.00	7,000.00	18,955.31	8,262.00	247.91	247.92	-178.19	601.71	-9,990.18	1,262.63	1,081.89	180.74	6.986		
17,781.45	7,000.00	19,036.76	8,262.00	249.81	249.81	-178.19	603.19	-10,071.61	1,262.63	1,080.62	182.01	6.937		
17,784.07	7,000.00	19,038.90	8,262.00	249.87	249.86	-178.19	603.23	-10,073.76	1,262.63	1,080.60	182.03	6.936		

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - ANGELL RANCH 26 #001 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 314-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,200.00	7,000.00	7,023.68	7,000.00	97.71	152.03	-90.00	-88.46	-5,825.16	2,413.67	2,224.16	189.51	12.736	
11,300.00	7,000.00	7,023.68	7,000.00	99.99	152.03	-90.00	-88.46	-5,825.16	2,317.58	2,126.72	190.86	12.143	
11,400.00	7,000.00	7,023.68	7,000.00	102.27	152.03	-90.00	-88.46	-5,825.16	2,221.83	2,029.47	192.36	11.550	
11,500.00	7,000.00	7,023.68	7,000.00	104.55	152.03	-90.00	-88.46	-5,825.16	2,126.48	1,932.46	194.01	10.960	
11,600.00	7,000.00	7,023.68	7,000.00	106.84	152.03	-90.00	-88.46	-5,825.16	2,031.57	1,835.71	195.85	10.373	
11,700.00	7,000.00	7,023.68	7,000.00	109.13	152.03	-90.00	-88.46	-5,825.16	1,937.17	1,739.27	197.90	9.789	
11,800.00	7,000.00	7,023.68	7,000.00	111.42	152.03	-90.00	-88.46	-5,825.16	1,843.36	1,643.19	200.18	9.209	
11,900.00	7,000.00	7,023.68	7,000.00	113.71	152.03	-90.00	-88.46	-5,825.16	1,750.24	1,547.52	202.73	8.634	
12,000.00	7,000.00	7,023.68	7,000.00	116.01	152.03	-90.00	-88.46	-5,825.16	1,657.93	1,452.34	205.58	8.065	
12,100.00	7,000.00	7,023.68	7,000.00	118.30	152.03	-90.00	-88.46	-5,825.16	1,566.55	1,357.76	208.79	7.503	
12,200.00	7,000.00	7,023.68	7,000.00	120.60	152.03	-90.00	-88.46	-5,825.16	1,476.29	1,263.90	212.40	6.951	
12,300.00	7,000.00	7,023.68	7,000.00	122.90	152.03	-90.00	-88.46	-5,825.16	1,387.37	1,170.90	216.47	6.409	
12,400.00	7,000.00	7,023.68	7,000.00	125.19	152.03	-90.00	-88.46	-5,825.16	1,300.06	1,078.99	221.08	5.881	
12,500.00	7,000.00	7,023.68	7,000.00	127.50	152.03	-90.00	-88.46	-5,825.16	1,214.71	988.43	226.29	5.368	
12,600.00	7,000.00	7,023.68	7,000.00	129.80	152.03	-90.00	-88.46	-5,825.16	1,131.76	899.58	232.18	4.874	
12,700.00	7,000.00	7,023.68	7,000.00	132.10	152.03	-90.00	-88.46	-5,825.16	1,051.79	812.95	238.84	4.404	
12,800.00	7,000.00	7,023.68	7,000.00	134.40	152.03	-90.00	-88.46	-5,825.16	975.51	729.20	246.31	3.961	
12,900.00	7,000.00	7,023.68	7,000.00	136.71	152.03	-90.00	-88.46	-5,825.16	903.87	649.27	254.60	3.550	
13,000.00	7,000.00	7,023.68	7,000.00	139.01	152.03	-90.00	-88.46	-5,825.16	838.06	574.44	263.62	3.179	
13,100.00	7,000.00	7,023.68	7,000.00	141.32	152.03	-90.00	-88.46	-5,825.16	779.55	506.43	273.13	2.854	
13,200.00	7,000.00	7,023.68	7,000.00	143.63	152.03	-90.00	-88.46	-5,825.16	730.11	447.48	282.63	2.583	
13,300.00	7,000.00	7,023.68	7,000.00	145.93	152.03	-90.00	-88.46	-5,825.16	691.69	400.32	291.36	2.374	
13,400.00	7,000.00	7,023.68	7,000.00	148.24	152.03	-90.00	-88.46	-5,825.16	666.18	367.84	298.33	2.233	
13,500.00	7,000.00	7,023.68	7,000.00	150.55	152.03	-90.00	-88.46	-5,825.16	655.10	352.53	302.57	2.165	
13,523.19	7,000.00	7,023.68	7,000.00	151.09	152.03	-90.00	-88.46	-5,825.16	654.69	351.60	303.09	2.160	CC, ES, SF
13,600.00	7,000.00	7,023.68	7,000.00	152.86	152.03	-90.00	-88.46	-5,825.16	659.18	355.69	303.49	2.172	
13,700.00	7,000.00	7,023.68	7,000.00	155.17	152.03	-90.00	-88.46	-5,825.16	678.14	377.00	301.15	2.252	
13,800.00	7,000.00	7,023.68	7,000.00	157.48	152.03	-90.00	-88.46	-5,825.16	710.80	414.62	296.19	2.400	
13,900.00	7,000.00	7,023.68	7,000.00	159.80	152.03	-90.00	-88.46	-5,825.16	755.38	465.84	289.54	2.609	
14,000.00	7,000.00	7,023.68	7,000.00	162.11	152.03	-90.00	-88.46	-5,825.16	809.92	527.83	282.09	2.871	
14,100.00	7,000.00	7,023.68	7,000.00	164.42	152.03	-90.00	-88.46	-5,825.16	872.54	598.04	274.50	3.179	
14,200.00	7,000.00	7,023.68	7,000.00	166.74	152.03	-90.00	-88.46	-5,825.16	941.64	674.46	267.19	3.524	
14,300.00	7,000.00	7,023.68	7,000.00	169.05	152.03	-90.00	-88.46	-5,825.16	1,015.90	755.53	260.38	3.902	
14,400.00	7,000.00	7,023.68	7,000.00	171.36	152.03	-90.00	-88.46	-5,825.16	1,094.27	840.11	254.16	4.305	
14,500.00	7,000.00	7,023.68	7,000.00	173.68	152.03	-90.00	-88.46	-5,825.16	1,175.92	927.38	248.54	4.731	
14,600.00	7,000.00	7,023.68	7,000.00	175.99	152.03	-90.00	-88.46	-5,825.16	1,260.22	1,016.71	243.50	5.175	
14,700.00	7,000.00	7,023.68	7,000.00	178.31	152.03	-90.00	-88.46	-5,825.16	1,346.67	1,107.67	238.99	5.635	
14,800.00	7,000.00	7,023.68	7,000.00	180.63	152.03	-90.00	-88.46	-5,825.16	1,434.88	1,199.92	234.96	6.107	
14,900.00	7,000.00	7,023.68	7,000.00	182.94	152.03	-90.00	-88.46	-5,825.16	1,524.54	1,293.20	231.35	6.590	
15,000.00	7,000.00	7,023.68	7,000.00	185.26	152.03	-90.00	-88.46	-5,825.16	1,615.42	1,387.32	228.11	7.082	
15,100.00	7,000.00	7,023.68	7,000.00	187.58	152.03	-90.00	-88.46	-5,825.16	1,707.32	1,482.13	225.19	7.582	
15,200.00	7,000.00	7,023.68	7,000.00	189.89	152.03	-90.00	-88.46	-5,825.16	1,800.09	1,577.52	222.57	8.088	
15,300.00	7,000.00	7,023.68	7,000.00	192.21	152.03	-90.00	-88.46	-5,825.16	1,893.59	1,673.39	220.20	8.600	
15,400.00	7,000.00	7,023.68	7,000.00	194.53	152.03	-90.00	-88.46	-5,825.16	1,987.72	1,769.68	218.05	9.116	
15,500.00	7,000.00	7,023.68	7,000.00	196.85	152.03	-90.00	-88.46	-5,825.16	2,082.40	1,866.31	216.09	9.637	
15,600.00	7,000.00	7,023.68	7,000.00	199.17	152.03	-90.00	-88.46	-5,825.16	2,177.56	1,963.24	214.32	10.161	
15,700.00	7,000.00	7,023.68	7,000.00	201.49	152.03	-90.00	-88.46	-5,825.16	2,273.13	2,060.44	212.69	10.687	
15,800.00	7,000.00	7,023.68	7,000.00	203.81	152.03	-90.00	-88.46	-5,825.16	2,369.07	2,157.86	211.21	11.217	
15,900.00	7,000.00	7,023.68	7,000.00	206.12	152.03	-90.00	-88.46	-5,825.16	2,465.33	2,255.49	209.84	11.748	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - EDDY GL STATE COM #001 - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 500-UNKNOWN													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	35.50	0.00	0.00	-174.23	-2,484.43	-251.02	2,497.33					
100.00	100.00	64.50	100.00	0.86	3.23	-174.23	-2,484.43	-251.02	2,497.07	2,492.99	4.08	611.309		
200.00	200.00	164.50	200.00	1.46	8.23	-174.23	-2,484.43	-251.02	2,497.07	2,487.39	9.69	257.728		
300.00	300.00	264.50	300.00	1.90	13.23	-174.23	-2,484.43	-251.02	2,497.07	2,481.94	15.14	164.982		
400.00	400.00	364.50	400.00	2.26	18.24	-174.23	-2,484.43	-251.02	2,497.07	2,476.58	20.50	121.810		
500.00	500.00	464.50	500.00	2.57	23.24	-174.23	-2,484.43	-251.02	2,497.07	2,471.26	25.82	96.724		
600.00	600.00	564.50	600.00	2.86	27.63	-174.23	-2,484.43	-251.02	2,497.07	2,466.58	30.49	81.898 CC		
700.00	699.97	664.47	699.97	3.47	31.69	124.03	-2,484.43	-251.02	2,498.30	2,463.35	34.95	71.489 ES, SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - GUARDIAN 25 STATE COM #001 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 203-INC-ONLY												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,700.00	7,000.00	6,986.47	6,998.97	42.79	167.29	-89.96	-1,095.00	-2,867.26	2,449.05	2,245.57	203.48	12.036	
8,800.00	7,000.00	6,986.47	6,998.97	44.80	167.29	-89.96	-1,095.00	-2,867.26	2,374.52	2,169.38	205.14	11.575	
8,900.00	7,000.00	6,986.47	6,998.97	46.84	167.29	-89.96	-1,095.00	-2,867.26	2,301.92	2,094.96	206.96	11.123	
9,000.00	7,000.00	6,986.47	6,998.96	48.91	167.29	-89.96	-1,095.00	-2,867.26	2,231.44	2,022.51	208.93	10.680	
9,100.00	7,000.00	6,986.46	6,998.96	51.01	167.29	-89.96	-1,095.00	-2,867.26	2,163.29	1,952.23	211.05	10.250	
9,200.00	7,000.00	6,986.46	6,998.96	53.13	167.29	-89.96	-1,095.00	-2,867.26	2,097.69	1,884.35	213.33	9.833	
9,300.00	7,000.00	6,986.46	6,998.96	55.27	167.29	-89.96	-1,095.00	-2,867.26	2,034.89	1,819.13	215.76	9.431	
9,400.00	7,000.00	6,986.46	6,998.96	57.43	167.29	-89.96	-1,095.00	-2,867.26	1,975.16	1,756.83	218.34	9.046	
9,500.00	7,000.00	6,986.46	6,998.96	59.60	167.29	-89.96	-1,095.00	-2,867.26	1,918.79	1,697.75	221.04	8.681	
9,600.00	7,000.00	6,986.46	6,998.96	61.78	167.29	-89.96	-1,095.00	-2,867.26	1,866.08	1,642.21	223.86	8.336	
9,700.00	7,000.00	6,986.46	6,998.96	63.98	167.29	-89.96	-1,095.00	-2,867.26	1,817.34	1,590.56	226.78	8.014	
9,800.00	7,000.00	6,986.46	6,998.96	66.18	167.29	-89.96	-1,095.00	-2,867.26	1,772.91	1,543.15	229.76	7.717	
9,900.00	7,000.00	6,986.46	6,998.95	68.40	167.29	-89.96	-1,095.00	-2,867.26	1,733.12	1,500.35	232.77	7.446	
10,000.00	7,000.00	6,986.45	6,998.95	70.62	167.29	-89.96	-1,095.00	-2,867.26	1,698.29	1,462.51	235.77	7.203	
10,100.00	7,000.00	6,986.45	6,998.95	72.85	167.29	-89.96	-1,095.00	-2,867.26	1,668.73	1,430.00	238.73	6.990	
10,200.00	7,000.00	6,986.45	6,998.95	75.09	167.29	-89.96	-1,095.00	-2,867.26	1,644.73	1,403.15	241.59	6.808	
10,300.00	7,000.00	6,986.45	6,998.95	77.33	167.29	-89.96	-1,095.00	-2,867.26	1,626.54	1,382.25	244.30	6.658	
10,400.00	7,000.00	6,986.45	6,998.95	79.58	167.29	-89.96	-1,095.00	-2,867.26	1,614.35	1,367.54	246.81	6.541	
10,500.00	7,000.00	6,986.45	6,998.95	81.83	167.29	-89.96	-1,095.00	-2,867.26	1,608.29	1,359.20	249.09	6.457	
10,547.57	7,000.00	6,986.45	6,998.95	82.90	167.29	-89.96	-1,095.00	-2,867.26	1,607.59	1,357.51	250.08	6.428 CC	
10,600.00	7,000.00	6,986.45	6,998.95	84.09	167.29	-89.96	-1,095.00	-2,867.26	1,608.44	1,357.35	251.10	6.406 ES	
10,700.00	7,000.00	6,986.45	6,998.95	86.35	167.29	-89.96	-1,095.00	-2,867.26	1,614.80	1,361.99	252.81	6.387 SF	
10,800.00	7,000.00	6,986.45	6,998.94	88.61	167.29	-89.96	-1,095.00	-2,867.26	1,627.29	1,373.08	254.21	6.401	
10,900.00	7,000.00	6,986.44	6,998.94	90.88	167.29	-89.96	-1,095.00	-2,867.26	1,645.77	1,390.47	255.30	6.446	
11,000.00	7,000.00	6,986.44	6,998.94	93.15	167.29	-89.96	-1,095.00	-2,867.26	1,670.04	1,413.96	256.08	6.522	
11,100.00	7,000.00	6,986.44	6,998.94	95.43	167.29	-89.96	-1,095.00	-2,867.26	1,699.86	1,443.29	256.57	6.625	
11,200.00	7,000.00	6,986.44	6,998.94	97.71	167.29	-89.96	-1,095.00	-2,867.26	1,734.94	1,478.14	256.80	6.756	
11,300.00	7,000.00	6,986.44	6,998.94	99.99	167.29	-89.96	-1,095.00	-2,867.26	1,774.96	1,518.18	256.78	6.912	
11,400.00	7,000.00	6,986.44	6,998.94	102.27	167.29	-89.96	-1,095.00	-2,867.26	1,819.61	1,563.05	256.56	7.092	
11,500.00	7,000.00	6,986.44	6,998.94	104.55	167.29	-89.96	-1,095.00	-2,867.26	1,868.55	1,612.38	256.17	7.294	
11,600.00	7,000.00	6,986.44	6,998.94	106.84	167.29	-89.96	-1,095.00	-2,867.26	1,921.44	1,665.82	255.63	7.517	
11,700.00	7,000.00	6,986.44	6,998.93	109.13	167.29	-89.96	-1,095.00	-2,867.26	1,977.99	1,723.02	254.97	7.758	
11,800.00	7,000.00	6,986.43	6,998.93	111.42	167.29	-89.96	-1,095.00	-2,867.26	2,037.87	1,783.66	254.21	8.016	
11,900.00	7,000.00	6,986.43	6,998.93	113.71	167.29	-89.96	-1,095.00	-2,867.26	2,100.81	1,847.42	253.39	8.291	
12,000.00	7,000.00	6,986.43	6,998.93	116.01	167.29	-89.96	-1,095.00	-2,867.26	2,166.54	1,914.02	252.52	8.580	
12,100.00	7,000.00	6,986.43	6,998.93	118.30	167.29	-89.96	-1,095.00	-2,867.26	2,234.81	1,983.19	251.62	8.882	
12,200.00	7,000.00	6,986.43	6,998.93	120.60	167.29	-89.96	-1,095.00	-2,867.26	2,305.40	2,054.71	250.69	9.196	
12,300.00	7,000.00	6,986.43	6,998.93	122.90	167.29	-89.96	-1,095.00	-2,867.26	2,378.10	2,128.34	249.76	9.522	
12,400.00	7,000.00	6,986.43	6,998.93	125.19	167.29	-89.96	-1,095.00	-2,867.26	2,452.72	2,203.89	248.83	9.857	

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 271H - OH - OH													Offset Site Error: 0.00 usft
Survey Program: 26-SuperiorQC MWD+IFR1+SAG+FDIR													Offset Well Error: 0.00 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	1.30	0.00	0.00	0.00	0.82	90.35	1.29	90.36				
100.00	100.00	101.62	100.32	0.86	0.27	0.81	89.84	1.27	89.85	88.73	1.12	79.891	
113.62	113.62	114.92	113.62	0.94	0.31	0.85	89.82	1.33	89.83	88.57	1.25	71.717	
200.00	200.00	199.73	198.42	1.46	0.61	1.42	90.66	2.25	90.71	88.64	2.07	43.870	
300.00	300.00	298.63	297.29	1.90	0.96	1.58	92.96	2.56	93.03	90.18	2.86	32.581	
400.00	400.00	399.86	398.49	2.26	1.31	1.71	95.06	2.84	95.12	91.54	3.57	26.615	
500.00	500.00	498.90	497.50	2.57	1.67	2.49	97.19	4.23	97.31	93.07	4.24	22.953	
600.00	600.00	598.55	597.10	2.86	2.02	3.42	99.83	5.97	100.05	95.17	4.88	20.516	
700.00	699.97	698.68	697.17	3.47	2.38	-58.39	102.64	7.84	101.82	96.19	5.62	18.114	
800.00	799.75	799.05	797.50	4.67	2.74	-60.53	105.06	9.85	100.98	94.50	6.48	15.592	
900.00	899.14	899.17	897.58	5.65	3.10	-65.15	107.00	11.62	97.90	90.75	7.14	13.706	
1,000.00	997.97	998.72	997.11	6.51	3.45	-72.81	108.44	12.97	93.66	86.08	7.58	12.350	
1,035.78	1,033.16	1,034.27	1,032.65	6.60	3.58	-76.25	108.86	13.62	92.17	84.53	7.64	12.062	
1,100.00	1,096.22	1,098.13	1,096.48	6.73	3.81	-82.62	109.49	15.28	90.01	82.20	7.81	11.524	
1,200.00	1,194.42	1,197.98	1,196.25	6.96	4.16	-92.29	110.17	19.28	88.02	79.69	8.32	10.576	
1,300.00	1,292.62	1,298.29	1,296.38	7.23	4.52	-101.32	110.50	25.29	87.08	78.03	9.05	9.625	
1,351.20	1,342.90	1,349.38	1,347.33	7.37	4.70	-105.65	110.55	29.07	86.86	77.38	9.48	9.167 CC	
1,400.00	1,390.81	1,397.61	1,395.42	7.51	4.87	-109.70	110.65	32.66	87.13	77.22	9.91	8.791 ES	
1,500.00	1,489.01	1,496.45	1,494.01	7.81	5.23	-117.75	111.08	39.85	89.33	78.46	10.87	8.218	
1,600.00	1,587.21	1,595.41	1,592.72	8.13	5.58	-125.26	111.72	46.80	93.54	81.67	11.87	7.880	
1,700.00	1,685.41	1,694.34	1,691.42	8.46	5.94	-132.10	112.31	53.48	99.46	86.59	12.87	7.726	
1,800.00	1,783.61	1,792.70	1,789.58	8.80	6.29	-138.12	112.91	59.66	107.11	93.26	13.85	7.734	
1,900.00	1,881.80	1,891.30	1,888.03	9.16	6.64	-143.31	113.64	65.09	116.58	101.79	14.79	7.882	
2,000.00	1,980.00	1,988.95	1,985.57	9.52	6.99	-147.63	114.48	69.76	127.60	111.91	15.69	8.134	
2,100.00	2,078.20	2,086.94	2,083.47	9.89	7.34	-151.24	115.41	73.77	139.92	123.37	16.55	8.454	
2,200.00	2,176.40	2,185.48	2,181.94	10.27	7.70	-154.28	116.31	77.39	153.12	135.73	17.40	8.802	
2,300.00	2,274.59	2,283.74	2,280.14	10.66	8.05	-156.87	117.06	80.81	166.89	148.67	18.22	9.157	
2,400.00	2,372.79	2,380.28	2,376.64	11.05	8.40	-159.01	117.77	83.37	181.77	162.75	19.02	9.556	
2,500.00	2,470.99	2,476.95	2,473.29	11.45	8.74	-160.78	118.50	84.76	198.04	178.23	19.81	9.999	
2,600.00	2,569.19	2,576.24	2,572.57	11.85	9.10	-162.40	118.91	86.08	214.65	194.03	20.62	10.411	
2,700.00	2,667.38	2,674.28	2,670.60	12.26	9.44	-163.91	118.81	87.80	231.09	209.67	21.41	10.793	
2,800.00	2,765.58	2,767.99	2,764.31	12.67	9.76	-165.03	119.04	88.17	248.89	226.75	22.14	11.243	
2,900.00	2,863.78	2,862.64	2,858.94	13.08	10.09	-165.77	119.92	86.59	268.56	245.70	22.86	11.747	
3,000.00	2,961.98	2,962.79	2,959.07	13.50	10.42	-166.46	120.77	84.92	288.31	264.66	23.65	12.192	
3,100.00	3,060.18	3,062.05	3,058.33	13.92	10.76	-167.17	121.21	84.10	307.40	282.97	24.43	12.585	
3,200.00	3,158.37	3,158.96	3,155.23	14.34	11.08	-167.78	121.64	83.19	326.63	301.45	25.18	12.972	
3,300.00	3,256.57	3,256.17	3,252.43	14.77	11.41	-168.30	122.14	81.90	346.23	320.30	25.94	13.349	
3,400.00	3,354.77	3,353.98	3,350.23	15.20	11.74	-168.85	122.09	80.68	365.96	339.26	26.70	13.705	
3,500.00	3,452.97	3,451.57	3,447.82	15.63	12.07	-169.32	122.14	79.35	385.80	358.33	27.47	14.045	
3,600.00	3,551.16	3,549.13	3,545.36	16.06	12.40	-169.69	122.55	77.80	405.75	377.52	28.23	14.371	
3,700.00	3,649.36	3,646.88	3,643.09	16.50	12.73	-169.99	123.14	76.10	425.79	396.79	29.00	14.681	
3,800.00	3,747.56	3,745.69	3,741.89	16.93	13.07	-170.26	123.83	74.43	445.78	415.99	29.79	14.965	
3,900.00	3,845.76	3,842.86	3,839.04	17.37	13.41	-170.52	124.44	72.83	465.75	435.20	30.56	15.243	
4,000.00	3,943.96	3,940.25	3,936.42	17.81	13.74	-170.74	125.11	71.06	485.88	454.55	31.33	15.510	
4,100.00	4,042.15	4,039.55	4,035.69	18.25	14.09	-170.91	126.08	69.15	506.01	473.89	32.12	15.754	
4,200.00	4,140.35	4,150.04	4,146.18	18.69	14.48	-171.17	126.98	68.96	524.56	491.53	33.03	15.882	
4,300.00	4,238.55	4,250.30	4,246.43	19.13	14.83	-171.45	127.76	70.07	541.96	508.12	33.84	16.015	
4,400.00	4,336.75	4,349.29	4,345.40	19.58	15.18	-171.69	128.73	71.33	559.16	524.51	34.64	16.140	
4,500.00	4,434.94	4,447.70	4,443.80	20.02	15.53	-171.89	129.91	72.49	576.38	540.94	35.44	16.262	
4,600.00	4,533.14	4,546.67	4,542.75	20.47	15.89	-172.06	131.23	73.68	593.54	557.29	36.25	16.375	
4,700.00	4,631.34	4,646.45	4,642.51	20.91	16.24	-172.19	133.01	74.79	610.62	573.57	37.06	16.478	
4,800.00	4,729.54	4,747.54	4,743.56	21.36	16.60	-172.27	135.37	76.12	627.34	589.46	37.88	16.563	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 271H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 26-SuperiorQC MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
4,900.00	4,827.73	4,843.60	4,839.59	21.81	16.94	-172.36	137.49	77.58	643.91	605.25	38.65	16.658		
5,000.00	4,925.93	4,937.03	4,933.00	22.26	17.27	-172.59	137.64	78.93	661.26	621.85	39.41	16.778		
5,100.00	5,024.13	5,033.57	5,029.54	22.71	17.61	-172.85	137.29	79.95	679.18	638.98	40.20	16.896		
5,200.00	5,122.33	5,133.66	5,129.62	23.16	17.96	-173.07	137.36	80.86	697.08	656.06	41.02	16.996		
5,300.00	5,220.53	5,225.24	5,221.21	23.61	18.28	-173.23	137.78	81.52	715.05	673.29	41.75	17.126		
5,400.00	5,318.72	5,315.64	5,311.60	24.06	18.59	-173.39	137.59	81.01	734.40	691.93	42.47	17.292		
5,500.00	5,416.92	5,410.89	5,406.84	24.51	18.91	-173.54	137.34	79.89	754.34	711.11	43.23	17.449		
5,564.33	5,480.09	5,471.01	5,466.95	24.79	19.12	-173.62	137.22	78.96	767.38	723.68	43.70	17.560		
5,600.00	5,515.17	5,505.41	5,501.35	24.95	19.24	-173.67	137.18	78.33	774.43	730.46	43.97	17.613		
5,700.00	5,614.00	5,607.56	5,603.48	25.45	19.58	-173.86	136.38	76.78	791.23	746.39	44.84	17.646		
5,800.00	5,713.39	5,717.69	5,713.55	26.00	19.96	-174.23	132.88	77.37	802.78	756.94	45.84	17.512		
5,900.00	5,813.17	5,832.58	5,828.39	26.51	20.36	-174.52	130.39	79.56	808.37	761.55	46.83	17.263		
5,999.99	5,913.13	5,935.24	5,931.01	26.77	20.72	-112.92	129.32	82.27	808.53	761.07	47.45	17.039		
6,000.11	5,913.25	5,935.37	5,931.14	26.77	20.72	-112.92	129.32	82.27	808.52	761.07	47.45	17.038		
6,100.00	6,013.14	6,040.67	6,036.40	26.82	21.09	-113.01	129.20	85.29	805.93	758.04	47.89	16.828		
6,200.00	6,113.14	6,137.23	6,132.91	26.85	21.43	-113.05	129.74	88.11	803.03	754.77	48.26	16.641		
6,300.00	6,213.14	6,222.00	6,217.67	26.89	21.73	-113.04	130.35	89.14	801.62	753.10	48.52	16.521		
6,400.00	6,313.14	6,320.71	6,316.38	26.92	22.08	-113.04	130.53	89.53	801.18	752.28	48.90	16.385		
6,500.00	6,413.14	7,487.96	7,054.17	26.96	25.86	-172.65	102.41	782.70	727.74	696.06	31.68	22.975		
6,599.99	6,513.13	7,493.62	7,054.43	27.00	25.88	-173.59	102.17	788.36	641.39	607.85	33.55	19.119		
6,609.40	6,522.54	7,494.13	7,054.45	27.00	25.88	-173.67	102.15	788.86	633.47	599.72	33.75	18.772		
6,625.00	6,538.14	7,494.66	7,054.47	26.99	25.88	-87.66	102.13	789.39	620.42	586.33	34.08	18.203		
6,650.00	6,563.09	7,494.23	7,054.45	26.93	25.88	-92.01	102.15	788.96	599.73	565.08	34.65	17.309		
6,675.00	6,587.93	7,492.26	7,054.37	26.86	25.88	-95.85	102.23	786.99	579.42	544.17	35.24	16.440		
6,700.00	6,612.60	7,488.80	7,054.21	26.79	25.87	-99.19	102.37	783.54	559.55	523.68	35.87	15.599		
6,725.00	6,637.01	7,483.91	7,053.98	26.71	25.85	-102.01	102.57	778.66	540.21	503.69	36.53	14.790		
6,750.00	6,661.12	7,477.63	7,053.67	26.63	25.83	-104.35	102.83	772.39	521.49	484.28	37.20	14.017		
6,775.00	6,684.84	7,470.03	7,053.28	26.55	25.80	-106.23	103.15	764.80	503.45	465.55	37.90	13.283		
6,800.00	6,708.12	7,461.14	7,052.80	26.46	25.77	-107.69	103.52	755.94	486.17	447.56	38.61	12.591		
6,825.00	6,730.89	7,451.84	7,052.27	26.38	25.74	-108.88	103.90	746.67	469.72	430.42	39.31	11.950		
6,850.00	6,753.09	7,438.86	7,051.48	26.29	25.70	-109.37	104.44	733.72	454.17	414.10	40.07	11.334		
6,875.00	6,774.65	7,424.89	7,050.50	26.21	25.66	-109.57	105.02	719.79	439.51	398.69	40.82	10.766		
6,900.00	6,795.53	7,409.99	7,049.32	26.13	25.61	-109.50	105.66	704.96	425.80	384.24	41.56	10.246		
6,925.00	6,815.66	7,394.24	7,047.91	26.04	25.56	-109.18	106.34	689.29	413.06	370.81	42.26	9.775		
6,950.00	6,834.98	7,377.71	7,046.26	25.97	25.51	-108.63	107.07	672.85	401.33	358.41	42.92	9.351		
6,975.00	6,853.45	7,360.34	7,044.33	25.89	25.46	-107.87	107.85	655.61	390.61	347.08	43.53	8.973		
7,000.00	6,871.01	7,341.25	7,042.00	25.83	25.40	-106.81	108.76	636.68	380.88	336.77	44.11	8.635		
7,025.00	6,887.61	7,321.47	7,039.36	25.76	25.34	-105.58	109.79	617.10	372.10	327.48	44.62	8.339		
7,050.00	6,903.22	7,301.04	7,036.40	25.71	25.28	-104.21	110.96	596.93	364.25	319.20	45.06	8.084		
7,075.00	6,917.78	7,280.02	7,033.11	25.66	25.22	-102.72	112.26	576.21	357.28	311.87	45.41	7.867		
7,100.00	6,931.26	7,259.30	7,029.57	25.61	25.16	-101.21	113.62	555.84	351.15	305.48	45.67	7.689		
7,125.00	6,943.61	7,240.41	7,025.64	25.58	25.11	-99.79	114.71	537.39	345.91	300.13	45.78	7.556		
7,150.00	6,954.82	7,222.07	7,021.04	25.55	25.05	-98.30	115.55	519.66	341.62	295.83	45.79	7.460		
7,175.00	6,964.84	7,204.24	7,015.84	25.54	25.00	-96.75	116.15	502.61	338.31	292.59	45.71	7.401		
7,200.00	6,973.64	7,186.84	7,010.09	25.53	24.95	-95.14	116.54	486.21	335.98	290.43	45.54	7.377 SF		
7,225.00	6,981.21	7,171.00	7,004.27	25.54	24.90	-93.59	116.73	471.47	334.63	289.35	45.28	7.390		
7,249.66	6,987.45	7,152.19	6,996.75	25.55	24.84	-91.64	116.78	454.23	334.20	289.17	45.03	7.422		
7,250.00	6,987.53	7,151.94	6,996.65	25.55	24.84	-91.61	116.78	454.01	334.20	289.17	45.03	7.422		
7,275.00	6,992.56	7,134.25	6,989.05	25.58	24.79	-89.73	116.71	438.03	334.63	289.92	44.71	7.484		
7,300.00	6,996.31	7,116.70	6,981.03	25.62	24.73	-87.83	116.51	422.42	335.86	291.49	44.37	7.569		
7,325.00	6,998.77	7,099.27	6,972.59	25.67	24.68	-85.91	116.19	407.18	337.83	293.80	44.03	7.672		
7,350.00	6,999.91	7,076.00	6,960.60	25.73	24.60	-83.45	115.58	387.25	340.55	296.82	43.73	7.787		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 271H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 26-SuperiorQC MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,359.40	7,000.00	7,075.33	6,960.24	25.76	24.60	-83.26	115.56	386.68	341.64	298.05	43.58	7.838	
7,400.00	7,000.00	7,039.85	6,941.05	25.88	24.49	-80.10	114.61	356.85	347.59	304.49	43.10	8.064	
7,442.73	7,000.00	7,003.41	6,920.77	26.03	24.38	-76.83	113.92	326.59	355.60	313.00	42.60	8.348	
7,500.00	7,000.00	6,959.22	6,895.15	26.28	24.25	-72.93	113.48	290.59	368.47	326.49	41.98	8.777	
7,527.01	7,000.00	6,941.10	6,883.89	26.40	24.19	-71.27	113.47	276.39	375.40	333.66	41.73	8.995	
7,600.00	7,000.00	6,896.97	6,854.42	26.80	24.06	-66.98	113.88	243.57	398.08	356.79	41.29	9.641	
7,700.00	7,000.00	6,850.88	6,820.54	27.49	23.91	-62.33	114.90	212.37	439.63	398.21	41.42	10.614	
7,800.00	7,000.00	6,815.45	6,792.25	28.35	23.80	-58.69	115.98	191.10	492.91	450.74	42.16	11.691	
7,900.00	7,000.00	6,789.00	6,769.97	29.42	23.71	-55.98	116.96	176.87	555.92	512.74	43.18	12.874	
8,000.00	7,000.00	6,762.24	6,746.62	30.66	23.62	-53.30	118.00	163.85	626.43	582.33	44.10	14.206	
8,100.00	7,000.00	6,741.34	6,727.92	32.08	23.55	-51.28	118.80	154.55	702.61	657.66	44.95	15.630	
8,200.00	7,000.00	6,723.57	6,711.73	33.63	23.49	-49.61	119.48	147.26	783.11	737.43	45.68	17.143	
8,300.00	7,000.00	6,695.00	6,685.19	35.30	23.39	-47.03	120.55	136.76	867.19	820.98	46.21	18.765	
8,400.00	7,000.00	6,695.00	6,685.19	37.07	23.39	-47.03	120.55	136.76	953.32	906.52	46.79	20.373	
8,500.00	7,000.00	6,695.00	6,685.19	38.92	23.39	-47.03	120.55	136.76	1,041.92	994.69	47.24	22.058	
8,600.00	7,000.00	6,666.43	6,658.18	40.83	23.29	-44.60	121.61	127.51	1,131.57	1,084.03	47.54	23.800	
8,700.00	7,000.00	6,654.19	6,646.51	42.79	23.25	-43.60	122.07	123.85	1,222.71	1,174.87	47.84	25.560	
8,800.00	7,000.00	6,643.11	6,635.89	44.80	23.21	-42.72	122.49	120.70	1,314.88	1,266.79	48.09	27.343	
8,900.00	7,000.00	6,633.02	6,626.19	46.84	23.18	-41.95	122.87	117.97	1,407.91	1,359.60	48.30	29.147	
9,000.00	7,000.00	6,600.00	6,594.19	48.91	23.06	-39.53	124.12	109.90	1,502.20	1,453.69	48.51	30.964	
9,100.00	7,000.00	6,600.00	6,594.19	51.01	23.06	-39.53	124.12	109.90	1,596.25	1,547.58	48.68	32.792	
9,200.00	7,000.00	6,600.00	6,594.19	53.13	23.06	-39.53	124.12	109.90	1,690.99	1,642.17	48.82	34.641	
9,300.00	7,000.00	6,600.00	6,594.19	55.27	23.06	-39.53	124.12	109.90	1,786.30	1,737.36	48.93	36.506	
9,400.00	7,000.00	6,600.00	6,594.19	57.43	23.06	-39.53	124.12	109.90	1,882.09	1,833.06	49.03	38.386	
9,500.00	7,000.00	6,600.00	6,594.19	59.60	23.06	-39.53	124.12	109.90	1,978.30	1,929.18	49.12	40.277	
9,600.00	7,000.00	6,600.00	6,594.19	61.78	23.06	-39.53	124.12	109.90	2,074.87	2,025.68	49.19	42.177	
9,700.00	7,000.00	6,600.00	6,594.19	63.98	23.06	-39.53	124.12	109.90	2,171.75	2,122.49	49.26	44.086	
9,800.00	7,000.00	6,600.00	6,594.19	66.18	23.06	-39.53	124.12	109.90	2,268.90	2,219.58	49.32	46.001	
9,900.00	7,000.00	6,600.00	6,594.19	68.40	23.06	-39.53	124.12	109.90	2,366.29	2,316.91	49.38	47.921	
10,000.00	7,000.00	6,600.00	6,594.19	70.62	23.06	-39.53	124.12	109.90	2,463.89	2,414.46	49.43	49.846	

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 272H - OH - OH														Offset Site Error: 0.00 usft
Survey Program: 25-SuperiorQC MWD+IFR1+SAG+FDIR														Offset Well Error: 0.00 usft
Reference		Offset		Semi Major Axis		Highside		Offset Wellbore Centre		Distance		Minimum		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.00	0.00	1.00	0.00	0.00	0.00	-169.89		-1,802.75	-321.31	1,831.16				
100.00	100.00	99.07	98.07	0.86	0.13	-169.90		-1,802.82	-321.15	1,831.20	1,830.22	0.98	1,864.104	
200.00	200.00	224.84	223.84	1.46	0.55	-169.93		-1,802.94	-320.26	1,831.32	1,829.31	2.01	912.747	
300.00	300.00	312.51	311.49	1.90	0.86	-169.97		-1,802.77	-318.93	1,830.80	1,828.04	2.76	662.633	
400.00	400.00	415.34	414.30	2.26	1.23	-170.03		-1,802.15	-316.72	1,829.82	1,826.33	3.49	524.095	
500.00	500.00	514.67	513.60	2.57	1.59	-170.10		-1,801.78	-314.42	1,829.06	1,824.90	4.16	439.613	
600.00	600.00	615.19	614.11	2.86	1.95	-170.15		-1,801.34	-312.62	1,828.32	1,823.51	4.80	380.729	
629.26	629.26	644.75	643.65	3.01	2.05	128.08		-1,801.19	-312.14	1,828.20	1,823.18	5.02	364.081	
700.00	699.97	713.99	712.89	3.47	2.30	128.08		-1,800.85	-311.06	1,828.91	1,823.32	5.58	327.481	
800.00	799.75	829.33	828.21	4.67	2.71	128.16		-1,799.95	-309.23	1,831.92	1,825.27	6.65	275.410	
900.00	899.14	973.06	971.82	5.65	3.23	128.33		-1,796.87	-304.30	1,835.99	1,828.24	7.75	236.939	
1,000.00	997.97	1,124.46	1,122.74	6.51	3.77	128.54		-1,790.46	-294.20	1,840.15	1,831.31	8.83	208.346	
1,035.78	1,033.16	1,184.20	1,182.17	6.60	3.99	128.65		-1,786.84	-289.32	1,841.55	1,832.45	9.11	202.191	
1,100.00	1,096.22	1,290.08	1,287.30	6.73	4.37	128.89		-1,778.65	-279.85	1,843.25	1,833.66	9.59	192.118	
1,200.00	1,194.42	1,482.06	1,477.06	6.96	5.05	129.31		-1,757.05	-260.56	1,842.21	1,831.73	10.48	175.706	
1,300.00	1,292.62	1,605.06	1,598.07	7.23	5.49	129.57		-1,739.46	-247.28	1,838.05	1,826.88	11.18	164.417	
1,400.00	1,390.81	1,711.83	1,703.00	7.51	5.88	129.81		-1,723.31	-236.04	1,833.17	1,821.34	11.84	154.855	
1,500.00	1,489.01	1,812.89	1,802.33	7.81	6.24	130.05		-1,707.66	-225.86	1,828.07	1,815.57	12.49	146.338	
1,600.00	1,587.21	1,908.27	1,896.08	8.13	6.59	130.28		-1,692.98	-216.26	1,823.08	1,809.94	13.14	138.747	
1,700.00	1,685.41	2,002.79	1,989.03	8.46	6.93	130.51		-1,678.72	-206.75	1,818.43	1,804.64	13.79	131.829	
1,800.00	1,783.61	2,097.55	2,082.26	8.80	7.28	130.74		-1,664.65	-197.22	1,814.05	1,799.59	14.46	125.478	
1,900.00	1,881.80	2,198.48	2,181.59	9.16	7.65	130.99		-1,649.89	-187.07	1,809.93	1,794.78	15.15	119.492	
2,000.00	1,980.00	2,301.12	2,282.55	9.52	8.03	131.24		-1,634.54	-176.82	1,805.53	1,789.68	15.85	113.921	
2,100.00	2,078.20	2,398.18	2,378.04	9.89	8.38	131.48		-1,620.09	-167.13	1,801.22	1,784.68	16.54	108.900	
2,200.00	2,176.40	2,494.07	2,472.39	10.27	8.74	131.72		-1,606.02	-157.37	1,797.12	1,779.88	17.23	104.283	
2,300.00	2,274.59	2,590.37	2,567.17	10.66	9.09	131.95		-1,592.11	-147.52	1,793.26	1,775.33	17.93	100.001	
2,400.00	2,372.79	2,679.49	2,654.91	11.05	9.42	132.16		-1,579.53	-138.32	1,789.74	1,771.13	18.61	96.153	
2,500.00	2,470.99	2,766.62	2,740.82	11.45	9.74	132.37		-1,567.79	-129.74	1,786.99	1,767.69	19.29	92.626	
2,600.00	2,569.19	2,863.49	2,836.43	11.85	10.10	132.62		-1,555.16	-120.59	1,784.79	1,764.78	20.01	89.207	
2,700.00	2,667.38	2,966.55	2,938.13	12.26	10.48	132.89		-1,541.52	-110.96	1,782.47	1,761.73	20.75	85.917	
2,800.00	2,765.58	3,061.05	3,031.39	12.67	10.83	133.14		-1,529.01	-102.17	1,780.20	1,758.74	21.46	82.949	
2,900.00	2,863.78	3,149.55	3,118.80	13.08	11.15	133.38		-1,517.67	-94.23	1,778.46	1,756.30	22.16	80.257	
3,000.00	2,961.98	3,253.66	3,221.69	13.50	11.54	133.67		-1,504.70	-85.15	1,777.17	1,754.26	22.91	77.559	
3,100.00	3,060.18	3,367.60	3,334.16	13.92	11.96	133.98		-1,489.73	-74.70	1,775.14	1,751.44	23.70	74.888	
3,200.00	3,158.37	3,459.93	3,425.28	14.34	12.30	134.23		-1,477.47	-66.21	1,773.01	1,748.58	24.42	72.590	
3,300.00	3,256.57	3,550.96	3,515.18	14.77	12.63	134.48		-1,465.68	-58.20	1,771.34	1,746.20	25.14	70.446	
3,400.00	3,354.77	3,642.27	3,605.45	15.20	12.97	134.75		-1,454.25	-50.54	1,770.25	1,744.38	25.87	68.434	
3,500.00	3,452.97	3,736.45	3,698.61	15.63	13.31	135.02		-1,442.73	-42.87	1,769.55	1,742.95	26.60	66.514	
3,600.00	3,551.16	3,829.14	3,790.34	16.06	13.65	135.30		-1,431.64	-35.52	1,769.22	1,741.88	27.34	64.718	
3,615.12	3,566.01	3,842.80	3,803.87	16.13	13.70	135.34		-1,430.04	-34.45	1,769.22	1,741.77	27.45	64.458	
3,700.00	3,649.36	3,932.36	3,892.54	16.50	14.03	135.61		-1,419.60	-27.54	1,769.29	1,741.18	28.11	62.938	
3,800.00	3,747.56	4,037.54	3,996.58	16.93	14.42	135.93		-1,406.65	-19.05	1,768.68	1,739.78	28.90	61.210	
3,896.27	3,842.09	4,125.17	4,083.29	17.35	14.74	136.19		-1,396.11	-12.08	1,768.43	1,738.83	29.60	59.738	
3,900.00	3,845.76	4,128.56	4,086.65	17.37	14.75	136.20		-1,395.71	-11.82	1,768.43	1,738.80	29.63	59.683	
4,000.00	3,943.96	4,218.51	4,175.72	17.81	15.08	136.48		-1,385.28	-4.94	1,768.73	1,738.37	30.36	58.252	
4,100.00	4,042.15	4,307.10	4,263.54	18.25	15.41	136.75		-1,375.41	1.42	1,769.67	1,738.58	31.09	56.915	
4,200.00	4,140.35	4,396.41	4,352.14	18.69	15.73	137.04		-1,365.91	7.41	1,771.28	1,739.46	31.83	55.653	
4,300.00	4,238.55	4,485.76	4,440.83	19.13	16.06	137.33		-1,356.81	13.19	1,773.47	1,740.91	32.56	54.463	
4,400.00	4,336.75	4,575.51	4,530.00	19.58	16.38	137.63		-1,348.20	18.66	1,776.38	1,743.08	33.30	53.342	
4,500.00	4,434.94	4,673.23	4,627.11	20.02	16.74	137.96		-1,338.96	24.43	1,779.56	1,745.48	34.08	52.224	
4,600.00	4,533.14	4,768.03	4,721.35	20.47	17.08	138.28		-1,330.09	29.67	1,783.01	1,748.17	34.84	51.177	
4,700.00	4,631.34	4,861.46	4,814.26	20.91	17.42	138.60		-1,321.52	34.62	1,786.78	1,751.18	35.60	50.190	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 272H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 25-SuperiorQC MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.00	4,729.54	4,951.65	4,903.98	21.36	17.74	138.91	-1,313.66	39.26	1,791.09	1,754.74	36.35	49.276	
4,900.00	4,827.73	5,022.99	4,974.98	21.81	18.00	139.16	-1,307.62	42.71	1,796.00	1,759.00	37.01	48.530	
5,000.00	4,925.93	5,108.43	5,060.10	22.26	18.31	139.46	-1,301.36	46.60	1,802.04	1,764.31	37.73	47.761	
5,100.00	5,024.13	5,177.41	5,128.92	22.71	18.55	139.68	-1,297.62	49.56	1,809.91	1,771.54	38.37	47.175	
5,200.00	5,122.33	5,238.59	5,190.00	23.16	18.77	139.87	-1,295.34	51.98	1,819.59	1,780.64	38.95	46.721	
5,300.00	5,220.53	5,305.99	5,257.37	23.61	19.00	140.09	-1,294.49	53.73	1,831.80	1,792.25	39.55	46.318	
5,400.00	5,318.72	5,381.11	5,332.48	24.06	19.26	140.34	-1,294.51	55.07	1,845.60	1,805.41	40.19	45.925	
5,500.00	5,416.92	5,483.94	5,435.29	24.51	19.62	140.67	-1,294.34	56.96	1,859.42	1,818.43	41.00	45.356	
5,564.33	5,480.09	5,548.21	5,499.55	24.79	19.84	140.88	-1,294.13	58.15	1,868.25	1,826.76	41.50	45.020	
5,600.00	5,515.17	5,583.67	5,535.01	24.95	19.96	141.06	-1,294.01	58.81	1,872.94	1,831.17	41.77	44.839	
5,700.00	5,614.00	5,683.54	5,634.86	25.45	20.31	141.48	-1,293.60	60.61	1,883.78	1,841.21	42.57	44.248	
5,800.00	5,713.39	5,778.99	5,730.29	26.00	20.64	141.75	-1,293.30	62.40	1,891.30	1,847.94	43.36	43.617	
5,900.00	5,813.17	5,872.99	5,824.27	26.51	20.96	141.88	-1,293.33	64.24	1,895.70	1,851.62	44.08	43.007	
5,999.99	5,913.13	5,976.26	5,927.53	26.77	21.32	-156.35	-1,293.33	65.90	1,896.77	1,852.05	44.72	42.412	
6,000.11	5,913.25	5,976.38	5,927.65	26.77	21.32	-156.35	-1,293.33	65.91	1,896.77	1,852.05	44.72	42.411	
6,100.00	6,013.14	6,076.96	6,028.22	26.82	21.67	-156.37	-1,292.90	66.90	1,895.98	1,850.82	45.17	41.976	
6,200.00	6,113.14	6,173.84	6,125.11	26.85	22.01	-156.37	-1,292.27	67.25	1,895.25	1,849.71	45.54	41.615	
6,300.00	6,213.14	6,266.46	6,217.71	26.89	22.32	-156.35	-1,291.59	66.71	1,894.81	1,848.93	45.88	41.295	
6,400.00	6,313.14	6,788.49	6,715.88	26.92	24.15	-159.65	-1,285.71	185.19	1,888.39	1,840.83	47.55	39.712	
6,500.00	6,413.14	6,937.22	6,830.75	26.96	24.67	-162.48	-1,290.47	279.10	1,866.28	1,818.64	47.64	39.171	
6,599.99	6,513.13	7,061.94	6,910.07	27.00	25.12	-165.46	-1,299.03	374.78	1,843.99	1,796.31	47.68	38.671	
6,609.40	6,522.54	7,070.49	6,914.96	27.00	25.15	-165.68	-1,299.72	381.75	1,841.98	1,794.29	47.69	38.624	
6,625.00	6,538.14	7,083.83	6,922.47	26.99	25.20	-77.49	-1,300.81	392.72	1,838.63	1,790.94	47.69	38.555	
6,650.00	6,563.09	7,102.68	6,932.81	26.93	25.27	-78.66	-1,302.40	408.41	1,833.19	1,785.52	47.67	38.455	
6,675.00	6,587.93	7,124.58	6,944.49	26.86	25.35	-79.95	-1,304.26	426.84	1,827.69	1,780.06	47.64	38.368	
6,700.00	6,612.60	7,143.74	6,954.47	26.79	25.42	-81.19	-1,305.85	443.12	1,822.19	1,774.60	47.59	38.288	
6,725.00	6,637.01	7,159.37	6,962.46	26.71	25.48	-82.33	-1,307.12	456.49	1,816.73	1,769.19	47.54	38.215	
6,750.00	6,661.12	7,171.67	6,968.65	26.63	25.52	-83.37	-1,308.10	467.08	1,811.37	1,763.89	47.48	38.151	
6,775.00	6,684.84	7,180.91	6,973.24	26.55	25.56	-84.29	-1,308.83	475.06	1,806.16	1,758.75	47.41	38.098	
6,800.00	6,708.12	7,187.31	6,976.39	26.46	25.58	-85.11	-1,309.33	480.60	1,801.13	1,753.80	47.33	38.056	
6,825.00	6,730.89	7,191.10	6,978.24	26.38	25.60	-85.82	-1,309.62	483.90	1,796.32	1,749.08	47.24	38.027	
6,850.00	6,753.09	7,192.49	6,978.92	26.29	25.60	-86.42	-1,309.73	485.10	1,791.75	1,744.61	47.14	38.012	
6,875.00	6,774.65	7,191.67	6,978.52	26.21	25.60	-86.92	-1,309.67	484.39	1,787.44	1,740.41	47.03	38.010	
6,900.00	6,795.53	7,188.83	6,977.13	26.13	25.59	-87.32	-1,309.45	481.92	1,783.39	1,736.49	46.90	38.022	
6,925.00	6,815.66	7,184.12	6,974.82	26.04	25.57	-87.63	-1,309.08	477.84	1,779.62	1,732.85	46.78	38.046	
6,950.00	6,834.98	7,177.71	6,971.66	25.97	25.55	-87.84	-1,308.58	472.29	1,776.13	1,729.50	46.64	38.084	
6,975.00	6,853.45	7,169.74	6,967.68	25.89	25.52	-87.98	-1,307.95	465.40	1,772.92	1,726.43	46.49	38.132	
7,000.00	6,871.01	7,160.32	6,962.94	25.83	25.48	-88.04	-1,307.19	457.30	1,769.98	1,723.63	46.35	38.191	
7,025.00	6,887.61	7,149.57	6,957.47	25.76	25.44	-88.03	-1,306.32	448.09	1,767.30	1,721.11	46.19	38.259	
7,050.00	6,903.22	7,137.61	6,951.30	25.71	25.40	-87.95	-1,305.34	437.89	1,764.88	1,718.84	46.04	38.335	
7,075.00	6,917.78	7,124.54	6,944.46	25.66	25.35	-87.82	-1,304.25	426.81	1,762.69	1,716.80	45.89	38.415	
7,100.00	6,931.26	7,110.46	6,936.99	25.61	25.29	-87.64	-1,303.06	414.94	1,760.73	1,714.99	45.74	38.498	
7,125.00	6,943.61	7,104.99	6,934.05	25.58	25.27	-87.69	-1,302.59	410.34	1,758.99	1,713.39	45.60	38.570	
7,150.00	6,954.82	7,087.96	6,924.77	25.55	25.21	-87.39	-1,301.15	396.14	1,757.46	1,711.99	45.47	38.655	
7,175.00	6,964.84	7,076.81	6,918.54	25.54	25.17	-87.24	-1,300.23	386.93	1,756.15	1,710.80	45.35	38.728	
7,200.00	6,973.64	7,065.17	6,911.92	25.53	25.13	-87.06	-1,299.29	377.41	1,755.04	1,709.80	45.24	38.795	
7,225.00	6,981.21	7,053.09	6,904.93	25.54	25.09	-86.86	-1,298.33	367.60	1,754.13	1,708.98	45.15	38.854	
7,250.00	6,987.53	7,040.60	6,897.57	25.55	25.04	-86.63	-1,297.37	357.56	1,753.39	1,708.32	45.07	38.906	
7,275.00	6,992.56	7,027.73	6,889.84	25.58	24.99	-86.38	-1,296.39	347.32	1,752.81	1,707.81	45.00	38.947	
7,300.00	6,996.31	7,009.99	6,878.94	25.62	24.93	-86.01	-1,295.09	333.37	1,752.39	1,707.45	44.94	38.991	
7,325.00	6,998.77	7,009.99	6,878.94	25.67	24.93	-86.05	-1,295.09	333.37	1,752.12	1,707.16	44.96	38.973	
7,350.00	6,999.91	6,989.66	6,866.08	25.73	24.86	-85.61	-1,293.68	317.70	1,751.93	1,707.01	44.92	38.998	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design:		Camacho 25 26 Offsets - Palmillo 29-30 272H - OH - OH											Offset Site Error:		0.00 usft
Survey Program:		25-SuperiorQC MWD+IFR1+SAG+FDIR											Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:			Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)				
7,359.40	7,000.00	6,985.00	6,863.06	25.76	24.84	-85.52	-1,293.37	314.16	1,751.91	1,706.98	44.93	38.996	CC, ES		
7,362.40	7,000.00	6,983.51	6,862.09	25.77	24.84	-85.48	-1,293.27	313.03	1,751.91	1,706.98	44.93	38.994			
7,400.00	7,000.00	6,965.30	6,850.04	25.88	24.77	-85.09	-1,292.11	299.43	1,752.35	1,707.39	44.96	38.978			
7,442.73	7,000.00	6,945.62	6,836.60	26.03	24.70	-84.65	-1,290.94	285.10	1,753.93	1,708.90	45.03	38.946			
7,500.00	7,000.00	6,915.99	6,815.60	26.28	24.60	-83.97	-1,289.35	264.26	1,757.06	1,711.88	45.19	38.884			
7,527.01	7,000.00	6,915.99	6,815.60	26.40	24.60	-83.97	-1,289.35	264.26	1,758.70	1,713.36	45.35	38.784			
7,600.00	7,000.00	6,884.57	6,792.37	26.80	24.49	-83.21	-1,287.95	243.16	1,764.39	1,718.69	45.70	38.608			
7,700.00	7,000.00	6,852.42	6,767.65	27.49	24.38	-82.41	-1,286.86	222.64	1,775.99	1,729.59	46.40	38.275			
7,800.00	7,000.00	6,820.99	6,742.60	28.35	24.27	-81.60	-1,286.15	203.66	1,792.04	1,744.79	47.26	37.921			
7,900.00	7,000.00	6,794.74	6,721.08	29.42	24.17	-80.91	-1,285.77	188.65	1,812.54	1,764.28	48.26	37.559			
8,000.00	7,000.00	6,768.62	6,699.15	30.66	24.08	-80.21	-1,285.56	174.47	1,837.41	1,788.07	49.34	37.240			
8,100.00	7,000.00	6,726.99	6,663.21	32.08	23.94	-79.07	-1,285.53	153.46	1,866.82	1,816.45	50.37	37.063			
8,200.00	7,000.00	6,726.99	6,663.21	33.63	23.94	-79.07	-1,285.53	153.46	1,900.06	1,848.38	51.67	36.770			
8,300.00	7,000.00	6,726.99	6,663.21	35.30	23.94	-79.07	-1,285.53	153.46	1,937.90	1,884.94	52.96	36.593	SF		
8,400.00	7,000.00	6,682.91	6,623.97	37.07	23.78	-77.83	-1,285.80	133.40	1,978.91	1,924.94	53.97	36.666			
8,500.00	7,000.00	6,665.50	6,608.16	38.92	23.72	-77.34	-1,285.95	126.10	2,024.00	1,968.90	55.10	36.736			
8,600.00	7,000.00	6,631.99	6,577.29	40.83	23.60	-76.38	-1,286.33	113.09	2,072.80	2,016.71	56.09	36.958			
8,700.00	7,000.00	6,631.99	6,577.29	42.79	23.60	-76.38	-1,286.33	113.09	2,124.53	2,067.33	57.20	37.145			
8,800.00	7,000.00	6,631.99	6,577.29	44.80	23.60	-76.38	-1,286.33	113.09	2,179.63	2,121.39	58.23	37.429			
8,900.00	7,000.00	6,631.99	6,577.29	46.84	23.60	-76.38	-1,286.33	113.09	2,237.84	2,178.64	59.20	37.802			
9,000.00	7,000.00	6,631.99	6,577.29	48.91	23.60	-76.38	-1,286.33	113.09	2,298.93	2,238.84	60.09	38.256			
9,100.00	7,000.00	6,592.55	6,540.22	51.01	23.46	-75.25	-1,286.91	99.65	2,361.52	2,300.73	60.79	38.849			
9,200.00	7,000.00	6,583.97	6,532.06	53.13	23.43	-75.00	-1,287.07	97.01	2,427.13	2,365.60	61.53	39.443			
9,300.00	7,000.00	6,576.02	6,524.47	55.27	23.40	-74.77	-1,287.21	94.66	2,494.93	2,432.70	62.23	40.094			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 273H - OH - OH													Offset Site Error:	0.00 usft
Survey Program:		25-SuperiorQC MWD+IFR1+SAG+FDIR						Rule Assigned:					Offset Well Error:	0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.00	0.00	1.00	0.00	0.00	0.00	-170.05	-1,832.75	-321.61	1,860.75					
100.00	100.00	111.51	110.50	0.86	0.15	-170.06	-1,832.60	-321.03	1,860.54	1,859.53	1.01	1,850.293		
200.00	200.00	215.55	214.54	1.46	0.48	-170.10	-1,831.95	-319.75	1,859.71	1,857.77	1.93	961.304		
300.00	300.00	316.46	315.43	1.90	0.84	-170.12	-1,831.01	-318.78	1,858.61	1,855.87	2.74	678.637		
400.00	400.00	419.44	418.41	2.26	1.21	-170.16	-1,830.21	-317.40	1,857.62	1,854.15	3.47	535.597		
500.00	500.00	519.53	518.49	2.57	1.57	-170.19	-1,829.37	-316.43	1,856.63	1,852.49	4.14	448.443		
600.00	600.00	620.78	619.73	2.86	1.93	-170.22	-1,828.52	-315.30	1,855.61	1,850.82	4.78	387.844		
641.90	641.90	663.85	662.79	3.08	2.08	128.03	-1,828.12	-314.83	1,855.39	1,850.28	5.10	363.488	CC	
700.00	699.97	724.17	723.10	3.47	2.30	128.05	-1,827.51	-314.19	1,855.81	1,850.22	5.58	332.391	ES	
800.00	799.75	826.32	825.24	4.67	2.67	128.12	-1,826.38	-312.83	1,858.53	1,851.93	6.60	281.458		
900.00	899.14	902.00	900.90	5.65	2.93	128.15	-1,826.13	-311.04	1,864.54	1,857.08	7.45	250.117		
1,000.00	997.97	974.41	973.25	6.51	3.19	128.13	-1,827.02	-308.48	1,874.60	1,866.35	8.25	227.229		
1,035.78	1,033.16	999.86	998.68	6.60	3.28	128.12	-1,827.63	-307.42	1,879.21	1,870.81	8.41	223.571		
1,100.00	1,096.22	1,042.45	1,041.20	6.73	3.43	128.25	-1,829.00	-305.48	1,888.31	1,879.64	8.67	217.818		
1,200.00	1,194.42	1,111.00	1,109.58	6.96	3.67	128.44	-1,832.38	-302.08	1,904.01	1,894.87	9.14	208.307		
1,300.00	1,292.62	1,164.97	1,163.35	7.23	3.86	128.58	-1,836.11	-299.36	1,921.62	1,912.04	9.57	200.703		
1,400.00	1,390.81	1,224.74	1,222.82	7.51	4.07	128.73	-1,841.39	-296.52	1,941.26	1,931.23	10.04	193.429		
1,500.00	1,489.01	1,299.00	1,296.57	7.81	4.33	128.92	-1,849.43	-293.26	1,962.81	1,952.25	10.56	185.851		
1,600.00	1,587.21	1,362.76	1,359.78	8.13	4.55	129.07	-1,857.27	-290.46	1,985.74	1,974.69	11.05	179.712		
1,700.00	1,685.41	1,438.57	1,434.83	8.46	4.82	129.23	-1,867.31	-286.79	2,009.69	1,998.10	11.59	173.346		
1,800.00	1,783.61	1,509.81	1,505.21	8.80	5.07	129.36	-1,877.67	-282.87	2,034.77	2,022.65	12.12	167.845		
1,900.00	1,881.80	1,582.00	1,576.28	9.16	5.33	129.46	-1,889.40	-278.17	2,061.22	2,048.56	12.66	162.838		
2,000.00	1,980.00	1,650.07	1,643.09	9.52	5.58	129.53	-1,901.44	-273.19	2,088.89	2,075.71	13.18	158.512		
2,100.00	2,078.20	1,733.45	1,724.75	9.89	5.89	129.60	-1,917.00	-266.73	2,117.43	2,103.65	13.77	153.754		
2,200.00	2,176.40	1,823.20	1,812.56	10.27	6.22	129.66	-1,934.13	-259.48	2,146.32	2,131.92	14.40	149.057		
2,300.00	2,274.59	1,918.84	1,906.05	10.66	6.57	129.72	-1,952.61	-251.52	2,175.40	2,160.34	15.06	144.449		
2,400.00	2,372.79	2,016.05	2,001.11	11.05	6.94	129.78	-1,971.27	-243.48	2,204.36	2,188.63	15.73	140.108		
2,500.00	2,470.99	2,108.81	2,091.83	11.45	7.29	129.84	-1,989.08	-235.93	2,233.36	2,216.97	16.39	136.266		
2,600.00	2,569.19	2,202.38	2,183.34	11.85	7.64	129.90	-2,007.16	-228.49	2,262.52	2,245.46	17.05	132.667		
2,700.00	2,667.38	2,298.92	2,277.75	12.26	8.01	129.97	-2,025.82	-220.85	2,291.68	2,273.95	17.74	129.206		
2,800.00	2,765.58	2,408.88	2,385.25	12.67	8.43	130.02	-2,046.96	-211.43	2,320.64	2,302.15	18.49	125.518		
2,900.00	2,863.78	2,508.94	2,483.03	13.08	8.82	130.04	-2,065.87	-201.73	2,349.03	2,329.83	19.19	122.383		
3,000.00	2,961.98	2,597.11	2,569.15	13.50	9.16	130.05	-2,082.66	-193.07	2,377.53	2,357.69	19.84	119.816		
3,100.00	3,060.18	2,686.84	2,656.77	13.92	9.50	130.07	-2,099.99	-184.52	2,406.36	2,385.86	20.50	117.371		
3,200.00	3,158.37	2,787.43	2,754.99	14.34	9.89	130.09	-2,119.49	-174.97	2,435.26	2,414.04	21.22	114.773		
3,300.00	3,256.57	2,894.03	2,859.06	14.77	10.31	130.10	-2,139.89	-164.19	2,463.79	2,441.83	21.97	112.165		
3,400.00	3,354.77	2,988.11	2,950.89	15.20	10.67	130.10	-2,157.79	-154.23	2,492.13	2,469.47	22.65	110.018	SF	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 375H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 139-SDI_C510Ga_Keeper_gyroMWD, 3359-SuperiorQC MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.30	0.00	0.00	0.00	1.04	60.35	1.09	60.36				
100.00	100.00	101.19	99.89	0.86	0.15	1.25	60.44	1.32	60.46	59.46	1.00	60.435	
200.00	200.00	201.16	199.85	1.46	0.43	1.80	60.67	1.91	60.70	58.83	1.87	32.410	
300.00	300.00	300.95	299.64	1.90	0.80	2.32	60.94	2.47	60.99	58.33	2.67	22.860 ES	
400.00	400.00	400.11	398.79	2.26	1.15	2.61	62.16	2.83	62.24	58.85	3.39	18.378	
500.00	500.00	499.84	498.50	2.57	1.51	2.52	64.45	2.83	64.53	60.47	4.06	15.887	
600.00	600.00	600.01	598.65	2.86	1.86	1.97	66.57	2.29	66.62	61.92	4.71	14.152	
700.00	699.97	699.99	698.61	3.47	2.22	-61.86	68.60	1.78	67.58	62.15	5.43	12.436	
800.00	799.75	799.77	798.36	4.67	2.59	-67.16	70.62	1.38	66.80	60.63	6.17	10.823	
900.00	899.14	899.11	897.68	5.65	2.95	-75.98	72.73	1.14	65.49	58.83	6.66	9.828	
945.20	943.90	943.84	942.40	6.04	3.11	-81.19	73.77	1.05	65.26	58.43	6.83	9.549	
1,000.00	997.97	997.89	996.44	6.51	3.31	-88.42	75.10	0.97	65.74	58.68	7.06	9.312	
1,035.78	1,033.16	1,032.99	1,031.52	6.60	3.44	-93.55	76.02	0.92	66.71	59.49	7.22	9.240	
1,100.00	1,096.22	1,095.19	1,093.68	6.73	3.66	-102.31	78.28	0.76	70.43	62.76	7.67	9.179	
1,200.00	1,194.42	1,192.69	1,191.02	6.96	4.02	-113.13	83.60	0.14	80.58	71.98	8.60	9.367	
1,300.00	1,292.62	1,291.24	1,289.40	7.23	4.38	-121.15	89.48	-0.42	93.18	83.64	9.55	9.762	
1,400.00	1,390.81	1,388.49	1,386.45	7.51	4.73	-126.98	95.77	-1.36	107.73	97.32	10.42	10.343	
1,500.00	1,489.01	1,485.18	1,482.84	7.81	5.09	-131.04	103.07	-3.08	124.24	113.03	11.22	11.076	
1,600.00	1,587.21	1,582.98	1,580.32	8.13	5.44	-134.31	110.45	-5.80	142.18	130.18	12.00	11.847	
1,700.00	1,685.41	1,681.47	1,678.53	8.46	5.80	-137.06	117.32	-8.57	160.37	147.59	12.78	12.549	
1,800.00	1,783.61	1,780.01	1,776.84	8.80	6.16	-139.42	123.65	-11.25	178.63	165.08	13.55	13.183	
1,900.00	1,881.80	1,878.76	1,875.37	9.16	6.52	-141.43	129.62	-13.65	196.80	182.48	14.32	13.746	
2,000.00	1,980.00	1,977.15	1,973.58	9.52	6.88	-143.18	135.24	-15.88	214.94	199.86	15.08	14.256	
2,100.00	2,078.20	2,075.12	2,071.38	9.89	7.24	-144.73	140.51	-18.17	233.28	217.45	15.83	14.733	
2,200.00	2,176.40	2,174.06	2,170.19	10.27	7.60	-146.27	144.97	-20.43	251.64	235.04	16.61	15.153	
2,300.00	2,274.59	2,272.76	2,268.83	10.66	7.95	-147.97	147.64	-22.47	269.84	252.44	17.39	15.513	
2,400.00	2,372.79	2,371.42	2,367.46	11.05	8.31	-149.60	149.59	-24.37	288.07	269.89	18.19	15.840	
2,500.00	2,470.99	2,469.65	2,465.67	11.45	8.65	-151.27	150.29	-26.06	306.29	287.31	18.98	16.134	
2,600.00	2,569.19	2,567.70	2,563.70	11.85	8.99	-152.78	150.80	-27.77	324.77	304.99	19.78	16.419	
2,700.00	2,667.38	2,666.23	2,662.22	12.26	9.33	-154.20	150.90	-29.34	343.31	322.73	20.58	16.682	
2,800.00	2,765.58	2,763.38	2,759.36	12.67	9.66	-155.56	150.37	-30.94	362.14	340.76	21.37	16.944	
2,900.00	2,863.78	2,864.30	2,860.25	13.08	9.99	-156.96	149.01	-32.23	380.86	358.66	22.20	17.157	
3,000.00	2,961.98	2,962.94	2,958.88	13.50	10.31	-158.27	147.28	-32.90	399.23	376.23	23.01	17.354	
3,100.00	3,060.18	3,062.08	3,058.01	13.92	10.62	-159.47	145.53	-33.31	417.54	393.73	23.81	17.533	
3,200.00	3,158.37	3,160.35	3,156.26	14.34	10.94	-160.55	143.92	-33.55	435.82	411.20	24.61	17.705	
3,300.00	3,256.57	3,258.20	3,254.10	14.77	11.26	-161.53	142.40	-33.79	454.22	428.81	25.41	17.875	
3,400.00	3,354.77	3,355.86	3,351.75	15.20	11.45	-162.39	141.14	-34.16	472.82	446.75	26.06	18.141	
3,500.00	3,452.97	3,453.94	3,449.82	15.63	11.47	-163.16	140.15	-34.60	491.53	465.00	26.53	18.527	
3,600.00	3,551.16	3,551.89	3,547.77	16.06	11.49	-163.83	139.57	-35.13	510.32	483.32	27.00	18.901	
3,700.00	3,649.36	3,650.11	3,645.99	16.50	11.52	-164.41	139.38	-35.74	529.17	501.69	27.48	19.257	
3,800.00	3,747.56	3,747.75	3,743.62	16.93	11.56	-164.91	139.42	-36.43	548.08	520.12	27.96	19.599	
3,900.00	3,845.76	3,845.08	3,840.95	17.37	11.61	-165.38	139.48	-37.23	567.15	538.69	28.46	19.928	
4,000.00	3,943.96	3,943.05	3,938.91	17.81	11.67	-165.80	139.72	-38.15	586.31	557.34	28.97	20.239	
4,100.00	4,042.15	4,040.11	4,035.97	18.25	11.74	-166.17	140.13	-39.20	605.59	576.11	29.48	20.541	
4,200.00	4,140.35	4,137.47	4,133.32	18.69	11.82	-166.50	140.68	-40.45	625.05	595.04	30.01	20.830	
4,300.00	4,238.55	4,236.17	4,232.01	19.13	11.91	-166.80	141.49	-41.73	644.47	613.92	30.55	21.096	
4,400.00	4,336.75	4,333.02	4,328.84	19.58	12.01	-167.05	142.51	-43.16	664.02	632.93	31.09	21.358	
4,500.00	4,434.94	4,431.90	4,427.70	20.02	12.12	-167.26	143.86	-44.67	683.55	651.90	31.65	21.597	
4,600.00	4,533.14	4,534.07	4,529.84	20.47	12.25	-167.44	145.59	-46.20	702.98	670.74	32.24	21.805	
4,700.00	4,631.34	4,641.24	4,637.00	20.91	12.38	-167.68	147.02	-46.15	721.02	688.16	32.87	21.939	
4,800.00	4,729.54	4,739.73	4,735.49	21.36	12.51	-167.91	148.29	-45.72	738.74	705.29	33.45	22.084	
4,900.00	4,827.73	4,837.30	4,833.04	21.81	12.65	-168.12	149.56	-45.28	756.46	722.42	34.04	22.223	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 375H - OH - OH													Offset Site Error:	0.00 usft	
Survey Program:		139-SDI_C510Ga_Keeper_gyroMWD, 3359-SuperiorQC MWD+IFR1+SAG+FDIR										Rule Assigned:		Offset Well Error:	0.00 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance				Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.00	4,925.93	4,934.48	4,930.22	22.26	12.79	-168.43	149.39	-44.62	774.39	739.75	34.64	22.358			
5,100.00	5,024.13	5,033.10	5,028.84	22.71	12.95	-168.76	148.92	-43.90	792.38	757.13	35.25	22.480			
5,200.00	5,122.33	5,134.46	5,130.19	23.16	13.11	-169.03	149.08	-43.18	810.22	774.34	35.88	22.579			
5,300.00	5,220.53	5,234.15	5,229.88	23.61	13.28	-169.25	149.83	-42.25	827.70	791.18	36.52	22.666			
5,400.00	5,318.72	5,332.04	5,327.76	24.06	13.45	-169.45	150.72	-41.40	845.20	808.05	37.15	22.752			
5,500.00	5,416.92	5,429.48	5,425.20	24.51	13.64	-169.63	151.66	-40.66	862.79	825.01	37.78	22.835			
5,564.33	5,480.09	5,492.03	5,487.74	24.79	13.76	-169.74	152.31	-40.27	874.18	835.99	38.19	22.892			
5,600.00	5,515.17	5,526.73	5,522.44	24.95	13.82	-169.83	152.61	-40.06	880.25	841.84	38.41	22.918			
5,700.00	5,614.00	5,626.01	5,621.70	25.45	14.02	-170.12	152.02	-38.99	894.42	855.31	39.11	22.869			
5,800.00	5,713.39	5,732.38	5,728.00	26.00	14.23	-170.51	149.12	-36.68	903.97	864.05	39.92	22.646			
5,900.00	5,813.17	5,835.97	5,831.55	26.51	14.45	-170.76	147.32	-34.05	908.58	867.93	40.66	22.347			
5,999.99	5,913.13	5,934.14	5,929.69	26.77	14.66	-109.12	146.48	-31.78	908.84	867.73	41.11	22.108			
6,000.11	5,913.25	5,934.27	5,929.82	26.77	14.66	-109.12	146.48	-31.78	908.84	867.73	41.11	22.107			
6,100.00	6,013.14	6,035.15	6,030.67	26.82	14.88	-109.18	146.15	-29.63	906.94	865.56	41.38	21.917			
6,200.00	6,113.14	6,132.99	6,128.49	26.85	15.10	-109.22	146.18	-27.73	905.10	863.47	41.63	21.740			
6,300.00	6,213.14	6,229.48	6,224.97	26.89	15.32	-109.24	146.33	-26.28	903.63	861.75	41.88	21.578			
6,400.00	6,313.14	6,328.18	6,323.66	26.92	15.55	-109.27	146.31	-24.97	902.38	860.23	42.14	21.412			
6,500.00	6,413.14	6,426.68	6,422.16	26.96	15.79	-109.32	145.85	-23.70	901.32	858.91	42.41	21.251			
6,599.99	6,513.13	6,523.28	6,518.75	27.00	16.02	-109.40	145.02	-22.46	900.39	857.71	42.68	21.098			
6,609.40	6,522.54	6,531.81	6,527.27	27.00	16.04	-109.41	144.93	-22.37	900.33	857.63	42.70	21.086			
6,625.00	6,538.14	6,545.94	6,541.40	26.99	16.08	-20.49	144.76	-22.25	900.02	857.32	42.71	21.073			
6,650.00	6,563.09	6,568.54	6,564.00	26.93	16.13	-20.60	144.47	-22.09	898.59	855.89	42.70	21.046			
6,675.00	6,587.93	6,591.47	6,586.93	26.86	16.19	-20.79	144.15	-21.98	896.00	853.32	42.68	20.994			
6,700.00	6,612.60	6,615.71	6,611.16	26.79	16.25	-21.07	143.80	-21.89	892.22	849.56	42.67	20.911			
6,725.00	6,637.01	6,639.70	6,635.15	26.71	16.31	-21.43	143.42	-21.80	887.26	844.61	42.65	20.803			
6,750.00	6,661.12	6,663.38	6,658.83	26.63	16.37	-21.90	143.04	-21.72	881.13	838.50	42.63	20.669			
6,775.00	6,684.84	6,687.16	6,682.61	26.55	16.42	-22.46	142.65	-21.65	873.85	831.24	42.61	20.507			
6,800.00	6,708.12	6,711.98	6,707.42	26.46	16.49	-23.15	142.31	-21.57	865.41	822.80	42.60	20.313			
6,825.00	6,730.89	6,736.24	6,731.68	26.38	16.55	-23.95	142.10	-21.49	855.82	813.22	42.59	20.092			
6,850.00	6,753.09	6,759.89	6,755.33	26.29	16.61	-24.88	141.99	-21.40	845.11	802.53	42.59	19.845			
6,875.00	6,774.65	6,783.49	6,778.93	26.21	16.67	-25.97	141.99	-21.31	833.34	790.76	42.58	19.570			
6,900.00	6,795.53	6,807.42	6,802.86	26.13	16.73	-27.25	142.03	-21.14	820.49	777.91	42.59	19.266			
6,925.00	6,815.66	6,830.35	6,825.79	26.04	16.79	-28.73	142.08	-20.90	806.63	764.04	42.60	18.937			
6,950.00	6,834.98	6,852.22	6,847.66	25.97	16.84	-30.44	142.14	-20.58	791.80	749.20	42.60	18.586			
6,975.00	6,853.45	6,872.96	6,868.40	25.89	16.90	-32.40	142.21	-20.22	776.08	733.46	42.61	18.212			
7,000.00	6,871.01	6,889.68	6,885.11	25.83	16.94	-34.51	142.27	-19.91	759.55	716.95	42.60	17.829			
7,025.00	6,887.61	6,905.82	6,901.25	25.76	16.98	-36.93	142.33	-19.61	742.32	699.72	42.60	17.426			
7,050.00	6,903.22	6,920.95	6,916.38	25.71	17.02	-39.66	142.39	-19.33	724.43	681.83	42.60	17.006			
7,075.00	6,917.78	6,935.04	6,930.47	25.66	17.06	-42.73	142.43	-19.07	705.96	663.36	42.60	16.571			
7,100.00	6,931.26	6,948.05	6,943.47	25.61	17.09	-46.15	142.48	-18.83	686.98	644.37	42.61	16.123			
7,125.00	6,943.61	6,959.93	6,955.35	25.58	17.12	-49.94	142.52	-18.62	667.56	624.94	42.62	15.662			
7,150.00	6,954.82	6,970.60	6,966.01	25.55	17.15	-54.07	142.55	-18.42	647.79	605.15	42.64	15.191			
7,175.00	6,964.84	6,980.03	6,975.45	25.54	17.18	-58.50	142.59	-18.26	627.75	585.09	42.67	14.713			
7,200.00	6,973.64	6,988.28	6,983.70	25.53	17.20	-63.17	142.61	-18.11	607.53	564.83	42.69	14.230			
7,225.00	6,981.21	6,995.32	6,990.74	25.54	17.22	-67.98	142.63	-17.99	587.21	544.49	42.73	13.743			
7,250.00	6,987.53	7,001.13	6,996.54	25.55	17.23	-72.82	142.65	-17.89	566.90	524.14	42.77	13.255			
7,275.00	6,992.56	7,005.69	7,001.10	25.58	17.25	-77.55	142.67	-17.82	546.70	503.89	42.81	12.770			
7,300.00	6,996.31	7,008.98	7,004.39	25.62	17.25	-82.06	142.68	-17.76	526.70	483.84	42.86	12.289			
7,325.00	6,998.77	7,010.99	7,006.40	25.67	17.26	-86.23	142.68	-17.73	507.01	464.10	42.91	11.816			
7,350.00	6,999.91	7,011.71	7,007.12	25.73	17.26	-89.98	142.69	-17.72	487.75	444.79	42.96	11.353			
7,359.40	7,000.00	7,011.65	7,007.06	25.76	17.26	-91.28	142.69	-17.72	480.65	437.67	42.98	11.183			
7,400.00	7,000.00	7,010.99	7,006.40	25.88	17.26	-91.14	142.68	-17.73	451.07	408.01	43.05	10.477			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 375H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 139-SDI_C510Ga_Keeper_gyroMWD, 3359-SuperiorQC MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,442.73	7,000.00	7,010.29	7,005.70	26.03	17.26	-91.01	142.68	-17.74	422.27	379.16	43.11	9.795	
7,500.00	7,000.00	7,009.35	7,004.76	26.28	17.26	-90.85	142.68	-17.76	387.64	344.51	43.13	8.988	
7,527.01	7,000.00	7,008.91	7,004.32	26.40	17.25	-90.78	142.68	-17.76	372.99	329.90	43.10	8.655	
7,600.00	7,000.00	7,007.70	7,003.11	26.80	17.25	-90.56	142.67	-17.78	340.80	297.95	42.85	7.953	
7,700.00	7,000.00	7,006.04	7,001.45	27.49	17.25	-90.26	142.67	-17.81	319.30	277.27	42.03	7.598 SF	
7,720.97	7,000.00	7,005.69	7,001.10	27.66	17.25	-90.20	142.67	-17.82	318.61	276.80	41.80	7.621	
7,800.00	7,000.00	7,004.37	6,999.78	28.35	17.24	-89.96	142.66	-17.84	328.26	287.40	40.86	8.034	
7,900.00	7,000.00	7,002.69	6,998.10	29.42	17.24	-89.66	142.66	-17.87	365.45	325.53	39.91	9.156	
8,000.00	7,000.00	7,001.00	6,996.41	30.66	17.23	-89.35	142.65	-17.90	423.49	384.06	39.43	10.741	
8,100.00	7,000.00	6,999.29	6,994.71	32.08	17.23	-89.05	142.65	-17.92	495.11	455.83	39.28	12.605	
8,200.00	7,000.00	6,997.58	6,992.99	33.63	17.22	-88.74	142.64	-17.95	575.25	535.95	39.30	14.638	
8,300.00	7,000.00	6,995.86	6,991.27	35.30	17.22	-88.43	142.64	-17.98	660.82	621.44	39.39	16.778	
8,400.00	7,000.00	6,994.12	6,989.53	37.07	17.21	-88.12	142.63	-18.01	749.97	710.47	39.50	18.989	
8,500.00	7,000.00	6,992.38	6,987.79	38.92	17.21	-87.80	142.63	-18.04	841.56	801.95	39.61	21.247	
8,600.00	7,000.00	6,990.62	6,986.03	40.83	17.21	-87.49	142.62	-18.07	934.87	895.15	39.72	23.539	
8,700.00	7,000.00	6,988.85	6,984.27	42.79	17.20	-87.17	142.61	-18.10	1,029.43	989.61	39.82	25.854	
8,800.00	7,000.00	6,987.07	6,982.49	44.80	17.20	-86.85	142.61	-18.13	1,124.93	1,085.02	39.91	28.187	
8,900.00	7,000.00	6,985.28	6,980.70	46.84	17.19	-86.53	142.60	-18.16	1,221.15	1,181.16	40.00	30.532	
9,000.00	7,000.00	6,983.48	6,978.90	48.91	17.19	-86.21	142.60	-18.20	1,317.93	1,277.86	40.08	32.887	
9,100.00	7,000.00	6,981.67	6,977.08	51.01	17.18	-85.89	142.59	-18.23	1,415.16	1,375.01	40.15	35.247	
9,200.00	7,000.00	6,979.84	6,975.26	53.13	17.18	-85.56	142.58	-18.26	1,512.74	1,472.52	40.22	37.612	
9,300.00	7,000.00	6,978.01	6,973.42	55.27	17.17	-85.23	142.58	-18.29	1,610.62	1,570.34	40.29	39.980	
9,400.00	7,000.00	6,976.16	6,971.57	57.43	17.17	-84.90	142.57	-18.32	1,708.74	1,668.40	40.35	42.350	
9,500.00	7,000.00	6,974.29	6,969.71	59.60	17.16	-84.57	142.57	-18.36	1,807.07	1,766.66	40.41	44.720	
9,600.00	7,000.00	6,972.42	6,967.84	61.78	17.16	-84.24	142.56	-18.39	1,905.57	1,865.10	40.47	47.090	
9,700.00	7,000.00	6,970.54	6,965.95	63.98	17.15	-83.90	142.55	-18.42	2,004.22	1,963.69	40.52	49.458	
9,800.00	7,000.00	6,968.64	6,964.05	66.18	17.15	-83.56	142.55	-18.46	2,102.99	2,062.41	40.58	51.825	
9,900.00	7,000.00	6,966.73	6,962.14	68.40	17.14	-83.23	142.54	-18.49	2,201.87	2,161.24	40.63	54.190	
10,000.00	7,000.00	6,964.81	6,960.23	70.62	17.14	-82.89	142.54	-18.53	2,300.85	2,260.16	40.69	56.552	
10,100.00	7,000.00	6,962.98	6,958.40	72.85	17.13	-82.56	142.53	-18.56	2,399.91	2,359.17	40.74	58.912	
10,200.00	7,000.00	6,961.15	6,956.57	75.09	17.13	-82.24	142.52	-18.59	2,499.04	2,458.26	40.79	61.268	

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design:		Camacho 25 26 Offsets - Palmillo 29-30 376H - OH - OH											Offset Site Error:		0.00 usft	
Survey Program:		25-SuperiorQC MWD+IFR1+SAG+FDIR								Rule Assigned:				Offset Well Error:		0.00 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
0.00	0.00	0.00	3.00	0.00	0.00	-169.74	-1,772.75	-321.01	1,801.58							
100.00	100.00	109.00	112.00	0.86	0.15	-169.73	-1,772.43	-321.18	1,801.34	1,800.33	1.01	1,790.184				
200.00	200.00	209.08	212.07	1.46	0.50	-169.72	-1,771.85	-321.50	1,800.82	1,798.86	1.96	918.474				
240.61	240.61	237.61	240.61	1.64	0.60	-169.71	-1,771.67	-321.67	1,800.64	1,798.40	2.24	803.284				
300.00	300.00	297.11	300.10	1.90	0.81	-169.69	-1,771.67	-322.13	1,800.71	1,798.00	2.71	663.400				
304.45	304.45	300.62	303.61	1.92	0.83	-169.69	-1,771.66	-322.15	1,800.71	1,797.97	2.74	656.528				
400.00	400.00	388.98	391.97	2.26	1.13	-169.68	-1,771.93	-322.59	1,801.07	1,797.68	3.39	530.776				
500.00	500.00	475.06	478.05	2.57	1.43	-169.68	-1,772.83	-322.85	1,802.12	1,798.12	4.00	450.163				
600.00	600.00	577.47	580.45	2.86	1.79	-169.66	-1,773.94	-323.60	1,803.32	1,798.68	4.64	388.386				
700.00	699.97	684.79	687.76	3.47	2.17	128.61	-1,774.71	-324.39	1,805.52	1,800.06	5.46	330.917				
800.00	799.75	781.50	784.47	4.67	2.51	128.69	-1,775.25	-325.04	1,810.29	1,803.82	6.46	280.038				
900.00	899.14	868.19	871.15	5.65	2.82	128.78	-1,776.14	-325.63	1,818.26	1,810.90	7.36	246.929				
1,000.00	997.97	952.25	955.20	6.51	3.12	128.86	-1,777.81	-325.79	1,829.85	1,821.64	8.21	222.849				
1,035.78	1,033.16	983.61	986.54	6.60	3.23	128.90	-1,778.59	-325.77	1,834.84	1,826.45	8.39	218.663				
1,100.00	1,096.22	1,050.44	1,053.35	6.73	3.47	129.19	-1,780.40	-325.59	1,844.24	1,835.49	8.75	210.772				
1,200.00	1,194.42	1,203.06	1,205.94	6.96	3.99	129.84	-1,782.28	-324.38	1,857.55	1,848.01	9.54	194.759				
1,300.00	1,292.62	1,386.10	1,388.88	7.23	4.62	130.62	-1,777.28	-321.97	1,866.87	1,856.43	10.44	178.809				
1,400.00	1,390.81	1,510.03	1,512.59	7.51	5.04	131.12	-1,770.42	-319.16	1,873.42	1,862.27	11.15	167.980				
1,500.00	1,489.01	1,627.90	1,630.15	7.81	5.45	131.56	-1,762.98	-314.90	1,879.02	1,867.16	11.86	158.489				
1,600.00	1,587.21	1,750.73	1,752.51	8.13	5.87	131.98	-1,754.11	-309.00	1,883.54	1,870.96	12.59	149.655				
1,700.00	1,685.41	1,892.94	1,893.93	8.46	6.37	132.42	-1,741.85	-300.41	1,886.52	1,873.13	13.39	140.921				
1,800.00	1,783.61	2,042.64	2,042.29	8.80	6.90	132.85	-1,725.44	-289.01	1,886.79	1,872.58	14.21	132.733				
1,900.00	1,881.80	2,155.45	2,153.78	9.16	7.30	133.13	-1,711.55	-278.91	1,885.49	1,870.56	14.93	126.254				
2,000.00	1,980.00	2,246.65	2,243.89	9.52	7.62	133.35	-1,700.37	-270.41	1,884.20	1,868.61	15.60	120.818				
2,100.00	2,078.20	2,338.00	2,334.19	9.89	7.95	133.57	-1,689.54	-261.81	1,883.32	1,867.05	16.26	115.800				
2,200.00	2,176.40	2,434.85	2,429.96	10.27	8.29	133.79	-1,678.38	-252.62	1,882.76	1,865.81	16.95	111.046				
2,300.00	2,274.59	2,540.80	2,534.72	10.66	8.67	134.04	-1,666.12	-242.67	1,882.21	1,864.53	17.68	106.456				
2,400.00	2,372.79	2,645.13	2,637.86	11.05	9.05	134.29	-1,653.72	-232.96	1,881.42	1,863.01	18.41	102.211				
2,500.00	2,470.99	2,748.58	2,740.10	11.45	9.42	134.55	-1,641.08	-223.54	1,880.40	1,861.26	19.14	98.261				
2,600.00	2,569.19	2,848.53	2,838.88	11.85	9.78	134.80	-1,628.77	-214.52	1,879.33	1,859.47	19.86	94.628				
2,700.00	2,667.38	2,946.38	2,935.58	12.26	10.13	135.05	-1,616.76	-205.59	1,878.32	1,857.74	20.58	91.263				
2,800.00	2,765.58	3,039.03	3,027.15	12.67	10.47	135.27	-1,605.65	-196.96	1,877.56	1,856.27	21.29	88.193				
2,900.00	2,863.78	3,129.91	3,117.03	13.08	10.80	135.49	-1,595.21	-188.54	1,877.32	1,855.33	21.99	85.353				
2,904.45	2,868.15	3,134.05	3,121.13	13.10	10.81	135.50	-1,594.74	-188.16	1,877.32	1,855.30	22.03	85.229				
3,000.00	2,961.98	3,223.85	3,210.00	13.50	11.14	135.71	-1,584.73	-179.97	1,877.49	1,854.78	22.71	82.659				
3,100.00	3,060.18	3,316.99	3,302.20	13.92	11.47	135.93	-1,574.60	-171.47	1,877.96	1,854.53	23.43	80.143				
3,200.00	3,158.37	3,404.99	3,389.39	14.34	11.79	136.14	-1,565.70	-163.60	1,879.21	1,855.07	24.14	77.857				
3,300.00	3,256.57	3,533.69	3,516.85	14.77	12.26	136.48	-1,551.48	-153.01	1,879.87	1,854.88	24.98	75.244				
3,400.00	3,354.77	3,634.36	3,616.48	15.20	12.63	136.79	-1,539.13	-145.55	1,879.65	1,853.90	25.74	73.019				
3,444.00	3,397.98	3,675.76	3,657.47	15.39	12.78	136.92	-1,534.03	-142.67	1,879.61	1,853.54	26.07	72.106				
3,500.00	3,452.97	3,728.54	3,709.73	15.63	12.97	137.08	-1,527.61	-139.02	1,879.66	1,853.18	26.48	70.978				
3,600.00	3,551.16	3,825.04	3,805.28	16.06	13.32	137.36	-1,516.28	-131.67	1,879.98	1,852.75	27.23	69.037				
3,700.00	3,649.36	3,924.21	3,903.48	16.50	13.68	137.64	-1,504.72	-124.05	1,880.41	1,852.42	27.99	67.176				
3,800.00	3,747.56	4,023.62	4,001.92	16.93	14.04	137.93	-1,493.11	-116.54	1,880.90	1,852.14	28.76	65.407				
3,900.00	3,845.76	4,123.78	4,101.12	17.37	14.40	138.23	-1,481.30	-109.26	1,881.43	1,851.90	29.53	63.717				
4,000.00	3,943.96	4,223.78	4,200.15	17.81	14.77	138.54	-1,469.38	-102.21	1,881.97	1,851.67	30.30	62.109				
4,100.00	4,042.15	4,325.84	4,301.23	18.25	15.14	138.86	-1,457.07	-95.24	1,882.51	1,851.43	31.08	60.560				
4,200.00	4,140.35	4,428.90	4,403.28	18.69	15.51	139.19	-1,444.34	-88.50	1,882.92	1,851.05	31.88	59.071				
4,300.00	4,238.55	4,532.96	4,506.28	19.13	15.89	139.53	-1,431.21	-81.78	1,883.18	1,850.51	32.67	57.637				
4,400.00	4,336.75	4,633.77	4,606.06	19.58	16.26	139.87	-1,418.24	-75.42	1,883.34	1,849.87	33.46	56.282				
4,500.00	4,434.94	4,729.43	4,700.74	20.02	16.61	140.21	-1,405.85	-69.77	1,883.62	1,849.38	34.24	55.017				
4,600.00	4,533.14	4,818.99	4,789.43	20.47	16.93	140.53	-1,394.37	-64.88	1,884.26	1,849.26	34.99	53.846				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 376H - OH - OH													Offset Site Error:	0.00 usft
Survey Program:		25-SuperiorQC MWD+IFR1+SAG+FDIR										Offset Well Error:	0.00 usft	
Reference	Offset	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre			Rule Assigned:			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
4,700.00	4,631.34	4,914.63	4,884.18	20.91	17.28	140.88	-1,382.32	-60.02	1,885.32	1,849.55	35.77	52.701		
4,800.00	4,729.54	5,005.99	4,974.73	21.36	17.61	141.23	-1,370.98	-55.77	1,886.81	1,850.26	36.54	51.635		
4,900.00	4,827.73	5,054.37	5,022.78	21.81	17.79	141.41	-1,365.66	-53.84	1,889.93	1,852.80	37.13	50.895		
5,000.00	4,925.93	5,100.99	5,069.21	22.26	17.96	141.58	-1,361.72	-52.38	1,895.84	1,858.14	37.70	50.294		
5,100.00	5,024.13	5,195.99	5,163.94	22.71	18.30	141.94	-1,355.04	-50.04	1,903.34	1,864.87	38.47	49.471		
5,200.00	5,122.33	5,288.99	5,256.70	23.16	18.63	142.28	-1,348.72	-47.95	1,911.23	1,871.98	39.25	48.700		
5,300.00	5,220.53	5,349.06	5,316.66	23.61	18.84	142.50	-1,345.30	-46.72	1,920.28	1,880.43	39.85	48.191		
5,400.00	5,318.72	5,423.02	5,390.56	24.06	19.10	142.75	-1,342.54	-45.50	1,931.25	1,890.74	40.51	47.672		
5,500.00	5,416.92	5,514.29	5,481.78	24.51	19.43	143.06	-1,339.61	-44.09	1,942.87	1,901.60	41.27	47.080		
5,564.33	5,480.09	5,572.99	5,540.44	24.79	19.63	143.26	-1,337.99	-43.19	1,950.64	1,908.90	41.75	46.727		
5,600.00	5,515.17	5,602.15	5,569.59	24.95	19.74	143.41	-1,337.27	-42.76	1,954.84	1,912.85	41.99	46.559		
5,700.00	5,614.00	5,691.18	5,658.60	25.45	20.05	143.78	-1,335.35	-41.55	1,964.61	1,921.87	42.74	45.966		
5,800.00	5,713.39	5,781.58	5,748.97	26.00	20.37	144.04	-1,333.95	-40.26	1,971.41	1,927.90	43.52	45.301		
5,900.00	5,813.17	5,877.15	5,844.53	26.51	20.70	144.18	-1,332.83	-38.93	1,975.06	1,930.79	44.27	44.617		
5,999.99	5,913.13	5,976.26	5,943.62	26.77	21.05	-154.04	-1,331.58	-37.82	1,975.21	1,930.31	44.90	43.995		
6,000.11	5,913.25	5,976.37	5,943.73	26.77	21.05	-154.04	-1,331.58	-37.82	1,975.21	1,930.31	44.90	43.994		
6,100.00	6,013.14	6,070.05	6,037.40	26.82	21.38	-154.03	-1,330.38	-37.42	1,973.87	1,928.56	45.30	43.571		
6,200.00	6,113.14	6,166.18	6,133.52	26.85	21.72	-154.02	-1,329.11	-37.39	1,972.66	1,926.99	45.68	43.188		
6,300.00	6,213.14	6,253.86	6,221.20	26.89	22.02	-153.99	-1,328.06	-38.09	1,971.95	1,925.95	46.00	42.872		
6,370.57	6,283.71	6,316.38	6,283.71	26.91	22.24	-153.95	-1,327.48	-38.99	1,971.80	1,925.58	46.22	42.657		
6,400.00	6,313.14	6,343.02	6,310.35	26.92	22.33	-153.94	-1,327.28	-39.45	1,971.83	1,925.50	46.32	42.568		
6,500.00	6,413.14	6,435.79	6,403.09	26.96	22.64	-153.89	-1,326.83	-41.11	1,972.18	1,925.51	46.67	42.261		
6,599.99	6,513.13	6,530.31	6,497.60	27.00	22.96	-153.85	-1,326.64	-42.71	1,972.74	1,925.72	47.02	41.953		
6,609.40	6,522.54	6,537.64	6,504.93	27.00	22.99	-153.84	-1,326.64	-42.84	1,972.82	1,925.77	47.05	41.933		
6,625.00	6,538.14	6,549.80	6,517.08	26.99	23.03	-64.89	-1,326.67	-43.06	1,972.87	1,925.80	47.07	41.913		
6,650.00	6,563.09	6,569.25	6,536.54	26.93	23.09	-64.94	-1,326.74	-43.44	1,972.54	1,925.46	47.08	41.894		
6,675.00	6,587.93	6,588.65	6,555.93	26.86	23.16	-65.08	-1,326.86	-43.85	1,971.74	1,924.65	47.09	41.875		
6,700.00	6,612.60	6,608.99	6,576.26	26.79	23.23	-65.30	-1,327.04	-44.30	1,970.45	1,923.37	47.08	41.850		
6,725.00	6,637.01	6,632.97	6,600.24	26.71	23.31	-65.62	-1,327.28	-44.85	1,968.67	1,921.57	47.10	41.802		
6,750.00	6,661.12	6,658.04	6,625.30	26.63	23.39	-66.04	-1,327.52	-45.41	1,966.34	1,919.23	47.11	41.742		
6,775.00	6,684.84	6,682.74	6,650.00	26.55	23.47	-66.55	-1,327.76	-45.94	1,963.50	1,916.39	47.11	41.679		
6,800.00	6,708.12	6,706.74	6,673.98	26.46	23.55	-67.15	-1,327.99	-46.45	1,960.16	1,913.05	47.10	41.615		
6,825.00	6,730.89	6,728.39	6,695.64	26.38	23.62	-67.82	-1,328.21	-46.88	1,956.36	1,909.28	47.08	41.557		
6,850.00	6,753.09	6,749.51	6,716.75	26.29	23.69	-68.56	-1,328.45	-47.27	1,952.13	1,905.09	47.04	41.497		
6,875.00	6,774.65	6,770.03	6,737.26	26.21	23.76	-69.37	-1,328.71	-47.64	1,947.51	1,900.50	47.00	41.433		
6,900.00	6,795.53	6,789.89	6,757.11	26.13	23.83	-70.24	-1,328.99	-47.96	1,942.52	1,895.56	46.96	41.365		
6,925.00	6,815.66	6,797.99	6,765.21	26.04	23.85	-70.99	-1,329.11	-48.09	1,937.23	1,890.39	46.84	41.360		
6,950.00	6,834.98	6,819.69	6,786.91	25.97	23.93	-72.02	-1,329.47	-48.47	1,931.64	1,884.83	46.81	41.266		
6,975.00	6,853.45	6,832.74	6,799.95	25.89	23.97	-72.96	-1,329.73	-48.74	1,925.86	1,879.13	46.73	41.217		
7,000.00	6,871.01	6,845.23	6,812.43	25.83	24.01	-73.92	-1,330.01	-49.03	1,919.89	1,873.25	46.64	41.163		
7,025.00	6,887.61	6,857.11	6,824.31	25.76	24.05	-74.91	-1,330.30	-49.33	1,913.76	1,867.20	46.56	41.104		
7,050.00	6,903.22	6,868.37	6,835.56	25.71	24.09	-75.92	-1,330.59	-49.63	1,907.50	1,861.02	46.48	41.039		
7,075.00	6,917.78	6,892.99	6,860.16	25.66	24.17	-77.29	-1,331.31	-50.38	1,901.23	1,854.73	46.51	40.880		
7,100.00	6,931.26	6,892.99	6,860.16	25.61	24.17	-78.08	-1,331.31	-50.38	1,894.77	1,848.40	46.37	40.863		
7,125.00	6,943.61	6,908.16	6,875.32	25.58	24.22	-79.27	-1,331.77	-50.84	1,888.32	1,841.96	46.35	40.737		
7,150.00	6,954.82	6,932.86	6,900.00	25.55	24.30	-80.75	-1,332.41	-51.44	1,881.79	1,835.36	46.42	40.537		
7,175.00	6,964.84	6,954.49	6,921.62	25.54	24.37	-82.17	-1,332.88	-51.82	1,875.22	1,828.74	46.48	40.342		
7,200.00	6,973.64	6,973.09	6,940.22	25.53	24.43	-83.52	-1,333.21	-52.05	1,868.70	1,822.16	46.54	40.153		
7,225.00	6,981.21	6,988.71	6,955.83	25.54	24.49	-84.79	-1,333.43	-52.15	1,862.26	1,815.67	46.59	39.970		
7,250.00	6,987.53	7,001.42	6,968.54	25.55	24.53	-85.95	-1,333.58	-52.19	1,855.97	1,809.33	46.64	39.792		
7,275.00	6,992.56	7,004.29	6,971.41	25.58	24.54	-86.79	-1,333.62	-52.21	1,849.90	1,803.25	46.64	39.661		
7,300.00	6,996.31	7,009.58	6,976.70	25.62	24.56	-87.68	-1,333.67	-52.23	1,844.04	1,797.36	46.68	39.506		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 376H - OH - OH													Offset Site Error:	0.00 usft	
Survey Program:		25-SuperiorQC MWD+IFR1+SAG+FDIR					Rule Assigned:							Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
7,325.00	6,998.77	7,013.04	6,980.16	25.67	24.57	-88.48	-1,333.71	-52.24	1,838.45	1,791.73	46.72	39.351			
7,350.00	6,999.91	7,014.68	6,981.80	25.73	24.57	-89.18	-1,333.73	-52.24	1,833.15	1,786.38	46.77	39.198			
7,359.40	7,000.00	7,014.83	6,981.95	25.76	24.57	-89.42	-1,333.73	-52.24	1,831.23	1,784.45	46.79	39.141			
7,400.00	7,000.00	7,014.91	6,982.04	25.88	24.58	-89.43	-1,333.73	-52.24	1,823.70	1,776.81	46.89	38.895			
7,442.73	7,000.00	7,015.00	6,982.12	26.03	24.58	-89.43	-1,333.73	-52.24	1,817.18	1,770.15	47.04	38.633			
7,500.00	7,000.00	7,015.12	6,982.24	26.28	24.58	-89.43	-1,333.73	-52.24	1,809.88	1,762.58	47.31	38.260			
7,527.01	7,000.00	7,015.17	6,982.30	26.40	24.58	-89.43	-1,333.73	-52.24	1,806.76	1,759.31	47.45	38.074			
7,600.00	7,000.00	7,015.33	6,982.45	26.80	24.58	-89.44	-1,333.73	-52.24	1,800.08	1,752.15	47.93	37.554			
7,700.00	7,000.00	7,015.54	6,982.66	27.49	24.58	-89.45	-1,333.73	-52.24	1,795.70	1,746.94	48.76	36.829			
7,728.70	7,000.00	7,015.60	6,982.72	27.72	24.58	-89.45	-1,333.73	-52.24	1,795.47	1,746.43	49.04	36.611	CC, ES		
7,800.00	7,000.00	7,015.74	6,982.86	28.35	24.58	-89.45	-1,333.74	-52.24	1,796.89	1,747.14	49.75	36.118			
7,900.00	7,000.00	7,015.94	6,983.06	29.42	24.58	-89.46	-1,333.74	-52.24	1,803.62	1,752.75	50.87	35.456			
8,000.00	7,000.00	7,016.13	6,983.25	30.66	24.58	-89.47	-1,333.74	-52.24	1,815.85	1,763.77	52.08	34.868			
8,100.00	7,000.00	7,016.31	6,983.44	32.08	24.58	-89.47	-1,333.74	-52.24	1,833.46	1,780.12	53.34	34.373			
8,200.00	7,000.00	7,016.49	6,983.62	33.63	24.58	-89.48	-1,333.74	-52.24	1,856.30	1,801.67	54.62	33.984			
8,300.00	7,000.00	7,016.67	6,983.79	35.30	24.58	-89.48	-1,333.74	-52.24	1,884.17	1,828.27	55.90	33.706			
8,400.00	7,000.00	7,016.84	6,983.96	37.07	24.58	-89.49	-1,333.75	-52.24	1,916.86	1,859.71	57.15	33.543			
8,500.00	7,000.00	7,017.00	6,984.13	38.92	24.58	-89.49	-1,333.75	-52.24	1,954.13	1,895.78	58.35	33.491	SF		
8,600.00	7,000.00	7,017.16	6,984.29	40.83	24.58	-89.50	-1,333.75	-52.24	1,995.71	1,936.22	59.49	33.548			
8,700.00	7,000.00	7,017.32	6,984.45	42.79	24.58	-89.50	-1,333.75	-52.24	2,041.36	1,980.79	60.56	33.706			
8,800.00	7,000.00	7,017.48	6,984.60	44.80	24.58	-89.51	-1,333.75	-52.25	2,090.79	2,029.22	61.57	33.959			
8,900.00	7,000.00	7,017.62	6,984.75	46.84	24.58	-89.51	-1,333.75	-52.25	2,143.75	2,081.25	62.50	34.300			
9,000.00	7,000.00	7,017.77	6,984.89	48.91	24.58	-89.52	-1,333.75	-52.25	2,199.98	2,136.62	63.36	34.723			
9,100.00	7,000.00	7,017.91	6,985.04	51.01	24.59	-89.52	-1,333.76	-52.25	2,259.24	2,195.09	64.15	35.220			
9,200.00	7,000.00	7,018.05	6,985.17	53.13	24.59	-89.53	-1,333.76	-52.25	2,321.30	2,256.43	64.87	35.785			
9,300.00	7,000.00	7,018.19	6,985.31	55.27	24.59	-89.53	-1,333.76	-52.25	2,385.93	2,320.41	65.53	36.412			
9,400.00	7,000.00	7,018.32	6,985.44	57.43	24.59	-89.54	-1,333.76	-52.25	2,452.95	2,386.82	66.13	37.095			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 377H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 25-SuperiorQC MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	1.00	0.00	0.00	0.00	-170.20	-1,862.75	-321.81	1,890.34					
100.00	100.00	102.40	101.40	0.86	0.13	-170.20	-1,862.73	-321.75	1,890.31	1,889.32	0.99	1,913.340		
200.00	200.00	217.17	216.16	1.46	0.52	-170.22	-1,862.24	-320.97	1,889.77	1,887.79	1.98	953.516		
300.00	300.00	316.67	315.67	1.90	0.87	-170.22	-1,861.72	-320.91	1,889.24	1,886.47	2.77	681.634		
400.00	400.00	423.51	422.49	2.26	1.25	-170.21	-1,860.67	-321.08	1,888.30	1,884.79	3.51	537.977		
500.00	500.00	529.61	528.59	2.57	1.63	-170.21	-1,859.25	-320.93	1,886.97	1,882.76	4.20	449.060		
600.00	600.00	628.80	627.77	2.86	1.98	-170.21	-1,857.80	-320.41	1,885.43	1,880.59	4.84	389.711		
651.40	651.40	678.50	677.45	3.13	2.16	128.05	-1,857.08	-320.44	1,885.06	1,879.83	5.22	361.007 CC		
700.00	699.97	728.78	727.73	3.47	2.34	128.10	-1,856.31	-320.67	1,885.35	1,879.73	5.62	335.282 ES		
800.00	799.75	819.55	818.48	4.67	2.66	128.21	-1,854.93	-321.39	1,888.05	1,881.44	6.60	286.015		
900.00	899.14	905.97	904.90	5.65	2.96	128.34	-1,854.24	-322.25	1,894.21	1,886.71	7.49	252.837		
1,000.00	997.97	1,003.01	1,001.94	6.51	3.30	128.54	-1,853.93	-323.21	1,903.59	1,895.21	8.38	227.063		
1,035.78	1,033.16	1,041.05	1,039.97	6.60	3.44	128.64	-1,853.75	-323.58	1,907.58	1,898.99	8.59	222.115		
1,100.00	1,096.22	1,103.41	1,102.33	6.73	3.66	128.94	-1,853.41	-324.19	1,915.04	1,906.11	8.93	214.381		
1,200.00	1,194.42	1,200.66	1,199.58	6.96	4.00	129.40	-1,852.91	-325.25	1,926.82	1,917.30	9.53	202.245		
1,300.00	1,292.62	1,296.99	1,295.89	7.23	4.34	129.85	-1,852.45	-326.37	1,938.77	1,928.63	10.14	191.147		
1,400.00	1,390.81	1,399.97	1,398.87	7.51	4.71	130.33	-1,851.95	-327.57	1,950.85	1,940.05	10.80	180.682		
1,500.00	1,489.01	1,483.62	1,482.52	7.81	5.00	130.71	-1,851.59	-328.35	1,963.07	1,951.69	11.38	172.449		
1,600.00	1,587.21	1,556.42	1,555.31	8.13	5.25	131.02	-1,852.21	-328.65	1,976.51	1,964.58	11.93	165.682		
1,700.00	1,685.41	1,629.22	1,628.09	8.46	5.49	131.30	-1,854.01	-328.40	1,991.39	1,978.91	12.48	159.618		
1,800.00	1,783.61	1,717.45	1,716.25	8.80	5.79	131.61	-1,857.19	-327.16	2,007.17	1,994.08	13.09	153.387		
1,900.00	1,881.80	1,815.32	1,814.01	9.16	6.12	131.91	-1,861.14	-324.71	2,023.18	2,009.44	13.74	147.248		
2,000.00	1,980.00	1,898.00	1,896.56	9.52	6.40	132.15	-1,864.95	-322.33	2,039.70	2,025.36	14.34	142.227		
2,100.00	2,078.20	1,970.70	1,969.11	9.89	6.65	132.35	-1,869.09	-320.12	2,057.24	2,042.33	14.91	138.010		
2,200.00	2,176.40	2,035.95	2,034.15	10.27	6.87	132.51	-1,873.74	-317.90	2,076.13	2,060.68	15.44	134.448		
2,300.00	2,274.59	2,087.00	2,084.97	10.66	7.05	132.63	-1,878.23	-316.11	2,096.75	2,080.84	15.91	131.757		
2,400.00	2,372.79	2,160.78	2,158.28	11.05	7.30	132.78	-1,886.05	-313.28	2,118.94	2,102.45	16.48	128.542		
2,500.00	2,470.99	2,222.97	2,219.92	11.45	7.52	132.89	-1,893.88	-310.54	2,142.77	2,125.77	17.00	126.044		
2,600.00	2,569.19	2,276.00	2,272.32	11.85	7.70	132.96	-1,901.50	-307.78	2,168.21	2,150.74	17.47	124.112		
2,700.00	2,667.38	2,347.91	2,343.13	12.26	7.95	133.03	-1,913.22	-303.23	2,195.12	2,177.09	18.03	121.781		
2,800.00	2,765.58	2,417.15	2,410.99	12.67	8.20	133.06	-1,925.86	-297.94	2,223.41	2,204.85	18.56	119.766		
2,900.00	2,863.78	2,494.90	2,486.96	13.08	8.47	133.06	-1,941.06	-291.30	2,252.69	2,233.55	19.15	117.664		
3,000.00	2,961.98	2,583.97	2,573.86	13.50	8.79	133.06	-1,958.96	-283.48	2,282.44	2,262.66	19.78	115.365		
3,100.00	3,060.18	2,677.63	2,665.23	13.92	9.13	133.06	-1,977.88	-275.39	2,312.33	2,291.88	20.45	113.067		
3,200.00	3,158.37	2,770.39	2,755.73	14.34	9.46	133.06	-1,996.66	-267.57	2,342.32	2,321.20	21.12	110.923		
3,300.00	3,256.57	2,884.87	2,867.54	14.77	9.88	133.08	-2,019.45	-258.35	2,372.09	2,350.19	21.90	108.317		
3,400.00	3,354.77	2,974.06	2,954.76	15.20	10.21	133.10	-2,036.78	-251.53	2,401.51	2,378.96	22.55	106.474		
3,500.00	3,452.97	3,065.59	3,044.26	15.63	10.55	133.13	-2,054.70	-244.68	2,431.12	2,407.89	23.23	104.677		
3,600.00	3,551.16	3,158.08	3,134.72	16.06	10.89	133.16	-2,072.85	-238.17	2,460.87	2,436.96	23.90	102.951		
3,700.00	3,649.36	3,250.99	3,225.59	16.50	11.24	133.20	-2,091.13	-231.76	2,490.72	2,466.13	24.59	101.307 SF		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - STATE E-4202 1 - OH - OH													Offset Site Error:	0.00 usft
Survey Program:		500-UNKNOWN						Rule Assigned:				Offset Well Error:	0.00 usft	
Measured Depth	Reference	Offset	Semi Major Axis		Highside Toolface	Offset Wellbore Centre		Distance			Separation Factor	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)		Offset (usft)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			Minimum Separation (usft)	
0.00	0.00	0.00	19.00	0.00	0.00	-83.72	170.07	-1,546.57	1,556.01					
100.00	100.00	81.00	100.00	0.86	4.05	-83.72	170.07	-1,546.57	1,555.90	1,550.99	4.91	316.858		
200.00	200.00	181.00	200.00	1.46	9.06	-83.72	170.07	-1,546.57	1,555.90	1,545.38	10.51	147.978		
300.00	300.00	281.00	300.00	1.90	14.06	-83.72	170.07	-1,546.57	1,555.90	1,539.94	15.96	97.481		
400.00	400.00	381.00	400.00	2.26	19.06	-83.72	170.07	-1,546.57	1,555.90	1,534.57	21.33	72.960		
500.00	500.00	481.00	500.00	2.57	24.07	-83.72	170.07	-1,546.57	1,555.90	1,529.26	26.64	58.400		
600.00	600.00	581.00	600.00	2.86	28.30	-83.72	170.07	-1,546.57	1,555.90	1,524.74	31.16	49.934 CC		
700.00	699.97	680.97	699.97	3.47	32.36	-145.50	170.07	-1,546.57	1,557.70	1,522.03	35.66	43.680 ES		
800.00	799.75	780.75	799.75	4.67	36.40	-145.56	170.07	-1,546.57	1,563.09	1,522.43	40.66	38.441		
900.00	899.14	880.14	899.14	5.65	40.44	-145.66	170.07	-1,546.57	1,572.09	1,526.60	45.50	34.555		
1,000.00	997.97	978.97	997.97	6.51	44.44	-145.79	170.07	-1,546.57	1,584.71	1,534.48	50.23	31.552		
1,035.78	1,033.16	1,014.16	1,033.16	6.60	45.87	-145.85	170.07	-1,546.57	1,590.10	1,538.37	51.73	30.739		
1,100.00	1,096.22	1,077.22	1,096.22	6.73	48.40	-146.09	170.07	-1,546.57	1,600.22	1,545.83	54.39	29.420		
1,200.00	1,194.42	1,175.42	1,194.42	6.96	52.35	-146.46	170.07	-1,546.57	1,616.03	1,557.44	58.58	27.585		
1,300.00	1,292.62	1,273.62	1,292.62	7.23	56.30	-146.82	170.07	-1,546.57	1,631.90	1,569.10	62.80	25.984		
1,400.00	1,390.81	1,371.81	1,390.81	7.51	60.25	-147.18	170.07	-1,546.57	1,647.83	1,580.80	67.04	24.580		
1,500.00	1,489.01	1,470.01	1,489.01	7.81	64.20	-147.53	170.07	-1,546.57	1,663.83	1,592.54	71.29	23.339		
1,600.00	1,587.21	1,568.21	1,587.21	8.13	68.14	-147.88	170.07	-1,546.57	1,679.89	1,604.35	75.55	22.237		
1,700.00	1,685.41	1,666.41	1,685.41	8.46	72.08	-148.21	170.07	-1,546.57	1,696.01	1,616.20	79.81	21.251		
1,800.00	1,783.61	1,764.61	1,783.61	8.80	76.02	-148.55	170.07	-1,546.57	1,712.18	1,628.10	84.08	20.363		
1,900.00	1,881.80	1,862.80	1,881.80	9.16	79.96	-148.87	170.07	-1,546.57	1,728.41	1,640.04	88.37	19.559		
2,000.00	1,980.00	1,961.00	1,980.00	9.52	83.90	-149.19	170.07	-1,546.57	1,744.69	1,652.03	92.66	18.829		
2,100.00	2,078.20	2,059.20	2,078.20	9.89	87.98	-149.50	170.07	-1,546.57	1,761.03	1,663.92	97.11	18.135		
2,200.00	2,176.40	2,157.40	2,176.40	10.27	92.16	-149.81	170.07	-1,546.57	1,777.42	1,675.76	101.65	17.485		
2,300.00	2,274.59	2,255.59	2,274.59	10.66	96.34	-150.11	170.07	-1,546.57	1,793.85	1,687.65	106.20	16.891		
2,400.00	2,372.79	2,353.79	2,372.79	11.05	100.52	-150.41	170.07	-1,546.57	1,810.34	1,699.57	110.76	16.344		
2,500.00	2,470.99	2,451.99	2,470.99	11.45	104.69	-150.70	170.07	-1,546.57	1,826.87	1,711.54	115.33	15.841		
2,600.00	2,569.19	2,550.19	2,569.19	11.85	108.87	-150.99	170.07	-1,546.57	1,843.44	1,723.55	119.89	15.376		
2,700.00	2,667.38	2,648.38	2,667.38	12.26	113.05	-151.27	170.07	-1,546.57	1,860.06	1,735.60	124.47	14.944 SF		
2,800.00	2,765.58	2,654.00	2,673.00	12.67	113.29	-151.29	170.07	-1,546.57	1,879.01	1,754.14	124.87	15.048		
2,900.00	2,863.78	2,654.00	2,673.00	13.08	113.29	-151.29	170.07	-1,546.57	1,903.02	1,778.31	124.71	15.260		
3,000.00	2,961.98	2,654.00	2,673.00	13.50	113.29	-151.29	170.07	-1,546.57	1,931.91	1,807.67	124.24	15.550		
3,100.00	3,060.18	2,654.00	2,673.00	13.92	113.29	-151.29	170.07	-1,546.57	1,965.48	1,841.97	123.50	15.915		
3,200.00	3,158.37	2,654.00	2,673.00	14.34	113.29	-151.29	170.07	-1,546.57	2,003.47	1,880.95	122.53	16.351		
3,300.00	3,256.57	2,654.00	2,673.00	14.77	113.29	-151.29	170.07	-1,546.57	2,045.66	1,924.31	121.35	16.858		
3,400.00	3,354.77	2,654.00	2,673.00	15.20	113.29	-151.29	170.07	-1,546.57	2,091.77	1,971.78	120.00	17.432		
3,500.00	3,452.97	2,654.00	2,673.00	15.63	113.29	-151.29	170.07	-1,546.57	2,141.57	2,023.06	118.51	18.070		
3,600.00	3,551.16	2,654.00	2,673.00	16.06	113.29	-151.29	170.07	-1,546.57	2,194.80	2,077.87	116.92	18.771		
3,700.00	3,649.36	2,654.00	2,673.00	16.50	113.29	-151.29	170.07	-1,546.57	2,251.21	2,135.96	115.25	19.533		
3,800.00	3,747.56	2,654.00	2,673.00	16.93	113.29	-151.29	170.07	-1,546.57	2,310.57	2,197.04	113.53	20.352		
3,900.00	3,845.76	2,654.00	2,673.00	17.37	113.29	-151.29	170.07	-1,546.57	2,372.67	2,260.90	111.77	21.228		
4,000.00	3,943.96	2,654.00	2,673.00	17.81	113.29	-151.29	170.07	-1,546.57	2,437.29	2,327.29	110.00	22.157		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to PATT 879 @ 3499.00usft

Offset Depths are relative to Offset Datum

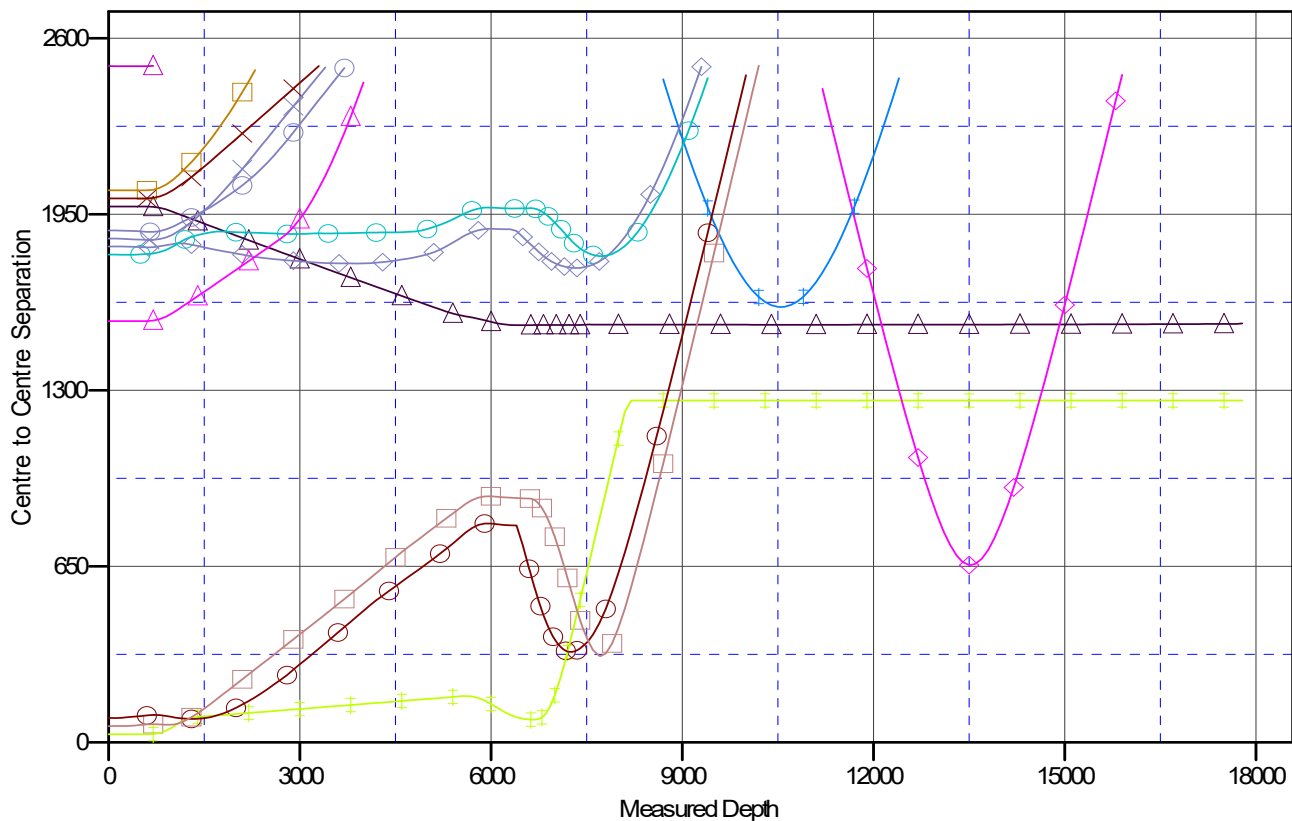
Central Meridian is -104.333334

Coordinates are relative to: Camacho 25-26 State Com 201H

Coordinate System is US State Plane 1983, New Mexico Eastern Zone

Grid Convergence at Surface is: 0.06°

Ladder Plot



LEGEND

Camacho 25-26 State Com 202H, OH, Plan #1 V0	EDDY GL STATE COM #001, OH, OH V0	Palmililo 29-30375H, OH, OH V0
Camacho 25-26 State Com 203H, OH, Plan #1 V0	GUARDIAN 26 STATE COM #001, OH, OH V0	Palmililo 29-30376H, OH, OH V0
Camacho 25-26 State Com 204H, OH, Plan #1 V0	Palmililo 29-30271H, OH, OH V0	Palmililo 29-30377H, OH, OH V0
Camacho 25-26 State Com 301H, OH, Plan #1 V0	Palmililo 29-30272H, OH, OH V0	STATE E-42021, OH, OH V0
ANGELL RANCH 26 #001, OH, OH V0	Palmililo 29-30273H, OH, OH V0	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

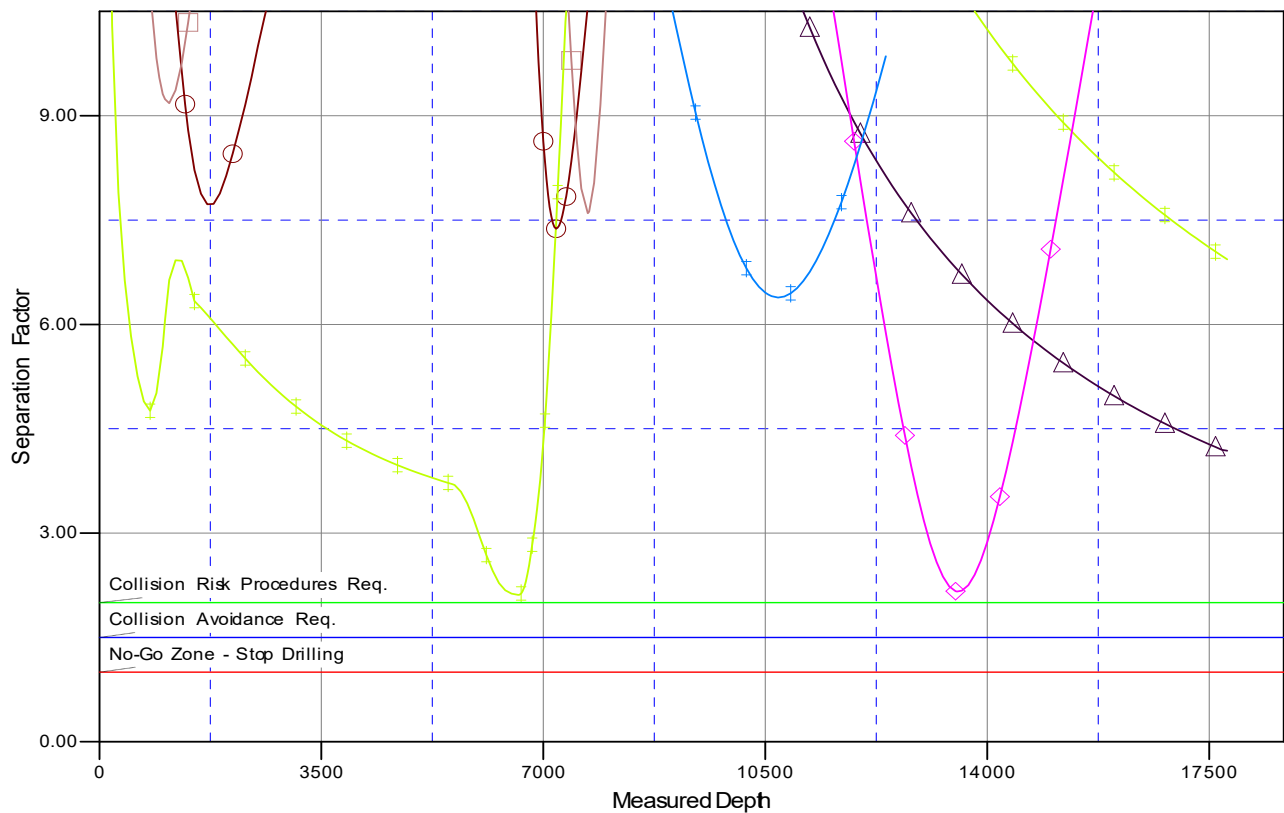
Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 201H
Project:	Eddy Co, NM (NAD83 NM E)	TVD Reference:	PATT 879 @ 3499.00usft
Reference Site:	Camacho 25 26	MD Reference:	PATT 879 @ 3499.00usft
Site Error:	0.00 usft	North Reference:	Grid
Reference Well:	Camacho 25-26 State Com 201H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Reference Depths are relative to PATT 879 @ 3499.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Camacho 25-26 State Com 201H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.06°

Separation Factor Plot



LEGEND

Camacho 25-26 State Com 202H, OH, Plan #1 V0	EDDY GL STATE COM #001, OH, OH V0	Palmillo 29-30375H, OH, OH V0
Camacho 25-26 State Com 203H, OH, Plan #1 V0	GUARDIAN 26 STATE COM #001, OH, OH V0	Palmillo 29-30376H, OH, OH V0
Camacho 25-26 State Com 204H, OH, Plan #1 V0	Palmillo 29-30271H, OH, OH V0	Palmillo 29-30377H, OH, OH V0
Camacho 25-26 State Com 301H, OH, Plan #1 V0	Palmillo 29-30272H, OH, OH V0	STATE E-42021, OH, OH V0
ANGELL RANCH 26 #001, OH, OH V0	Palmillo 29-30273H, OH, OH V0	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 393573

CONDITIONS

Operator: APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	OGRID: 873
	Action Number: 393573
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	If cement is not circulated to surface during cementing operations, a Cement Bond Log (CBL) is required.	11/1/2024
ward.rikala	All original COA's still apply.	11/1/2024