District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 362781

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address	2. OGRID Number
APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705	873
	3. API Number 30-015-55001

4. Property Code	5. Property Name	6. Well No.
335857	CAMACHO 25 26 STATE COM	203H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
I	25	19S	27E		2482	S	750	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
L	26	19S	27E	L	1866	S	50	W	Eddy

9. Pool Information

WINCHESTER; BONE SPRING, WEST	97569

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3470
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	17880	2nd Bone Spring Sand		8/12/2024
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ **We will be using a closed-loop system in lieu of lined pits**

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	400	212	0
Int1	12.25	9.625	40	3000	579	0
Prod	8.5	5.5	20	17880	2758	400

Casing/Cement Program: Additional Comments

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	3000	1500	
Double Ram	3000	3000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. **I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.** Signature:		**OIL CONSERVATION DIVISION**	
Printed Name:	Electronically filed by Sorina Flores	Approved By:	Ward Rikala
Title:	Supv of Drilling Services	Title:	
Email Address:	sorina.flores@apachecorp.com	Approved Date: 5/7/2024	Expiration Date: 5/7/2026
Date: 5/2/2024	Phone: 432-818-1167	Conditions of Approval Attached	

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DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-55001	97569	Winchester; Bone Spring, West

Property Code	Property Name	Well Number
335857	CAMACHO 25 26 STATE COM	203H

OGRID No.	Operator Name	Elevation
873	APACHE CORPORATION	3470'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	25	19-S	27-E	-	2482'	SOUTH	750'	EAST	EDDY

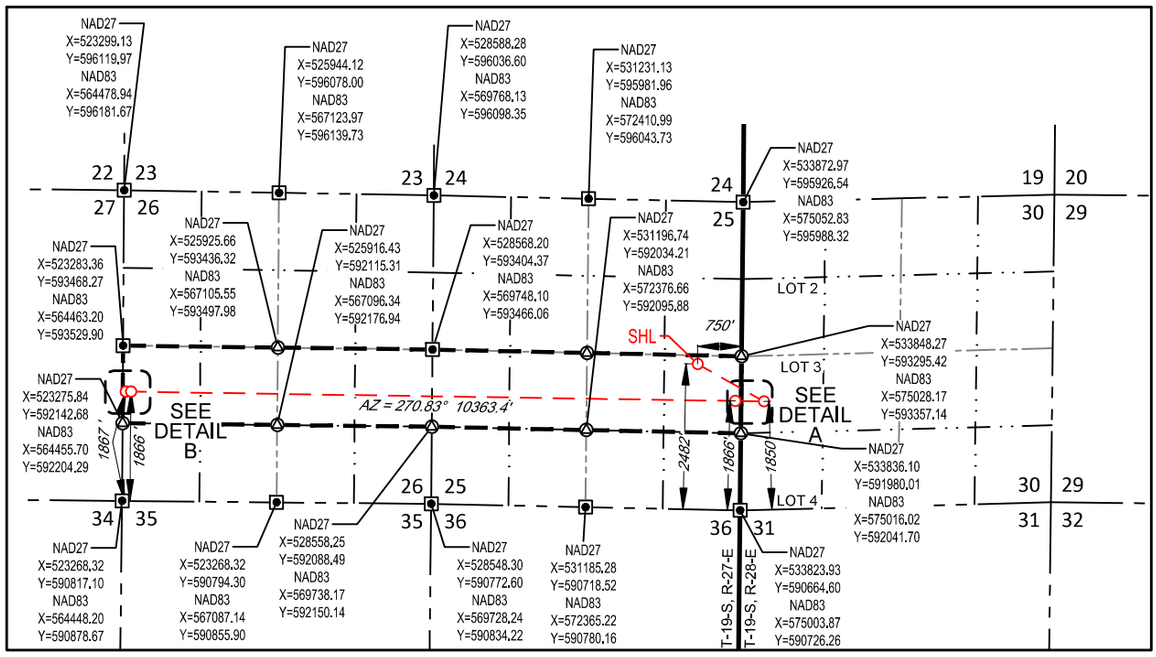
Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	26	19-S	27-E	-	1866'	SOUTH	50'	WEST	EDDY

Dedicated Acres	Joint or Infill	Consolidated Code	Order No.
320			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SURFACE LOCATION (SHL)	KICK OFF POINT (KOP)	FIRST TAKE POINT (FTP)	LAST TAKE POINT (LTP)	BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST	NEW MEXICO EAST	NEW MEXICO EAST	NEW MEXICO EAST	NEW MEXICO EAST
NAD 1983	NAD 1983	NAD 1983	NAD 1983	NAD 1983
X=574277 Y=593224	X=575409 Y=592588	X=574921 Y=592595	X=564559 Y=592744	X=564509 Y=592745
LAT.: N 32.6307766	LAT.: N 32.6290242	LAT.: N 32.6290449	LAT.: N 32.6294809	LAT.: N 32.6294830
LONG.: W 104.2263341	LONG.: W 104.2226604	LONG.: W 104.2242436	LONG.: W 104.2579033	LONG.: W 104.2580657
NAD 1927	NAD 1927	NAD 1927	NAD 1927	NAD 1927
X=533097 Y=593162	X=534229 Y=592526	X=533741 Y=592533	X=523379 Y=592683	X=523329 Y=592683
LAT.: N 32.6306602	LAT.: N 32.6289077	LAT.: N 32.6289284	LAT.: N 32.6293645	LAT.: N 32.6293666
LONG.: W 104.2258247	LONG.: W 104.2221511	LONG.: W 104.2237342	LONG.: W 104.2573931	LONG.: W 104.2575555
2482' FSL 750' FEL	1850' FSL 387' FWL	1866' FSL 100' FEL	1866' FSL 100' FWL	1867' FSL 50' FWL



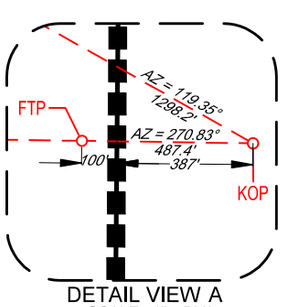
OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

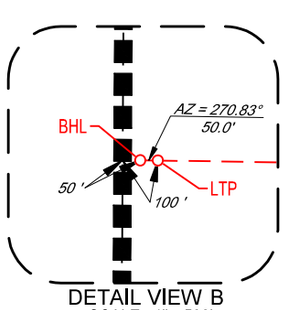
Sorina L Flores 5/1/24
Signature Date

Sorina L Flores
Print Name

sorina.flores@apchecorp.com
E-mail Address



DETAIL VIEW A
SCALE: 1" = 500'



DETAIL VIEW B
SCALE: 1" = 500'

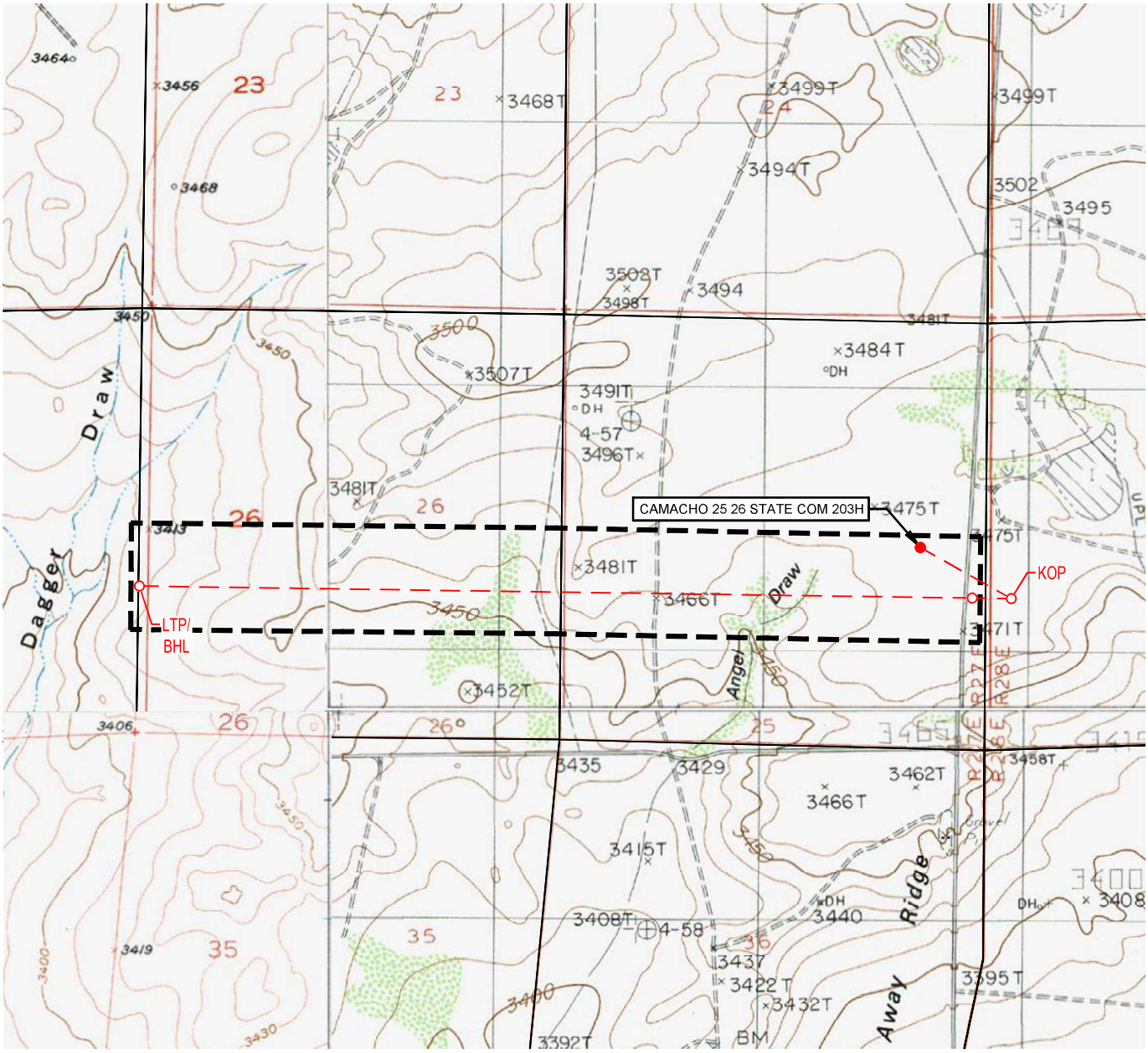
SURVEYORS CERTIFICATION

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.

03/09/2024
Date of Survey
Signature and Seal of Professional Surveyor:

S:\SURVEY\APACHE_CORPORATION\CAMACHO_25_26_STATE_COM_NEW\DGN\CAMACHO_25_26_STATE_COM_203H.dwg, JOE.DUNCAN, 4/24/2024 12:21 PM

LOCATION & ELEVATION VERIFICATION MAP



Apache

LEASE NAME & WELL NO.: CAMACHO 25 26 STATE COM 203H

SECTION 25 TWP 19-S RGE 27-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM ELEVATION 3470'
DESCRIPTION 2482' FSL & 750' FEL

LATITUDE N 32.6307766 LONGITUDE W 104.2263341

N

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

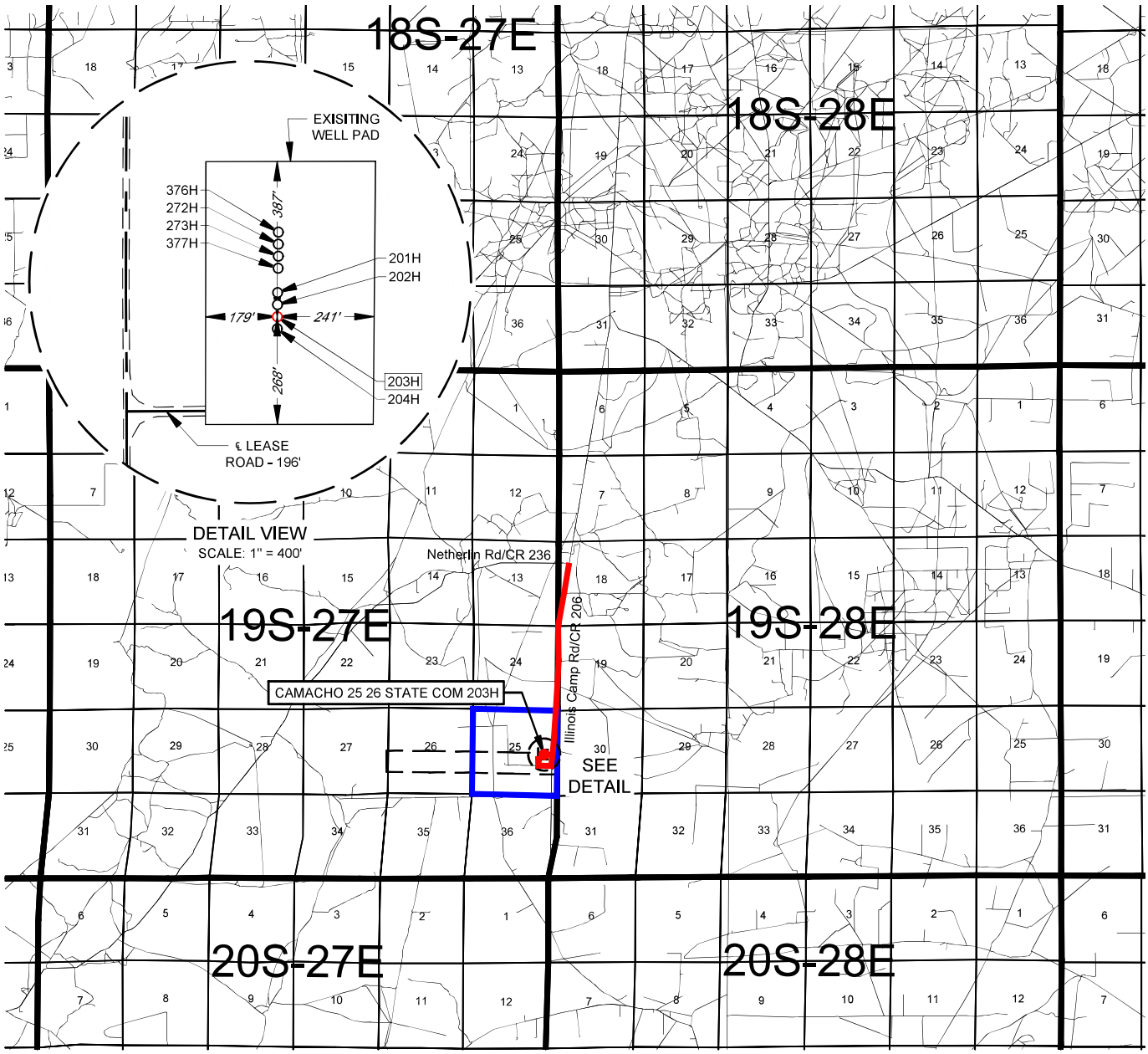
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY APACHE CORPORATION. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS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



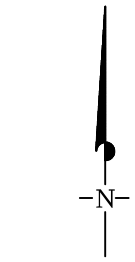
Apache

LEASE NAME & WELL NO.: CAMACHO 25 26 STATE COM 203H

SECTION 25 TWP 19-S RGE 27-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 2482' FSL & 750' FEL

DISTANCE & DIRECTION

FROM INT. OF NETHERLIN RD/ CR-236, & ILLINOIS CAMP RD/ CR-206, GO SOUTH ON ILLINOIS CAMP RD/ CR-206 ±2.4 MILES, THENCE WEST (RIGHT) ON EDDY COMP ±0.2 MILES, THENCE NORTH (RIGHT) ON A LEASE RD ±488 FEET, THENCE EAST (RIGHT) ON A LEASE RD, ±196 FEET TO A POINT ±295 FEET SOUTHWEST OF THE LOCATION.



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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2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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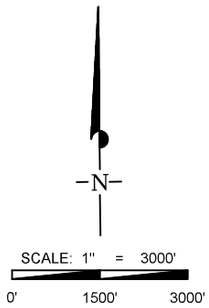
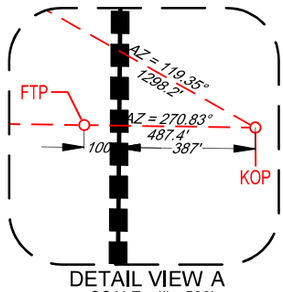
WWW.TOPOGRAPHIC.COM

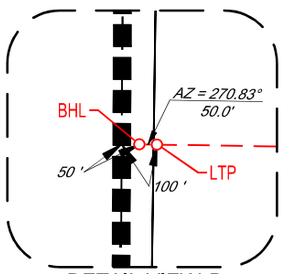
EXHIBIT 2A

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

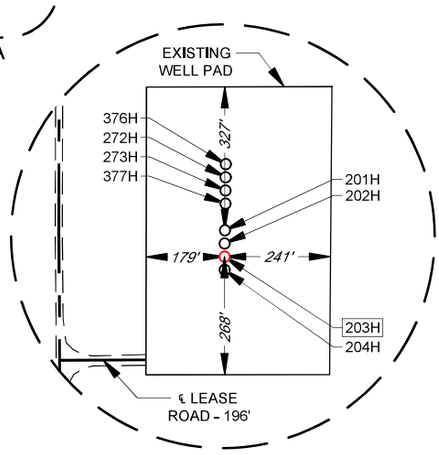




DETAIL VIEW A
SCALE: 1" = 500'



DETAIL VIEW B
SCALE: 1" = 500'



DETAIL VIEW C
SCALE: 1" = 400'

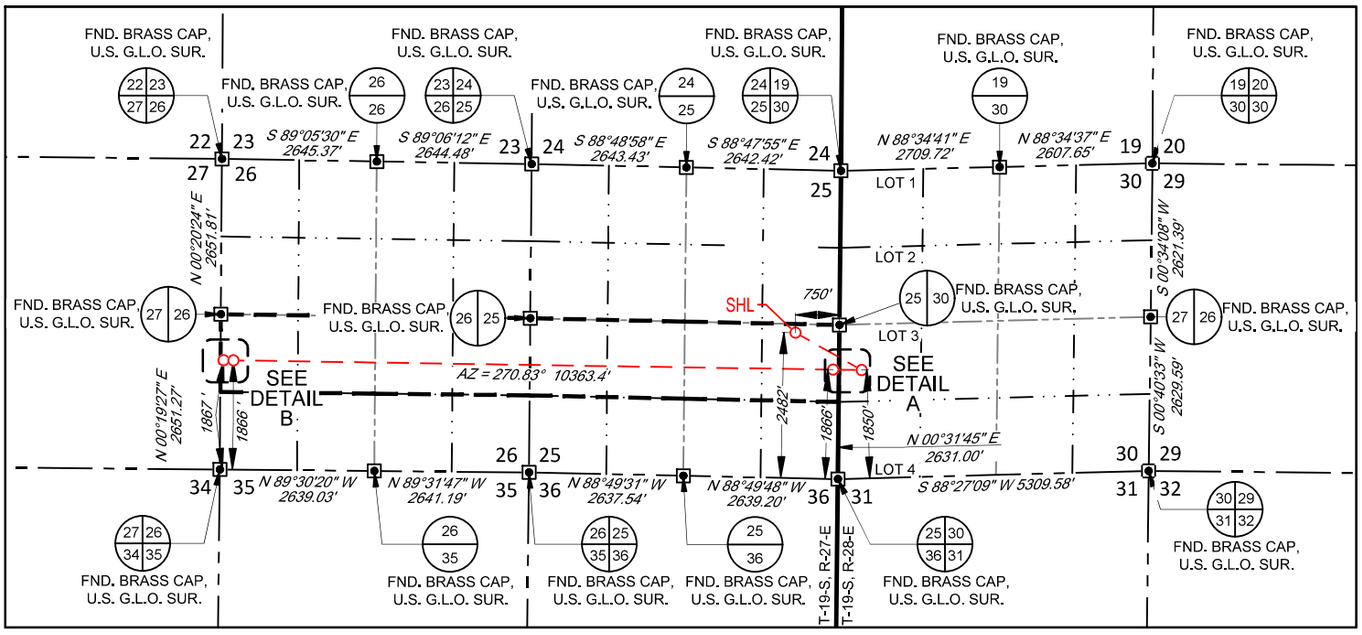
SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=574277 Y=593224
LAT.: N 32.6307766
LONG.: W 104.2263341
2482' FSL 750' FEL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=575409 Y=592588
LAT.: N 32.6290242
LONG.: W 104.2226604
1850' FSL 387' FWL

FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=574921 Y=592595
LAT.: N 32.6290449
LONG.: W 104.2242436
1866' FSL 100' FEL

LAST TAKE POINT (LTP)
NEW MEXICO EAST
NAD 1983
X=564559 Y=592744
LAT.: N 32.6294809
LONG.: W 104.2579033
1866' FSL 100' FWL

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=564509 Y=592745
LAT.: N 32.6294830
LONG.: W 104.2580657
1867' FSL 50' FWL



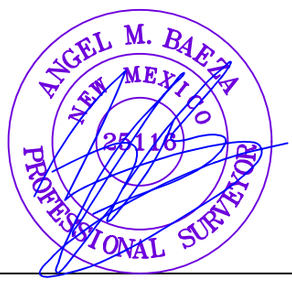
LEASE NAME & WELL NO.: CAMACHO 25 26 STATE COM 203H

SECTION 25 TWP 19-S RGE 27-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 2482' FSL & 750' FEL

DISTANCE & DIRECTION
FROM INT. OF NETHERLIN RD/ CR-236, & ILLINOIS CAMP RD/ CR-206, GO SOUTH ON ILLINOIS CAMP RD/ CR-206 ±2.4 MILES, THENCE WEST (RIGHT) ON EDDY COMP ±0.2 MILES, THENCE NORTH (RIGHT) ON A LEASE RD ±488 FEET, THENCE EAST (RIGHT) ON A LEASE RD. ±196 FEET TO A POINT ±295 FEET SOUTHWEST OF THE LOCATION.

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.



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

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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WWW.TOPOGRAPHIC.COM

S:\SURVEY\APACHE_CORPORATION\CAMACHO_25-26_STATE_COM_REVISED_C-102S_SSE_EXHIBITS\FINAL_PRODUCTS\LO_CAMACHO_25 26_STATE_COM_203H.DWG 4/24/2024 12:21:19 PM joey.duncan

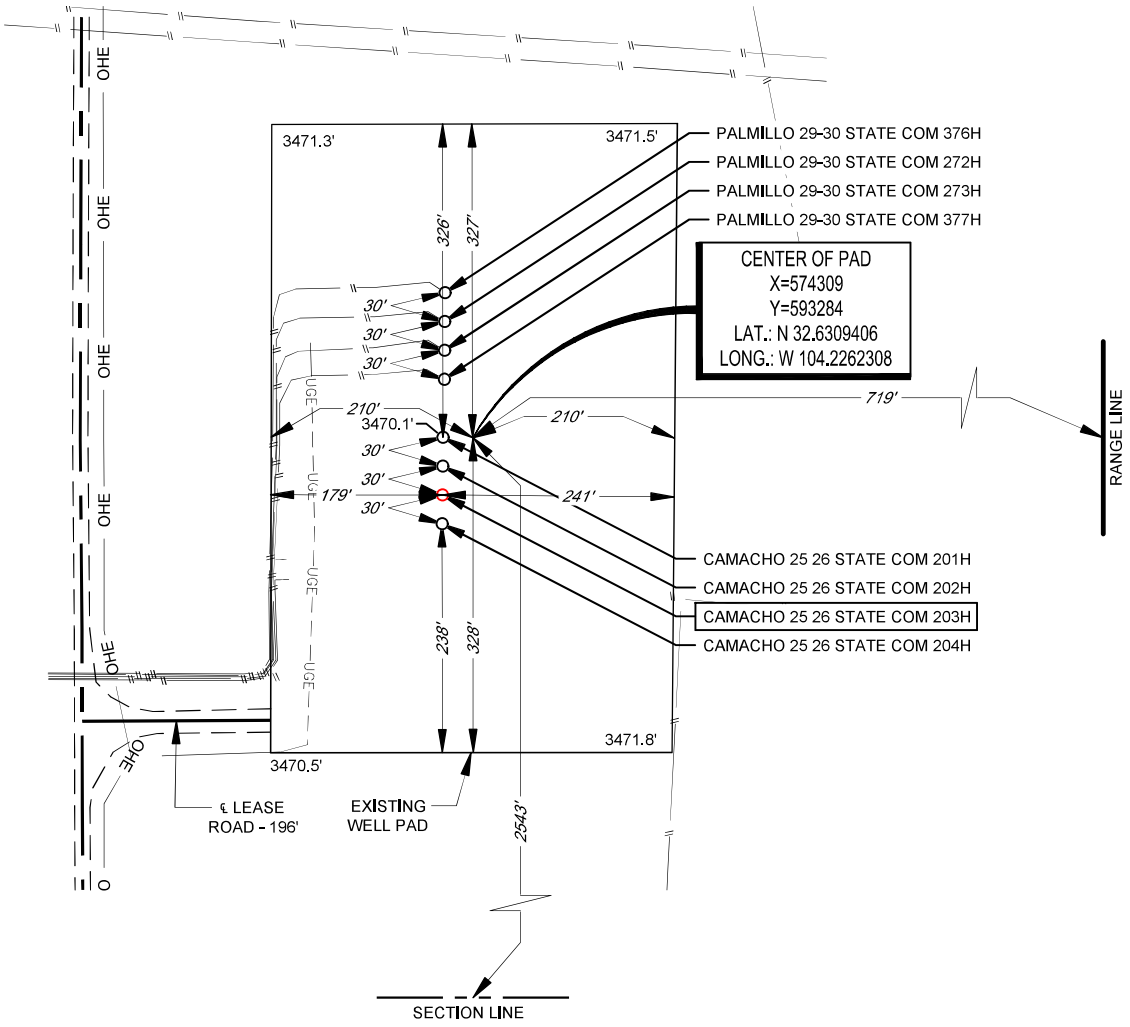
EXHIBIT 2B

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

DETAIL VIEW
SCALE: 1" = 200'

LEGEND

- TOWNSHIP/RANGE LINE
- SECTION LINE
- OHE — OVERHEAD ELECTRIC
- UGE — UNDERGROUND ELECTRIC
- LEASE ROAD CENTERLINE
- ROAD WAY



LEASE NAME & WELL NO.: CAMACHO 25 26 STATE COM 203H

203H LATITUDE N 32.6308591 203H LONGITUDE W 104.2263331

CENTER OF PAD IS 2543' FSL & 719' FEL

ANGEL M. BAEZA
NEW MEXICO
25116
PROFESSIONAL SURVEYOR

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. 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"

N

SCALE: 1" = 200'

0' 100' 200'

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY
481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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WWW.TOPOGRAPHIC.COM

S:\SURVEY\APACHE CORPORATION\CAMACHO_25-26_STATE_COM_REVISED_C-102S_SSE_EXHIBITS\FINAL_PRODUCTS\LO_CAMACHO_25 26_STATE_COM_203H.DWG 4/24/2024 12:21:19 PM joey.duncan

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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

Form APD Conditions

Permit 362781

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
APACHE CORPORATION [873] 303 Veterans Airpark Ln Midland, TX 79705	30-015-55001
	Well: CAMACHO 25 26 STATE COM #203H

OCD Reviewer	Condition
ward.rikala	Notify OCD 24 hours prior to casing & cement
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
ward.rikala	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

Apache Corporation

Eddy Co, NM (NAD83 NM E)
Camacho 25 26 (Middle)
Camacho 25-26 State Com 203H

OH

Plan: Plan #1

Standard Planning Report

01 March, 2024

Plan #1

Project: Eddy Co, NM (NAD83 NM E)
Site: Camacho 25 26 (Middle)
Well: Camacho 25-26 State Com 203H
Wellbore: OH
Design: Plan #1
Lat: 32.630779
Long: -104.226332
GL: 3470.00
KB: RKB=30ft @ 3500.00usft

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
C203_LTP	6874.00	-479.77	-9715.76	592745.13	564561.74	Point
C203_FTP	7047.00	-629.43	646.18	592595.47	574923.68	Point

WELL DETAILS: Camacho 25-26 State Com 203H

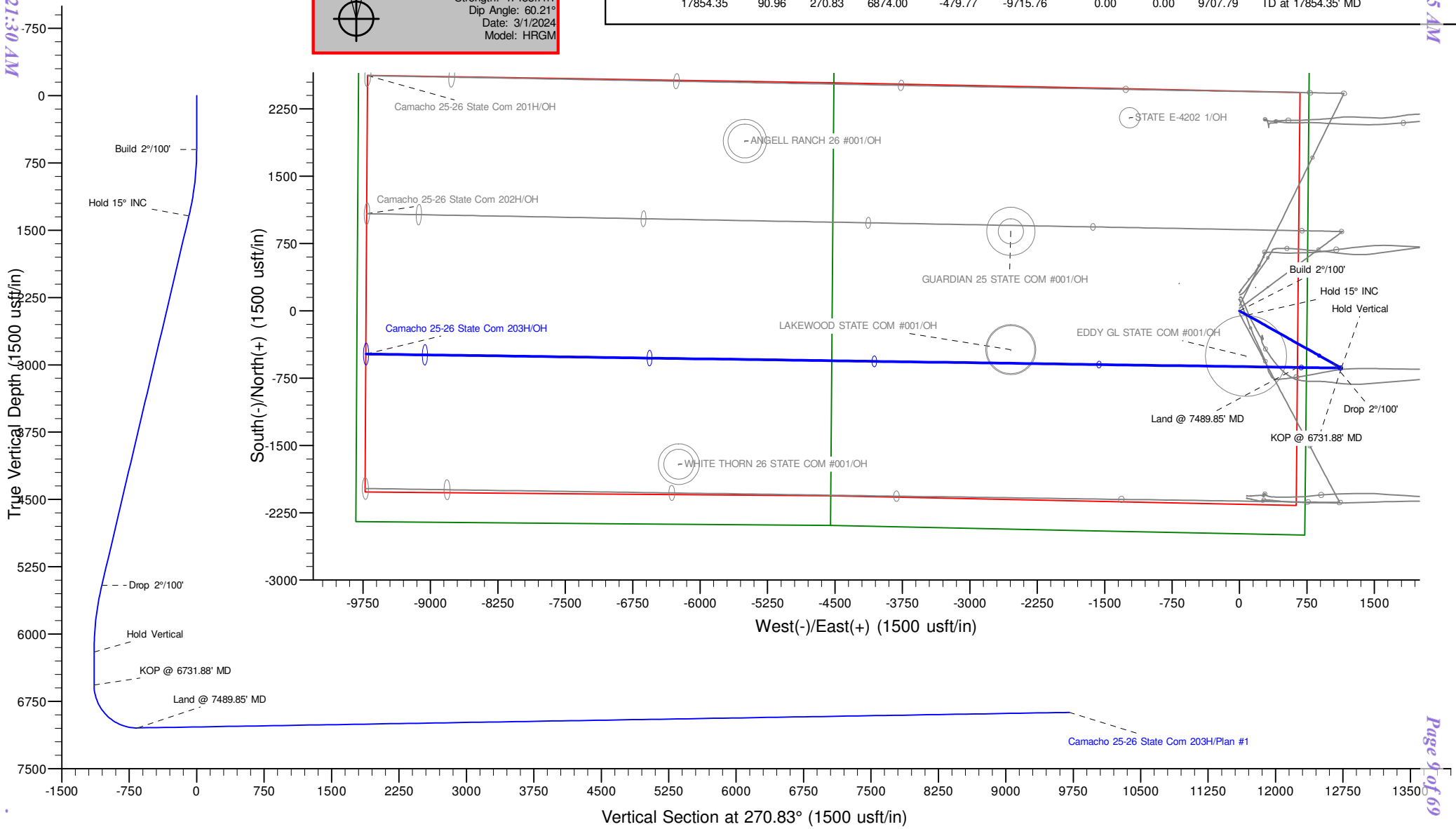
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	593224.90	574277.50	32.630779	-104.226332

Azimuths to Grid North
True North: -0.06°
Magnetic North: 6.72°

Magnetic Field
Strength: 47433.7nT
Dip Angle: 60.21°
Date: 3/1/2024
Model: HRGM

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°/100'
1349.92	15.00	119.35	1341.38	-47.84	85.07	2.00	119.35	-85.75	Hold 15° INC
5612.36	15.00	119.35	5458.62	-588.56	1046.53	0.00	0.00	-1054.95	Drop 2°/100'
6362.28	0.00	0.00	6200.00	-636.40	1131.60	2.00	180.00	-1140.70	Hold Vertical
6731.88	0.00	0.00	6569.60	-636.40	1131.60	0.00	0.00	-1140.70	KOP @ 6731.88' MD
7489.85	90.96	270.83	7047.00	-629.39	646.22	12.00	270.83	-655.27	Land @ 7489.85' MD
17854.35	90.96	270.83	6874.00	-479.77	-9715.76	0.00	0.00	9707.79	TD at 17854.35' MD



Planning Report

Database:	Fhartmann	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Company:	Apache Corporation	**TVD Reference:**	RKB=30ft @ 3500.00usft
Project:	Eddy Co, NM (NAD83 NM E)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site:	Camacho 25 26 (Middle)	**North Reference:**	Grid
Well:	Camacho 25-26 State Com 203H	**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 (Middle), 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 203H

Well Position	**+N/-S**	0.00 usft	**Northing:**	593,224.90 usft	**Latitude:**	32.630779
	+E/-W	0.00 usft	**Easting:**	574,277.50 usft	**Longitude:**	-104.226332
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,470.00 usft
Grid Convergence:		0.06 °				

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HRGM	3/1/2024	6.78	60.21	47,433.65014361

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	270.83

Plan Survey Tool Program **Date** 3/1/2024

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	17,853.93	Plan #1 (OH)	SuperiorQC MWD+IFR1+SAG	
				OWSG MWD + IFR1 + Sag + F	

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	
1,349.92	15.00	119.35	1,341.38	-47.84	85.07	2.00	2.00	0.00	119.35	
5,612.36	15.00	119.35	5,458.62	-588.56	1,046.53	0.00	0.00	0.00	0.00	
6,362.28	0.00	0.00	6,200.00	-636.40	1,131.60	2.00	-2.00	0.00	180.00	
6,731.88	0.00	0.00	6,569.60	-636.40	1,131.60	0.00	0.00	0.00	0.00	
7,489.85	90.96	270.83	7,047.00	-629.39	646.22	12.00	12.00	-11.76	270.83	
17,854.35	90.96	270.83	6,874.00	-479.77	-9,715.76	0.00	0.00	0.00	0.00	

Planning Report

Database:	Fhartmann	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Company:	Apache Corporation	**TVD Reference:**	RKB=30ft @ 3500.00usft
Project:	Eddy Co, NM (NAD83 NM E)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site:	Camacho 25 26 (Middle)	**North Reference:**	Grid
Well:	Camacho 25-26 State Com 203H	**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°/100'									
700.00	2.00	119.35	699.98	-0.86	1.52	-1.53	2.00	2.00	0.00
800.00	4.00	119.35	799.84	-3.42	6.08	-6.13	2.00	2.00	0.00
900.00	6.00	119.35	899.45	-7.69	13.68	-13.79	2.00	2.00	0.00
1,000.00	8.00	119.35	998.70	-13.67	24.30	-24.50	2.00	2.00	0.00
1,100.00	10.00	119.35	1,097.47	-21.33	37.94	-38.24	2.00	2.00	0.00
1,200.00	12.00	119.35	1,195.62	-30.69	54.57	-55.00	2.00	2.00	0.00
1,300.00	14.00	119.35	1,293.06	-41.71	74.17	-74.77	2.00	2.00	0.00
1,349.92	15.00	119.35	1,341.38	-47.84	85.07	-85.75	2.00	2.00	0.00
Hold 15° INC									
1,400.00	15.00	119.35	1,389.76	-54.19	96.36	-97.14	0.00	0.00	0.00
1,500.00	15.00	119.35	1,486.35	-66.88	118.92	-119.87	0.00	0.00	0.00
1,600.00	15.00	119.35	1,582.95	-79.56	141.48	-142.61	0.00	0.00	0.00
1,700.00	15.00	119.35	1,679.54	-92.25	164.03	-165.35	0.00	0.00	0.00
1,800.00	15.00	119.35	1,776.13	-104.94	186.59	-188.09	0.00	0.00	0.00
1,900.00	15.00	119.35	1,872.73	-117.62	209.15	-210.83	0.00	0.00	0.00
2,000.00	15.00	119.35	1,969.32	-130.31	231.70	-233.57	0.00	0.00	0.00
2,100.00	15.00	119.35	2,065.91	-142.99	254.26	-256.30	0.00	0.00	0.00
2,200.00	15.00	119.35	2,162.50	-155.68	276.82	-279.04	0.00	0.00	0.00
2,300.00	15.00	119.35	2,259.10	-168.36	299.37	-301.78	0.00	0.00	0.00
2,400.00	15.00	119.35	2,355.69	-181.05	321.93	-324.52	0.00	0.00	0.00
2,500.00	15.00	119.35	2,452.28	-193.74	344.49	-347.26	0.00	0.00	0.00
2,600.00	15.00	119.35	2,548.88	-206.42	367.04	-369.99	0.00	0.00	0.00
2,700.00	15.00	119.35	2,645.47	-219.11	389.60	-392.73	0.00	0.00	0.00
2,800.00	15.00	119.35	2,742.06	-231.79	412.16	-415.47	0.00	0.00	0.00
2,900.00	15.00	119.35	2,838.66	-244.48	434.71	-438.21	0.00	0.00	0.00
3,000.00	15.00	119.35	2,935.25	-257.16	457.27	-460.95	0.00	0.00	0.00
3,100.00	15.00	119.35	3,031.84	-269.85	479.83	-483.69	0.00	0.00	0.00
3,200.00	15.00	119.35	3,128.44	-282.54	502.38	-506.42	0.00	0.00	0.00
3,300.00	15.00	119.35	3,225.03	-295.22	524.94	-529.16	0.00	0.00	0.00
3,400.00	15.00	119.35	3,321.62	-307.91	547.50	-551.90	0.00	0.00	0.00
3,500.00	15.00	119.35	3,418.22	-320.59	570.05	-574.64	0.00	0.00	0.00
3,600.00	15.00	119.35	3,514.81	-333.28	592.61	-597.38	0.00	0.00	0.00
3,700.00	15.00	119.35	3,611.40	-345.96	615.17	-620.11	0.00	0.00	0.00
3,800.00	15.00	119.35	3,708.00	-358.65	637.72	-642.85	0.00	0.00	0.00
3,900.00	15.00	119.35	3,804.59	-371.34	660.28	-665.59	0.00	0.00	0.00
4,000.00	15.00	119.35	3,901.18	-384.02	682.84	-688.33	0.00	0.00	0.00
4,100.00	15.00	119.35	3,997.78	-396.71	705.40	-711.07	0.00	0.00	0.00
4,200.00	15.00	119.35	4,094.37	-409.39	727.95	-733.81	0.00	0.00	0.00
4,300.00	15.00	119.35	4,190.96	-422.08	750.51	-756.54	0.00	0.00	0.00
4,400.00	15.00	119.35	4,287.56	-434.76	773.07	-779.28	0.00	0.00	0.00
4,500.00	15.00	119.35	4,384.15	-447.45	795.62	-802.02	0.00	0.00	0.00
4,600.00	15.00	119.35	4,480.74	-460.14	818.18	-824.76	0.00	0.00	0.00
4,700.00	15.00	119.35	4,577.34	-472.82	840.74	-847.50	0.00	0.00	0.00
4,800.00	15.00	119.35	4,673.93	-485.51	863.29	-870.23	0.00	0.00	0.00
4,900.00	15.00	119.35	4,770.52	-498.19	885.85	-892.97	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Company:	Apache Corporation	**TVD Reference:**	RKB=30ft @ 3500.00usft
Project:	Eddy Co, NM (NAD83 NM E)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site:	Camacho 25 26 (Middle)	**North Reference:**	Grid
Well:	Camacho 25-26 State Com 203H	**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)
5,000.00	15.00	119.35	4,867.12	-510.88	908.41	-915.71	0.00	0.00	0.00
5,100.00	15.00	119.35	4,963.71	-523.56	930.96	-938.45	0.00	0.00	0.00
5,200.00	15.00	119.35	5,060.30	-536.25	953.52	-961.19	0.00	0.00	0.00
5,300.00	15.00	119.35	5,156.90	-548.94	976.08	-983.93	0.00	0.00	0.00
5,400.00	15.00	119.35	5,253.49	-561.62	998.63	-1,006.66	0.00	0.00	0.00
5,500.00	15.00	119.35	5,350.08	-574.31	1,021.19	-1,029.40	0.00	0.00	0.00
5,600.00	15.00	119.35	5,446.68	-586.99	1,043.75	-1,052.14	0.00	0.00	0.00
5,612.36	15.00	119.35	5,458.62	-588.56	1,046.53	-1,054.95	0.00	0.00	0.00
Drop 2°/100'									
5,700.00	13.25	119.35	5,543.60	-599.04	1,065.17	-1,073.74	2.00	-2.00	0.00
5,800.00	11.25	119.35	5,641.32	-609.44	1,083.66	-1,092.37	2.00	-2.00	0.00
5,900.00	9.25	119.35	5,739.72	-618.16	1,099.16	-1,108.00	2.00	-2.00	0.00
6,000.00	7.25	119.35	5,838.69	-625.19	1,111.66	-1,120.60	2.00	-2.00	0.00
6,100.00	5.25	119.35	5,938.09	-630.52	1,121.14	-1,130.16	2.00	-2.00	0.00
6,200.00	3.25	119.35	6,037.81	-634.15	1,127.59	-1,136.66	2.00	-2.00	0.00
6,300.00	1.25	119.35	6,137.73	-636.07	1,131.01	-1,140.11	2.00	-2.00	0.00
6,362.28	0.00	0.00	6,200.00	-636.40	1,131.60	-1,140.70	2.00	-2.00	0.00
Hold Vertical									
6,400.00	0.00	0.00	6,237.72	-636.40	1,131.60	-1,140.70	0.00	0.00	0.00
6,500.00	0.00	0.00	6,337.72	-636.40	1,131.60	-1,140.70	0.00	0.00	0.00
6,600.00	0.00	0.00	6,437.72	-636.40	1,131.60	-1,140.70	0.00	0.00	0.00
6,700.00	0.00	0.00	6,537.72	-636.40	1,131.60	-1,140.70	0.00	0.00	0.00
6,731.88	0.00	0.00	6,569.60	-636.40	1,131.60	-1,140.70	0.00	0.00	0.00
KOP @ 6731.88' MD									
6,750.00	2.17	270.83	6,587.72	-636.40	1,131.26	-1,140.36	12.00	12.00	0.00
6,775.00	5.17	270.83	6,612.66	-636.37	1,129.65	-1,138.75	12.00	12.00	0.00
6,800.00	8.17	270.83	6,637.49	-636.33	1,126.75	-1,135.85	12.00	12.00	0.00
6,825.00	11.17	270.83	6,662.13	-636.27	1,122.55	-1,131.65	12.00	12.00	0.00
6,850.00	14.17	270.83	6,686.52	-636.19	1,117.06	-1,126.16	12.00	12.00	0.00
6,875.00	17.17	270.83	6,710.59	-636.09	1,110.31	-1,119.41	12.00	12.00	0.00
6,900.00	20.17	270.83	6,734.27	-635.98	1,102.31	-1,111.41	12.00	12.00	0.00
6,925.00	23.17	270.83	6,757.50	-635.84	1,093.08	-1,102.17	12.00	12.00	0.00
6,950.00	26.17	270.83	6,780.21	-635.69	1,082.64	-1,091.74	12.00	12.00	0.00
6,975.00	29.17	270.83	6,802.35	-635.53	1,071.03	-1,080.13	12.00	12.00	0.00
7,000.00	32.17	270.83	6,823.85	-635.34	1,058.28	-1,067.38	12.00	12.00	0.00
7,025.00	35.17	270.83	6,844.65	-635.14	1,044.42	-1,053.52	12.00	12.00	0.00
7,050.00	38.17	270.83	6,864.70	-634.93	1,029.50	-1,038.59	12.00	12.00	0.00
7,075.00	41.17	270.83	6,883.94	-634.70	1,013.54	-1,022.63	12.00	12.00	0.00
7,100.00	44.17	270.83	6,902.32	-634.45	996.60	-1,005.68	12.00	12.00	0.00
7,125.00	47.17	270.83	6,919.79	-634.19	978.72	-987.80	12.00	12.00	0.00
7,150.00	50.17	270.83	6,936.29	-633.92	959.95	-969.03	12.00	12.00	0.00
7,175.00	53.17	270.83	6,951.79	-633.64	940.34	-949.42	12.00	12.00	0.00
7,200.00	56.17	270.83	6,966.25	-633.34	919.95	-929.02	12.00	12.00	0.00
7,225.00	59.17	270.83	6,979.61	-633.04	898.82	-907.90	12.00	12.00	0.00
7,250.00	62.17	270.83	6,991.86	-632.72	877.03	-886.11	12.00	12.00	0.00
7,275.00	65.17	270.83	7,002.94	-632.40	854.63	-863.70	12.00	12.00	0.00
7,300.00	68.17	270.83	7,012.84	-632.07	831.68	-840.75	12.00	12.00	0.00
7,325.00	71.17	270.83	7,021.52	-631.73	808.24	-817.31	12.00	12.00	0.00
7,350.00	74.17	270.83	7,028.97	-631.39	784.38	-793.44	12.00	12.00	0.00
7,375.00	77.17	270.83	7,035.15	-631.04	760.16	-769.22	12.00	12.00	0.00
7,400.00	80.17	270.83	7,040.06	-630.68	735.65	-744.71	12.00	12.00	0.00
7,425.00	83.17	270.83	7,043.68	-630.33	710.92	-719.98	12.00	12.00	0.00
7,450.00	86.17	270.83	7,046.00	-629.97	686.04	-695.09	12.00	12.00	0.00

Planning Report

Database:	Fhartmann	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Company:	Apache Corporation	**TVD Reference:**	RKB=30ft @ 3500.00usft
Project:	Eddy Co, NM (NAD83 NM E)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site:	Camacho 25 26 (Middle)	**North Reference:**	Grid
Well:	Camacho 25-26 State Com 203H	**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)
7,475.00	89.17	270.83	7,047.01	-629.61	661.06	-670.11	12.00	12.00	0.00
7,489.85	90.96	270.83	7,047.00	-629.39	646.22	-655.27	12.00	12.00	0.00
Land @ 7489.85' MD									
7,500.00	90.96	270.83	7,046.83	-629.24	636.07	-645.12	0.00	0.00	0.00
7,600.00	90.96	270.83	7,045.16	-627.80	536.09	-545.13	0.00	0.00	0.00
7,700.00	90.96	270.83	7,043.49	-626.36	436.12	-445.14	0.00	0.00	0.00
7,800.00	90.96	270.83	7,041.82	-624.91	336.14	-345.16	0.00	0.00	0.00
7,900.00	90.96	270.83	7,040.15	-623.47	236.17	-245.17	0.00	0.00	0.00
8,000.00	90.96	270.83	7,038.48	-622.03	136.19	-145.19	0.00	0.00	0.00
8,100.00	90.96	270.83	7,036.81	-620.58	36.21	-45.20	0.00	0.00	0.00
8,200.00	90.96	270.83	7,035.14	-619.14	-63.76	54.79	0.00	0.00	0.00
8,300.00	90.96	270.83	7,033.48	-617.70	-163.74	154.77	0.00	0.00	0.00
8,400.00	90.96	270.83	7,031.81	-616.25	-263.71	254.76	0.00	0.00	0.00
8,500.00	90.96	270.83	7,030.14	-614.81	-363.69	354.74	0.00	0.00	0.00
8,600.00	90.96	270.83	7,028.47	-613.37	-463.66	454.73	0.00	0.00	0.00
8,700.00	90.96	270.83	7,026.80	-611.92	-563.64	554.72	0.00	0.00	0.00
8,800.00	90.96	270.83	7,025.13	-610.48	-663.62	654.70	0.00	0.00	0.00
8,900.00	90.96	270.83	7,023.46	-609.04	-763.59	754.69	0.00	0.00	0.00
9,000.00	90.96	270.83	7,021.79	-607.59	-863.57	854.68	0.00	0.00	0.00
9,100.00	90.96	270.83	7,020.12	-606.15	-963.54	954.66	0.00	0.00	0.00
9,200.00	90.96	270.83	7,018.45	-604.70	-1,063.52	1,054.65	0.00	0.00	0.00
9,300.00	90.96	270.83	7,016.78	-603.26	-1,163.49	1,154.63	0.00	0.00	0.00
9,400.00	90.96	270.83	7,015.11	-601.82	-1,263.47	1,254.62	0.00	0.00	0.00
9,500.00	90.96	270.83	7,013.45	-600.37	-1,363.45	1,354.61	0.00	0.00	0.00
9,600.00	90.96	270.83	7,011.78	-598.93	-1,463.42	1,454.59	0.00	0.00	0.00
9,700.00	90.96	270.83	7,010.11	-597.49	-1,563.40	1,554.58	0.00	0.00	0.00
9,800.00	90.96	270.83	7,008.44	-596.04	-1,663.37	1,654.56	0.00	0.00	0.00
9,900.00	90.96	270.83	7,006.77	-594.60	-1,763.35	1,754.55	0.00	0.00	0.00
10,000.00	90.96	270.83	7,005.10	-593.16	-1,863.32	1,854.54	0.00	0.00	0.00
10,100.00	90.96	270.83	7,003.43	-591.71	-1,963.30	1,954.52	0.00	0.00	0.00
10,200.00	90.96	270.83	7,001.76	-590.27	-2,063.27	2,054.51	0.00	0.00	0.00
10,300.00	90.96	270.83	7,000.09	-588.83	-2,163.25	2,154.49	0.00	0.00	0.00
10,400.00	90.96	270.83	6,998.42	-587.38	-2,263.23	2,254.48	0.00	0.00	0.00
10,500.00	90.96	270.83	6,996.75	-585.94	-2,363.20	2,354.47	0.00	0.00	0.00
10,600.00	90.96	270.83	6,995.08	-584.49	-2,463.18	2,454.45	0.00	0.00	0.00
10,700.00	90.96	270.83	6,993.42	-583.05	-2,563.15	2,554.44	0.00	0.00	0.00
10,800.00	90.96	270.83	6,991.75	-581.61	-2,663.13	2,654.42	0.00	0.00	0.00
10,900.00	90.96	270.83	6,990.08	-580.16	-2,763.10	2,754.41	0.00	0.00	0.00
11,000.00	90.96	270.83	6,988.41	-578.72	-2,863.08	2,854.40	0.00	0.00	0.00
11,100.00	90.96	270.83	6,986.74	-577.28	-2,963.06	2,954.38	0.00	0.00	0.00
11,200.00	90.96	270.83	6,985.07	-575.83	-3,063.03	3,054.37	0.00	0.00	0.00
11,300.00	90.96	270.83	6,983.40	-574.39	-3,163.01	3,154.35	0.00	0.00	0.00
11,400.00	90.96	270.83	6,981.73	-572.95	-3,262.98	3,254.34	0.00	0.00	0.00
11,500.00	90.96	270.83	6,980.06	-571.50	-3,362.96	3,354.33	0.00	0.00	0.00
11,600.00	90.96	270.83	6,978.39	-570.06	-3,462.93	3,454.31	0.00	0.00	0.00
11,700.00	90.96	270.83	6,976.72	-568.62	-3,562.91	3,554.30	0.00	0.00	0.00
11,800.00	90.96	270.83	6,975.06	-567.17	-3,662.89	3,654.29	0.00	0.00	0.00
11,900.00	90.96	270.83	6,973.39	-565.73	-3,762.86	3,754.27	0.00	0.00	0.00
12,000.00	90.96	270.83	6,971.72	-564.28	-3,862.84	3,854.26	0.00	0.00	0.00
12,100.00	90.96	270.83	6,970.05	-562.84	-3,962.81	3,954.24	0.00	0.00	0.00
12,200.00	90.96	270.83	6,968.38	-561.40	-4,062.79	4,054.23	0.00	0.00	0.00
12,300.00	90.96	270.83	6,966.71	-559.95	-4,162.76	4,154.22	0.00	0.00	0.00
12,400.00	90.96	270.83	6,965.04	-558.51	-4,262.74	4,254.20	0.00	0.00	0.00
12,500.00	90.96	270.83	6,963.37	-557.07	-4,362.71	4,354.19	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Company:	Apache Corporation	**TVD Reference:**	RKB=30ft @ 3500.00usft
Project:	Eddy Co, NM (NAD83 NM E)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site:	Camacho 25 26 (Middle)	**North Reference:**	Grid
Well:	Camacho 25-26 State Com 203H	**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)
12,600.00	90.96	270.83	6,961.70	-555.62	-4,462.69	4,454.17	0.00	0.00	0.00
12,700.00	90.96	270.83	6,960.03	-554.18	-4,562.67	4,554.16	0.00	0.00	0.00
12,800.00	90.96	270.83	6,958.36	-552.74	-4,662.64	4,654.15	0.00	0.00	0.00
12,900.00	90.96	270.83	6,956.69	-551.29	-4,762.62	4,754.13	0.00	0.00	0.00
13,000.00	90.96	270.83	6,955.03	-549.85	-4,862.59	4,854.12	0.00	0.00	0.00
13,100.00	90.96	270.83	6,953.36	-548.41	-4,962.57	4,954.10	0.00	0.00	0.00
13,200.00	90.96	270.83	6,951.69	-546.96	-5,062.54	5,054.09	0.00	0.00	0.00
13,300.00	90.96	270.83	6,950.02	-545.52	-5,162.52	5,154.08	0.00	0.00	0.00
13,400.00	90.96	270.83	6,948.35	-544.07	-5,262.50	5,254.06	0.00	0.00	0.00
13,500.00	90.96	270.83	6,946.68	-542.63	-5,362.47	5,354.05	0.00	0.00	0.00
13,600.00	90.96	270.83	6,945.01	-541.19	-5,462.45	5,454.03	0.00	0.00	0.00
13,700.00	90.96	270.83	6,943.34	-539.74	-5,562.42	5,554.02	0.00	0.00	0.00
13,800.00	90.96	270.83	6,941.67	-538.30	-5,662.40	5,654.01	0.00	0.00	0.00
13,900.00	90.96	270.83	6,940.00	-536.86	-5,762.37	5,753.99	0.00	0.00	0.00
14,000.00	90.96	270.83	6,938.33	-535.41	-5,862.35	5,853.98	0.00	0.00	0.00
14,100.00	90.96	270.83	6,936.67	-533.97	-5,962.33	5,953.96	0.00	0.00	0.00
14,200.00	90.96	270.83	6,935.00	-532.53	-6,062.30	6,053.95	0.00	0.00	0.00
14,300.00	90.96	270.83	6,933.33	-531.08	-6,162.28	6,153.94	0.00	0.00	0.00
14,400.00	90.96	270.83	6,931.66	-529.64	-6,262.25	6,253.92	0.00	0.00	0.00
14,500.00	90.96	270.83	6,929.99	-528.20	-6,362.23	6,353.91	0.00	0.00	0.00
14,600.00	90.96	270.83	6,928.32	-526.75	-6,462.20	6,453.90	0.00	0.00	0.00
14,700.00	90.96	270.83	6,926.65	-525.31	-6,562.18	6,553.88	0.00	0.00	0.00
14,800.00	90.96	270.83	6,924.98	-523.87	-6,662.15	6,653.87	0.00	0.00	0.00
14,900.00	90.96	270.83	6,923.31	-522.42	-6,762.13	6,753.85	0.00	0.00	0.00
15,000.00	90.96	270.83	6,921.64	-520.98	-6,862.11	6,853.84	0.00	0.00	0.00
15,100.00	90.96	270.83	6,919.97	-519.53	-6,962.08	6,953.83	0.00	0.00	0.00
15,200.00	90.96	270.83	6,918.30	-518.09	-7,062.06	7,053.81	0.00	0.00	0.00
15,300.00	90.96	270.83	6,916.64	-516.65	-7,162.03	7,153.80	0.00	0.00	0.00
15,400.00	90.96	270.83	6,914.97	-515.20	-7,262.01	7,253.78	0.00	0.00	0.00
15,500.00	90.96	270.83	6,913.30	-513.76	-7,361.98	7,353.77	0.00	0.00	0.00
15,600.00	90.96	270.83	6,911.63	-512.32	-7,461.96	7,453.76	0.00	0.00	0.00
15,700.00	90.96	270.83	6,909.96	-510.87	-7,561.94	7,553.74	0.00	0.00	0.00
15,800.00	90.96	270.83	6,908.29	-509.43	-7,661.91	7,653.73	0.00	0.00	0.00
15,900.00	90.96	270.83	6,906.62	-507.99	-7,761.89	7,753.71	0.00	0.00	0.00
16,000.00	90.96	270.83	6,904.95	-506.54	-7,861.86	7,853.70	0.00	0.00	0.00
16,100.00	90.96	270.83	6,903.28	-505.10	-7,961.84	7,953.69	0.00	0.00	0.00
16,200.00	90.96	270.83	6,901.61	-503.66	-8,061.81	8,053.67	0.00	0.00	0.00
16,300.00	90.96	270.83	6,899.94	-502.21	-8,161.79	8,153.66	0.00	0.00	0.00
16,400.00	90.96	270.83	6,898.28	-500.77	-8,261.77	8,253.64	0.00	0.00	0.00
16,500.00	90.96	270.83	6,896.61	-499.32	-8,361.74	8,353.63	0.00	0.00	0.00
16,600.00	90.96	270.83	6,894.94	-497.88	-8,461.72	8,453.62	0.00	0.00	0.00
16,700.00	90.96	270.83	6,893.27	-496.44	-8,561.69	8,553.60	0.00	0.00	0.00
16,800.00	90.96	270.83	6,891.60	-494.99	-8,661.67	8,653.59	0.00	0.00	0.00
16,900.00	90.96	270.83	6,889.93	-493.55	-8,761.64	8,753.57	0.00	0.00	0.00
17,000.00	90.96	270.83	6,888.26	-492.11	-8,861.62	8,853.56	0.00	0.00	0.00
17,100.00	90.96	270.83	6,886.59	-490.66	-8,961.59	8,953.55	0.00	0.00	0.00
17,200.00	90.96	270.83	6,884.92	-489.22	-9,061.57	9,053.53	0.00	0.00	0.00
17,300.00	90.96	270.83	6,883.25	-487.78	-9,161.55	9,153.52	0.00	0.00	0.00
17,400.00	90.96	270.83	6,881.58	-486.33	-9,261.52	9,253.51	0.00	0.00	0.00
17,500.00	90.96	270.83	6,879.91	-484.89	-9,361.50	9,353.49	0.00	0.00	0.00
17,600.00	90.96	270.83	6,878.25	-483.45	-9,461.47	9,453.48	0.00	0.00	0.00
17,700.00	90.96	270.83	6,876.58	-482.00	-9,561.45	9,553.46	0.00	0.00	0.00
17,800.00	90.96	270.83	6,874.91	-480.56	-9,661.42	9,653.45	0.00	0.00	0.00
17,854.35	90.96	270.83	6,874.00	-479.77	-9,715.76	9,707.79	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Company:	Apache Corporation	**TVD Reference:**	RKB=30ft @ 3500.00usft
Project:	Eddy Co, NM (NAD83 NM E)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site:	Camacho 25 26 (Middle)	**North Reference:**	Grid
Well:	Camacho 25-26 State Com 203H	**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)
TD at 17854.35' MD									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
C203_LTP - plan hits target center - Point	0.00	0.00	6,874.00	-479.77	-9,715.76	592,745.13	564,561.74	32.629483	-104.257894
C203_FTP - plan misses target center by 0.04usft at 7489.88usft MD (7047.00 TVD, -629.39 N, 646.18 E) - Point	0.00	0.00	7,047.00	-629.43	646.18	592,595.47	574,923.68	32.629047	-104.224236

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
600.00	600.00	0.00	0.00	Build 2°/100'
1,349.92	1,341.38	-47.84	85.07	Hold 15° INC
5,612.36	5,458.62	-588.56	1,046.53	Drop 2°/100'
6,362.28	6,200.00	-636.40	1,131.60	Hold Vertical
6,731.88	6,569.60	-636.40	1,131.60	KOP @ 6731.88' MD
7,489.85	7,047.00	-629.39	646.22	Land @ 7489.85' MD
17,854.35	6,874.00	-479.77	-9,715.76	TD at 17854.35' MD

Apache Corporation

Eddy Co, NM (NAD83 NM E)
Camacho 25 26 (Middle)
Camacho 25-26 State Com 203H

OH
Plan #1

Anticollision Report

01 March, 2024

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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:	Unlimited	**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** 3/1/2024

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	17,853.93	Plan #1 (OH)	SuperiorQC MWD+IFR1+SA	OWSG MWD + IFR1 + Sag + FDIR Correction

Summary

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Camacho 25 26 (Middle)						
Camacho 25-26 State Com 201H - OH - Plan #1	600.00	600.00	60.00	55.92	14.683	CC, ES
Camacho 25-26 State Com 201H - OH - Plan #1	800.00	794.73	71.07	65.60	13.003	SF
Camacho 25-26 State Com 202H - OH - Plan #1	600.00	600.00	30.10	26.01	7.366	CC, ES
Camacho 25-26 State Com 202H - OH - Plan #1	17,854.35	17,858.45	1,563.32	1,319.96	6.424	SF
Camacho 25-26 State Com 204H - OH - Plan #1	600.00	600.00	29.90	25.81	7.317	CC, ES
Camacho 25-26 State Com 204H - OH - Plan #1	17,854.35	18,209.14	1,501.74	1,258.87	6.183	SF
Camacho 25 26 Offsets						
ANGELL RANCH 26 #001 - OH - OH	13,673.60	7,042.24	2,434.55	2,205.51	10.629	CC
ANGELL RANCH 26 #001 - OH - OH	13,700.00	7,041.51	2,434.70	2,205.40	10.618	ES
ANGELL RANCH 26 #001 - OH - OH	13,900.00	7,036.03	2,445.05	2,214.17	10.590	SF
EDDY GL STATE COM #001 - OH - OH	8,065.95	7,000.88	119.41	-193.97	0.381	Collision Risk Procedures Re
GUARDIAN 25 STATE COM #001 - OH - OH	10,704.45	6,980.16	1,470.92	1,257.30	6.886	CC, ES
GUARDIAN 25 STATE COM #001 - OH - OH	10,800.00	6,978.39	1,474.16	1,259.77	6.876	SF
LAKEWOOD STATE COM #001 - OH - OH	10,683.86	6,956.92	151.85	-39.09	0.795	Collision Risk Procedures Re
Palmillo 29-30 271H - OH - OH	111.80	112.10	2,097.79	2,097.19	3,514.113	CC, ES
Palmillo 29-30 271H - OH - OH	3,900.00	3,787.19	2,492.25	2,464.65	90.304	SF
Palmillo 29-30 272H - OH - OH	181.71	181.72	179.54	178.60	190.704	CC
Palmillo 29-30 272H - OH - OH	600.00	599.05	181.62	177.69	46.197	ES
Palmillo 29-30 272H - OH - OH	7,151.38	7,503.58	1,294.10	1,241.40	24.553	SF
Palmillo 29-30 273H - OH - OH	0.00	0.00	150.01			
Palmillo 29-30 273H - OH - OH	7,340.90	7,442.49	152.99	101.36	2.963	ES
Palmillo 29-30 273H - OH - OH	7,350.00	7,435.30	153.11	101.43	2.963	SF
Palmillo 29-30 274H - OH - OH	7,225.00	7,384.12	1,505.83	1,454.00	29.051	SF
Palmillo 29-30 274H - OH - OH	7,549.42	7,050.25	1,502.78	1,451.49	29.305	CC, ES
Palmillo 29-30 375H - OH - OH	0.00	0.30	2,068.65			
Palmillo 29-30 375H - OH - OH	400.00	376.14	2,069.77	2,067.49	907.090	ES
Palmillo 29-30 375H - OH - OH	3,700.00	3,615.76	2,495.13	2,469.22	96.325	SF
Palmillo 29-30 376H - OH - OH	638.29	635.70	208.47	204.30	50.000	CC
Palmillo 29-30 376H - OH - OH	700.00	697.12	208.85	204.25	45.388	ES
Palmillo 29-30 376H - OH - OH	8,000.00	7,072.78	1,277.82	1,225.56	24.455	SF
Palmillo 29-30 377H - OH - OH	7,800.00	7,113.13	70.52	18.44	1.354	Collision Risk Procedures Re
Palmillo 29-30 377H - OH - OH	7,804.45	7,112.78	70.50	18.53	1.357	Collision Risk Procedures Re
Palmillo 29-30 378H - OH - OH	7,833.39	7,040.54	1,417.76	1,366.16	27.473	CC, ES
Palmillo 29-30 378H - OH - OH	7,900.00	7,039.54	1,419.33	1,367.63	27.458	SF
STATE E-4202 1 - OH - OH	600.00	580.00	2,476.24	2,445.93	81.708	CC
STATE E-4202 1 - OH - OH	700.00	679.98	2,477.73	2,443.03	71.390	ES

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Camacho 25 26 Offsets						
STATE E-4202 1 - OH - OH	900.00	879.45	2,489.70	2,446.21	57.257	SF
WHITE THORN 26 STATE COM #001 - OH - OH	14,358.81	6,872.41	1,177.10	953.72	5.269	CC, ES
WHITE THORN 26 STATE COM #001 - OH - OH	14,400.00	6,871.80	1,177.83	954.03	5.263	SF

Offset Design: Camacho 25 26 (Middle) - Camacho 25-26 State Com 201H - 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.48	60.00	0.50	60.00				
100.00	100.00	100.00	100.00	0.25	0.25	0.48	60.00	0.50	60.00	59.50	0.50	119.559	
200.00	200.00	200.00	200.00	0.61	0.61	0.48	60.00	0.50	60.00	58.78	1.22	49.230	
300.00	300.00	300.00	300.00	0.97	0.97	0.48	60.00	0.50	60.00	58.07	1.94	30.997	
400.00	400.00	400.00	400.00	1.33	1.33	0.48	60.00	0.50	60.00	57.35	2.65	22.619	
500.00	500.00	500.00	500.00	1.68	1.68	0.48	60.00	0.50	60.00	56.63	3.37	17.807	
600.00	600.00	600.00	600.00	2.04	2.04	0.48	60.00	0.50	60.00	55.92	4.09	14.683	CC, ES
700.00	699.98	697.61	697.58	2.39	2.39	-119.37	61.87	1.42	62.77	57.99	4.78	13.126	
800.00	799.84	794.73	794.49	2.73	2.74	-120.60	67.42	4.14	71.07	65.60	5.47	13.003	SF
900.00	899.45	890.87	890.09	3.08	3.09	-122.08	76.55	8.62	84.91	78.76	6.15	13.815	
1,000.00	998.70	985.57	983.76	3.42	3.43	-123.43	89.05	14.76	104.23	97.41	6.82	15.289	
1,100.00	1,097.47	1,078.42	1,074.95	3.78	3.77	-124.49	104.66	22.43	128.93	121.45	7.48	17.245	
1,200.00	1,195.62	1,169.04	1,163.21	4.14	4.09	-125.23	123.09	31.48	158.84	150.72	8.12	19.561	
1,300.00	1,293.06	1,257.09	1,248.13	4.51	4.41	-125.70	143.98	41.73	193.78	185.04	8.75	22.156	
1,349.92	1,341.38	1,300.00	1,289.17	4.70	4.56	-125.84	155.21	47.25	213.04	203.99	9.05	23.530	
1,400.00	1,389.76	1,342.42	1,329.50	4.89	4.72	-126.21	167.00	53.04	233.31	223.96	9.35	24.945	
1,500.00	1,486.35	1,425.47	1,407.73	5.27	5.03	-126.47	192.00	65.32	275.81	265.88	9.94	27.762	
1,600.00	1,582.95	1,506.21	1,482.78	5.66	5.34	-126.32	218.74	78.44	320.92	310.42	10.50	30.571	
1,700.00	1,679.54	1,584.55	1,554.55	6.05	5.65	-125.92	246.93	92.28	368.53	357.49	11.04	33.384	
1,800.00	1,776.13	1,660.42	1,622.99	6.44	5.95	-125.37	276.31	106.71	418.55	406.99	11.56	36.208	
1,900.00	1,872.73	1,733.78	1,688.10	6.83	6.25	-124.75	306.64	121.61	470.90	458.85	12.06	39.050	
2,000.00	1,969.32	1,808.62	1,753.44	7.23	6.55	-124.07	339.39	137.68	525.41	512.83	12.58	41.757	
2,100.00	2,065.91	1,891.90	1,825.86	7.63	6.91	-123.40	376.30	155.81	580.51	567.29	13.21	43.937	
2,200.00	2,162.50	1,975.18	1,898.28	8.03	7.26	-122.85	413.22	173.93	635.64	621.80	13.85	45.902	
2,300.00	2,259.10	2,058.46	1,970.70	8.43	7.62	-122.39	450.13	192.06	690.82	676.33	14.49	47.680	
2,400.00	2,355.69	2,141.74	2,043.12	8.83	7.99	-121.99	487.04	210.18	746.02	730.88	15.13	49.296	
2,500.00	2,452.28	2,225.03	2,115.54	9.23	8.35	-121.65	523.96	228.31	801.24	785.45	15.78	50.769	
2,600.00	2,548.88	2,308.31	2,187.96	9.64	8.72	-121.35	560.87	246.43	856.47	840.04	16.43	52.117	
2,700.00	2,645.47	2,391.59	2,260.38	10.04	9.10	-121.09	597.79	264.56	911.73	894.64	17.09	53.353	
2,800.00	2,742.06	2,474.87	2,332.80	10.44	9.47	-120.86	634.70	282.69	966.99	949.25	17.75	54.491	
2,900.00	2,838.66	2,558.15	2,405.22	10.85	9.85	-120.65	671.62	300.81	1,022.26	1,003.86	18.41	55.541	
3,000.00	2,935.25	2,641.44	2,477.64	11.26	10.23	-120.47	708.53	318.94	1,077.55	1,058.48	19.07	56.514	
3,100.00	3,031.84	2,724.72	2,550.06	11.66	10.61	-120.30	745.44	337.06	1,132.84	1,113.11	19.73	57.416	
3,200.00	3,128.44	2,808.00	2,622.48	12.07	10.99	-120.15	782.36	355.19	1,188.13	1,167.74	20.40	58.254	
3,300.00	3,225.03	2,891.28	2,694.90	12.47	11.38	-120.01	819.27	373.31	1,243.43	1,222.37	21.06	59.036	
3,400.00	3,321.62	2,974.56	2,767.32	12.88	11.76	-119.88	856.19	391.44	1,298.74	1,277.01	21.73	59.766	
3,500.00	3,418.22	3,057.85	2,839.74	13.29	12.15	-119.77	893.10	409.56	1,354.05	1,331.65	22.40	60.449	
3,600.00	3,514.81	3,141.13	2,912.16	13.70	12.54	-119.66	930.01	427.69	1,409.36	1,386.29	23.07	61.089	
3,700.00	3,611.40	3,224.41	2,984.58	14.10	12.92	-119.56	966.93	445.81	1,464.67	1,440.93	23.74	61.691	
3,800.00	3,708.00	3,307.69	3,057.01	14.51	13.31	-119.47	1,003.84	463.94	1,519.99	1,495.58	24.42	62.256	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 (Middle) - Camacho 25-26 State Com 201H - 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
3,900.00	3,804.59	3,390.97	3,129.43	14.92	13.70	-119.39	1,040.76	482.06	1,575.31	1,550.22	25.09	62.789	
4,000.00	3,901.18	3,474.26	3,201.85	15.33	14.09	-119.31	1,077.67	500.19	1,630.64	1,604.87	25.76	63.292	
4,100.00	3,997.78	3,557.54	3,274.27	15.74	14.48	-119.23	1,114.58	518.31	1,685.96	1,659.52	26.44	63.767	
4,200.00	4,094.37	3,640.82	3,346.69	16.15	14.87	-119.16	1,151.50	536.44	1,741.29	1,714.17	27.12	64.217	
4,300.00	4,190.96	3,724.10	3,419.11	16.55	15.27	-119.10	1,188.41	554.56	1,796.62	1,768.82	27.79	64.642	
4,400.00	4,287.56	3,807.39	3,491.53	16.96	15.66	-119.04	1,225.33	572.69	1,851.95	1,823.48	28.47	65.046	
4,500.00	4,384.15	3,890.67	3,563.95	17.37	16.05	-118.98	1,262.24	590.82	1,907.28	1,878.13	29.15	65.430	
4,600.00	4,480.74	3,973.95	3,636.37	17.78	16.44	-118.92	1,299.15	608.94	1,962.61	1,932.78	29.83	65.794	
4,700.00	4,577.34	4,057.23	3,708.79	18.19	16.84	-118.87	1,336.07	627.07	2,017.95	1,987.44	30.51	66.141	
4,800.00	4,673.93	4,140.51	3,781.21	18.60	17.23	-118.82	1,372.98	645.19	2,073.28	2,042.09	31.19	66.471	
4,900.00	4,770.52	4,223.80	3,853.63	19.01	17.63	-118.78	1,409.90	663.32	2,128.62	2,096.75	31.87	66.786	
5,000.00	4,867.12	4,307.08	3,926.05	19.42	18.02	-118.73	1,446.81	681.44	2,183.96	2,151.40	32.55	67.086	
5,100.00	4,963.71	4,390.36	3,998.47	19.83	18.41	-118.69	1,483.72	699.57	2,239.29	2,206.06	33.24	67.373	
5,200.00	5,060.30	4,473.64	4,070.89	20.24	18.81	-118.65	1,520.64	717.69	2,294.63	2,260.71	33.92	67.647	
5,300.00	5,156.90	4,556.92	4,143.31	20.65	19.20	-118.61	1,557.55	735.82	2,349.97	2,315.37	34.60	67.909	
5,400.00	5,253.49	4,640.21	4,215.73	21.06	19.60	-118.58	1,594.47	753.94	2,405.31	2,370.02	35.29	68.160	
5,500.00	5,350.08	4,723.49	4,288.15	21.47	20.00	-118.54	1,631.38	772.07	2,460.65	2,424.68	35.97	68.400	

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 (Middle) - 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)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.57	30.10	0.30	30.10				
100.00	100.00	100.00	100.00	0.25	0.25	0.57	30.10	0.30	30.10	29.60	0.50	59.980	
200.00	200.00	200.00	200.00	0.61	0.61	0.57	30.10	0.30	30.10	28.88	1.22	24.698	
300.00	300.00	300.00	300.00	0.97	0.97	0.57	30.10	0.30	30.10	28.17	1.94	15.550	
400.00	400.00	400.00	400.00	1.33	1.33	0.57	30.10	0.30	30.10	27.45	2.65	11.348	
500.00	500.00	500.00	500.00	1.68	1.68	0.57	30.10	0.30	30.10	26.73	3.37	8.933	
600.00	600.00	600.00	600.00	2.04	2.04	0.57	30.10	0.30	30.10	26.01	4.09	7.366	CC, ES
700.00	699.98	699.33	699.31	2.39	2.40	-119.02	31.13	1.68	31.99	27.21	4.79	6.685	
800.00	799.84	798.45	798.29	2.73	2.75	-119.57	34.21	5.80	37.67	32.19	5.48	6.879	
900.00	899.45	897.14	896.61	3.08	3.10	-120.18	39.32	12.63	47.11	40.94	6.17	7.635	
1,000.00	998.70	995.21	993.95	3.42	3.45	-120.66	46.39	22.10	60.29	53.42	6.87	8.782	
1,100.00	1,097.47	1,092.45	1,090.02	3.78	3.80	-120.98	55.38	34.12	77.16	69.60	7.56	10.207	
1,200.00	1,195.62	1,188.67	1,184.54	4.14	4.15	-121.14	66.18	48.58	97.68	89.43	8.25	11.835	
1,300.00	1,293.06	1,283.71	1,277.24	4.51	4.50	-121.19	78.71	65.34	121.78	112.83	8.94	13.614	
1,349.92	1,341.38	1,330.66	1,322.76	4.70	4.67	-121.17	85.58	74.53	135.12	125.83	9.29	14.544	
1,400.00	1,389.76	1,377.46	1,367.95	4.89	4.84	-121.24	92.87	84.29	149.16	139.53	9.63	15.483	
1,500.00	1,486.35	1,471.99	1,458.75	5.27	5.20	-120.84	108.63	105.37	178.18	167.85	10.33	17.246	
1,600.00	1,582.95	1,567.64	1,550.53	5.66	5.56	-120.48	124.73	126.91	207.36	196.31	11.05	18.768	
1,700.00	1,679.54	1,663.28	1,642.31	6.05	5.93	-120.21	140.83	148.45	236.54	224.77	11.77	20.095	
1,800.00	1,776.13	1,758.92	1,734.09	6.44	6.29	-120.00	156.93	169.99	265.73	253.23	12.50	21.260	
1,900.00	1,872.73	1,854.56	1,825.88	6.83	6.67	-119.83	173.03	191.54	294.92	281.69	13.23	22.291	
2,000.00	1,969.32	1,950.20	1,917.66	7.23	7.04	-119.69	189.12	213.08	324.12	310.15	13.97	23.209	
2,100.00	2,065.91	2,045.84	2,009.44	7.63	7.41	-119.58	205.22	234.62	353.31	338.61	14.70	24.030	
2,200.00	2,162.50	2,141.48	2,101.23	8.03	7.79	-119.48	221.32	256.16	382.51	367.06	15.44	24.769	
2,300.00	2,259.10	2,237.13	2,193.01	8.43	8.17	-119.40	237.42	277.70	411.70	395.52	16.19	25.437	
2,400.00	2,355.69	2,332.77	2,284.79	8.83	8.54	-119.32	253.52	299.24	440.90	423.97	16.93	26.044	
2,500.00	2,452.28	2,428.41	2,376.57	9.23	8.92	-119.26	269.62	320.78	470.10	452.42	17.67	26.598	
2,600.00	2,548.88	2,524.05	2,468.36	9.64	9.30	-119.20	285.72	342.32	499.30	480.88	18.42	27.104	
2,700.00	2,645.47	2,619.69	2,560.14	10.04	9.68	-119.15	301.82	363.86	528.50	509.33	19.17	27.570	
2,800.00	2,742.06	2,715.33	2,651.92	10.44	10.06	-119.11	317.92	385.40	557.69	537.78	19.92	27.999	
2,900.00	2,838.66	2,810.97	2,743.70	10.85	10.44	-119.07	334.02	406.94	586.89	566.22	20.67	28.395	
3,000.00	2,935.25	2,906.61	2,835.49	11.26	10.82	-119.03	350.12	428.49	616.09	594.67	21.42	28.762	
3,100.00	3,031.84	3,002.26	2,927.27	11.66	11.21	-119.00	366.22	450.03	645.29	623.12	22.17	29.104	
3,200.00	3,128.44	3,097.90	3,019.05	12.07	11.59	-118.97	382.31	471.57	674.49	651.57	22.92	29.422	
3,300.00	3,225.03	3,193.54	3,110.83	12.47	11.97	-118.94	398.41	493.11	703.69	680.01	23.68	29.719	
3,400.00	3,321.62	3,289.18	3,202.62	12.88	12.36	-118.91	414.51	514.65	732.89	708.46	24.43	29.998	
3,500.00	3,418.22	3,384.82	3,294.40	13.29	12.74	-118.89	430.61	536.19	762.09	736.91	25.19	30.258	
3,600.00	3,514.81	3,480.46	3,386.18	13.70	13.12	-118.87	446.71	557.73	791.29	765.35	25.94	30.503	
3,700.00	3,611.40	3,576.10	3,477.97	14.10	13.51	-118.85	462.81	579.27	820.49	793.80	26.70	30.734	
3,800.00	3,708.00	3,671.74	3,569.75	14.51	13.89	-118.83	478.91	600.81	849.69	822.24	27.45	30.951	
3,900.00	3,804.59	3,767.39	3,661.53	14.92	14.27	-118.81	495.01	622.35	878.90	850.69	28.21	31.157	
4,000.00	3,901.18	3,863.03	3,753.31	15.33	14.66	-118.80	511.11	643.90	908.10	879.13	28.97	31.351	
4,100.00	3,997.78	3,958.67	3,845.10	15.74	15.04	-118.78	527.21	665.44	937.30	907.57	29.72	31.535	
4,200.00	4,094.37	4,054.31	3,936.88	16.15	15.43	-118.77	543.31	686.98	966.50	936.02	30.48	31.709	
4,300.00	4,190.96	4,149.95	4,028.66	16.55	15.81	-118.75	559.41	708.52	995.70	964.46	31.24	31.875	
4,400.00	4,287.56	4,245.59	4,120.44	16.96	16.20	-118.74	575.50	730.06	1,024.90	992.90	32.00	32.032	
4,500.00	4,384.15	4,341.23	4,212.23	17.37	16.58	-118.73	591.60	751.60	1,054.10	1,021.35	32.75	32.182	
4,600.00	4,480.74	4,436.87	4,304.01	17.78	16.97	-118.72	607.70	773.14	1,083.30	1,049.79	33.51	32.325	
4,700.00	4,577.34	4,532.52	4,395.79	18.19	17.35	-118.70	623.80	794.68	1,112.50	1,078.23	34.27	32.461	
4,800.00	4,673.93	4,628.16	4,487.58	18.60	17.74	-118.69	639.90	816.22	1,141.70	1,106.67	35.03	32.591	
4,900.00	4,770.52	4,723.80	4,579.36	19.01	18.12	-118.68	656.00	837.76	1,170.90	1,135.11	35.79	32.716	
5,000.00	4,867.12	4,819.44	4,671.14	19.42	18.51	-118.67	672.10	859.30	1,200.11	1,163.56	36.55	32.835	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 (Middle) - 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)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Rule Assigned: Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,963.71	4,915.08	4,762.92	19.83	18.90	-118.67	688.20	880.85	1,229.31	1,192.00	37.31	32.949	
5,200.00	5,060.30	5,010.72	4,854.71	20.24	19.28	-118.66	704.30	902.39	1,258.51	1,220.44	38.07	33.058	
5,300.00	5,156.90	5,106.36	4,946.49	20.65	19.67	-118.65	720.40	923.93	1,287.71	1,248.88	38.83	33.163	
5,400.00	5,253.49	5,202.01	5,038.27	21.06	20.05	-118.64	736.50	945.47	1,316.91	1,277.32	39.59	33.263	
5,500.00	5,350.08	5,297.65	5,130.05	21.47	20.44	-118.63	752.60	967.01	1,346.11	1,305.76	40.35	33.360	
5,600.00	5,446.68	5,393.29	5,221.84	21.88	20.83	-118.63	768.69	988.55	1,375.31	1,334.20	41.11	33.453	
5,612.36	5,458.62	5,405.11	5,233.18	21.93	20.87	-118.63	770.68	991.21	1,378.92	1,337.72	41.21	33.464	
5,700.00	5,543.60	5,489.10	5,313.78	22.28	21.21	-119.03	784.82	1,010.13	1,403.90	1,362.03	41.87	33.529	
5,800.00	5,641.32	5,585.29	5,406.10	22.68	21.60	-119.33	801.01	1,031.79	1,430.87	1,388.25	42.62	33.570	
5,900.00	5,739.72	5,683.60	5,500.44	23.06	22.00	-119.49	817.56	1,053.93	1,456.22	1,412.84	43.38	33.566	
6,000.00	5,838.69	5,822.95	5,635.14	23.43	22.55	-119.42	838.88	1,082.47	1,478.44	1,434.01	44.43	33.275	
6,100.00	5,938.09	5,965.00	5,774.07	23.79	23.09	-119.32	856.56	1,106.12	1,496.17	1,450.73	45.44	32.926	
6,200.00	6,037.81	6,109.25	5,916.48	24.13	23.62	-119.20	870.27	1,124.46	1,509.31	1,462.90	46.40	32.526	
6,300.00	6,137.73	6,255.15	6,061.51	24.46	24.13	-119.06	879.76	1,137.15	1,517.75	1,470.44	47.31	32.083	
6,362.28	6,200.00	6,346.59	6,152.73	24.66	24.44	0.40	883.44	1,142.08	1,520.61	1,472.78	47.84	31.788	
6,400.00	6,237.72	6,402.12	6,208.21	24.78	24.63	0.46	884.83	1,143.94	1,521.57	1,473.42	48.14	31.605	
6,500.00	6,337.72	6,531.64	6,337.72	25.08	25.04	0.51	885.71	1,145.12	1,522.17	1,473.30	48.87	31.146	
6,600.00	6,437.72	6,631.64	6,437.72	25.38	25.36	0.51	885.71	1,145.12	1,522.17	1,472.66	49.51	30.744	
6,700.00	6,537.72	6,731.64	6,537.72	25.69	25.68	0.51	885.71	1,145.12	1,522.17	1,472.02	50.15	30.351	
6,703.19	6,540.91	6,734.83	6,540.91	25.70	25.69	0.51	885.71	1,145.12	1,522.17	1,472.00	50.17	30.339	
6,731.88	6,569.60	6,763.14	6,569.22	25.79	25.78	0.50	885.71	1,144.95	1,522.17	1,471.82	50.35	30.230	
6,750.00	6,587.72	6,780.72	6,586.78	25.84	25.84	89.66	885.73	1,144.16	1,522.18	1,471.71	50.46	30.164	
6,775.00	6,612.66	6,804.94	6,610.90	25.91	25.91	89.63	885.77	1,142.02	1,522.19	1,471.58	50.61	30.079	
6,800.00	6,637.49	6,829.14	6,634.86	25.98	25.97	89.61	885.83	1,138.66	1,522.21	1,471.46	50.74	29.998	
6,825.00	6,662.13	6,853.30	6,658.59	26.05	26.04	89.59	885.91	1,134.10	1,522.23	1,471.35	50.88	29.919	
6,850.00	6,686.52	6,877.45	6,682.03	26.11	26.10	89.57	886.02	1,128.35	1,522.25	1,471.25	51.01	29.844	
6,875.00	6,710.59	6,901.57	6,705.14	26.17	26.16	89.55	886.14	1,121.42	1,522.28	1,471.15	51.13	29.771	
6,900.00	6,734.27	6,925.67	6,727.85	26.23	26.22	89.53	886.29	1,113.35	1,522.32	1,471.07	51.25	29.702	
6,925.00	6,757.50	6,950.00	6,750.32	26.29	26.28	89.51	886.46	1,104.05	1,522.36	1,470.99	51.37	29.635	
6,950.00	6,780.21	6,973.83	6,771.85	26.34	26.33	89.50	886.64	1,093.85	1,522.40	1,470.92	51.48	29.571	
6,975.00	6,802.35	6,997.89	6,793.04	26.39	26.38	89.48	886.85	1,082.46	1,522.45	1,470.86	51.59	29.510	
7,000.00	6,823.85	7,021.93	6,813.63	26.44	26.43	89.47	887.08	1,070.04	1,522.50	1,470.80	51.70	29.451	
7,025.00	6,844.65	7,045.97	6,833.55	26.49	26.48	89.46	887.32	1,056.59	1,522.55	1,470.76	51.80	29.395	
7,050.00	6,864.70	7,070.01	6,852.77	26.53	26.53	89.45	887.59	1,042.17	1,522.61	1,470.72	51.89	29.341	
7,075.00	6,883.94	7,094.04	6,871.23	26.58	26.57	89.44	887.87	1,026.80	1,522.67	1,470.69	51.99	29.289	
7,100.00	6,902.32	7,118.07	6,888.90	26.62	26.61	89.43	888.16	1,010.51	1,522.74	1,470.66	52.08	29.239	
7,125.00	6,919.79	7,142.10	6,905.73	26.65	26.64	89.42	888.48	993.37	1,522.80	1,470.64	52.17	29.191	
7,150.00	6,936.29	7,166.13	6,921.67	26.69	26.68	89.42	888.80	975.39	1,522.87	1,470.62	52.25	29.145	
7,175.00	6,951.79	7,190.17	6,936.70	26.72	26.71	89.42	889.15	956.63	1,522.95	1,470.61	52.33	29.101	
7,200.00	6,966.25	7,214.22	6,950.76	26.75	26.74	89.42	889.50	937.13	1,523.02	1,470.61	52.41	29.058	
7,225.00	6,979.61	7,238.28	6,963.83	26.78	26.77	89.42	889.87	916.93	1,523.10	1,470.61	52.49	29.017	
7,250.00	6,991.86	7,262.35	6,975.87	26.81	26.80	89.42	890.25	896.10	1,523.18	1,470.61	52.56	28.978	
7,275.00	7,002.94	7,286.44	6,986.86	26.84	26.83	89.42	890.64	874.67	1,523.26	1,470.62	52.63	28.941	
7,300.00	7,012.84	7,310.55	6,996.76	26.86	26.85	89.42	891.04	852.69	1,523.34	1,470.64	52.70	28.905	
7,325.00	7,021.52	7,334.67	7,005.54	26.88	26.87	89.43	891.45	830.23	1,523.43	1,470.66	52.77	28.871	
7,350.00	7,028.97	7,358.82	7,013.18	26.90	26.89	89.44	891.87	807.33	1,523.51	1,470.68	52.83	28.839	
7,375.00	7,035.15	7,382.99	7,019.66	26.92	26.91	89.45	892.29	784.05	1,523.60	1,470.71	52.89	28.809	
7,400.00	7,040.06	7,407.19	7,024.96	26.94	26.92	89.46	892.72	760.44	1,523.68	1,470.74	52.94	28.781	
7,425.00	7,043.68	7,431.41	7,029.06	26.95	26.93	89.47	893.16	736.57	1,523.77	1,470.78	52.99	28.755	
7,450.00	7,046.00	7,455.67	7,031.94	26.96	26.95	89.48	893.60	712.50	1,523.86	1,470.82	53.04	28.731	
7,475.00	7,047.01	7,479.96	7,033.61	26.97	26.95	89.50	894.04	688.27	1,523.95	1,470.87	53.08	28.710	
7,489.85	7,047.00	7,494.40	7,034.01	26.98	26.96	89.51	894.30	673.84	1,524.00	1,470.90	53.10	28.699	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 (Middle) - 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.00	7,046.83	7,504.29	7,034.03	26.98	26.96	89.52	894.48	663.95	1,524.04	1,470.92	53.12	28.691	
7,600.00	7,045.16	7,604.20	7,032.62	27.05	27.02	89.52	896.31	564.06	1,524.41	1,471.07	53.34	28.578	
7,700.00	7,043.49	7,704.20	7,031.19	27.15	27.12	89.53	898.13	464.09	1,524.79	1,471.13	53.66	28.416	
7,800.00	7,041.82	7,804.20	7,029.76	27.31	27.26	89.54	899.95	364.12	1,525.17	1,471.10	54.07	28.208	
7,900.00	7,040.15	7,904.20	7,028.34	27.51	27.47	89.55	901.77	264.15	1,525.55	1,470.98	54.57	27.958	
8,000.00	7,038.48	8,004.20	7,026.91	27.76	27.72	89.56	903.60	164.17	1,525.92	1,470.77	55.15	27.667	
8,100.00	7,036.81	8,104.20	7,025.48	28.06	28.02	89.57	905.42	64.20	1,526.30	1,470.48	55.82	27.341	
8,200.00	7,035.14	8,204.20	7,024.05	28.40	28.37	89.58	907.24	-35.77	1,526.68	1,470.10	56.58	26.984	
8,300.00	7,033.48	8,304.20	7,022.63	28.79	28.77	89.59	909.07	-135.74	1,527.06	1,469.65	57.41	26.599	
8,400.00	7,031.81	8,404.20	7,021.20	29.22	29.20	89.60	910.89	-235.71	1,527.44	1,469.12	58.32	26.192	
8,500.00	7,030.14	8,504.20	7,019.77	29.70	29.68	89.61	912.71	-335.69	1,527.81	1,468.52	59.30	25.765	
8,600.00	7,028.47	8,604.19	7,018.35	30.21	30.20	89.62	914.54	-435.66	1,528.19	1,467.85	60.34	25.324	
8,700.00	7,026.80	8,704.19	7,016.92	30.75	30.75	89.63	916.36	-535.63	1,528.57	1,467.11	61.46	24.872	
8,800.00	7,025.13	8,804.19	7,015.49	31.33	31.33	89.64	918.18	-635.60	1,528.95	1,466.32	62.63	24.412	
8,900.00	7,023.46	8,904.19	7,014.06	31.94	31.94	89.64	920.00	-735.58	1,529.32	1,465.46	63.86	23.947	
9,000.00	7,021.79	9,004.19	7,012.64	32.58	32.58	89.65	921.83	-835.55	1,529.70	1,464.55	65.15	23.480	
9,100.00	7,020.12	9,104.19	7,011.21	33.25	33.25	89.66	923.65	-935.52	1,530.08	1,463.59	66.49	23.013	
9,200.00	7,018.45	9,204.19	7,009.78	33.94	33.94	89.67	925.47	-1,035.49	1,530.46	1,462.58	67.88	22.548	
9,300.00	7,016.78	9,304.19	7,008.36	34.66	34.65	89.68	927.30	-1,135.46	1,530.84	1,461.53	69.31	22.088	
9,400.00	7,015.11	9,404.19	7,006.93	35.39	35.39	89.69	929.12	-1,235.44	1,531.21	1,460.43	70.78	21.633	
9,500.00	7,013.45	9,504.19	7,005.50	36.15	36.15	89.70	930.94	-1,335.41	1,531.59	1,459.29	72.30	21.184	
9,600.00	7,011.78	9,604.18	7,004.07	36.93	36.92	89.71	932.76	-1,435.38	1,531.97	1,458.12	73.85	20.744	
9,700.00	7,010.11	9,704.18	7,002.65	37.72	37.72	89.72	934.59	-1,535.35	1,532.35	1,456.91	75.44	20.312	
9,800.00	7,008.44	9,804.18	7,001.22	38.54	38.53	89.73	936.41	-1,635.33	1,532.73	1,455.67	77.06	19.890	
9,900.00	7,006.77	9,904.18	6,999.79	39.36	39.35	89.74	938.23	-1,735.30	1,533.11	1,454.39	78.71	19.477	
10,000.00	7,005.10	10,004.18	6,998.37	40.20	40.19	89.74	940.06	-1,835.27	1,533.48	1,453.09	80.40	19.074	
10,100.00	7,003.43	10,104.18	6,996.94	41.06	41.05	89.75	941.88	-1,935.24	1,533.86	1,451.76	82.11	18.681	
10,200.00	7,001.76	10,204.18	6,995.51	41.93	41.91	89.76	943.70	-2,035.21	1,534.24	1,450.40	83.84	18.299	
10,300.00	7,000.09	10,304.18	6,994.08	42.81	42.79	89.77	945.53	-2,135.19	1,534.62	1,449.02	85.60	17.928	
10,400.00	6,998.42	10,404.18	6,992.66	43.70	43.68	89.78	947.35	-2,235.16	1,535.00	1,447.61	87.38	17.566	
10,500.00	6,996.75	10,504.18	6,991.23	44.61	44.59	89.79	949.17	-2,335.13	1,535.38	1,446.19	89.19	17.215	
10,600.00	6,995.08	10,604.17	6,989.80	45.52	45.50	89.80	950.99	-2,435.10	1,535.76	1,444.74	91.01	16.874	
10,700.00	6,993.42	10,704.17	6,988.38	46.44	46.42	89.81	952.82	-2,535.07	1,536.13	1,443.28	92.85	16.544	
10,800.00	6,991.75	10,804.17	6,986.95	47.37	47.35	89.82	954.64	-2,635.05	1,536.51	1,441.80	94.71	16.223	
10,900.00	6,990.08	10,904.17	6,985.52	48.31	48.29	89.83	956.46	-2,735.02	1,536.89	1,440.30	96.59	15.911	
11,000.00	6,988.41	11,004.17	6,984.09	49.26	49.23	89.84	958.29	-2,834.99	1,537.27	1,438.79	98.48	15.609	
11,100.00	6,986.74	11,104.17	6,982.67	50.22	50.19	89.84	960.11	-2,934.96	1,537.65	1,437.26	100.39	15.316	
11,200.00	6,985.07	11,204.17	6,981.24	51.18	51.15	89.85	961.93	-3,034.94	1,538.03	1,435.71	102.31	15.032	
11,300.00	6,983.40	11,304.17	6,979.81	52.15	52.11	89.86	963.76	-3,134.91	1,538.41	1,434.16	104.25	14.757	
11,400.00	6,981.73	11,404.17	6,978.39	53.12	53.09	89.87	965.58	-3,234.88	1,538.79	1,432.59	106.20	14.490	
11,500.00	6,980.06	11,504.17	6,976.96	54.10	54.07	89.88	967.40	-3,334.85	1,539.16	1,431.01	108.16	14.231	
11,600.00	6,978.39	11,604.16	6,975.53	55.09	55.05	89.89	969.22	-3,434.82	1,539.54	1,429.41	110.13	13.980	
11,700.00	6,976.72	11,704.16	6,974.10	56.08	56.04	89.90	971.05	-3,534.80	1,539.92	1,427.81	112.11	13.736	
11,800.00	6,975.06	11,804.16	6,972.68	57.08	57.04	89.91	972.87	-3,634.77	1,540.30	1,426.20	114.10	13.499	
11,900.00	6,973.39	11,904.16	6,971.25	58.08	58.04	89.92	974.69	-3,734.74	1,540.68	1,424.58	116.10	13.270	
12,000.00	6,971.72	12,004.16	6,969.82	59.09	59.04	89.93	976.52	-3,834.71	1,541.06	1,422.94	118.11	13.047	
12,100.00	6,970.05	12,104.16	6,968.40	60.10	60.05	89.93	978.34	-3,934.69	1,541.44	1,421.30	120.13	12.831	
12,200.00	6,968.38	12,204.16	6,966.97	61.11	61.07	89.94	980.16	-4,034.66	1,541.82	1,419.66	122.16	12.621	
12,300.00	6,966.71	12,304.16	6,965.54	62.13	62.08	89.95	981.99	-4,134.63	1,542.20	1,418.00	124.20	12.417	
12,400.00	6,965.04	12,404.16	6,964.11	63.15	63.11	89.96	983.81	-4,234.60	1,542.58	1,416.34	126.24	12.220	
12,500.00	6,963.37	12,504.16	6,962.69	64.18	64.13	89.97	985.63	-4,334.57	1,542.96	1,414.67	128.29	12.027	
12,600.00	6,961.70	12,604.15	6,961.26	65.21	65.16	89.98	987.45	-4,434.55	1,543.33	1,412.99	130.35	11.840	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 (Middle) - 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)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,700.00	6,960.03	12,704.15	6,959.83	66.24	66.19	89.99	989.28	-4,534.52	1,543.71	1,411.31	132.41	11.659	
12,800.00	6,958.36	12,804.15	6,958.41	67.27	67.22	90.00	991.10	-4,634.49	1,544.09	1,409.62	134.48	11.482	
12,900.00	6,956.69	12,904.15	6,956.98	68.31	68.26	90.01	992.92	-4,734.46	1,544.47	1,407.92	136.55	11.311	
13,000.00	6,955.03	13,004.15	6,955.55	69.35	69.30	90.02	994.75	-4,834.44	1,544.85	1,406.22	138.63	11.144	
13,100.00	6,953.36	13,104.15	6,954.12	70.40	70.34	90.02	996.57	-4,934.41	1,545.23	1,404.51	140.72	10.981	
13,200.00	6,951.69	13,204.15	6,952.70	71.44	71.39	90.03	998.39	-5,034.38	1,545.61	1,402.80	142.81	10.823	
13,300.00	6,950.02	13,304.15	6,951.27	72.49	72.44	90.04	1,000.22	-5,134.35	1,545.99	1,401.09	144.91	10.669	
13,400.00	6,948.35	13,404.15	6,949.84	73.54	73.49	90.05	1,002.04	-5,234.32	1,546.37	1,399.36	147.01	10.519	
13,500.00	6,946.68	13,504.14	6,948.42	74.60	74.54	90.06	1,003.86	-5,334.30	1,546.75	1,397.64	149.11	10.373	
13,600.00	6,945.01	13,604.14	6,946.99	75.65	75.59	90.07	1,005.68	-5,434.27	1,547.13	1,395.91	151.22	10.231	
13,700.00	6,943.34	13,704.14	6,945.56	76.71	76.65	90.08	1,007.51	-5,534.24	1,547.51	1,394.18	153.33	10.092	
13,800.00	6,941.67	13,804.14	6,944.13	77.77	77.71	90.09	1,009.33	-5,634.21	1,547.89	1,392.44	155.45	9.957	
13,900.00	6,940.00	13,904.14	6,942.71	78.83	78.77	90.10	1,011.15	-5,734.18	1,548.27	1,390.70	157.57	9.826	
14,000.00	6,938.33	14,004.14	6,941.28	79.89	79.83	90.11	1,012.98	-5,834.16	1,548.65	1,388.95	159.70	9.697	
14,100.00	6,936.67	14,104.14	6,939.85	80.96	80.90	90.11	1,014.80	-5,934.13	1,549.03	1,387.20	161.82	9.572	
14,200.00	6,935.00	14,204.14	6,938.43	82.02	81.96	90.12	1,016.62	-6,034.10	1,549.41	1,385.45	163.96	9.450	
14,300.00	6,933.33	14,304.14	6,937.00	83.09	83.03	90.13	1,018.45	-6,134.07	1,549.79	1,383.70	166.09	9.331	
14,400.00	6,931.66	14,404.14	6,935.57	84.16	84.10	90.14	1,020.27	-6,234.05	1,550.17	1,381.94	168.23	9.215	
14,500.00	6,929.99	14,504.13	6,934.14	85.23	85.17	90.15	1,022.09	-6,334.02	1,550.55	1,380.18	170.37	9.101	
14,600.00	6,928.32	14,604.13	6,932.72	86.30	86.24	90.16	1,023.91	-6,433.99	1,550.93	1,378.42	172.51	8.990	
14,700.00	6,926.65	14,704.13	6,931.29	87.38	87.31	90.17	1,025.74	-6,533.96	1,551.31	1,376.65	174.66	8.882	
14,800.00	6,924.98	14,804.13	6,929.86	88.45	88.39	90.18	1,027.56	-6,633.93	1,551.69	1,374.88	176.81	8.776	
14,900.00	6,923.31	14,904.13	6,928.44	89.53	89.46	90.19	1,029.38	-6,733.91	1,552.07	1,373.11	178.96	8.673	
15,000.00	6,921.64	15,004.13	6,927.01	90.61	90.54	90.19	1,031.21	-6,833.88	1,552.45	1,371.33	181.12	8.572	
15,100.00	6,919.97	15,104.13	6,925.58	91.69	91.62	90.20	1,033.03	-6,933.85	1,552.83	1,369.56	183.27	8.473	
15,200.00	6,918.30	15,204.13	6,924.15	92.77	92.70	90.21	1,034.85	-7,033.82	1,553.21	1,367.78	185.43	8.376	
15,300.00	6,916.64	15,304.13	6,922.73	93.85	93.78	90.22	1,036.67	-7,133.80	1,553.59	1,366.00	187.59	8.282	
15,400.00	6,914.97	15,404.13	6,921.30	94.93	94.86	90.23	1,038.50	-7,233.77	1,553.97	1,364.22	189.76	8.189	
15,500.00	6,913.30	15,504.12	6,919.87	96.01	95.94	90.24	1,040.32	-7,333.74	1,554.35	1,362.43	191.92	8.099	
15,600.00	6,911.63	15,604.12	6,918.45	97.10	97.03	90.25	1,042.14	-7,433.71	1,554.73	1,360.64	194.09	8.010	
15,700.00	6,909.96	15,704.12	6,917.02	98.18	98.11	90.26	1,043.97	-7,533.68	1,555.11	1,358.85	196.26	7.924	
15,800.00	6,908.29	15,804.12	6,915.59	99.27	99.20	90.27	1,045.79	-7,633.66	1,555.49	1,357.06	198.43	7.839	
15,900.00	6,906.62	15,904.12	6,914.17	100.36	100.28	90.27	1,047.61	-7,733.63	1,555.87	1,355.27	200.60	7.756	
16,000.00	6,904.95	16,004.12	6,912.74	101.44	101.37	90.28	1,049.44	-7,833.60	1,556.25	1,353.48	202.78	7.675	
16,100.00	6,903.28	16,104.12	6,911.31	102.53	102.46	90.29	1,051.26	-7,933.57	1,556.64	1,351.68	204.95	7.595	
16,200.00	6,901.61	16,204.12	6,909.88	103.62	103.55	90.30	1,053.08	-8,033.55	1,557.02	1,349.88	207.13	7.517	
16,300.00	6,899.94	16,304.12	6,908.46	104.71	104.64	90.31	1,054.90	-8,133.52	1,557.40	1,348.09	209.31	7.441	
16,400.00	6,898.28	16,404.12	6,907.03	105.80	105.73	90.32	1,056.73	-8,233.49	1,557.78	1,346.28	211.49	7.366	
16,500.00	6,896.61	16,504.11	6,905.60	106.89	106.82	90.33	1,058.55	-8,333.46	1,558.16	1,344.48	213.68	7.292	
16,600.00	6,894.94	16,604.11	6,904.18	107.99	107.91	90.34	1,060.37	-8,433.43	1,558.54	1,342.68	215.86	7.220	
16,700.00	6,893.27	16,704.11	6,902.75	109.08	109.01	90.34	1,062.20	-8,533.41	1,558.92	1,340.87	218.04	7.150	
16,800.00	6,891.60	16,804.11	6,901.32	110.17	110.10	90.35	1,064.02	-8,633.38	1,559.30	1,339.07	220.23	7.080	
16,900.00	6,889.93	16,904.11	6,899.89	111.27	111.20	90.36	1,065.84	-8,733.35	1,559.68	1,337.26	222.42	7.012	
17,000.00	6,888.26	17,004.11	6,898.47	112.36	112.29	90.37	1,067.67	-8,833.32	1,560.06	1,335.45	224.61	6.946	
17,100.00	6,886.59	17,104.11	6,897.04	113.46	113.39	90.38	1,069.49	-8,933.29	1,560.44	1,333.64	226.80	6.880	
17,200.00	6,884.92	17,204.11	6,895.61	114.56	114.48	90.39	1,071.31	-9,033.27	1,560.82	1,331.83	228.99	6.816	
17,300.00	6,883.25	17,304.11	6,894.19	115.65	115.58	90.40	1,073.13	-9,133.24	1,561.21	1,330.02	231.19	6.753	
17,400.00	6,881.58	17,404.11	6,892.76	116.75	116.68	90.41	1,074.96	-9,233.21	1,561.59	1,328.21	233.38	6.691	
17,500.00	6,879.91	17,504.10	6,891.33	117.85	117.77	90.42	1,076.78	-9,333.18	1,561.97	1,326.39	235.58	6.630	
17,600.00	6,878.25	17,604.10	6,889.90	118.95	118.87	90.42	1,078.60	-9,433.16	1,562.35	1,324.58	237.77	6.571	
17,700.00	6,876.58	17,704.10	6,888.48	120.05	119.97	90.43	1,080.43	-9,533.13	1,562.73	1,322.76	239.97	6.512	
17,800.00	6,874.91	17,804.10	6,887.05	121.15	121.07	90.44	1,082.25	-9,633.10	1,563.11	1,320.94	242.17	6.455	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 (Middle) - 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,854.35	6,874.00	17,858.45	6,886.27	121.75	121.67	90.45	1,083.24	-9,687.44	1,563.32	1,319.96	243.36	6.424	SF

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 (Middle) - Camacho 25-26 State Com 204H - 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	-179.43	-29.90	-0.30	29.90				
100.00	100.00	100.00	100.00	0.25	0.25	-179.43	-29.90	-0.30	29.90	29.40	0.50	59.581	
200.00	200.00	200.00	200.00	0.61	0.61	-179.43	-29.90	-0.30	29.90	28.68	1.22	24.533	
300.00	300.00	300.00	300.00	0.97	0.97	-179.43	-29.90	-0.30	29.90	27.97	1.94	15.447	
400.00	400.00	400.00	400.00	1.33	1.33	-179.43	-29.90	-0.30	29.90	27.25	2.65	11.272	
500.00	500.00	500.00	500.00	1.68	1.68	-179.43	-29.90	-0.30	29.90	26.53	3.37	8.874	
600.00	600.00	600.00	600.00	2.04	2.04	-179.43	-29.90	-0.30	29.90	25.81	4.09	7.317	CC, ES
700.00	699.98	698.85	698.82	2.39	2.38	62.12	-31.78	0.70	30.96	26.19	4.77	6.491	
800.00	799.84	797.58	797.34	2.73	2.71	64.47	-37.42	3.68	34.18	28.75	5.43	6.293	
900.00	899.45	896.09	895.27	3.08	3.05	67.52	-46.78	8.64	39.63	33.53	6.10	6.499	
1,000.00	998.70	994.27	992.33	3.42	3.39	70.56	-59.80	15.53	47.39	40.62	6.77	7.001	
1,100.00	1,097.47	1,092.02	1,088.25	3.78	3.73	73.21	-76.39	24.32	57.46	50.02	7.44	7.720	
1,200.00	1,195.62	1,189.22	1,182.75	4.14	4.09	75.35	-96.47	34.95	69.84	61.72	8.12	8.596	
1,300.00	1,293.06	1,285.80	1,275.61	4.51	4.45	77.02	-119.90	47.36	84.48	75.67	8.81	9.587	
1,349.92	1,341.38	1,333.75	1,321.27	4.70	4.63	77.70	-132.82	54.20	92.62	83.46	9.15	10.118	
1,400.00	1,389.76	1,381.65	1,366.58	4.89	4.82	78.22	-146.56	61.48	101.42	91.92	9.50	10.675	
1,500.00	1,486.35	1,476.54	1,455.33	5.27	5.20	77.97	-176.24	77.20	121.09	110.91	10.18	11.891	
1,600.00	1,582.95	1,570.18	1,541.47	5.66	5.59	76.64	-208.68	94.38	143.56	132.71	10.85	13.236	
1,700.00	1,679.54	1,662.95	1,625.27	6.05	5.98	74.75	-243.83	112.99	168.90	157.41	11.50	14.693	
1,800.00	1,776.13	1,759.22	1,711.61	6.44	6.41	73.00	-281.45	132.91	195.45	183.24	12.22	15.999	
1,900.00	1,872.73	1,855.48	1,797.95	6.83	6.85	71.67	-319.07	152.84	222.13	209.19	12.95	17.156	
2,000.00	1,969.32	1,951.74	1,884.28	7.23	7.29	70.62	-356.69	172.76	248.90	235.22	13.69	18.186	
2,100.00	2,065.91	2,048.00	1,970.62	7.63	7.74	69.78	-394.30	192.68	275.74	261.30	14.43	19.107	
2,200.00	2,162.50	2,144.26	2,056.96	8.03	8.19	69.08	-431.92	212.60	302.61	287.43	15.18	19.935	
2,300.00	2,259.10	2,240.52	2,143.30	8.43	8.65	68.50	-469.54	232.52	329.52	313.59	15.93	20.681	
2,400.00	2,355.69	2,336.78	2,229.64	8.83	9.11	68.01	-507.16	252.44	356.46	339.77	16.69	21.358	
2,500.00	2,452.28	2,433.05	2,315.97	9.23	9.57	67.59	-544.78	272.36	383.42	365.97	17.45	21.973	
2,600.00	2,548.88	2,529.31	2,402.31	9.64	10.04	67.22	-582.40	292.29	410.40	392.19	18.21	22.535	
2,700.00	2,645.47	2,625.57	2,488.65	10.04	10.51	66.90	-620.01	312.21	437.39	418.41	18.98	23.050	
2,800.00	2,742.06	2,721.83	2,574.99	10.44	10.98	66.61	-657.63	332.13	464.39	444.65	19.74	23.523	
2,900.00	2,838.66	2,818.09	2,661.33	10.85	11.45	66.36	-695.25	352.05	491.40	470.89	20.51	23.960	
3,000.00	2,935.25	2,914.35	2,747.67	11.26	11.93	66.13	-732.87	371.97	518.42	497.14	21.28	24.363	
3,100.00	3,031.84	3,010.61	2,834.00	11.66	12.40	65.93	-770.49	391.89	545.44	523.40	22.05	24.738	
3,200.00	3,128.44	3,106.88	2,920.34	12.07	12.88	65.74	-808.10	411.81	572.48	549.66	22.82	25.086	
3,300.00	3,225.03	3,203.14	3,006.68	12.47	13.36	65.57	-845.72	431.74	599.51	575.92	23.59	25.410	
3,400.00	3,321.62	3,299.40	3,093.02	12.88	13.84	65.42	-883.34	451.66	626.55	602.19	24.37	25.713	
3,500.00	3,418.22	3,395.66	3,179.36	13.29	14.31	65.28	-920.96	471.58	653.60	628.46	25.14	25.997	
3,600.00	3,514.81	3,491.92	3,265.69	13.70	14.79	65.15	-958.58	491.50	680.65	654.73	25.92	26.263	
3,700.00	3,611.40	3,588.18	3,352.03	14.10	15.28	65.03	-996.19	511.42	707.70	681.01	26.69	26.513	
3,800.00	3,708.00	3,684.44	3,438.37	14.51	15.76	64.91	-1,033.81	531.34	734.75	707.28	27.47	26.748	
3,900.00	3,804.59	3,780.71	3,524.71	14.92	16.24	64.81	-1,071.43	551.26	761.81	733.56	28.25	26.970	
4,000.00	3,901.18	3,876.97	3,611.05	15.33	16.72	64.71	-1,109.05	571.19	788.87	759.84	29.02	27.179	
4,100.00	3,997.78	3,973.23	3,697.39	15.74	17.20	64.62	-1,146.67	591.11	815.93	786.12	29.80	27.378	
4,200.00	4,094.37	4,069.49	3,783.72	16.15	17.69	64.54	-1,184.28	611.03	842.99	812.41	30.58	27.565	
4,300.00	4,190.96	4,165.75	3,870.06	16.55	18.17	64.46	-1,221.90	630.95	870.05	838.69	31.36	27.743	
4,400.00	4,287.56	4,262.01	3,956.40	16.96	18.66	64.39	-1,259.52	650.87	897.12	864.98	32.14	27.912	
4,500.00	4,384.15	4,358.27	4,042.74	17.37	19.14	64.32	-1,297.14	670.79	924.18	891.26	32.92	28.073	
4,600.00	4,480.74	4,454.54	4,129.08	17.78	19.63	64.25	-1,334.76	690.71	951.25	917.55	33.70	28.226	
4,700.00	4,577.34	4,550.80	4,215.41	18.19	20.11	64.19	-1,372.38	710.64	978.32	943.84	34.48	28.372	
4,800.00	4,673.93	4,647.06	4,301.75	18.60	20.60	64.13	-1,409.99	730.56	1,005.39	970.13	35.26	28.511	
4,900.00	4,770.52	4,743.32	4,388.09	19.01	21.08	64.07	-1,447.61	750.48	1,032.46	996.42	36.04	28.644	
5,000.00	4,867.12	4,839.58	4,474.43	19.42	21.57	64.02	-1,485.23	770.40	1,059.53	1,022.71	36.83	28.771	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 (Middle) - 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,963.71	4,935.84	4,560.77	19.83	22.05	63.97	-1,522.85	790.32	1,086.61	1,049.00	37.61	28.893	
5,200.00	5,060.30	5,032.10	4,647.11	20.24	22.54	63.92	-1,560.47	810.24	1,113.68	1,075.29	38.39	29.009	
5,300.00	5,156.90	5,128.37	4,733.44	20.65	23.03	63.88	-1,598.08	830.16	1,140.75	1,101.58	39.17	29.121	
5,400.00	5,253.49	5,224.63	4,819.78	21.06	23.51	63.83	-1,635.70	850.09	1,167.83	1,127.87	39.96	29.228	
5,500.00	5,350.08	5,320.89	4,906.12	21.47	24.00	63.79	-1,673.32	870.01	1,194.90	1,154.16	40.74	29.331	
5,600.00	5,446.68	5,417.15	4,992.46	21.88	24.49	63.75	-1,710.94	889.93	1,221.98	1,180.46	41.52	29.429	
5,612.36	5,458.62	5,429.05	5,003.13	21.93	24.55	63.75	-1,715.59	892.39	1,225.32	1,183.70	41.62	29.441	
5,700.00	5,543.60	5,513.23	5,078.63	22.28	24.97	64.11	-1,748.48	909.81	1,249.62	1,207.33	42.30	29.545	
5,800.00	5,641.32	5,608.76	5,164.32	22.68	25.46	64.42	-1,785.82	929.58	1,278.73	1,235.69	43.04	29.710	
5,900.00	5,739.72	5,703.63	5,249.41	23.06	25.94	64.64	-1,822.89	949.22	1,309.31	1,265.55	43.75	29.924	
6,000.00	5,838.69	5,797.73	5,333.80	23.43	26.41	64.76	-1,859.66	968.69	1,341.37	1,296.93	44.44	30.184	
6,100.00	5,938.09	5,890.93	5,417.40	23.79	26.89	64.80	-1,896.09	987.98	1,374.96	1,329.86	45.10	30.489	
6,200.00	6,037.81	6,000.19	5,515.50	24.13	27.44	64.64	-1,938.61	1,010.50	1,410.01	1,364.14	45.88	30.735	
6,300.00	6,137.73	6,202.40	5,701.69	24.46	28.40	63.79	-2,008.16	1,047.33	1,442.14	1,394.81	47.32	30.475	
6,362.28	6,200.00	6,334.01	5,826.30	24.66	28.98	-177.38	-2,045.52	1,067.11	1,459.25	1,411.13	48.12	30.324	
6,400.00	6,237.72	6,415.83	5,904.92	24.78	29.32	-177.84	-2,065.53	1,077.71	1,468.36	1,419.80	48.56	30.236	
6,500.00	6,337.72	6,640.00	6,123.90	25.08	30.16	-178.77	-2,107.54	1,099.96	1,486.94	1,437.37	49.56	30.002	
6,600.00	6,437.72	6,871.68	6,353.97	25.38	30.92	-179.26	-2,130.88	1,112.32	1,496.95	1,446.69	50.27	29.780	
6,700.00	6,537.72	7,055.53	6,537.72	25.69	31.43	-179.35	-2,135.00	1,114.50	1,498.70	1,447.93	50.77	29.520	
6,731.88	6,569.60	7,087.41	6,569.60	25.79	31.50	-179.35	-2,135.00	1,114.50	1,498.70	1,447.74	50.96	29.409	
6,750.00	6,587.72	7,105.61	6,587.81	25.84	31.55	-90.18	-2,135.00	1,114.41	1,498.70	1,447.63	51.06	29.349	
6,775.00	6,612.66	7,130.87	6,613.03	25.91	31.60	-90.20	-2,134.98	1,113.25	1,498.70	1,447.50	51.20	29.271	
6,800.00	6,637.49	7,156.15	6,638.18	25.98	31.66	-90.22	-2,134.95	1,110.76	1,498.70	1,447.37	51.33	29.196	
6,825.00	6,662.13	7,181.45	6,663.19	26.05	31.72	-90.23	-2,134.89	1,106.94	1,498.70	1,447.25	51.46	29.125	
6,850.00	6,686.52	7,206.77	6,687.99	26.11	31.77	-90.25	-2,134.82	1,101.79	1,498.71	1,447.13	51.58	29.057	
6,875.00	6,710.59	7,232.12	6,712.49	26.17	31.82	-90.26	-2,134.72	1,095.33	1,498.71	1,447.02	51.69	28.993	
6,900.00	6,734.27	7,257.49	6,736.64	26.23	31.87	-90.28	-2,134.61	1,087.57	1,498.71	1,446.91	51.80	28.932	
6,925.00	6,757.50	7,282.88	6,760.37	26.29	31.91	-90.29	-2,134.48	1,078.54	1,498.71	1,446.81	51.91	28.873	
6,950.00	6,780.21	7,308.29	6,783.59	26.34	31.95	-90.31	-2,134.34	1,068.24	1,498.72	1,446.71	52.01	28.818	
6,975.00	6,802.35	7,333.71	6,806.25	26.39	31.99	-90.32	-2,134.17	1,056.72	1,498.72	1,446.62	52.10	28.765	
7,000.00	6,823.85	7,359.15	6,828.28	26.44	32.03	-90.33	-2,133.99	1,044.00	1,498.72	1,446.53	52.19	28.715	
7,025.00	6,844.65	7,384.61	6,849.61	26.49	32.06	-90.34	-2,133.79	1,030.11	1,498.72	1,446.44	52.28	28.667	
7,050.00	6,864.70	7,410.08	6,870.19	26.53	32.09	-90.35	-2,133.57	1,015.10	1,498.73	1,446.36	52.36	28.621	
7,075.00	6,883.94	7,435.57	6,889.94	26.58	32.12	-90.36	-2,133.34	999.01	1,498.73	1,446.29	52.44	28.578	
7,100.00	6,902.32	7,461.06	6,908.81	26.62	32.14	-90.36	-2,133.10	981.87	1,498.73	1,446.21	52.52	28.536	
7,125.00	6,919.79	7,486.57	6,926.76	26.65	32.16	-90.37	-2,132.84	963.75	1,498.74	1,446.14	52.59	28.496	
7,150.00	6,936.29	7,512.08	6,943.71	26.69	32.18	-90.37	-2,132.56	944.69	1,498.74	1,446.07	52.66	28.458	
7,175.00	6,951.79	7,537.60	6,959.62	26.72	32.20	-90.38	-2,132.28	924.74	1,498.74	1,446.01	52.73	28.421	
7,200.00	6,966.25	7,563.13	6,974.45	26.75	32.21	-90.38	-2,131.98	903.97	1,498.74	1,445.94	52.80	28.385	
7,225.00	6,979.61	7,588.66	6,988.15	26.78	32.22	-90.38	-2,131.67	882.43	1,498.74	1,445.88	52.86	28.351	
7,250.00	6,991.86	7,614.19	7,000.68	26.81	32.22	-90.38	-2,131.35	860.19	1,498.75	1,445.82	52.93	28.318	
7,275.00	7,002.94	7,639.73	7,012.00	26.84	32.22	-90.38	-2,131.02	837.31	1,498.75	1,445.76	52.99	28.285	
7,300.00	7,012.84	7,665.26	7,022.09	26.86	32.22	-90.38	-2,130.69	813.86	1,498.75	1,445.71	53.05	28.254	
7,325.00	7,021.52	7,690.79	7,030.90	26.88	32.22	-90.38	-2,130.34	789.90	1,498.75	1,445.65	53.10	28.224	
7,350.00	7,028.97	7,716.32	7,038.42	26.90	32.22	-90.38	-2,129.99	765.52	1,498.75	1,445.60	53.16	28.195	
7,375.00	7,035.15	7,741.84	7,044.63	26.92	32.21	-90.37	-2,129.64	740.77	1,498.76	1,445.55	53.21	28.167	
7,400.00	7,040.06	7,767.36	7,049.50	26.94	32.20	-90.37	-2,129.28	715.73	1,498.76	1,445.50	53.26	28.141	
7,425.00	7,043.68	7,792.86	7,053.03	26.95	32.19	-90.36	-2,128.92	690.47	1,498.76	1,445.45	53.31	28.116	
7,450.00	7,046.00	7,818.36	7,055.20	26.96	32.17	-90.35	-2,128.55	665.07	1,498.76	1,445.41	53.35	28.092	
7,475.00	7,047.01	7,843.84	7,056.02	26.97	32.16	-90.34	-2,128.19	639.61	1,498.76	1,445.37	53.39	28.070	
7,489.85	7,047.00	7,858.83	7,055.92	26.98	32.15	-90.34	-2,127.97	624.62	1,498.76	1,445.34	53.42	28.058	
7,500.00	7,046.83	7,868.98	7,055.82	26.98	32.15	-90.34	-2,127.82	614.47	1,498.76	1,445.33	53.43	28.049	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 (Middle) - 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,600.00	7,045.16	7,968.98	7,054.82	27.05	32.10	-90.37	-2,126.39	514.49	1,498.78	1,445.12	53.65	27.935	
7,700.00	7,043.49	8,068.98	7,053.81	27.15	32.05	-90.39	-2,124.95	414.51	1,498.79	1,444.83	53.96	27.774	
7,800.00	7,041.82	8,168.98	7,052.81	27.31	32.02	-90.42	-2,123.52	314.52	1,498.80	1,444.44	54.36	27.570	
7,900.00	7,040.15	8,268.97	7,051.80	27.51	31.99	-90.45	-2,122.09	214.54	1,498.82	1,443.96	54.86	27.323	
8,000.00	7,038.48	8,368.97	7,050.80	27.76	31.98	-90.47	-2,120.65	114.56	1,498.83	1,443.40	55.43	27.038	
8,100.00	7,036.81	8,468.97	7,049.80	28.06	31.97	-90.50	-2,119.22	14.58	1,498.84	1,442.75	56.10	26.719	
8,200.00	7,035.14	8,568.97	7,048.79	28.40	31.98	-90.52	-2,117.78	-85.40	1,498.86	1,442.02	56.84	26.369	
8,300.00	7,033.48	8,668.96	7,047.79	28.79	32.00	-90.55	-2,116.35	-185.39	1,498.87	1,441.21	57.66	25.993	
8,400.00	7,031.81	8,768.96	7,046.78	29.22	32.04	-90.57	-2,114.91	-285.37	1,498.89	1,440.33	58.56	25.595	
8,500.00	7,030.14	8,868.96	7,045.78	29.70	32.12	-90.60	-2,113.48	-385.35	1,498.91	1,439.37	59.53	25.178	
8,600.00	7,028.47	8,968.96	7,044.78	30.21	32.23	-90.62	-2,112.04	-485.33	1,498.92	1,438.35	60.57	24.747	
8,700.00	7,026.80	9,068.96	7,043.77	30.75	32.39	-90.65	-2,110.61	-585.32	1,498.94	1,437.27	61.67	24.305	
8,800.00	7,025.13	9,168.95	7,042.77	31.33	32.63	-90.67	-2,109.17	-685.30	1,498.95	1,436.12	62.84	23.855	
8,900.00	7,023.46	9,268.95	7,041.76	31.94	32.96	-90.70	-2,107.74	-785.28	1,498.97	1,434.91	64.06	23.400	
9,000.00	7,021.79	9,368.95	7,040.76	32.58	33.38	-90.73	-2,106.30	-885.26	1,498.99	1,433.65	65.34	22.943	
9,100.00	7,020.12	9,468.95	7,039.76	33.25	33.89	-90.75	-2,104.87	-985.25	1,499.01	1,432.34	66.67	22.486	
9,200.00	7,018.45	9,568.94	7,038.75	33.94	34.47	-90.78	-2,103.43	-1,085.23	1,499.02	1,430.98	68.04	22.031	
9,300.00	7,016.78	9,668.94	7,037.75	34.66	35.10	-90.80	-2,102.00	-1,185.21	1,499.04	1,429.58	69.47	21.580	
9,400.00	7,015.11	9,768.94	7,036.74	35.39	35.78	-90.83	-2,100.56	-1,285.19	1,499.06	1,428.13	70.93	21.134	
9,500.00	7,013.45	9,868.94	7,035.74	36.15	36.50	-90.85	-2,099.13	-1,385.18	1,499.08	1,426.64	72.44	20.695	
9,600.00	7,011.78	9,968.94	7,034.74	36.93	37.24	-90.88	-2,097.69	-1,485.16	1,499.10	1,425.12	73.98	20.263	
9,700.00	7,010.11	10,068.93	7,033.73	37.72	38.01	-90.90	-2,096.26	-1,585.14	1,499.12	1,423.55	75.56	19.839	
9,800.00	7,008.44	10,168.93	7,032.73	38.54	38.80	-90.93	-2,094.82	-1,685.12	1,499.14	1,421.96	77.18	19.425	
9,900.00	7,006.77	10,268.93	7,031.72	39.36	39.62	-90.95	-2,093.39	-1,785.11	1,499.16	1,420.34	78.82	19.020	
10,000.00	7,005.10	10,368.93	7,030.72	40.20	40.44	-90.98	-2,091.96	-1,885.09	1,499.18	1,418.68	80.49	18.625	
10,100.00	7,003.43	10,468.92	7,029.72	41.06	41.29	-91.00	-2,090.52	-1,985.07	1,499.20	1,417.00	82.20	18.239	
10,200.00	7,001.76	10,568.92	7,028.71	41.93	42.15	-91.03	-2,089.09	-2,085.05	1,499.22	1,415.29	83.92	17.864	
10,300.00	7,000.09	10,668.92	7,027.71	42.81	43.02	-91.06	-2,087.65	-2,185.04	1,499.24	1,413.56	85.68	17.499	
10,400.00	6,998.42	10,768.92	7,026.70	43.70	43.91	-91.08	-2,086.22	-2,285.02	1,499.26	1,411.81	87.45	17.144	
10,500.00	6,996.75	10,868.92	7,025.70	44.61	44.80	-91.11	-2,084.78	-2,385.00	1,499.28	1,410.03	89.25	16.799	
10,600.00	6,995.08	10,968.91	7,024.70	45.52	45.71	-91.13	-2,083.35	-2,484.98	1,499.30	1,408.24	91.06	16.464	
10,700.00	6,993.42	11,068.91	7,023.69	46.44	46.63	-91.16	-2,081.91	-2,584.97	1,499.33	1,406.43	92.90	16.139	
10,800.00	6,991.75	11,168.91	7,022.69	47.37	47.56	-91.18	-2,080.48	-2,684.95	1,499.35	1,404.59	94.75	15.824	
10,900.00	6,990.08	11,268.91	7,021.68	48.31	48.49	-91.21	-2,079.04	-2,784.93	1,499.37	1,402.75	96.62	15.518	
11,000.00	6,988.41	11,368.90	7,020.68	49.26	49.43	-91.23	-2,077.61	-2,884.91	1,499.39	1,400.88	98.51	15.221	
11,100.00	6,986.74	11,468.90	7,019.68	50.22	50.39	-91.26	-2,076.17	-2,984.90	1,499.42	1,399.01	100.41	14.933	
11,200.00	6,985.07	11,568.90	7,018.67	51.18	51.34	-91.28	-2,074.74	-3,084.88	1,499.44	1,397.11	102.33	14.653	
11,300.00	6,983.40	11,668.90	7,017.67	52.15	52.31	-91.31	-2,073.30	-3,184.86	1,499.46	1,395.21	104.26	14.383	
11,400.00	6,981.73	11,768.90	7,016.66	53.12	53.28	-91.33	-2,071.87	-3,284.84	1,499.49	1,393.29	106.20	14.120	
11,500.00	6,980.06	11,868.89	7,015.66	54.10	54.26	-91.36	-2,070.43	-3,384.83	1,499.51	1,391.36	108.15	13.865	
11,600.00	6,978.39	11,968.89	7,014.66	55.09	55.24	-91.39	-2,069.00	-3,484.81	1,499.54	1,389.42	110.12	13.618	
11,700.00	6,976.72	12,068.89	7,013.65	56.08	56.23	-91.41	-2,067.56	-3,584.79	1,499.56	1,387.47	112.09	13.378	
11,800.00	6,975.06	12,168.89	7,012.65	57.08	57.22	-91.44	-2,066.13	-3,684.77	1,499.59	1,385.51	114.08	13.145	
11,900.00	6,973.39	12,268.88	7,011.64	58.08	58.22	-91.46	-2,064.69	-3,784.76	1,499.61	1,383.54	116.07	12.919	
12,000.00	6,971.72	12,368.88	7,010.64	59.09	59.23	-91.49	-2,063.26	-3,884.74	1,499.64	1,381.56	118.08	12.700	
12,100.00	6,970.05	12,468.88	7,009.64	60.10	60.23	-91.51	-2,061.82	-3,984.72	1,499.67	1,379.57	120.09	12.487	
12,200.00	6,968.38	12,568.88	7,008.63	61.11	61.24	-91.54	-2,060.39	-4,084.70	1,499.69	1,377.58	122.12	12.281	
12,300.00	6,966.71	12,668.88	7,007.63	62.13	62.26	-91.56	-2,058.96	-4,184.69	1,499.72	1,375.57	124.15	12.080	
12,400.00	6,965.04	12,768.87	7,006.62	63.15	63.28	-91.59	-2,057.52	-4,284.67	1,499.75	1,373.56	126.18	11.886	
12,500.00	6,963.37	12,868.87	7,005.62	64.18	64.30	-91.61	-2,056.09	-4,384.65	1,499.77	1,371.55	128.23	11.696	
12,600.00	6,961.70	12,968.87	7,004.62	65.21	65.33	-91.64	-2,054.65	-4,484.63	1,499.80	1,369.52	130.28	11.512	
12,700.00	6,960.03	13,068.87	7,003.61	66.24	66.36	-91.66	-2,053.22	-4,584.62	1,499.83	1,367.49	132.34	11.334	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 (Middle) - 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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,800.00	6,958.36	13,168.86	7,002.61	67.27	67.39	-91.69	-2,051.78	-4,684.60	1,499.86	1,365.46	134.40	11.160	
12,900.00	6,956.69	13,268.86	7,001.60	68.31	68.43	-91.72	-2,050.35	-4,784.58	1,499.89	1,363.42	136.47	10.991	
13,000.00	6,955.03	13,368.86	7,000.60	69.35	69.47	-91.74	-2,048.91	-4,884.56	1,499.92	1,361.37	138.54	10.826	
13,100.00	6,953.36	13,468.86	6,999.60	70.40	70.51	-91.77	-2,047.48	-4,984.55	1,499.95	1,359.32	140.63	10.666	
13,200.00	6,951.69	13,568.86	6,998.59	71.44	71.55	-91.79	-2,046.04	-5,084.53	1,499.97	1,357.26	142.71	10.511	
13,300.00	6,950.02	13,668.85	6,997.59	72.49	72.60	-91.82	-2,044.61	-5,184.51	1,500.00	1,355.20	144.80	10.359	
13,400.00	6,948.35	13,768.85	6,996.58	73.54	73.65	-91.84	-2,043.17	-5,284.49	1,500.03	1,353.14	146.90	10.211	
13,500.00	6,946.68	13,868.85	6,995.58	74.60	74.70	-91.87	-2,041.74	-5,384.48	1,500.07	1,351.07	149.00	10.068	
13,600.00	6,945.01	13,968.85	6,994.58	75.65	75.75	-91.89	-2,040.30	-5,484.46	1,500.10	1,348.99	151.10	9.928	
13,700.00	6,943.34	14,068.84	6,993.57	76.71	76.81	-91.92	-2,038.87	-5,584.44	1,500.13	1,346.92	153.21	9.791	
13,800.00	6,941.67	14,168.84	6,992.57	77.77	77.86	-91.94	-2,037.43	-5,684.42	1,500.16	1,344.84	155.32	9.658	
13,900.00	6,940.00	14,268.84	6,991.56	78.83	78.92	-91.97	-2,036.00	-5,784.40	1,500.19	1,342.75	157.44	9.529	
14,000.00	6,938.33	14,368.84	6,990.56	79.89	79.98	-91.99	-2,034.56	-5,884.39	1,500.22	1,340.66	159.56	9.402	
14,100.00	6,936.67	14,468.84	6,989.55	80.96	81.05	-92.02	-2,033.13	-5,984.37	1,500.25	1,338.57	161.68	9.279	
14,200.00	6,935.00	14,568.83	6,988.55	82.02	82.11	-92.05	-2,031.69	-6,084.35	1,500.29	1,336.48	163.81	9.159	
14,300.00	6,933.33	14,668.83	6,987.55	83.09	83.18	-92.07	-2,030.26	-6,184.33	1,500.32	1,334.38	165.94	9.041	
14,400.00	6,931.66	14,768.83	6,986.54	84.16	84.24	-92.10	-2,028.82	-6,284.32	1,500.35	1,332.28	168.07	8.927	
14,500.00	6,929.99	14,868.83	6,985.54	85.23	85.31	-92.12	-2,027.39	-6,384.30	1,500.39	1,330.18	170.21	8.815	
14,600.00	6,928.32	14,968.82	6,984.53	86.30	86.38	-92.15	-2,025.96	-6,484.28	1,500.42	1,328.07	172.34	8.706	
14,700.00	6,926.65	15,068.82	6,983.53	87.38	87.46	-92.17	-2,024.52	-6,584.26	1,500.45	1,325.97	174.49	8.599	
14,800.00	6,924.98	15,168.82	6,982.53	88.45	88.53	-92.20	-2,023.09	-6,684.25	1,500.49	1,323.86	176.63	8.495	
14,900.00	6,923.31	15,268.82	6,981.52	89.53	89.60	-92.22	-2,021.65	-6,784.23	1,500.52	1,321.75	178.78	8.393	
15,000.00	6,921.64	15,368.82	6,980.52	90.61	90.68	-92.25	-2,020.22	-6,884.21	1,500.56	1,319.63	180.93	8.294	
15,100.00	6,919.97	15,468.81	6,979.51	91.69	91.76	-92.27	-2,018.78	-6,984.19	1,500.59	1,317.52	183.08	8.197	
15,200.00	6,918.30	15,568.81	6,978.51	92.77	92.83	-92.30	-2,017.35	-7,084.18	1,500.63	1,315.40	185.23	8.101	
15,300.00	6,916.64	15,668.81	6,977.51	93.85	93.91	-92.32	-2,015.91	-7,184.16	1,500.66	1,313.28	187.39	8.008	
15,400.00	6,914.97	15,768.81	6,976.50	94.93	94.99	-92.35	-2,014.48	-7,284.14	1,500.70	1,311.15	189.54	7.917	
15,500.00	6,913.30	15,868.80	6,975.50	96.01	96.08	-92.38	-2,013.04	-7,384.12	1,500.74	1,309.03	191.70	7.828	
15,600.00	6,911.63	15,968.80	6,974.49	97.10	97.16	-92.40	-2,011.61	-7,484.11	1,500.77	1,306.91	193.87	7.741	
15,700.00	6,909.96	16,068.80	6,973.49	98.18	98.24	-92.43	-2,010.17	-7,584.09	1,500.81	1,304.78	196.03	7.656	
15,800.00	6,908.29	16,168.80	6,972.49	99.27	99.33	-92.45	-2,008.74	-7,684.07	1,500.85	1,302.65	198.20	7.573	
15,900.00	6,906.62	16,268.80	6,971.48	100.36	100.41	-92.48	-2,007.30	-7,784.05	1,500.88	1,300.52	200.36	7.491	
16,000.00	6,904.95	16,368.79	6,970.48	101.44	101.50	-92.50	-2,005.87	-7,884.04	1,500.92	1,298.39	202.53	7.411	
16,100.00	6,903.28	16,468.79	6,969.47	102.53	102.59	-92.53	-2,004.43	-7,984.02	1,500.96	1,296.26	204.70	7.332	
16,200.00	6,901.61	16,568.79	6,968.47	103.62	103.67	-92.55	-2,003.00	-8,084.00	1,501.00	1,294.12	206.87	7.256	
16,300.00	6,899.94	16,668.79	6,967.47	104.71	104.76	-92.58	-2,001.56	-8,183.98	1,501.04	1,291.99	209.05	7.180	
16,400.00	6,898.28	16,768.78	6,966.46	105.80	105.85	-92.60	-2,000.13	-8,283.97	1,501.08	1,289.85	211.22	7.107	
16,500.00	6,896.61	16,868.78	6,965.46	106.89	106.94	-92.63	-1,998.69	-8,383.95	1,501.11	1,287.71	213.40	7.034	
16,600.00	6,894.94	16,968.78	6,964.45	107.99	108.03	-92.65	-1,997.26	-8,483.93	1,501.15	1,285.57	215.58	6.963	
16,700.00	6,893.27	17,068.78	6,963.45	109.08	109.13	-92.68	-1,995.83	-8,583.91	1,501.19	1,283.44	217.76	6.894	
16,800.00	6,891.60	17,168.78	6,962.45	110.17	110.22	-92.70	-1,994.39	-8,683.90	1,501.23	1,281.29	219.94	6.826	
16,900.00	6,889.93	17,268.77	6,961.44	111.27	111.31	-92.73	-1,992.96	-8,783.88	1,501.27	1,279.15	222.12	6.759	
17,000.00	6,888.26	17,368.77	6,960.44	112.36	112.41	-92.76	-1,991.52	-8,883.86	1,501.31	1,277.01	224.30	6.693	
17,100.00	6,886.59	17,468.77	6,959.43	113.46	113.50	-92.78	-1,990.09	-8,983.84	1,501.36	1,274.87	226.49	6.629	
17,200.00	6,884.92	17,568.77	6,958.43	114.56	114.60	-92.81	-1,988.65	-9,083.83	1,501.40	1,272.72	228.67	6.566	
17,300.00	6,883.25	17,668.77	6,957.43	115.65	115.69	-92.83	-1,987.22	-9,183.81	1,501.44	1,270.58	230.86	6.504	
17,400.00	6,881.58	17,768.76	6,956.42	116.75	116.79	-92.86	-1,985.78	-9,283.79	1,501.48	1,268.43	233.05	6.443	
17,500.00	6,879.91	17,868.76	6,955.42	117.85	117.89	-92.88	-1,984.35	-9,383.77	1,501.52	1,266.28	235.24	6.383	
17,600.00	6,878.25	17,968.76	6,954.41	118.95	118.98	-92.91	-1,982.91	-9,483.76	1,501.57	1,264.14	237.43	6.324	
17,700.00	6,876.58	18,068.76	6,953.41	120.05	120.08	-92.93	-1,981.48	-9,583.74	1,501.61	1,261.99	239.62	6.267	
17,800.00	6,874.91	18,168.75	6,952.41	121.15	121.18	-92.96	-1,980.04	-9,683.72	1,501.65	1,259.84	241.81	6.210	
17,800.27	6,874.90	18,169.03	6,952.40	121.15	121.18	-92.96	-1,980.04	-9,683.99	1,501.65	1,259.83	241.82	6.210	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 (Middle) - Camacho 25-26 State Com 204H - 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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,854.35	6,874.00	18,209.14	6,952.00	121.75	121.62	-92.97	-1,979.46	-9,724.10	1,501.74	1,258.87	242.87	6.183	SF

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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

Rule Assigned:

Offset Well Error: 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
13,200.00	6,951.69	7,055.26	7,032.77	71.44	153.13	92.09	1,892.59	-5,502.15	2,480.17	2,256.69	223.48	11.098	
13,300.00	6,950.02	7,052.51	7,030.02	72.49	153.04	92.03	1,892.68	-5,502.15	2,463.04	2,238.22	224.82	10.955	
13,400.00	6,948.35	7,049.76	7,027.27	73.54	152.95	91.97	1,892.77	-5,502.15	2,449.87	2,223.79	226.08	10.836	
13,500.00	6,946.68	7,047.01	7,024.52	74.60	152.85	91.90	1,892.86	-5,502.15	2,440.73	2,213.48	227.25	10.740	
13,600.00	6,945.01	7,044.26	7,021.78	75.65	152.76	91.84	1,892.94	-5,502.15	2,435.66	2,207.34	228.33	10.667	
13,673.60	6,943.78	7,042.24	7,019.76	76.43	152.69	91.79	1,893.01	-5,502.15	2,434.55	2,205.51	229.05	10.629	CC
13,700.00	6,943.34	7,041.51	7,019.03	76.71	152.67	91.77	1,893.03	-5,502.15	2,434.70	2,205.40	229.29	10.618	ES
13,800.00	6,941.67	7,038.77	7,016.29	77.77	152.58	91.71	1,893.11	-5,502.15	2,437.83	2,207.69	230.14	10.593	
13,900.00	6,940.00	7,036.03	7,013.55	78.83	152.49	91.64	1,893.20	-5,502.15	2,445.05	2,214.17	230.88	10.590	SF
14,000.00	6,938.33	7,033.29	7,010.82	79.89	152.39	91.58	1,893.28	-5,502.15	2,456.33	2,224.83	231.49	10.611	
14,100.00	6,936.67	7,030.55	7,008.08	80.96	152.30	91.51	1,893.36	-5,502.15	2,471.60	2,239.61	231.99	10.654	
14,200.00	6,935.00	7,027.82	7,005.35	82.02	152.21	91.45	1,893.44	-5,502.15	2,490.79	2,258.42	232.37	10.719	

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	36.50	0.00	0.00	171.83	-501.68	71.98	508.13				
100.00	100.00	63.50	100.00	0.25	3.18	171.83	-501.68	71.98	506.82	503.39	3.43	147.829	
200.00	200.00	163.50	200.00	0.61	8.18	171.83	-501.68	71.98	506.82	498.03	8.79	57.655	
300.00	300.00	263.50	300.00	0.97	13.18	171.83	-501.68	71.98	506.82	492.66	14.15	35.811	
400.00	400.00	363.50	400.00	1.33	18.19	171.83	-501.68	71.98	506.82	487.30	19.51	25.971	
500.00	500.00	463.50	500.00	1.68	23.19	171.83	-501.68	71.98	506.82	481.94	24.88	20.373	
600.00	600.00	563.50	600.00	2.04	27.59	171.83	-501.68	71.98	506.82	477.18	29.64	17.101	
700.00	699.98	663.48	699.98	2.39	31.65	52.66	-501.68	71.98	505.75	471.72	34.04	14.859	
800.00	799.84	763.34	799.84	2.73	35.70	53.18	-501.68	71.98	502.60	464.17	38.43	13.079	
900.00	899.45	862.95	899.45	3.08	39.74	54.07	-501.68	71.98	497.41	454.60	42.81	11.618	
1,000.00	998.70	962.20	998.70	3.42	43.76	55.33	-501.68	71.98	490.34	443.15	47.19	10.391	
1,100.00	1,097.47	1,060.97	1,097.47	3.78	47.75	56.99	-501.68	71.98	481.55	430.02	51.53	9.346	
1,200.00	1,195.62	1,159.12	1,195.62	4.14	51.70	59.09	-501.68	71.98	471.31	415.48	55.83	8.442	
1,300.00	1,293.06	1,256.56	1,293.06	4.51	55.61	61.65	-501.68	71.98	459.97	399.86	60.11	7.652	
1,349.92	1,341.38	1,304.88	1,341.38	4.70	57.56	63.11	-501.68	71.98	454.03	391.78	62.24	7.295	
1,400.00	1,389.76	1,353.26	1,389.76	4.89	59.50	64.54	-501.68	71.98	448.15	383.77	64.37	6.962	
1,500.00	1,486.35	1,449.85	1,486.35	5.27	63.39	67.52	-501.68	71.98	437.32	368.69	68.64	6.372	
1,600.00	1,582.95	1,546.45	1,582.95	5.66	67.27	70.63	-501.68	71.98	427.80	354.90	72.90	5.868	
1,700.00	1,679.54	1,643.04	1,679.54	6.05	71.14	73.86	-501.68	71.98	419.65	342.48	77.17	5.438	
1,800.00	1,776.13	1,739.63	1,776.13	6.44	75.02	77.20	-501.68	71.98	412.96	331.53	81.44	5.071	
1,900.00	1,872.73	1,836.23	1,872.73	6.83	78.89	80.63	-501.68	71.98	407.81	322.10	85.71	4.758	
2,000.00	1,969.32	1,932.82	1,969.32	7.23	82.77	84.12	-501.68	71.98	404.26	314.27	89.99	4.492	
2,100.00	2,065.91	2,029.41	2,065.91	7.63	86.64	87.67	-501.68	71.98	402.34	308.08	94.26	4.268	
2,165.49	2,129.17	2,092.67	2,129.17	7.89	89.17	90.00	-501.68	71.98	401.98	304.92	97.06	4.141	
2,200.00	2,162.50	2,126.00	2,162.50	8.03	90.51	91.23	-501.68	71.98	402.08	303.55	98.54	4.081	
2,300.00	2,259.10	2,222.60	2,259.10	8.43	94.38	94.78	-501.68	71.98	403.49	300.68	102.81	3.925	
2,400.00	2,355.69	2,319.19	2,355.69	8.83	98.25	98.30	-501.68	71.98	406.54	299.46	107.08	3.797	
2,500.00	2,452.28	2,415.78	2,452.28	9.23	102.12	101.75	-501.68	71.98	411.20	299.86	111.34	3.693	
2,600.00	2,548.88	2,512.38	2,548.88	9.64	105.99	105.12	-501.68	71.98	417.42	301.82	115.60	3.611	
2,700.00	2,645.47	2,608.97	2,645.47	10.04	109.86	108.39	-501.68	71.98	425.12	305.27	119.85	3.547	
2,800.00	2,742.06	2,705.56	2,742.06	10.44	113.73	111.53	-501.68	71.98	434.23	310.13	124.10	3.499	
2,900.00	2,838.66	2,802.16	2,838.66	10.85	117.60	114.55	-501.68	71.98	444.66	316.33	128.34	3.465	
3,000.00	2,935.25	2,898.75	2,935.25	11.26	121.47	117.43	-501.68	71.98	456.32	323.75	132.57	3.442	
3,100.00	3,031.84	2,995.34	3,031.84	11.66	125.33	120.16	-501.68	71.98	469.13	332.32	136.80	3.429	
3,200.00	3,128.44	3,091.94	3,128.44	12.07	129.20	122.75	-501.68	71.98	482.98	341.95	141.03	3.425	
3,300.00	3,225.03	3,188.53	3,225.03	12.47	133.07	125.20	-501.68	71.98	497.79	352.54	145.25	3.427	
3,400.00	3,321.62	3,285.12	3,321.62	12.88	136.94	127.51	-501.68	71.98	513.48	364.01	149.47	3.435	
3,500.00	3,418.22	3,381.72	3,418.22	13.29	140.80	129.69	-501.68	71.98	529.97	376.28	153.68	3.448	
3,600.00	3,514.81	3,478.31	3,514.81	13.70	144.67	131.73	-501.68	71.98	547.18	389.28	157.90	3.465	
3,700.00	3,611.40	3,574.90	3,611.40	14.10	148.54	133.66	-501.68	71.98	565.06	402.95	162.11	3.486	
3,800.00	3,708.00	3,671.50	3,708.00	14.51	152.40	135.47	-501.68	71.98	583.54	417.22	166.32	3.508	
3,900.00	3,804.59	3,768.09	3,804.59	14.92	156.27	137.17	-501.68	71.98	602.56	432.03	170.53	3.533	
4,000.00	3,901.18	3,864.68	3,901.18	15.33	160.14	138.76	-501.68	71.98	622.08	447.34	174.74	3.560	
4,100.00	3,997.78	3,961.28	3,997.78	15.74	164.00	140.26	-501.68	71.98	642.05	463.10	178.95	3.588	
4,200.00	4,094.37	4,057.87	4,094.37	16.15	167.87	141.68	-501.68	71.98	662.43	479.26	183.16	3.617	
4,300.00	4,190.96	4,154.46	4,190.96	16.55	171.73	143.01	-501.68	71.98	683.18	495.81	187.37	3.646	
4,400.00	4,287.56	4,251.06	4,287.56	16.96	175.60	144.26	-501.68	71.98	704.27	512.69	191.58	3.676	
4,500.00	4,384.15	4,347.65	4,384.15	17.37	179.46	145.44	-501.68	71.98	725.67	529.88	195.79	3.706	
4,600.00	4,480.74	4,444.24	4,480.74	17.78	183.33	146.55	-501.68	71.98	747.35	547.35	200.00	3.737	
4,700.00	4,577.34	4,540.84	4,577.34	18.19	187.20	147.61	-501.68	71.98	769.29	565.08	204.21	3.767	
4,800.00	4,673.93	4,637.43	4,673.93	18.60	191.06	148.60	-501.68	71.98	791.47	583.05	208.42	3.798	
4,900.00	4,770.52	4,734.02	4,770.52	19.01	194.93	149.54	-501.68	71.98	813.87	601.24	212.63	3.828	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,867.12	4,830.62	4,867.12	19.42	198.79	150.43	-501.68	71.98	836.47	619.63	216.84	3.858	
5,100.00	4,963.71	4,927.21	4,963.71	19.83	202.66	151.28	-501.68	71.98	859.26	638.21	221.05	3.887	
5,200.00	5,060.30	5,023.80	5,060.30	20.24	206.52	152.08	-501.68	71.98	882.21	656.95	225.26	3.916	
5,300.00	5,156.90	5,120.40	5,156.90	20.65	210.39	152.84	-501.68	71.98	905.33	675.85	229.47	3.945	
5,400.00	5,253.49	5,216.99	5,253.49	21.06	214.25	153.56	-501.68	71.98	928.59	694.90	233.68	3.974	
5,500.00	5,350.08	5,313.58	5,350.08	21.47	218.12	154.25	-501.68	71.98	951.98	714.08	237.90	4.002	
5,600.00	5,446.68	5,410.18	5,446.68	21.88	221.98	154.91	-501.68	71.98	975.50	733.39	242.11	4.029	
5,612.36	5,458.62	5,422.12	5,458.62	21.93	222.46	154.99	-501.68	71.98	978.42	735.78	242.63	4.033	
5,700.00	5,543.60	5,507.10	5,543.60	22.28	225.86	155.67	-501.68	71.98	997.95	751.61	246.34	4.051	
5,800.00	5,641.32	5,604.82	5,641.32	22.68	229.77	156.32	-501.68	71.98	1,017.40	766.80	250.59	4.060	
5,900.00	5,739.72	5,703.22	5,739.72	23.06	233.71	156.85	-501.68	71.98	1,033.76	778.88	254.88	4.056	
6,000.00	5,838.69	5,802.19	5,838.69	23.43	237.67	157.26	-501.68	71.98	1,046.99	787.80	259.19	4.039	
6,100.00	5,938.09	5,901.59	5,938.09	23.79	241.64	157.56	-501.68	71.98	1,057.04	793.53	263.51	4.011	
6,200.00	6,037.81	6,001.31	6,037.81	24.13	245.63	157.77	-501.68	71.98	1,063.89	796.04	267.85	3.972	
6,300.00	6,137.73	6,101.23	6,137.73	24.46	249.63	157.87	-501.68	71.98	1,067.52	795.33	272.19	3.922	
6,362.28	6,200.00	6,163.50	6,200.00	24.66	252.12	-82.75	-501.68	71.98	1,068.15	793.26	274.89	3.886	
6,400.00	6,237.72	6,201.22	6,237.72	24.78	253.63	-82.75	-501.68	71.98	1,068.15	791.63	276.51	3.863	
6,500.00	6,337.72	6,301.22	6,337.72	25.08	257.63	-82.75	-501.68	71.98	1,068.15	787.31	280.83	3.804	
6,600.00	6,437.72	6,401.22	6,437.72	25.38	261.64	-82.75	-501.68	71.98	1,068.15	782.99	285.15	3.746	
6,700.00	6,537.72	6,501.22	6,537.72	25.69	265.64	-82.75	-501.68	71.98	1,068.15	778.67	289.47	3.690	
6,731.88	6,569.60	6,533.10	6,569.60	25.79	266.91	-82.75	-501.68	71.98	1,068.15	777.30	290.85	3.673	
6,750.00	6,587.72	6,551.22	6,587.72	25.84	267.64	6.43	-501.68	71.98	1,067.80	776.17	291.63	3.661	
6,775.00	6,612.66	6,576.16	6,612.66	25.91	268.63	6.46	-501.68	71.98	1,066.21	773.51	292.70	3.643	
6,800.00	6,637.49	6,600.99	6,637.49	25.98	269.63	6.51	-501.68	71.98	1,063.33	769.55	293.77	3.620	
6,825.00	6,662.13	6,625.63	6,662.13	26.05	270.61	6.60	-501.68	71.98	1,059.15	764.32	294.83	3.592	
6,850.00	6,686.52	6,650.02	6,686.52	26.11	271.59	6.71	-501.68	71.98	1,053.70	757.83	295.87	3.561	
6,875.00	6,710.59	6,674.09	6,710.59	26.17	272.55	6.85	-501.68	71.98	1,046.99	750.09	296.90	3.526	
6,900.00	6,734.27	6,697.77	6,734.27	26.23	273.50	7.03	-501.68	71.98	1,039.04	741.13	297.91	3.488	
6,925.00	6,757.50	6,721.00	6,757.50	26.29	274.43	7.24	-501.68	71.98	1,029.87	730.97	298.90	3.445	
6,950.00	6,780.21	6,743.71	6,780.21	26.34	275.34	7.49	-501.68	71.98	1,019.51	719.64	299.87	3.400	
6,975.00	6,802.35	6,765.85	6,802.35	26.39	276.22	7.78	-501.68	71.98	1,007.98	707.17	300.81	3.351	
7,000.00	6,823.85	6,787.35	6,823.85	26.44	277.08	8.13	-501.68	71.98	995.31	693.60	301.71	3.299	
7,025.00	6,844.65	6,808.15	6,844.65	26.49	277.92	8.53	-501.68	71.98	981.56	678.97	302.59	3.244	
7,050.00	6,864.70	6,828.20	6,864.70	26.53	278.72	9.00	-501.68	71.98	966.74	663.31	303.43	3.186	
7,075.00	6,883.94	6,847.44	6,883.94	26.58	279.49	9.55	-501.68	71.98	950.90	646.67	304.24	3.126	
7,100.00	6,902.32	6,865.82	6,902.32	26.62	280.22	10.19	-501.68	71.98	934.10	629.09	305.00	3.063	
7,125.00	6,919.79	6,883.29	6,919.79	26.65	280.92	10.94	-501.68	71.98	916.36	610.63	305.73	2.997	
7,150.00	6,936.29	6,899.79	6,936.29	26.69	281.58	11.83	-501.68	71.98	897.76	591.34	306.41	2.930	
7,175.00	6,951.79	6,915.29	6,951.79	26.72	282.20	12.90	-501.68	71.98	878.32	571.27	307.05	2.860	
7,200.00	6,966.25	6,929.75	6,966.25	26.75	282.78	14.17	-501.68	71.98	858.12	550.48	307.65	2.789	
7,225.00	6,979.61	6,943.11	6,979.61	26.78	283.32	15.71	-501.68	71.98	837.21	529.02	308.19	2.717	
7,250.00	6,991.86	6,955.36	6,991.86	26.81	283.81	17.59	-501.68	71.98	815.64	506.96	308.69	2.642	
7,275.00	7,002.94	6,966.44	7,002.94	26.84	284.25	19.93	-501.68	71.98	793.49	484.35	309.14	2.567	
7,300.00	7,012.84	6,976.34	7,012.84	26.86	284.65	22.87	-501.68	71.98	770.80	461.27	309.54	2.490	
7,325.00	7,021.52	6,985.02	7,021.52	26.88	284.99	26.63	-501.68	71.98	747.65	437.77	309.88	2.413	
7,350.00	7,028.97	6,992.47	7,028.97	26.90	285.29	31.51	-501.68	71.98	724.11	413.93	310.18	2.335	
7,375.00	7,035.15	6,998.65	7,035.15	26.92	285.54	37.94	-501.68	71.98	700.23	389.81	310.42	2.256	
7,400.00	7,040.06	7,003.56	7,040.06	26.94	285.73	46.44	-501.68	71.98	676.09	365.48	310.61	2.177	
7,425.00	7,043.68	7,007.18	7,043.68	26.95	285.88	57.47	-501.68	71.98	651.76	341.02	310.75	2.097	
7,450.00	7,046.00	7,009.50	7,046.00	26.96	285.97	71.01	-501.68	71.98	627.31	316.48	310.83	2.018	
7,475.00	7,047.01	7,010.51	7,047.01	26.97	286.01	85.92	-501.68	71.98	602.81	291.95	310.86	1.939	Collision Risk Procedures Req.
7,489.85	7,047.00	7,010.50	7,047.00	26.98	286.01	94.60	-501.68	71.98	588.26	277.41	310.86	1.892	Collision Risk Procedures Req.

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.00	7,046.83	7,010.33	7,046.83	26.98	286.00	94.52	-501.68	71.98	578.33	267.48	310.85	1.860	Collision Risk Procedures Req.
7,600.00	7,045.16	7,008.66	7,045.16	27.05	285.94	93.73	-501.68	71.98	480.94	170.19	310.75	1.548	Collision Risk Procedures Req.
7,700.00	7,043.49	7,006.99	7,043.49	27.15	285.87	92.93	-501.68	71.98	384.89	74.22	310.66	1.239	Collision Risk Procedures Req.
7,800.00	7,041.82	7,005.32	7,041.82	27.31	285.80	92.13	-501.68	71.98	291.49	-19.14	310.63	0.938	Collision Risk Procedures Req.
7,900.00	7,040.15	7,003.65	7,040.15	27.51	285.74	91.33	-501.68	71.98	204.42	-106.41	310.83	0.658	Collision Risk Procedures Req.
8,000.00	7,038.48	7,001.98	7,038.48	27.76	285.67	90.53	-501.68	71.98	136.40	-175.61	312.01	0.437	Collision Risk Procedures Req.
8,065.95	7,037.38	7,000.88	7,037.38	27.95	285.63	90.00	-501.68	71.98	119.41	-193.97	313.38	0.381	Collision Risk Procedures Req., CC, ES
8,100.00	7,036.81	7,000.31	7,036.81	28.06	285.60	89.73	-501.68	71.98	124.17	-189.49	313.66	0.396	Collision Risk Procedures Req.
8,200.00	7,035.14	6,998.64	7,035.14	28.40	285.54	88.93	-501.68	71.98	179.51	-133.31	312.83	0.574	Collision Risk Procedures Req.
8,300.00	7,033.48	6,996.98	7,033.48	28.79	285.47	88.13	-501.68	71.98	262.73	-49.25	311.98	0.842	Collision Risk Procedures Req.
8,400.00	7,031.81	6,995.31	7,031.81	29.22	285.40	87.33	-501.68	71.98	354.71	43.21	311.50	1.139	Collision Risk Procedures Req.
8,500.00	7,030.14	6,993.64	7,030.14	29.70	285.34	86.53	-501.68	71.98	450.12	138.92	311.20	1.446	Collision Risk Procedures Req.
8,600.00	7,028.47	6,991.97	7,028.47	30.21	285.27	85.73	-501.68	71.98	547.17	236.18	310.99	1.759	Collision Risk Procedures Req.
8,700.00	7,026.80	6,990.30	7,026.80	30.75	285.20	84.94	-501.68	71.98	645.11	334.28	310.83	2.075	
8,800.00	7,025.13	6,988.63	7,025.13	31.33	285.14	84.14	-501.68	71.98	743.60	432.90	310.71	2.393	
8,900.00	7,023.46	6,986.96	7,023.46	31.94	285.07	83.35	-501.68	71.98	842.44	531.85	310.60	2.712	
9,000.00	7,021.79	6,985.29	7,021.79	32.58	285.00	82.56	-501.68	71.98	941.53	631.03	310.50	3.032	
9,100.00	7,020.12	6,983.62	7,020.12	33.25	284.94	81.78	-501.68	71.98	1,040.78	730.37	310.41	3.353	
9,200.00	7,018.45	6,981.95	7,018.45	33.94	284.87	80.99	-501.68	71.98	1,140.17	829.84	310.33	3.674	
9,300.00	7,016.78	6,980.28	7,016.78	34.66	284.80	80.21	-501.68	71.98	1,239.65	929.39	310.25	3.996	
9,400.00	7,015.11	6,978.61	7,015.11	35.39	284.74	79.44	-501.68	71.98	1,339.20	1,029.02	310.18	4.317	
9,500.00	7,013.45	6,976.95	7,013.45	36.15	284.67	78.67	-501.68	71.98	1,438.82	1,128.70	310.11	4.640	
9,600.00	7,011.78	6,975.28	7,011.78	36.93	284.60	77.90	-501.68	71.98	1,538.48	1,228.43	310.05	4.962	
9,700.00	7,010.11	6,973.61	7,010.11	37.72	284.54	77.14	-501.68	71.98	1,638.19	1,328.20	309.99	5.285	
9,800.00	7,008.44	6,971.94	7,008.44	38.54	284.47	76.38	-501.68	71.98	1,737.92	1,427.99	309.93	5.608	
9,900.00	7,006.77	6,970.27	7,006.77	39.36	284.40	75.62	-501.68	71.98	1,837.68	1,527.81	309.87	5.930	
10,000.00	7,005.10	6,968.60	7,005.10	40.20	284.34	74.87	-501.68	71.98	1,937.47	1,627.65	309.81	6.254	
10,100.00	7,003.43	6,966.93	7,003.43	41.06	284.27	74.13	-501.68	71.98	2,037.27	1,727.51	309.76	6.577	
10,200.00	7,001.76	6,965.26	7,001.76	41.93	284.20	73.39	-501.68	71.98	2,137.10	1,827.39	309.71	6.900	
10,300.00	7,000.09	6,963.59	7,000.09	42.81	284.14	72.66	-501.68	71.98	2,236.93	1,927.28	309.66	7.224	
10,400.00	6,998.42	6,961.92	6,998.42	43.70	284.07	71.93	-501.68	71.98	2,336.78	2,027.18	309.61	7.548	
10,500.00	6,996.75	6,960.25	6,996.75	44.61	284.00	71.21	-501.68	71.98	2,436.64	2,127.08	309.56	7.871	

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,700.00	7,026.80	7,017.48	7,030.98	30.75	168.05	91.46	887.69	-2,544.25	2,484.29	2,289.51	194.78	12.754	
8,800.00	7,025.13	7,015.62	7,029.12	31.33	168.01	91.39	887.70	-2,544.25	2,404.44	2,209.29	195.15	12.321	
8,900.00	7,023.46	7,013.75	7,027.25	31.94	167.96	91.32	887.70	-2,544.25	2,326.15	2,130.58	195.57	11.894	
9,000.00	7,021.79	7,011.89	7,025.38	32.58	167.91	91.25	887.71	-2,544.25	2,249.58	2,053.52	196.06	11.474	
9,100.00	7,020.12	7,010.02	7,023.52	33.25	167.87	91.17	887.71	-2,544.25	2,174.92	1,978.29	196.62	11.061	
9,200.00	7,018.45	7,008.16	7,021.66	33.94	167.82	91.10	887.71	-2,544.25	2,102.35	1,905.10	197.26	10.658	
9,300.00	7,016.78	7,006.29	7,019.79	34.66	167.78	91.03	887.72	-2,544.25	2,032.12	1,834.15	197.97	10.265	
9,400.00	7,015.11	7,004.43	7,017.93	35.39	167.73	90.96	887.72	-2,544.25	1,964.47	1,765.70	198.77	9.883	
9,500.00	7,013.45	7,002.57	7,016.07	36.15	167.68	90.88	887.73	-2,544.25	1,899.67	1,700.02	199.65	9.515	
9,600.00	7,011.78	7,000.71	7,014.20	36.93	167.64	90.81	887.73	-2,544.25	1,838.03	1,637.41	200.62	9.162	
9,700.00	7,010.11	6,998.84	7,012.34	37.72	167.59	90.74	887.73	-2,544.25	1,779.87	1,578.21	201.67	8.826	
9,800.00	7,008.44	6,996.98	7,010.48	38.54	167.55	90.67	887.73	-2,544.25	1,725.56	1,522.76	202.79	8.509	
9,900.00	7,006.77	6,995.12	7,008.62	39.36	167.50	90.59	887.74	-2,544.25	1,675.45	1,471.46	203.99	8.213	
10,000.00	7,005.10	6,993.26	7,006.76	40.20	167.45	90.52	887.74	-2,544.25	1,629.94	1,424.70	205.24	7.942	
10,100.00	7,003.43	6,991.40	7,004.90	41.06	167.41	90.45	887.74	-2,544.25	1,589.43	1,382.90	206.53	7.696	
10,200.00	7,001.76	6,989.54	7,003.04	41.93	167.36	90.38	887.74	-2,544.25	1,554.30	1,346.47	207.83	7.479	
10,300.00	7,000.09	6,987.68	7,001.18	42.81	167.32	90.30	887.74	-2,544.25	1,524.93	1,315.82	209.12	7.292	
10,400.00	6,998.42	6,985.82	6,999.32	43.70	167.27	90.23	887.75	-2,544.25	1,501.66	1,291.29	210.37	7.138	
10,500.00	6,996.75	6,983.96	6,997.46	44.61	167.22	90.16	887.75	-2,544.25	1,484.76	1,273.22	211.54	7.019	
10,600.00	6,995.08	6,982.10	6,995.60	45.52	167.18	90.09	887.75	-2,544.25	1,474.47	1,261.85	212.62	6.935	
10,700.00	6,993.42	6,980.24	6,993.74	46.44	167.13	90.01	887.75	-2,544.25	1,470.92	1,257.34	213.58	6.887	
10,704.45	6,993.34	6,980.16	6,993.66	46.48	167.13	90.01	887.75	-2,544.25	1,470.92	1,257.30	213.61	6.886	CC, ES
10,800.00	6,991.75	6,978.39	6,991.88	47.37	167.09	89.94	887.75	-2,544.25	1,474.16	1,259.77	214.38	6.876	SF
10,900.00	6,990.08	6,976.57	6,990.08	48.31	167.04	89.87	887.05	-2,544.25	1,483.45	1,268.41	215.04	6.899	
11,000.00	6,988.41	6,974.90	6,988.41	49.26	167.00	89.81	887.05	-2,544.25	1,500.05	1,284.52	215.53	6.960	
11,100.00	6,986.74	6,973.23	6,986.74	50.22	166.96	89.74	887.05	-2,544.25	1,523.04	1,307.18	215.86	7.056	
11,200.00	6,985.07	6,971.56	6,985.07	51.18	166.92	89.68	887.05	-2,544.25	1,552.15	1,336.11	216.04	7.184	
11,300.00	6,983.40	6,969.90	6,983.40	52.15	166.88	89.61	887.05	-2,544.25	1,587.03	1,370.95	216.08	7.345	
11,400.00	6,981.73	6,968.23	6,981.73	53.12	166.84	89.55	887.05	-2,544.25	1,627.32	1,411.32	216.00	7.534	
11,500.00	6,980.06	6,966.56	6,980.06	54.10	166.79	89.48	887.05	-2,544.25	1,672.62	1,456.81	215.81	7.751	
11,600.00	6,978.39	6,964.89	6,978.39	55.09	166.75	89.42	887.05	-2,544.25	1,722.54	1,507.01	215.53	7.992	
11,700.00	6,976.72	6,963.22	6,976.72	56.08	166.71	89.35	887.05	-2,544.25	1,776.69	1,561.51	215.19	8.256	
11,800.00	6,975.06	6,961.55	6,975.06	57.08	166.67	89.29	887.05	-2,544.25	1,834.70	1,619.91	214.79	8.542	
11,900.00	6,973.39	6,959.88	6,973.39	58.08	166.63	89.22	887.05	-2,544.25	1,896.20	1,681.85	214.35	8.846	
12,000.00	6,971.72	6,958.21	6,971.72	59.09	166.59	89.16	887.05	-2,544.25	1,960.88	1,746.99	213.89	9.168	
12,100.00	6,970.05	6,956.54	6,970.05	60.10	166.55	89.09	887.05	-2,544.25	2,028.43	1,815.01	213.41	9.505	
12,200.00	6,968.38	6,954.87	6,968.38	61.11	166.51	89.03	887.05	-2,544.25	2,098.56	1,885.64	212.93	9.856	
12,300.00	6,966.71	6,953.20	6,966.71	62.13	166.47	88.96	887.05	-2,544.25	2,171.04	1,958.60	212.44	10.220	
12,400.00	6,965.04	6,951.53	6,965.04	63.15	166.42	88.90	887.05	-2,544.25	2,245.63	2,033.68	211.95	10.595	
12,500.00	6,963.37	6,949.87	6,963.37	64.18	166.38	88.83	887.05	-2,544.25	2,322.13	2,110.66	211.48	10.981	
12,600.00	6,961.70	6,948.20	6,961.70	65.21	166.34	88.77	887.05	-2,544.25	2,400.36	2,189.35	211.01	11.376	
12,700.00	6,960.03	6,946.53	6,960.03	66.24	166.30	88.70	887.05	-2,544.25	2,480.15	2,269.60	210.56	11.779	

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 - LAKEWOOD STATE COM #001 - OH - OH — **Offset Site Error:** 0.00 usft

Survey Program: 425-INC-ONLY — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,200.00	7,035.14	6,998.90	7,035.62	28.40	145.82	105.24	-429.39	-2,544.83	2,488.31	2,317.40	170.91	14.559	
8,300.00	7,033.48	6,997.20	7,033.92	28.79	145.77	104.65	-429.38	-2,544.83	2,388.52	2,217.65	170.87	13.978	
8,400.00	7,031.81	6,995.51	7,032.23	29.22	145.72	104.06	-429.38	-2,544.83	2,288.75	2,117.92	170.83	13.398	
8,500.00	7,030.14	6,993.81	7,030.53	29.70	145.67	103.46	-429.37	-2,544.83	2,189.01	2,018.21	170.80	12.816	
8,600.00	7,028.47	6,992.12	7,028.84	30.21	145.63	102.86	-429.37	-2,544.83	2,089.28	1,918.52	170.76	12.235	
8,700.00	7,026.80	6,990.42	7,027.14	30.75	145.58	102.26	-429.37	-2,544.83	1,989.58	1,818.85	170.73	11.654	
8,800.00	7,025.13	6,988.73	7,025.45	31.33	145.53	101.66	-429.36	-2,544.83	1,889.91	1,719.21	170.70	11.072	
8,900.00	7,023.46	6,987.03	7,023.75	31.94	145.48	101.05	-429.36	-2,544.83	1,790.27	1,619.60	170.67	10.490	
9,000.00	7,021.79	6,985.34	7,022.06	32.58	145.44	100.44	-429.36	-2,544.83	1,690.68	1,520.03	170.65	9.908	
9,100.00	7,020.12	6,983.64	7,020.36	33.25	145.39	99.83	-429.35	-2,544.83	1,591.14	1,420.51	170.63	9.325	
9,200.00	7,018.45	6,981.95	7,018.67	33.94	145.34	99.22	-429.35	-2,544.83	1,491.65	1,321.04	170.61	8.743	
9,300.00	7,016.78	6,980.26	7,016.98	34.66	145.30	98.60	-429.35	-2,544.83	1,392.24	1,221.63	170.61	8.161	
9,400.00	7,015.11	6,978.56	7,015.28	35.39	145.25	97.99	-429.35	-2,544.83	1,292.91	1,122.30	170.61	7.578	
9,500.00	7,013.45	6,976.87	7,013.59	36.15	145.20	97.37	-429.35	-2,544.83	1,193.70	1,023.07	170.62	6.996	
9,600.00	7,011.78	6,975.18	7,011.90	36.93	145.15	96.75	-429.34	-2,544.83	1,094.62	923.97	170.65	6.414	
9,700.00	7,010.11	6,973.49	7,010.21	37.72	145.11	96.13	-429.34	-2,544.83	995.73	825.02	170.71	5.833	
9,800.00	7,008.44	6,971.79	7,008.52	38.54	145.06	95.50	-429.34	-2,544.83	897.08	726.28	170.80	5.252	
9,900.00	7,006.77	6,970.10	7,006.83	39.36	145.01	94.88	-429.34	-2,544.83	798.76	627.82	170.94	4.673	
10,000.00	7,005.10	6,968.41	7,005.14	40.20	144.97	94.25	-429.34	-2,544.83	700.91	529.75	171.17	4.095	
10,100.00	7,003.43	6,966.72	7,003.45	41.06	144.92	93.63	-429.34	-2,544.83	603.77	432.24	171.53	3.520	
10,200.00	7,001.76	6,965.03	7,001.76	41.93	144.87	93.00	-429.34	-2,544.83	507.73	335.58	172.15	2.949	
10,300.00	7,000.09	6,963.34	7,000.07	42.81	144.82	92.37	-429.34	-2,544.83	413.56	240.33	173.24	2.387	
10,400.00	6,998.42	6,961.66	6,998.42	43.70	144.78	91.79	-431.45	-2,544.83	321.89	146.69	175.20	1.837	Collision Risk Procedures Req.
10,500.00	6,996.75	6,959.99	6,996.75	44.61	144.73	91.16	-431.45	-2,544.83	238.44	59.21	179.23	1.330	Collision Risk Procedures Req.
10,600.00	6,995.08	6,958.32	6,995.08	45.52	144.68	90.53	-431.45	-2,544.83	173.46	-12.92	186.38	0.931	Collision Risk Procedures Req.
10,683.86	6,993.69	6,956.92	6,993.69	46.29	144.65	90.00	-431.45	-2,544.83	151.85	-39.09	190.94	0.795	Collision Risk Procedures Req., CC, ES
10,700.00	6,993.42	6,956.65	6,993.42	46.44	144.64	89.90	-431.45	-2,544.83	152.70	-38.20	190.90	0.800	Collision Risk Procedures Req.
10,800.00	6,991.75	6,954.99	6,991.75	47.37	144.59	89.27	-431.45	-2,544.83	191.16	5.88	185.28	1.032	Collision Risk Procedures Req.
10,900.00	6,990.08	6,953.32	6,990.08	48.31	144.54	88.64	-431.45	-2,544.83	264.12	84.84	179.29	1.473	Collision Risk Procedures Req.
11,000.00	6,988.41	6,951.65	6,988.41	49.26	144.50	88.01	-431.45	-2,544.83	350.68	174.80	175.88	1.994	Collision Risk Procedures Req.
11,100.00	6,986.74	6,949.98	6,986.74	50.22	144.45	87.38	-431.45	-2,544.83	442.92	268.93	174.00	2.546	
11,200.00	6,985.07	6,948.31	6,985.07	51.18	144.40	86.75	-431.45	-2,544.83	537.94	365.05	172.89	3.111	
11,300.00	6,983.40	6,946.64	6,983.40	52.15	144.36	86.13	-431.45	-2,544.83	634.49	462.30	172.19	3.685	
11,400.00	6,981.73	6,944.97	6,981.73	53.12	144.31	85.50	-431.45	-2,544.83	731.96	560.25	171.72	4.263	
11,500.00	6,980.06	6,943.30	6,980.06	54.10	144.27	84.87	-431.45	-2,544.83	830.03	658.65	171.39	4.843	
11,600.00	6,978.39	6,941.63	6,978.39	55.09	144.22	84.25	-431.45	-2,544.83	928.51	757.37	171.14	5.425	
11,700.00	6,976.72	6,939.96	6,976.72	56.08	144.17	83.63	-431.45	-2,544.83	1,027.28	856.33	170.95	6.009	
11,800.00	6,975.06	6,938.29	6,975.06	57.08	144.13	83.01	-431.45	-2,544.83	1,126.27	955.46	170.81	6.594	
11,900.00	6,973.39	6,936.63	6,973.39	58.08	144.08	82.39	-431.45	-2,544.83	1,225.41	1,054.72	170.69	7.179	
12,000.00	6,971.72	6,934.96	6,971.72	59.09	144.03	81.77	-431.45	-2,544.83	1,324.69	1,154.09	170.60	7.765	
12,100.00	6,970.05	6,933.29	6,970.05	60.10	143.99	81.15	-431.45	-2,544.83	1,424.06	1,253.54	170.52	8.351	
12,200.00	6,968.38	6,931.62	6,968.38	61.11	143.94	80.54	-431.45	-2,544.83	1,523.51	1,353.06	170.45	8.938	
12,300.00	6,966.71	6,929.95	6,966.71	62.13	143.89	79.93	-431.45	-2,544.83	1,623.03	1,452.64	170.40	9.525	
12,400.00	6,965.04	6,928.28	6,965.04	63.15	143.85	79.32	-431.45	-2,544.83	1,722.61	1,552.26	170.35	10.112	
12,500.00	6,963.37	6,926.61	6,963.37	64.18	143.80	78.71	-431.45	-2,544.83	1,822.22	1,651.92	170.31	10.700	
12,600.00	6,961.70	6,924.94	6,961.70	65.21	143.75	78.11	-431.45	-2,544.83	1,921.88	1,751.61	170.27	11.287	
12,700.00	6,960.03	6,923.27	6,960.03	66.24	143.71	77.51	-431.45	-2,544.83	2,021.57	1,851.33	170.24	11.875	
12,800.00	6,958.36	6,921.60	6,958.36	67.27	143.66	76.91	-431.45	-2,544.83	2,121.29	1,951.07	170.21	12.463	
12,900.00	6,956.69	6,919.93	6,956.69	68.31	143.61	76.31	-431.45	-2,544.83	2,221.03	2,050.84	170.19	13.050	
13,000.00	6,955.03	6,918.26	6,955.03	69.35	143.57	75.72	-431.45	-2,544.83	2,320.79	2,150.62	170.17	13.638	
13,100.00	6,953.36	6,916.60	6,953.36	70.40	143.52	75.13	-431.45	-2,544.83	2,420.57	2,250.42	170.15	14.226	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.30	0.00	0.00	0.00	8.89	2,073.10	324.30	2,098.31				
100.00	100.00	104.72	104.42	0.25	0.28	8.89	2,072.58	324.29	2,097.80	2,097.27	0.53	3,964.794	
111.80	111.80	112.10	111.80	0.29	0.30	8.89	2,072.57	324.32	2,097.79	2,097.19	0.60	3,514.113	CC, ES
200.00	200.00	164.30	163.99	0.61	0.48	8.91	2,072.88	324.83	2,098.49	2,097.39	1.10	1,913.808	
300.00	300.00	250.81	250.49	0.97	0.79	8.92	2,074.45	325.57	2,100.42	2,098.67	1.76	1,195.383	
400.00	400.00	360.72	360.36	1.33	1.17	8.91	2,077.20	325.58	2,102.94	2,100.43	2.50	840.991	
500.00	500.00	449.36	448.98	1.68	1.49	8.92	2,078.75	326.44	2,104.84	2,101.67	3.17	663.190	
600.00	600.00	540.18	539.76	2.04	1.81	8.96	2,080.99	327.94	2,107.54	2,103.68	3.86	546.525	
700.00	699.98	636.30	635.83	2.39	2.16	-110.34	2,083.65	329.66	2,111.15	2,106.61	4.55	464.443	
800.00	799.84	742.88	742.35	2.73	2.54	-110.35	2,086.51	331.71	2,115.92	2,110.66	5.27	401.782	
900.00	899.45	854.31	853.74	3.08	2.94	-110.44	2,088.94	333.89	2,121.43	2,115.42	6.01	352.982	
1,000.00	998.70	966.81	966.21	3.42	3.34	-110.64	2,090.78	335.56	2,127.59	2,120.83	6.76	314.604	
1,100.00	1,097.47	1,069.55	1,068.92	3.78	3.70	-110.87	2,091.97	337.46	2,134.62	2,127.13	7.48	285.225	
1,200.00	1,195.62	1,170.75	1,170.05	4.14	4.07	-111.11	2,092.77	341.00	2,142.84	2,134.64	8.20	261.185	
1,300.00	1,293.06	1,271.00	1,270.15	4.51	4.42	-111.35	2,093.20	346.46	2,152.33	2,143.40	8.93	241.125	
1,349.92	1,341.38	1,321.06	1,320.09	4.70	4.60	-111.48	2,093.28	349.94	2,157.54	2,148.25	9.29	232.275	
1,400.00	1,389.76	1,367.67	1,366.57	4.89	4.77	-111.68	2,093.33	353.44	2,162.98	2,153.34	9.64	224.356	
1,500.00	1,486.35	1,459.80	1,458.45	5.27	5.10	-112.10	2,093.63	360.22	2,174.12	2,163.78	10.34	210.190	
1,600.00	1,582.95	1,554.72	1,553.13	5.66	5.44	-112.53	2,094.21	366.98	2,185.64	2,174.58	11.06	197.621	
1,700.00	1,679.54	1,654.21	1,652.38	6.05	5.79	-112.98	2,094.82	373.80	2,197.28	2,185.48	11.80	186.282	
1,800.00	1,776.13	1,752.30	1,750.25	6.44	6.14	-113.43	2,095.40	380.22	2,208.99	2,196.46	12.53	176.325	
1,900.00	1,872.73	1,848.68	1,846.47	6.83	6.49	-113.88	2,096.06	385.84	2,220.88	2,207.62	13.26	167.543	
2,000.00	1,969.32	1,945.00	1,942.67	7.23	6.83	-114.35	2,096.84	390.74	2,232.97	2,218.99	13.98	159.683	
2,100.00	2,065.91	2,041.23	2,038.79	7.63	7.18	-114.83	2,097.71	394.98	2,245.28	2,230.57	14.71	152.613	
2,200.00	2,162.50	2,140.03	2,137.52	8.03	7.53	-115.33	2,098.66	398.75	2,257.77	2,242.32	15.45	146.128	
2,300.00	2,259.10	2,240.88	2,238.30	8.43	7.90	-115.84	2,099.50	402.35	2,270.30	2,254.10	16.20	140.168	
2,400.00	2,355.69	2,339.44	2,336.81	8.83	8.25	-116.35	2,100.22	405.44	2,282.87	2,265.94	16.93	134.808	
2,500.00	2,452.28	2,436.55	2,433.90	9.23	8.60	-116.87	2,100.94	407.32	2,295.61	2,277.95	17.67	129.947	
2,600.00	2,548.88	2,543.60	2,540.94	9.64	8.98	-117.45	2,101.59	408.59	2,308.39	2,289.96	18.43	125.229	
2,700.00	2,645.47	2,654.77	2,652.09	10.04	9.38	-118.04	2,101.59	410.48	2,320.80	2,301.59	19.22	120.775	
2,800.00	2,742.06	2,736.32	2,733.64	10.44	9.66	-118.49	2,101.64	411.27	2,333.45	2,313.57	19.88	117.401	
2,900.00	2,838.66	2,817.91	2,815.22	10.85	9.94	-118.96	2,102.18	410.56	2,346.90	2,326.37	20.53	114.293	
3,000.00	2,935.25	2,917.69	2,914.98	11.26	10.27	-119.56	2,103.19	408.56	2,360.95	2,339.69	21.25	111.091	
3,100.00	3,031.84	3,025.66	3,022.94	11.66	10.63	-120.18	2,103.83	407.34	2,374.80	2,352.80	22.00	107.952	
3,200.00	3,128.44	3,119.35	3,116.62	12.07	10.95	-120.71	2,104.20	406.61	2,388.68	2,365.99	22.69	105.255	
3,300.00	3,225.03	3,212.17	3,209.44	12.47	11.26	-121.23	2,104.68	405.52	2,402.92	2,379.53	23.39	102.751	
3,400.00	3,321.62	3,329.05	3,326.31	12.88	11.66	-121.88	2,104.90	403.98	2,417.08	2,392.91	24.16	100.024	
3,500.00	3,418.22	3,416.00	3,413.25	13.29	11.95	-122.37	2,104.81	402.87	2,431.17	2,406.33	24.83	97.901	
3,600.00	3,514.81	3,504.00	3,501.24	13.70	12.25	-122.85	2,105.08	401.54	2,445.87	2,420.36	25.50	95.899	
3,700.00	3,611.40	3,595.70	3,592.93	14.10	12.56	-123.36	2,105.56	400.01	2,461.01	2,434.82	26.19	93.961	
3,800.00	3,708.00	3,689.41	3,686.62	14.51	12.88	-123.87	2,106.18	398.36	2,476.52	2,449.63	26.89	92.108	
3,900.00	3,804.59	3,787.19	3,784.38	14.92	13.22	-124.39	2,106.86	396.77	2,492.25	2,464.65	27.60	90.304	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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.54	180.00	1.70	180.01				
100.00	100.00	100.32	100.32	0.25	0.13	0.59	179.93	1.86	179.94	179.56	0.38	475.876	
181.71	181.71	181.72	181.72	0.54	0.40	0.76	179.53	2.40	179.54	178.60	0.94	190.704	CC
200.00	200.00	198.88	198.87	0.61	0.46	0.79	179.59	2.49	179.61	178.54	1.07	168.235	
300.00	300.00	299.53	299.51	0.97	0.82	1.22	179.94	3.84	179.98	178.20	1.78	100.915	
400.00	400.00	399.15	399.11	1.33	1.17	1.87	180.54	5.91	180.63	178.14	2.50	72.307	
500.00	500.00	499.18	499.12	1.68	1.53	2.62	180.90	8.27	181.09	177.88	3.22	56.326	
600.00	600.00	599.05	598.96	2.04	1.89	3.19	181.33	10.12	181.62	177.69	3.93	46.197	ES
700.00	699.98	699.07	698.97	2.39	2.25	-116.13	181.83	11.72	182.97	178.34	4.64	39.469	
800.00	799.84	797.99	797.88	2.73	2.60	-117.05	182.44	13.26	186.01	180.68	5.33	34.903	
900.00	899.45	895.60	895.45	3.08	2.95	-118.58	183.90	15.44	191.64	185.62	6.02	31.816	
1,000.00	998.70	992.48	992.20	3.42	3.30	-120.18	186.51	19.76	200.33	193.61	6.72	29.814	
1,100.00	1,097.47	1,088.62	1,088.04	3.78	3.64	-121.78	190.44	26.08	212.32	204.90	7.42	28.632	
1,200.00	1,195.62	1,183.31	1,182.28	4.14	3.98	-123.46	195.85	33.61	227.89	219.79	8.11	28.110	
1,300.00	1,293.06	1,276.64	1,274.96	4.51	4.32	-125.20	202.93	41.92	247.43	238.63	8.79	28.139	
1,349.92	1,341.38	1,322.44	1,320.37	4.70	4.48	-126.07	207.08	46.20	258.72	249.59	9.13	28.329	
1,400.00	1,389.76	1,367.82	1,365.30	4.89	4.64	-127.06	211.72	50.63	270.92	261.45	9.47	28.617	
1,500.00	1,486.35	1,458.02	1,454.38	5.27	4.97	-128.63	222.49	59.90	297.05	286.92	10.13	29.329	
1,600.00	1,582.95	1,549.90	1,544.83	5.66	5.30	-129.84	235.21	69.72	325.09	314.29	10.80	30.102	
1,700.00	1,679.54	1,643.00	1,636.36	6.05	5.63	-130.83	248.96	79.79	354.10	342.62	11.48	30.841	
1,800.00	1,776.13	1,736.56	1,728.31	6.44	5.97	-131.72	263.25	89.49	383.77	371.60	12.17	31.539	
1,900.00	1,872.73	1,831.66	1,821.78	6.83	6.31	-132.54	277.99	99.03	413.80	400.93	12.87	32.159	
2,000.00	1,969.32	1,928.13	1,916.61	7.23	6.66	-133.25	292.79	108.75	443.74	430.16	13.58	32.681	
2,100.00	2,065.91	2,024.62	2,011.50	7.63	7.01	-133.89	307.29	118.45	473.46	459.17	14.29	33.131	
2,200.00	2,162.50	2,121.54	2,106.87	8.03	7.37	-134.46	321.62	128.20	502.98	487.98	15.01	33.516	
2,300.00	2,259.10	2,215.57	2,199.40	8.43	7.71	-134.95	335.39	137.65	532.44	516.73	15.70	33.903	
2,400.00	2,355.69	2,310.41	2,292.69	8.83	8.06	-135.40	349.60	147.11	562.24	545.83	16.41	34.265	
2,500.00	2,452.28	2,407.18	2,387.90	9.23	8.42	-135.81	363.99	156.79	591.97	574.85	17.13	34.563	
2,600.00	2,548.88	2,504.07	2,483.23	9.64	8.77	-136.17	378.19	166.65	621.48	603.63	17.85	34.821	
2,700.00	2,645.47	2,601.50	2,579.13	10.04	9.13	-136.51	392.24	176.64	650.76	632.19	18.57	35.039	
2,800.00	2,742.06	2,700.58	2,676.70	10.44	9.50	-136.82	406.11	186.80	679.69	660.38	19.31	35.200	
2,900.00	2,838.66	2,799.33	2,774.10	10.85	9.86	-137.18	419.25	196.39	708.16	688.12	20.04	35.332	
3,000.00	2,935.25	2,893.45	2,867.00	11.26	10.21	-137.52	431.53	205.22	736.54	715.80	20.74	35.505	
3,100.00	3,031.84	2,988.37	2,960.66	11.66	10.56	-137.84	444.13	214.09	765.15	743.69	21.45	35.668	
3,200.00	3,128.44	3,086.05	3,057.07	12.07	10.92	-138.15	456.99	223.11	793.71	771.53	22.18	35.788	
3,300.00	3,225.03	3,185.84	3,155.66	12.47	11.29	-138.49	469.58	231.93	821.94	799.02	22.92	35.864	
3,400.00	3,321.62	3,277.63	3,246.37	12.88	11.62	-138.78	481.13	240.00	850.17	826.57	23.60	36.018	
3,500.00	3,418.22	3,370.55	3,338.07	13.29	11.97	-139.02	493.41	248.58	878.85	854.55	24.30	36.169	
3,600.00	3,514.81	3,467.61	3,433.86	13.70	12.32	-139.25	506.28	257.48	907.59	882.57	25.02	36.272	
3,700.00	3,611.40	3,565.60	3,530.66	14.10	12.69	-139.51	518.93	266.05	936.18	910.43	25.75	36.356	
3,800.00	3,708.00	3,663.54	3,627.49	14.51	13.05	-139.79	531.12	274.21	964.53	938.05	26.48	36.428	
3,900.00	3,804.59	3,760.99	3,723.89	14.92	13.40	-140.06	542.98	282.10	992.73	965.53	27.20	36.496	
4,000.00	3,901.18	3,859.75	3,821.65	15.33	13.77	-140.35	554.69	289.86	1,020.75	992.82	27.93	36.543	
4,100.00	3,997.78	3,951.39	3,912.37	15.74	14.10	-140.60	565.45	296.98	1,048.73	1,020.11	28.62	36.648	
4,200.00	4,094.37	4,047.21	4,007.15	16.15	14.45	-140.83	577.28	304.73	1,077.14	1,047.82	29.33	36.726	
4,300.00	4,190.96	4,146.55	4,105.46	16.55	14.82	-141.07	589.16	312.59	1,105.30	1,075.23	30.07	36.763	
4,400.00	4,287.56	4,245.52	4,203.49	16.96	15.18	-141.32	600.52	320.05	1,133.19	1,102.39	30.80	36.795	
4,500.00	4,384.15	4,344.89	4,302.02	17.37	15.54	-141.60	611.41	327.01	1,160.83	1,129.30	31.53	36.816	
4,600.00	4,480.74	4,445.00	4,401.36	17.78	15.91	-141.90	621.84	333.59	1,188.19	1,155.93	32.27	36.824	
4,700.00	4,577.34	4,546.95	4,502.62	18.19	16.28	-142.21	631.86	339.96	1,215.19	1,182.17	33.01	36.809	
4,800.00	4,673.93	4,642.35	4,597.42	18.60	16.62	-142.52	640.87	345.64	1,241.99	1,208.27	33.72	36.835	
4,900.00	4,770.52	4,737.39	4,691.89	19.01	16.97	-142.82	649.80	351.02	1,268.91	1,234.49	34.42	36.867	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,867.12	4,834.83	4,788.78	19.42	17.32	-143.13	658.81	356.23	1,295.85	1,260.71	35.13	36.883	
5,100.00	4,963.71	4,936.85	4,890.25	19.83	17.69	-143.46	667.83	361.52	1,322.53	1,286.65	35.88	36.863	
5,200.00	5,060.30	5,036.77	4,989.70	20.24	18.05	-143.79	676.26	366.36	1,349.04	1,312.43	36.61	36.853	
5,300.00	5,156.90	5,171.48	5,124.00	20.65	18.53	-144.28	684.85	372.31	1,373.99	1,336.45	37.53	36.608	
5,400.00	5,253.49	5,317.50	5,269.89	21.06	19.04	-144.97	688.22	376.92	1,396.03	1,357.55	38.48	36.283	
5,500.00	5,350.08	5,407.97	5,360.34	21.47	19.35	-145.47	688.26	378.56	1,416.74	1,377.60	39.14	36.201	
5,600.00	5,446.68	5,502.77	5,455.12	21.88	19.68	-145.97	688.47	380.31	1,437.71	1,397.90	39.81	36.110	
5,612.36	5,458.62	5,514.61	5,466.96	21.93	19.72	-146.03	688.50	380.54	1,440.32	1,400.42	39.90	36.099	
5,700.00	5,543.60	5,598.86	5,551.20	22.28	20.01	-146.63	688.80	382.09	1,457.80	1,417.30	40.50	35.994	
5,800.00	5,641.32	5,696.40	5,648.71	22.68	20.35	-147.20	689.20	383.85	1,475.21	1,434.02	41.19	35.813	
5,900.00	5,739.72	5,800.24	5,752.54	23.06	20.71	-147.67	689.48	385.83	1,489.60	1,447.69	41.91	35.541	
6,000.00	5,838.69	5,900.72	5,853.00	23.43	21.06	-148.02	689.36	387.75	1,500.76	1,458.15	42.61	35.220	
6,100.00	5,938.09	5,990.66	5,942.92	23.79	21.37	-148.27	689.46	389.09	1,509.39	1,466.13	43.26	34.894	
6,200.00	6,037.81	6,082.48	6,034.74	24.13	21.69	-148.43	689.88	389.94	1,515.65	1,471.74	43.91	34.518	
6,300.00	6,137.73	6,175.72	6,127.98	24.46	22.01	-148.52	690.49	390.25	1,519.40	1,474.83	44.56	34.095	
6,362.28	6,200.00	6,232.23	6,184.49	24.66	22.21	-29.19	690.90	390.03	1,520.49	1,475.54	44.95	33.825	
6,400.00	6,237.72	6,268.48	6,220.74	24.78	22.33	-29.20	691.17	389.69	1,520.91	1,475.71	45.19	33.654	
6,500.00	6,337.72	7,627.97	7,075.27	25.08	27.32	4.23	632.13	1,225.53	1,470.36	1,424.38	45.99	31.973	
6,600.00	6,437.72	7,628.72	7,075.28	25.38	27.33	4.27	632.07	1,226.28	1,422.84	1,375.35	47.48	29.965	
6,700.00	6,537.72	7,629.47	7,075.29	25.69	27.33	4.30	632.01	1,227.02	1,380.92	1,331.99	48.93	28.223	
6,731.88	6,569.60	7,629.71	7,075.30	25.79	27.33	4.31	631.99	1,227.26	1,368.83	1,319.45	49.37	27.724	
6,750.00	6,587.72	7,629.65	7,075.29	25.84	27.33	94.33	631.99	1,227.20	1,362.26	1,312.64	49.62	27.454	
6,775.00	6,612.66	7,628.93	7,075.29	25.91	27.33	95.39	632.05	1,226.48	1,353.62	1,303.68	49.95	27.102	
6,800.00	6,637.49	7,627.47	7,075.27	25.98	27.32	96.35	632.17	1,225.03	1,345.51	1,295.25	50.26	26.772	
6,825.00	6,662.13	7,625.28	7,075.24	26.05	27.31	97.20	632.35	1,222.84	1,337.95	1,287.40	50.56	26.465	
6,850.00	6,686.52	7,622.36	7,075.20	26.11	27.30	97.94	632.60	1,219.94	1,330.97	1,280.13	50.84	26.182	
6,875.00	6,710.59	7,618.73	7,075.15	26.17	27.29	98.57	632.91	1,216.32	1,324.58	1,273.48	51.10	25.922	
6,900.00	6,734.27	7,614.40	7,075.09	26.23	27.27	99.09	633.29	1,212.01	1,318.80	1,267.46	51.35	25.685	
6,925.00	6,757.50	7,609.37	7,075.02	26.29	27.25	99.51	633.75	1,207.00	1,313.65	1,262.07	51.57	25.472	
6,950.00	6,780.21	7,603.68	7,074.94	26.34	27.22	99.82	634.29	1,201.33	1,309.12	1,257.34	51.78	25.282	
6,975.00	6,802.35	7,577.99	7,074.56	26.39	27.12	99.28	636.96	1,175.78	1,305.49	1,253.59	51.90	25.153	
7,000.00	6,823.85	7,577.99	7,074.56	26.44	27.12	99.68	636.96	1,175.78	1,302.09	1,249.99	52.10	24.993	
7,025.00	6,844.65	7,588.46	7,074.66	26.49	27.16	100.39	635.79	1,186.19	1,299.34	1,247.02	52.32	24.836	
7,050.00	6,864.70	7,570.59	7,074.42	26.53	27.09	99.98	637.79	1,168.44	1,297.34	1,244.93	52.42	24.750	
7,075.00	6,883.94	7,552.40	7,073.83	26.58	27.02	99.52	639.84	1,150.38	1,295.85	1,243.34	52.50	24.681	
7,100.00	6,902.32	7,533.92	7,072.86	26.62	26.95	99.01	641.93	1,132.04	1,294.83	1,242.26	52.57	24.629	
7,125.00	6,919.79	7,515.18	7,071.50	26.65	26.87	98.46	644.07	1,113.46	1,294.27	1,241.64	52.63	24.592	
7,150.00	6,936.29	7,472.09	7,066.32	26.69	26.70	97.06	648.86	1,071.00	1,294.13	1,241.55	52.58	24.611	
7,151.38	6,937.17	7,503.58	7,070.43	26.69	26.83	98.09	645.34	1,101.99	1,294.10	1,241.40	52.71	24.553 SF	
7,175.00	6,951.79	7,471.93	7,066.92	26.72	26.70	97.07	649.01	1,070.75	1,294.39	1,241.71	52.68	24.571	
7,200.00	6,966.25	7,439.40	7,061.99	26.75	26.58	96.00	652.51	1,038.79	1,294.88	1,242.24	52.64	24.597	
7,225.00	6,979.61	7,407.76	7,055.91	26.78	26.45	94.96	655.65	1,007.90	1,295.54	1,242.94	52.60	24.630	
7,250.00	6,991.86	7,379.58	7,049.43	26.81	26.34	94.01	658.22	980.60	1,296.37	1,243.82	52.56	24.666	
7,275.00	7,002.94	7,355.96	7,043.18	26.84	26.25	93.19	660.27	957.91	1,297.42	1,244.89	52.52	24.703	
7,300.00	7,012.84	7,332.59	7,036.28	26.86	26.15	92.36	662.22	935.67	1,298.67	1,246.20	52.48	24.747	
7,325.00	7,021.52	7,309.46	7,028.72	26.88	26.06	91.54	664.07	913.89	1,300.12	1,247.69	52.43	24.799	
7,350.00	7,028.97	7,288.05	7,021.11	26.90	25.98	90.76	665.71	893.95	1,301.74	1,249.37	52.38	24.854	
7,375.00	7,035.15	7,269.83	7,014.16	26.92	25.90	90.06	667.10	877.16	1,303.57	1,251.23	52.34	24.908	
7,400.00	7,040.06	7,251.61	7,006.78	26.94	25.83	89.35	668.49	860.56	1,305.59	1,253.30	52.29	24.969	
7,425.00	7,043.68	7,233.37	6,998.96	26.95	25.76	88.64	669.89	844.14	1,307.78	1,255.55	52.24	25.035	
7,450.00	7,046.00	7,215.12	6,990.71	26.96	25.69	87.94	671.28	827.93	1,310.13	1,257.94	52.18	25.106	
7,475.00	7,047.01	7,198.99	6,983.07	26.97	25.63	87.28	672.52	813.77	1,312.61	1,260.47	52.14	25.175	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,489.85	7,047.00	7,186.34	6,976.91	26.98	25.58	86.83	673.50	802.77	1,314.13	1,262.03	52.09	25.226	
7,500.00	7,046.83	7,179.08	6,973.34	26.98	25.55	86.67	674.06	796.48	1,315.20	1,263.13	52.07	25.257	
7,600.00	7,045.16	7,109.74	6,937.61	27.05	25.29	85.18	679.75	737.34	1,327.31	1,275.43	51.88	25.583	
7,700.00	7,043.49	7,032.36	6,893.63	27.15	25.01	83.35	686.01	673.99	1,342.14	1,290.48	51.66	25.978	
7,800.00	7,041.82	6,963.64	6,849.92	27.31	24.77	81.54	690.74	621.21	1,359.80	1,308.30	51.50	26.405	
7,900.00	7,040.15	6,903.82	6,807.71	27.51	24.56	79.80	693.98	578.97	1,381.02	1,329.63	51.39	26.873	
8,000.00	7,038.48	6,847.71	6,764.95	27.76	24.36	78.06	696.01	542.73	1,406.17	1,354.87	51.30	27.408	
8,100.00	7,036.81	6,802.35	6,728.37	28.06	24.20	76.58	696.88	515.93	1,435.61	1,384.31	51.30	27.985	
8,200.00	7,035.14	6,765.38	6,697.39	28.40	24.07	75.33	697.21	495.77	1,469.67	1,418.31	51.36	28.615	
8,300.00	7,033.48	6,726.99	6,664.21	28.79	23.94	74.00	697.22	476.46	1,508.38	1,456.98	51.41	29.343	
8,400.00	7,031.81	6,726.99	6,664.21	29.22	23.94	74.00	697.22	476.46	1,551.84	1,500.09	51.75	29.987	
8,500.00	7,030.14	6,684.49	6,626.40	29.70	23.79	72.51	696.96	457.08	1,599.19	1,547.45	51.75	30.904	
8,600.00	7,028.47	6,664.20	6,607.98	30.21	23.71	71.79	696.78	448.58	1,650.91	1,599.00	51.90	31.808	
8,700.00	7,026.80	6,631.99	6,578.29	30.75	23.60	70.64	696.42	436.10	1,706.58	1,654.62	51.95	32.848	
8,800.00	7,025.13	6,631.99	6,578.29	31.33	23.60	70.64	696.42	436.10	1,765.51	1,713.29	52.22	33.808	
8,900.00	7,023.46	6,631.99	6,578.29	31.94	23.60	70.64	696.42	436.10	1,828.02	1,775.56	52.46	34.849	
9,000.00	7,021.79	6,631.99	6,578.29	32.58	23.60	70.64	696.42	436.10	1,893.74	1,841.09	52.66	35.962	
9,100.00	7,020.12	6,591.89	6,540.60	33.25	23.45	69.19	695.82	422.45	1,961.13	1,908.52	52.61	37.277	
9,200.00	7,018.45	6,581.50	6,530.70	33.94	23.42	68.82	695.64	419.28	2,031.62	1,978.90	52.72	38.535	
9,300.00	7,016.78	6,572.00	6,521.61	34.66	23.38	68.48	695.46	416.51	2,104.35	2,051.53	52.82	39.838	
9,400.00	7,015.11	6,537.99	6,488.78	35.39	23.26	67.25	694.73	407.67	2,179.62	2,126.84	52.78	41.296	
9,500.00	7,013.45	6,537.99	6,488.78	36.15	23.26	67.25	694.73	407.67	2,255.97	2,203.06	52.91	42.638	
9,600.00	7,011.78	6,537.99	6,488.78	36.93	23.26	67.25	694.73	407.67	2,334.10	2,281.08	53.02	44.022	
9,700.00	7,010.11	6,537.99	6,488.78	37.72	23.26	67.25	694.73	407.67	2,413.85	2,360.73	53.12	45.443	
9,800.00	7,008.44	6,537.99	6,488.78	38.54	23.26	67.25	694.73	407.67	2,495.06	2,441.86	53.20	46.896	

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Rule Assigned: Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.53	150.00	1.40	150.01				
100.00	100.00	99.54	99.54	0.25	0.13	0.70	150.11	1.83	150.12	149.74	0.38	396.446	
200.00	200.00	198.76	198.75	0.61	0.42	1.18	150.67	3.09	150.71	149.68	1.03	146.849	
300.00	300.00	298.48	298.46	0.97	0.77	1.53	151.60	4.04	151.66	149.92	1.74	87.083	
400.00	400.00	398.32	398.29	1.33	1.13	2.01	152.29	5.34	152.40	149.94	2.46	62.010	
500.00	500.00	498.70	498.66	1.68	1.49	2.38	153.20	6.36	153.34	150.17	3.18	48.287	
600.00	600.00	598.64	598.59	2.04	1.85	2.77	154.04	7.46	154.22	150.33	3.89	39.623	
700.00	699.98	698.36	698.30	2.39	2.21	-116.74	154.97	8.55	155.99	151.39	4.60	33.941	
800.00	799.84	798.11	798.03	2.73	2.56	-117.95	156.06	9.72	159.53	154.24	5.29	30.140	
900.00	899.45	900.27	900.17	3.08	2.93	-119.86	156.63	11.91	164.33	158.33	6.00	27.382	
1,000.00	998.70	1,003.93	1,003.74	3.42	3.29	-122.20	155.01	15.76	168.97	162.25	6.71	25.170	
1,100.00	1,097.47	1,108.98	1,108.57	3.78	3.66	-125.16	150.49	20.82	173.03	165.61	7.42	23.309	
1,200.00	1,195.62	1,214.30	1,213.44	4.14	4.03	-129.06	142.36	26.00	176.29	168.16	8.13	21.695	
1,300.00	1,293.06	1,317.65	1,316.07	4.51	4.39	-133.97	131.07	30.54	179.69	170.87	8.82	20.373	
1,349.92	1,341.38	1,368.08	1,366.06	4.70	4.57	-136.63	124.80	32.79	182.06	172.90	9.17	19.863	
1,400.00	1,389.76	1,418.93	1,416.41	4.89	4.75	-139.34	118.13	35.22	184.78	175.27	9.51	19.426	
1,500.00	1,486.35	1,521.95	1,518.18	5.27	5.12	-144.55	103.20	40.87	189.82	179.62	10.20	18.608	
1,600.00	1,582.95	1,625.54	1,620.03	5.66	5.49	-149.47	85.73	47.99	193.48	182.60	10.89	17.773	
1,700.00	1,679.54	1,726.52	1,718.97	6.05	5.86	-154.12	67.06	55.73	196.63	185.05	11.58	16.978	
1,800.00	1,776.13	1,826.31	1,816.60	6.44	6.23	-158.57	48.02	63.78	200.29	188.00	12.28	16.305	
1,900.00	1,872.73	1,925.18	1,913.25	6.83	6.60	-162.79	28.92	72.01	204.75	191.76	12.99	15.757	
2,000.00	1,969.32	2,023.65	2,009.55	7.23	6.97	-166.78	10.02	80.15	210.42	196.71	13.71	15.348	
2,100.00	2,065.91	2,122.24	2,105.97	7.63	7.34	-170.59	-8.93	88.16	217.18	202.75	14.43	15.049	
2,200.00	2,162.50	2,220.71	2,202.27	8.03	7.71	-174.20	-27.96	95.96	224.95	209.79	15.16	14.838	
2,300.00	2,259.10	2,320.05	2,299.42	8.43	8.09	-177.58	-47.16	103.87	233.53	217.64	15.89	14.692	
2,400.00	2,355.69	2,421.07	2,398.16	8.83	8.48	179.35	-66.52	112.72	242.26	225.63	16.64	14.562	
2,500.00	2,452.28	2,521.02	2,495.83	9.23	8.86	176.70	-85.40	122.47	250.84	233.46	17.38	14.431	
2,600.00	2,548.88	2,619.61	2,592.12	9.64	9.24	174.21	-104.24	132.10	259.82	241.69	18.13	14.329	
2,700.00	2,645.47	2,718.12	2,688.31	10.04	9.63	171.82	-123.32	141.42	269.45	250.56	18.89	14.265	
2,800.00	2,742.06	2,818.29	2,786.12	10.44	10.01	169.57	-142.67	151.06	279.38	259.73	19.65	14.217	
2,900.00	2,838.66	2,919.03	2,884.46	10.85	10.41	167.57	-161.89	161.47	289.10	268.68	20.42	14.159	
3,000.00	2,935.25	3,017.82	2,980.88	11.26	10.79	165.74	-180.72	171.89	298.95	277.76	21.18	14.111	
3,100.00	3,031.84	3,116.56	3,077.20	11.66	11.18	163.97	-199.87	182.14	309.15	287.19	21.96	14.081	
3,200.00	3,128.44	3,214.56	3,172.81	12.07	11.56	162.29	-218.97	192.05	319.87	297.14	22.73	14.075	
3,300.00	3,225.03	3,311.63	3,267.62	12.47	11.94	160.80	-237.46	201.58	331.23	307.74	23.49	14.100	
3,400.00	3,321.62	3,408.23	3,362.31	12.88	12.31	159.67	-254.29	210.68	343.48	319.23	24.25	14.164	
3,500.00	3,418.22	3,505.13	3,457.64	13.29	12.68	158.92	-269.24	219.49	356.49	331.49	25.00	14.261	
3,600.00	3,514.81	3,602.76	3,554.03	13.70	13.05	158.55	-282.10	228.22	370.05	344.31	25.74	14.377	
3,700.00	3,611.40	3,693.65	3,643.95	14.10	13.40	158.39	-292.99	235.64	384.58	358.15	26.43	14.551	
3,800.00	3,708.00	3,783.95	3,733.73	14.51	13.73	158.62	-300.85	241.17	401.57	374.48	27.09	14.822	
3,900.00	3,804.59	3,877.68	3,827.22	14.92	14.06	159.30	-305.55	245.92	420.16	392.40	27.76	15.136	
4,000.00	3,901.18	3,968.31	3,917.73	15.33	14.38	160.20	-307.82	249.92	439.89	411.51	28.38	15.499	
4,100.00	3,997.78	4,056.11	4,005.48	15.74	14.69	160.94	-310.04	251.92	461.74	432.77	28.98	15.935	
4,200.00	4,094.37	4,147.96	4,097.32	16.15	15.01	161.80	-310.87	252.57	485.49	455.89	29.60	16.402	
4,300.00	4,190.96	4,244.54	4,193.90	16.55	15.34	162.66	-311.38	253.05	509.63	479.36	30.27	16.835	
4,400.00	4,287.56	4,340.21	4,289.56	16.96	15.67	163.47	-311.53	253.52	533.97	503.04	30.93	17.263	
4,500.00	4,384.15	4,435.66	4,385.01	17.37	15.98	164.25	-311.30	253.81	558.66	527.07	31.58	17.689	
4,600.00	4,480.74	4,531.74	4,481.09	17.78	16.30	165.01	-310.54	254.10	583.58	551.35	32.23	18.107	
4,700.00	4,577.34	4,628.10	4,577.45	18.19	16.61	165.73	-309.62	254.39	608.63	575.75	32.88	18.510	
4,800.00	4,673.93	4,724.25	4,673.59	18.60	16.92	166.40	-308.62	254.66	633.81	600.28	33.53	18.901	
4,900.00	4,770.52	4,818.96	4,768.29	19.01	17.22	167.05	-307.26	254.91	659.20	625.03	34.17	19.292	
5,000.00	4,867.12	4,914.07	4,863.38	19.42	17.53	167.67	-305.46	254.99	684.95	650.14	34.81	19.676	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,963.71	5,009.17	4,958.46	19.83	17.84	168.28	-303.39	255.03	710.91	675.46	35.46	20.051	
5,200.00	5,060.30	5,105.39	5,054.65	20.24	18.15	168.86	-301.05	255.00	737.07	700.96	36.11	20.411	
5,300.00	5,156.90	5,201.65	5,150.88	20.65	18.46	169.43	-298.49	255.11	763.26	726.49	36.77	20.758	
5,400.00	5,253.49	5,294.98	5,244.17	21.06	18.76	169.95	-295.90	255.10	789.64	752.24	37.40	21.113	
5,500.00	5,350.08	5,385.15	5,334.29	21.47	19.06	170.45	-292.78	254.77	816.64	778.64	38.00	21.490	
5,600.00	5,446.68	5,478.76	5,427.80	21.88	19.36	170.99	-288.61	254.13	844.33	805.69	38.64	21.854	
5,612.36	5,458.62	5,490.73	5,439.76	21.93	19.40	171.06	-288.09	254.04	847.75	809.04	38.72	21.896	
5,700.00	5,543.60	5,575.99	5,524.94	22.28	19.68	171.56	-284.52	253.42	870.76	831.45	39.30	22.154	
5,800.00	5,641.32	5,676.41	5,625.30	22.68	20.00	172.05	-280.76	252.72	893.73	853.73	40.00	22.343	
5,900.00	5,739.72	5,779.18	5,728.02	23.06	20.34	172.43	-277.79	252.20	912.87	872.15	40.72	22.419	
6,000.00	5,838.69	5,882.92	5,831.73	23.43	20.68	172.71	-275.67	251.91	928.11	886.66	41.44	22.395	
6,100.00	5,938.09	5,987.03	5,935.84	23.79	21.03	172.85	-275.05	251.66	939.34	897.17	42.17	22.276	
6,200.00	6,037.81	6,096.87	6,045.67	24.13	21.39	172.87	-276.00	251.30	946.69	903.74	42.95	22.044	
6,300.00	6,137.73	7,137.78	6,858.87	24.46	25.53	143.03	-723.44	548.08	931.39	893.98	37.41	24.899	
6,362.28	6,200.00	7,179.13	6,881.08	24.66	25.70	-100.67	-740.67	578.39	883.62	845.82	37.80	23.376	
6,400.00	6,237.72	7,206.50	6,896.22	24.78	25.82	-102.08	-750.40	599.00	854.56	816.60	37.96	22.512	
6,500.00	6,337.72	7,287.05	6,942.10	25.08	26.14	-106.01	-771.21	661.76	777.31	739.23	38.08	20.413	
6,600.00	6,437.72	7,839.60	7,096.93	25.38	28.13	166.57	-813.47	1,173.90	683.88	660.37	23.51	29.087	
6,700.00	6,537.72	7,817.81	7,098.45	25.69	28.05	173.31	-812.00	1,152.21	587.95	563.35	24.60	23.904	
6,731.88	6,569.60	7,812.74	7,098.76	25.79	28.03	174.92	-811.59	1,147.17	557.62	532.59	25.02	22.283	
6,750.00	6,587.72	7,809.30	7,098.95	25.84	28.01	-101.14	-811.29	1,143.74	540.46	515.17	25.30	21.365	
6,775.00	6,612.66	7,802.27	7,099.31	25.91	27.99	-107.07	-810.63	1,136.76	516.96	491.24	25.72	20.097	
6,800.00	6,637.49	7,792.95	7,099.74	25.98	27.95	-111.69	-809.69	1,127.50	493.68	467.47	26.21	18.836	
6,825.00	6,662.13	7,781.66	7,100.16	26.05	27.91	-115.24	-808.41	1,116.29	470.68	443.92	26.76	17.588	
6,850.00	6,686.52	7,770.21	7,100.37	26.11	27.86	-118.24	-807.20	1,104.89	447.95	420.60	27.36	16.374	
6,875.00	6,710.59	7,754.30	7,100.75	26.17	27.80	-119.95	-804.74	1,089.18	425.58	397.51	28.07	15.164	
6,900.00	6,734.27	7,738.25	7,100.74	26.23	27.74	-121.30	-802.37	1,073.31	403.52	374.68	28.84	13.990	
6,925.00	6,757.50	7,722.08	7,100.33	26.29	27.68	-122.31	-800.11	1,057.30	381.83	352.13	29.70	12.858	
6,950.00	6,780.21	7,705.80	7,099.50	26.34	27.62	-123.00	-797.96	1,041.19	360.55	329.92	30.63	11.773	
6,975.00	6,802.35	7,689.44	7,098.25	26.39	27.56	-123.37	-795.93	1,025.00	339.72	308.08	31.63	10.739	
7,000.00	6,823.85	7,673.09	7,096.58	26.44	27.50	-123.45	-794.06	1,008.84	319.40	286.67	32.73	9.759	
7,025.00	6,844.65	7,656.49	7,094.49	26.49	27.44	-123.21	-792.25	992.48	299.67	265.75	33.91	8.837	
7,050.00	6,864.70	7,639.97	7,091.95	26.53	27.38	-122.68	-790.64	976.24	280.58	245.39	35.19	7.974	
7,075.00	6,883.94	7,623.51	7,088.98	26.58	27.32	-121.85	-789.23	960.11	262.25	225.68	36.56	7.172	
7,100.00	6,902.32	7,607.11	7,085.56	26.62	27.27	-120.71	-788.01	944.12	244.77	206.74	38.04	6.435	
7,125.00	6,919.79	7,590.76	7,081.72	26.65	27.21	-119.25	-787.00	928.25	228.30	188.68	39.61	5.763	
7,150.00	6,936.29	7,574.44	7,077.46	26.69	27.15	-117.46	-786.17	912.53	212.97	171.70	41.28	5.160	
7,175.00	6,951.79	7,558.26	7,072.80	26.72	27.10	-115.34	-785.55	897.04	198.98	155.99	43.00	4.628	
7,200.00	6,966.25	7,540.94	7,067.33	26.75	27.04	-112.57	-785.06	880.61	186.50	141.66	44.84	4.159	
7,225.00	6,979.61	7,523.86	7,061.44	26.78	26.98	-109.49	-784.71	864.59	175.70	129.08	46.62	3.769	
7,250.00	6,991.86	7,506.98	7,055.12	26.81	26.92	-106.08	-784.50	848.94	166.82	118.56	48.26	3.457	
7,275.00	7,002.94	7,490.30	7,048.41	26.84	26.87	-102.36	-784.42	833.67	160.05	110.41	49.64	3.224	
7,300.00	7,012.84	7,474.72	7,041.73	26.86	26.82	-98.63	-784.44	819.59	155.56	104.94	50.62	3.073	
7,325.00	7,021.52	7,455.04	7,032.76	26.88	26.75	-93.50	-784.56	802.08	153.37	101.97	51.40	2.984	
7,340.90	7,026.40	7,442.49	7,026.81	26.89	26.70	-90.16	-784.49	791.03	152.99	101.36	51.63	2.963	ES
7,350.00	7,028.97	7,435.30	7,023.32	26.90	26.68	-88.23	-784.39	784.74	153.11	101.43	51.67	2.963	SF
7,375.00	7,035.15	7,415.51	7,013.43	26.92	26.61	-82.90	-783.93	767.60	154.60	103.11	51.49	3.002	
7,400.00	7,040.06	7,395.68	7,003.10	26.94	26.54	-77.60	-783.17	750.70	157.62	106.67	50.95	3.094	
7,425.00	7,043.68	7,376.19	6,992.55	26.95	26.48	-72.51	-782.15	734.35	161.90	111.73	50.18	3.227	
7,450.00	7,046.00	7,352.26	6,979.21	26.96	26.39	-66.70	-780.34	714.56	166.99	117.84	49.15	3.398	
7,475.00	7,047.01	7,327.87	6,965.45	26.97	26.29	-61.22	-777.64	694.60	172.31	124.34	47.97	3.592	
7,489.85	7,047.00	7,313.21	6,957.11	26.98	26.24	-58.14	-775.60	682.72	175.47	128.24	47.23	3.715	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.00	7,046.83	7,303.20	6,951.39	26.98	26.20	-56.32	-774.04	674.67	177.66	130.95	46.71	3.803	
7,600.00	7,045.16	7,199.70	6,892.43	27.05	25.79	-37.86	-748.10	593.84	202.81	162.24	40.57	4.999	
7,700.00	7,043.49	7,104.16	6,841.47	27.15	25.38	-21.37	-707.25	524.30	234.80	198.91	35.89	6.542	
7,800.00	7,041.82	7,033.20	6,806.27	27.31	25.08	-9.74	-667.79	477.03	277.80	241.44	36.36	7.639	
7,900.00	7,040.15	6,979.09	6,779.96	27.51	24.85	-1.65	-634.08	443.90	333.11	293.95	39.17	8.505	
8,000.00	7,038.48	6,938.52	6,759.12	27.76	24.68	3.63	-608.11	420.73	399.00	357.00	42.00	9.500	
8,100.00	7,036.81	6,894.99	6,735.19	28.06	24.50	8.45	-580.11	397.52	472.39	428.65	43.75	10.798	
8,200.00	7,035.14	6,873.25	6,722.52	28.40	24.41	10.52	-566.22	386.62	550.80	505.31	45.49	12.108	
8,300.00	7,033.48	6,847.95	6,706.96	28.79	24.30	12.63	-550.32	374.59	633.21	586.67	46.53	13.608	
8,400.00	7,031.81	6,806.99	6,679.96	29.22	24.13	15.43	-525.28	356.66	718.98	672.04	46.94	15.317	
8,500.00	7,030.14	6,806.99	6,679.96	29.70	24.13	15.43	-525.28	356.66	805.94	758.10	47.83	16.848	
8,600.00	7,028.47	6,778.91	6,660.38	30.21	24.02	16.96	-508.69	345.26	894.88	846.77	48.11	18.602	
8,700.00	7,026.80	6,755.12	6,643.27	30.75	23.92	18.05	-495.05	335.95	984.90	936.55	48.35	20.372	
8,800.00	7,025.13	6,712.99	6,611.82	31.33	23.74	19.58	-471.81	320.27	1,076.15	1,027.81	48.33	22.265	
8,900.00	7,023.46	6,712.99	6,611.82	31.94	23.74	19.58	-471.81	320.27	1,167.49	1,118.81	48.69	23.979	
9,000.00	7,021.79	6,712.99	6,611.82	32.58	23.74	19.58	-471.81	320.27	1,260.16	1,211.20	48.96	25.741	
9,100.00	7,020.12	6,675.57	6,582.70	33.25	23.59	20.59	-452.22	307.28	1,352.78	1,303.88	48.91	27.660	
9,200.00	7,018.45	6,659.07	6,569.52	33.94	23.52	20.94	-443.91	301.86	1,446.25	1,397.26	48.99	29.520	
9,300.00	7,016.78	6,617.99	6,535.85	34.66	23.35	21.61	-424.11	289.16	1,540.65	1,491.74	48.91	31.500	
9,400.00	7,015.11	6,617.99	6,535.85	35.39	23.35	21.61	-424.11	289.16	1,634.61	1,585.54	49.06	33.315	
9,500.00	7,013.45	6,617.99	6,535.85	36.15	23.35	21.61	-424.11	289.16	1,729.24	1,680.05	49.19	35.153	
9,600.00	7,011.78	6,617.99	6,535.85	36.93	23.35	21.61	-424.11	289.16	1,824.45	1,775.15	49.30	37.010	
9,700.00	7,010.11	6,617.99	6,535.85	37.72	23.35	21.61	-424.11	289.16	1,920.14	1,870.76	49.38	38.883	
9,800.00	7,008.44	6,581.87	6,505.30	38.54	23.21	22.00	-407.72	279.06	2,015.36	1,966.04	49.31	40.869	
9,900.00	7,006.77	6,571.93	6,496.75	39.36	23.17	22.08	-403.36	276.47	2,111.29	2,061.94	49.35	42.784	
10,000.00	7,005.10	6,562.55	6,488.62	40.20	23.13	22.15	-399.32	274.10	2,207.46	2,158.08	49.38	44.704	
10,100.00	7,003.43	6,523.99	6,454.68	41.06	22.97	22.32	-383.37	265.13	2,304.44	2,255.13	49.30	46.740	
10,200.00	7,001.76	6,523.99	6,454.68	41.93	22.97	22.32	-383.37	265.13	2,400.74	2,351.38	49.36	48.634	
10,300.00	7,000.09	6,523.99	6,454.68	42.81	22.97	22.32	-383.37	265.13	2,497.34	2,447.92	49.42	50.535	

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 274H - OH - OH — **Offset Site Error:** 0.00 usft

Survey Program: 26-SuperiorQC MWD+IFR1+SAG+FDIR — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	16.70	0.00	0.00	177.80	-2,088.50	80.20	2,090.11				
100.00	100.00	78.48	95.18	0.25	0.19	177.81	-2,088.57	79.99	2,090.11	2,089.67	0.44	4,769.867	
200.00	200.00	188.68	205.37	0.61	0.58	177.84	-2,088.88	78.96	2,090.38	2,089.19	1.19	1,755.507	
247.79	247.79	231.09	247.79	0.78	0.73	177.84	-2,088.82	78.88	2,090.31	2,088.80	1.51	1,386.192	
300.00	300.00	276.78	293.47	0.97	0.88	177.84	-2,088.86	78.79	2,090.36	2,088.51	1.85	1,128.933	
400.00	400.00	374.83	391.52	1.33	1.23	177.86	-2,089.04	77.98	2,090.51	2,087.95	2.56	816.972	
500.00	500.00	488.75	505.44	1.68	1.63	177.88	-2,088.75	77.41	2,090.19	2,086.87	3.32	630.418	
600.00	600.00	591.21	607.90	2.04	1.98	177.87	-2,088.43	77.52	2,089.88	2,085.86	4.03	518.900	
700.00	699.98	688.98	705.66	2.39	2.32	58.58	-2,088.06	77.67	2,088.60	2,083.89	4.71	443.095	
800.00	799.84	785.07	801.75	2.73	2.66	58.74	-2,087.89	77.73	2,085.70	2,080.32	5.39	387.076	
900.00	899.45	882.72	899.40	3.08	3.00	59.01	-2,087.85	78.06	2,081.15	2,075.08	6.07	342.779	
1,000.00	998.70	977.43	994.11	3.42	3.33	59.37	-2,087.91	78.88	2,074.97	2,068.22	6.75	307.433	
1,100.00	1,097.47	1,067.10	1,083.76	3.78	3.64	59.78	-2,088.24	80.91	2,067.40	2,059.98	7.42	278.798	
1,200.00	1,195.62	1,157.83	1,174.41	4.14	3.96	60.25	-2,088.97	84.47	2,058.60	2,050.51	8.09	254.431	
1,300.00	1,293.06	1,248.40	1,264.84	4.51	4.27	60.79	-2,089.99	89.45	2,048.53	2,039.76	8.77	233.519	
1,349.92	1,341.38	1,293.67	1,310.01	4.70	4.43	61.09	-2,090.64	92.36	2,043.05	2,033.94	9.12	224.131	
1,400.00	1,389.76	1,340.27	1,356.47	4.89	4.60	61.29	-2,091.37	95.80	2,037.45	2,027.98	9.46	215.271	
1,500.00	1,486.35	1,433.75	1,449.55	5.27	4.93	61.65	-2,093.01	104.32	2,026.52	2,016.35	10.17	199.314	
1,600.00	1,582.95	1,518.65	1,533.88	5.66	5.23	61.93	-2,094.82	113.97	2,016.04	2,005.19	10.84	185.898	
1,700.00	1,679.54	1,603.15	1,617.58	6.05	5.53	62.17	-2,097.39	125.30	2,006.47	1,994.95	11.53	174.093	
1,800.00	1,776.13	1,701.06	1,714.36	6.44	5.89	62.40	-2,100.78	139.70	1,997.35	1,985.09	12.26	162.937	
1,900.00	1,872.73	1,804.69	1,816.75	6.83	6.26	62.64	-2,104.16	155.33	1,988.05	1,975.04	13.02	152.735	
2,000.00	1,969.32	1,905.73	1,916.58	7.23	6.63	62.87	-2,107.35	170.58	1,978.69	1,964.92	13.77	143.716	
2,100.00	2,065.91	2,006.30	2,016.00	7.63	7.00	63.11	-2,110.42	185.47	1,969.26	1,954.74	14.52	135.614	
2,200.00	2,162.50	2,104.71	2,113.25	8.03	7.36	63.35	-2,113.41	200.18	1,959.85	1,944.58	15.27	128.356	
2,300.00	2,259.10	2,223.75	2,230.98	8.43	7.79	63.65	-2,116.61	217.50	1,950.17	1,934.08	16.09	121.193	
2,400.00	2,355.69	2,334.36	2,340.80	8.83	8.19	64.03	-2,118.39	230.55	1,939.56	1,922.67	16.88	114.878	
2,500.00	2,452.28	2,446.71	2,452.71	9.23	8.60	64.52	-2,119.25	240.43	1,928.33	1,910.65	17.68	109.069	
2,600.00	2,548.88	2,541.09	2,546.91	9.64	8.94	65.02	-2,119.46	245.96	1,916.87	1,898.45	18.42	104.090	
2,700.00	2,645.47	2,621.62	2,627.40	10.04	9.23	65.51	-2,120.16	248.60	1,906.36	1,887.25	19.10	99.785	
2,800.00	2,742.06	2,731.51	2,737.28	10.44	9.62	66.25	-2,120.89	250.24	1,896.03	1,876.13	19.89	95.321	
2,900.00	2,838.66	2,833.61	2,839.37	10.85	9.98	66.96	-2,121.11	251.39	1,885.57	1,864.92	20.65	91.297	
3,000.00	2,935.25	2,933.53	2,939.29	11.26	10.33	67.66	-2,121.03	252.31	1,875.10	1,853.69	21.41	87.580	
3,100.00	3,031.84	3,028.32	3,034.07	11.66	10.67	68.35	-2,120.92	252.76	1,864.95	1,842.80	22.15	84.188	
3,200.00	3,128.44	3,122.58	3,128.33	12.07	11.00	69.04	-2,120.88	252.97	1,855.19	1,832.30	22.89	81.042	
3,300.00	3,225.03	3,215.30	3,221.05	12.47	11.32	69.74	-2,120.99	253.02	1,845.91	1,822.29	23.62	78.145	
3,400.00	3,321.62	3,308.40	3,314.16	12.88	11.64	70.45	-2,121.27	252.86	1,837.16	1,812.81	24.35	75.459	
3,500.00	3,418.22	3,406.30	3,412.05	13.29	11.96	71.21	-2,121.63	252.50	1,828.83	1,803.75	25.08	72.910	
3,600.00	3,514.81	3,507.96	3,513.71	13.70	12.31	72.01	-2,121.74	252.02	1,820.60	1,794.76	25.84	70.464	
3,700.00	3,611.40	3,606.63	3,612.38	14.10	12.65	72.77	-2,121.77	252.29	1,812.50	1,785.91	26.59	68.155	
3,800.00	3,708.00	3,708.32	3,714.06	14.51	13.01	73.56	-2,121.71	252.72	1,804.62	1,777.25	27.37	65.945	
3,900.00	3,804.59	3,810.65	3,816.40	14.92	13.38	74.36	-2,121.28	253.24	1,796.70	1,768.56	28.14	63.853	
4,000.00	3,901.18	3,911.54	3,917.28	15.33	13.73	75.15	-2,120.63	253.88	1,788.87	1,759.97	28.91	61.885	
4,100.00	3,997.78	4,009.71	4,015.44	15.74	14.08	75.94	-2,119.79	254.43	1,781.21	1,751.55	29.67	60.044	
4,200.00	4,094.37	4,105.53	4,111.26	16.15	14.41	76.71	-2,118.94	254.87	1,773.88	1,743.46	30.42	58.318	
4,300.00	4,190.96	4,207.27	4,212.99	16.55	14.77	77.53	-2,117.95	255.37	1,766.81	1,735.62	31.19	56.650	
4,400.00	4,287.56	4,305.93	4,311.65	16.96	15.11	78.34	-2,116.76	255.92	1,759.86	1,727.91	31.95	55.081	
4,500.00	4,384.15	4,405.78	4,411.48	17.37	15.46	79.16	-2,115.44	256.60	1,753.13	1,720.42	32.72	53.584	
4,600.00	4,480.74	4,500.61	4,506.31	17.78	15.80	79.95	-2,114.16	257.28	1,746.72	1,713.25	33.47	52.189	
4,700.00	4,577.34	4,599.78	4,605.46	18.19	16.15	80.77	-2,112.77	257.97	1,740.64	1,706.41	34.24	50.843	
4,800.00	4,673.93	4,695.12	4,700.79	18.60	16.48	81.57	-2,111.43	258.68	1,734.91	1,699.92	34.99	49.583	
4,900.00	4,770.52	4,793.53	4,799.19	19.01	16.83	82.40	-2,110.03	259.40	1,729.53	1,693.78	35.75	48.372	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 274H - OH - OH — **Offset Site Error:** 0.00 usft

Survey Program: 26-SuperiorQC MWD+IFR1+SAG+FDIR — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,867.12	4,896.19	4,901.83	19.42	17.19	83.27	-2,108.34	260.28	1,724.28	1,687.75	36.53	47.198	
5,100.00	4,963.71	4,988.68	4,994.30	19.83	17.52	84.05	-2,106.72	261.35	1,719.22	1,681.94	37.28	46.116	
5,200.00	5,060.30	5,065.99	5,071.60	20.24	17.79	84.69	-2,106.34	262.29	1,715.55	1,677.57	37.98	45.173	
5,300.00	5,156.90	5,162.21	5,167.82	20.65	18.13	85.48	-2,106.53	263.60	1,712.85	1,674.11	38.74	44.218	
5,400.00	5,253.49	5,255.99	5,261.58	21.06	18.47	86.25	-2,106.46	265.19	1,710.12	1,670.64	39.49	43.307	
5,500.00	5,350.08	5,331.25	5,336.83	21.47	18.73	86.87	-2,106.77	265.99	1,708.49	1,668.33	40.16	42.537	
5,600.00	5,446.68	5,432.00	5,437.58	21.88	19.08	87.73	-2,107.86	266.12	1,708.16	1,667.23	40.93	41.735	
5,612.36	5,458.62	5,446.02	5,451.59	21.93	19.13	87.84	-2,107.97	266.18	1,708.10	1,667.07	41.03	41.631	
5,700.00	5,543.60	5,536.92	5,542.49	22.28	19.45	88.56	-2,108.48	266.70	1,707.62	1,665.91	41.71	40.942	
5,800.00	5,641.32	5,634.99	5,640.56	22.68	19.79	89.22	-2,108.83	267.36	1,707.20	1,664.75	42.45	40.214	
5,830.90	5,671.66	5,662.77	5,668.34	22.80	19.89	89.39	-2,108.92	267.47	1,707.15	1,664.49	42.67	40.012	
5,900.00	5,739.72	5,721.52	5,727.09	23.06	20.09	89.75	-2,109.06	267.16	1,707.39	1,664.26	43.13	39.586	
6,000.00	5,838.69	5,821.78	5,827.34	23.43	20.42	90.27	-2,109.22	265.93	1,708.14	1,664.31	43.84	38.965	
6,100.00	5,938.09	5,925.21	5,930.77	23.79	20.77	90.68	-2,109.43	265.12	1,708.80	1,664.25	44.54	38.362	
6,200.00	6,037.81	6,035.98	6,041.54	24.13	21.15	90.97	-2,109.46	264.98	1,709.00	1,663.72	45.28	37.745	
6,300.00	6,137.73	6,146.43	6,151.99	24.46	21.55	91.10	-2,109.10	265.44	1,708.58	1,662.58	46.00	37.139	
6,362.28	6,200.00	6,217.69	6,223.24	24.66	21.80	-149.55	-2,108.62	266.17	1,707.91	1,661.45	46.45	36.765	
6,400.00	6,237.72	7,595.37	7,025.48	24.78	26.48	-178.80	-2,139.18	1,100.16	1,697.03	1,651.82	45.21	37.540	
6,500.00	6,337.72	7,599.22	7,025.62	25.08	26.50	-178.95	-2,139.19	1,104.00	1,652.98	1,606.45	46.53	35.528	
6,600.00	6,437.72	7,603.06	7,025.76	25.38	26.51	-179.09	-2,139.20	1,107.84	1,613.92	1,566.12	47.81	33.759	
6,700.00	6,537.72	7,606.89	7,025.89	25.69	26.53	-179.24	-2,139.20	1,111.67	1,580.23	1,531.21	49.02	32.235	
6,731.88	6,569.60	7,608.11	7,025.94	25.79	26.53	-179.29	-2,139.20	1,112.88	1,570.67	1,521.28	49.39	31.801	
6,750.00	6,587.72	7,608.44	7,025.95	25.84	26.54	-90.77	-2,139.21	1,113.21	1,565.51	1,515.91	49.59	31.567	
6,775.00	6,612.66	7,607.70	7,025.92	25.91	26.53	-91.59	-2,139.20	1,112.48	1,558.71	1,508.86	49.86	31.264	
6,800.00	6,637.49	7,605.58	7,025.85	25.98	26.52	-92.30	-2,139.20	1,110.36	1,552.32	1,502.22	50.11	30.981	
6,825.00	6,662.13	7,602.09	7,025.72	26.05	26.51	-92.91	-2,139.20	1,106.88	1,546.36	1,496.02	50.34	30.720	
6,850.00	6,686.52	7,597.25	7,025.54	26.11	26.49	-93.41	-2,139.19	1,102.03	1,540.83	1,490.28	50.55	30.480	
6,875.00	6,710.59	7,591.05	7,025.32	26.17	26.47	-93.80	-2,139.18	1,095.84	1,535.75	1,485.00	50.75	30.261	
6,900.00	6,734.27	7,583.53	7,025.05	26.23	26.44	-94.09	-2,139.16	1,088.32	1,531.11	1,480.18	50.93	30.063	
6,925.00	6,757.50	7,574.70	7,024.72	26.29	26.40	-94.28	-2,139.14	1,079.50	1,526.92	1,475.83	51.09	29.886	
6,950.00	6,780.21	7,564.60	7,024.35	26.34	26.36	-94.39	-2,139.11	1,069.40	1,523.17	1,471.93	51.24	29.729	
6,975.00	6,802.35	7,553.24	7,023.93	26.39	26.31	-94.40	-2,139.08	1,058.05	1,519.85	1,468.49	51.36	29.592	
7,000.00	6,823.85	7,540.79	7,023.47	26.44	26.27	-94.33	-2,139.03	1,045.62	1,516.94	1,465.47	51.47	29.473	
7,025.00	6,844.65	7,527.59	7,022.99	26.49	26.22	-94.21	-2,138.99	1,032.42	1,514.43	1,462.87	51.56	29.369	
7,050.00	6,864.70	7,513.26	7,022.47	26.53	26.17	-94.02	-2,138.93	1,018.10	1,512.30	1,460.66	51.64	29.283	
7,075.00	6,883.94	7,497.84	7,021.91	26.58	26.11	-93.77	-2,138.88	1,002.70	1,510.53	1,458.83	51.71	29.213	
7,100.00	6,902.32	7,481.39	7,021.32	26.62	26.05	-93.47	-2,138.81	986.25	1,509.09	1,457.34	51.76	29.157	
7,125.00	6,919.79	7,463.94	7,020.71	26.65	25.99	-93.12	-2,138.74	968.82	1,507.96	1,456.17	51.79	29.116	
7,150.00	6,936.29	7,445.48	7,020.06	26.69	25.92	-92.74	-2,138.66	950.36	1,507.10	1,455.28	51.81	29.086	
7,175.00	6,951.79	7,425.83	7,019.37	26.72	25.86	-92.33	-2,138.57	930.73	1,506.48	1,454.64	51.83	29.065	
7,200.00	6,966.25	7,405.36	7,018.64	26.75	25.79	-91.91	-2,138.47	910.27	1,506.06	1,454.23	51.84	29.054	
7,225.00	6,979.61	7,384.12	7,017.86	26.78	25.72	-91.48	-2,138.35	889.05	1,505.83	1,454.00	51.83	29.051 SF	
7,245.89	6,989.92	7,372.94	7,017.35	26.81	25.68	-91.26	-2,138.25	877.88	1,505.72	1,453.89	51.83	29.052	
7,250.00	6,991.86	7,367.07	7,017.18	26.81	25.66	-91.15	-2,138.23	872.01	1,505.73	1,453.91	51.82	29.054	
7,275.00	7,002.94	7,331.19	7,015.71	26.84	25.56	-90.49	-2,137.97	836.16	1,505.74	1,453.95	51.79	29.072	
7,300.00	7,012.84	7,295.11	7,013.48	26.86	25.45	-89.88	-2,137.38	800.16	1,505.64	1,453.89	51.75	29.092	
7,325.00	7,021.52	7,258.89	7,010.47	26.88	25.35	-89.33	-2,136.46	764.07	1,505.42	1,453.71	51.71	29.114	
7,350.00	7,028.97	7,229.63	7,006.85	26.90	25.26	-88.90	-2,135.52	735.06	1,505.10	1,453.44	51.67	29.131	
7,375.00	7,035.15	7,201.28	7,001.66	26.92	25.18	-88.49	-2,134.47	707.21	1,504.74	1,453.12	51.62	29.149	
7,400.00	7,040.06	7,173.76	6,995.06	26.94	25.10	-88.09	-2,133.34	680.52	1,504.34	1,452.77	51.57	29.168	
7,425.00	7,043.68	7,150.92	6,988.45	26.95	25.03	-87.77	-2,132.32	658.68	1,503.92	1,452.39	51.53	29.187	
7,450.00	7,046.00	7,130.62	6,981.77	26.96	24.96	-87.49	-2,131.43	639.53	1,503.55	1,452.07	51.48	29.207	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 274H - OH - OH — **Offset Site Error:** 0.00 usft

Survey Program: 26-SuperiorQC MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,475.00	7,047.01	7,110.53	6,974.45	26.97	24.90	-87.22	-2,130.55	620.85	1,503.24	1,451.81	51.43	29.230	
7,489.85	7,047.00	7,098.70	6,969.81	26.98	24.86	-87.07	-2,130.04	609.98	1,503.07	1,451.68	51.40	29.245	
7,500.00	7,046.83	7,090.68	6,966.52	26.98	24.84	-86.94	-2,129.70	602.67	1,502.98	1,451.60	51.38	29.255	
7,549.42	7,046.00	7,050.25	6,948.29	27.01	24.71	-86.27	-2,127.99	566.64	1,502.78	1,451.49	51.28	29.305	CC, ES
7,600.00	7,045.16	7,008.40	6,926.57	27.05	24.57	-85.46	-2,126.11	530.93	1,503.01	1,451.83	51.17	29.371	
7,700.00	7,043.49	6,919.82	6,871.97	27.15	24.28	-83.42	-2,121.37	461.45	1,505.03	1,454.09	50.95	29.542	
7,800.00	7,041.82	6,857.19	6,827.47	27.31	24.07	-81.75	-2,116.89	417.65	1,509.50	1,458.69	50.81	29.709	
7,900.00	7,040.15	6,819.66	6,798.57	27.51	23.94	-80.67	-2,114.35	393.85	1,518.53	1,467.73	50.80	29.890	
8,000.00	7,038.48	6,784.99	6,770.48	27.76	23.82	-79.62	-2,112.26	373.64	1,532.64	1,481.80	50.84	30.144	
8,100.00	7,036.81	6,784.99	6,770.48	28.06	23.82	-79.62	-2,112.26	373.64	1,552.38	1,501.29	51.09	30.386	
8,200.00	7,035.14	6,738.33	6,730.73	28.40	23.66	-78.15	-2,109.88	349.36	1,576.60	1,525.48	51.11	30.845	
8,300.00	7,033.48	6,689.99	6,687.44	28.79	23.49	-76.55	-2,108.03	327.96	1,607.05	1,555.92	51.13	31.429	
8,400.00	7,031.81	6,689.99	6,687.44	29.22	23.49	-76.55	-2,108.03	327.96	1,641.36	1,589.92	51.44	31.909	
8,500.00	7,030.14	6,689.99	6,687.44	29.70	23.49	-76.55	-2,108.03	327.96	1,680.93	1,629.19	51.74	32.487	
8,600.00	7,028.47	6,689.99	6,687.44	30.21	23.49	-76.55	-2,108.03	327.96	1,725.40	1,673.36	52.03	33.159	
8,700.00	7,026.80	6,654.69	6,654.78	30.75	23.36	-75.37	-2,107.03	314.62	1,773.44	1,721.30	52.14	34.012	
8,800.00	7,025.13	6,641.66	6,642.56	31.33	23.32	-74.93	-2,106.73	310.12	1,825.73	1,773.38	52.35	34.874	
8,900.00	7,023.46	6,629.83	6,631.39	31.94	23.27	-74.53	-2,106.49	306.24	1,881.65	1,829.10	52.56	35.802	
9,000.00	7,021.79	6,594.99	6,598.11	32.58	23.15	-73.34	-2,105.94	295.93	1,941.39	1,888.75	52.64	36.881	
9,100.00	7,020.12	6,594.99	6,598.11	33.25	23.15	-73.34	-2,105.94	295.93	2,003.43	1,950.56	52.87	37.891	
9,200.00	7,018.45	6,594.99	6,598.11	33.94	23.15	-73.34	-2,105.94	295.93	2,068.45	2,015.36	53.09	38.963	
9,300.00	7,016.78	6,594.99	6,598.11	34.66	23.15	-73.34	-2,105.94	295.93	2,136.18	2,082.89	53.28	40.091	
9,400.00	7,015.11	6,594.99	6,598.11	35.39	23.15	-73.34	-2,105.94	295.93	2,206.36	2,152.90	53.46	41.271	
9,500.00	7,013.45	6,594.99	6,598.11	36.15	23.15	-73.34	-2,105.94	295.93	2,278.76	2,225.14	53.62	42.498	
9,600.00	7,011.78	6,594.99	6,598.11	36.93	23.15	-73.34	-2,105.94	295.93	2,353.19	2,299.43	53.77	43.768	
9,700.00	7,010.11	6,594.99	6,598.11	37.72	23.15	-73.34	-2,105.94	295.93	2,429.46	2,375.56	53.90	45.076	

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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: 26-SuperiorQC MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.30	0.00	0.00	0.00	9.01	2,043.10	324.10	2,068.65				
100.00	100.00	98.05	97.75	0.25	0.13	9.02	2,043.13	324.18	2,068.69	2,068.31	0.38	5,461.376	
200.00	200.00	195.08	194.78	0.61	0.31	9.02	2,043.25	324.53	2,068.87	2,067.95	0.92	2,256.212	
300.00	300.00	293.69	293.39	0.97	0.66	9.04	2,043.45	325.11	2,069.16	2,067.53	1.63	1,270.261	
400.00	400.00	376.14	375.83	1.33	0.96	9.05	2,043.86	325.57	2,069.77	2,067.49	2.28	907.090 ES	
500.00	500.00	455.30	454.98	1.68	1.23	9.05	2,044.97	325.56	2,071.21	2,068.29	2.92	709.657	
600.00	600.00	560.01	559.67	2.04	1.60	9.02	2,047.31	324.87	2,073.32	2,069.67	3.64	568.995	
700.00	699.98	656.45	656.08	2.39	1.94	-110.36	2,049.36	324.25	2,075.92	2,071.59	4.33	479.281	
800.00	799.84	752.16	751.76	2.73	2.28	-110.43	2,051.59	323.83	2,079.98	2,074.97	5.01	415.131	
900.00	899.45	851.61	851.18	3.08	2.64	-110.57	2,053.96	323.53	2,085.36	2,079.65	5.71	365.175	
1,000.00	998.70	920.30	919.86	3.42	2.88	-110.66	2,055.59	323.39	2,092.24	2,085.94	6.31	331.825	
1,100.00	1,097.47	1,013.55	1,013.05	3.78	3.22	-110.87	2,058.61	323.07	2,101.10	2,094.11	6.99	300.466	
1,200.00	1,195.62	1,106.30	1,105.69	4.14	3.55	-111.15	2,063.25	322.44	2,112.92	2,105.23	7.68	275.010	
1,300.00	1,293.06	1,166.29	1,165.57	4.51	3.76	-111.27	2,066.86	321.90	2,126.90	2,118.64	8.26	257.564	
1,349.92	1,341.38	1,209.98	1,209.16	4.70	3.92	-111.42	2,069.59	321.45	2,134.68	2,126.08	8.60	248.307	
1,400.00	1,389.76	1,253.63	1,252.72	4.89	4.07	-111.72	2,072.40	320.96	2,142.81	2,133.87	8.94	239.780	
1,500.00	1,486.35	1,341.39	1,340.28	5.27	4.39	-112.34	2,078.33	319.82	2,159.54	2,149.92	9.62	224.509	
1,600.00	1,582.95	1,429.64	1,428.29	5.66	4.70	-112.96	2,084.59	318.39	2,176.88	2,166.57	10.31	211.238	
1,700.00	1,679.54	1,522.60	1,520.98	6.05	5.04	-113.61	2,091.48	316.55	2,194.78	2,183.77	11.01	199.318	
1,800.00	1,776.13	1,624.43	1,622.51	6.44	5.40	-114.32	2,098.86	314.08	2,212.82	2,201.06	11.75	188.276	
1,900.00	1,872.73	1,726.96	1,724.75	6.83	5.77	-115.04	2,105.98	311.18	2,230.86	2,218.36	12.50	178.487	
2,000.00	1,969.32	1,830.51	1,828.04	7.23	6.14	-115.74	2,112.78	308.40	2,248.84	2,235.59	13.25	169.734	
2,100.00	2,065.91	1,938.23	1,935.52	7.63	6.53	-116.46	2,119.37	305.71	2,266.70	2,252.68	14.02	161.715	
2,200.00	2,162.50	2,048.18	2,045.27	8.03	6.92	-117.18	2,125.40	302.98	2,284.24	2,269.45	14.79	154.411	
2,300.00	2,259.10	2,181.40	2,178.33	8.43	7.40	-118.04	2,131.21	299.90	2,300.99	2,285.33	15.66	146.943	
2,400.00	2,355.69	2,314.57	2,311.42	8.83	7.87	-118.86	2,134.78	297.29	2,316.38	2,299.86	16.52	140.218	
2,500.00	2,452.28	2,446.11	2,442.94	9.23	8.33	-119.65	2,136.26	295.09	2,330.54	2,313.17	17.37	134.172	
2,600.00	2,548.88	2,540.54	2,537.35	9.64	8.66	-120.21	2,136.70	293.52	2,344.31	2,326.23	18.08	129.664	
2,700.00	2,645.47	2,639.77	2,636.57	10.04	9.01	-120.80	2,137.11	291.71	2,358.26	2,339.46	18.81	125.395	
2,800.00	2,742.06	2,753.06	2,749.84	10.44	9.40	-121.46	2,137.05	289.83	2,372.01	2,352.43	19.58	121.150	
2,900.00	2,838.66	2,866.20	2,862.97	10.85	9.78	-122.10	2,136.20	288.37	2,385.29	2,364.95	20.35	117.235	
3,000.00	2,935.25	2,979.12	2,975.87	11.26	10.16	-122.72	2,134.61	287.50	2,398.13	2,377.02	21.11	113.619	
3,100.00	3,031.84	3,075.43	3,072.16	11.66	10.48	-123.24	2,132.87	287.08	2,410.77	2,388.97	21.81	110.538	
3,200.00	3,128.44	3,166.55	3,163.27	12.07	10.79	-123.72	2,131.40	286.55	2,423.82	2,401.32	22.49	107.758	
3,300.00	3,225.03	3,259.68	3,256.39	12.47	11.10	-124.21	2,130.08	285.93	2,437.25	2,414.07	23.19	105.122	
3,400.00	3,321.62	3,353.77	3,350.48	12.88	11.42	-124.70	2,128.87	285.45	2,450.99	2,427.11	23.88	102.635	
3,500.00	3,418.22	3,440.74	3,437.44	13.29	11.72	-125.15	2,127.96	285.06	2,465.16	2,440.61	24.55	100.408	
3,600.00	3,514.81	3,528.68	3,525.38	13.70	12.02	-125.60	2,127.38	284.60	2,479.88	2,454.65	25.23	98.301	
3,700.00	3,611.40	3,615.76	3,612.46	14.10	12.32	-126.03	2,127.10	284.07	2,495.13	2,469.22	25.90	96.325 SF	

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	4.00	0.00	0.00	0.55	210.00	2.00	210.05				
100.00	100.00	94.70	98.70	0.25	0.12	0.51	210.22	1.88	210.23	209.85	0.37	560.841	
200.00	200.00	194.86	198.85	0.61	0.45	0.42	210.80	1.53	210.81	209.75	1.06	198.556	
300.00	300.00	295.74	299.73	0.97	0.81	0.24	211.08	0.88	211.08	209.31	1.78	118.810	
400.00	400.00	397.46	401.45	1.33	1.16	0.12	210.77	0.43	210.77	208.29	2.49	84.753	
500.00	500.00	498.37	502.35	1.68	1.51	0.00	209.66	0.01	209.67	206.47	3.19	65.626	
600.00	600.00	597.80	601.78	2.04	1.86	-0.21	208.62	-0.76	208.63	204.73	3.90	53.459	
638.29	638.29	635.70	639.67	2.18	1.99	-119.70	208.33	-1.04	208.47	204.30	4.17	50.000 CC	
700.00	699.98	697.12	701.09	2.39	2.21	-120.17	207.97	-1.47	208.85	204.25	4.60	45.388 ES	
800.00	799.84	797.52	801.48	2.73	2.57	-121.55	207.37	-2.15	210.96	205.66	5.30	39.818	
900.00	899.45	899.46	903.42	3.08	2.93	-123.69	206.08	-2.74	214.44	208.44	6.00	35.717	
1,000.00	998.70	1,000.80	1,004.73	3.42	3.29	-126.35	203.70	-2.74	219.12	212.41	6.71	32.659	
1,100.00	1,097.47	1,098.05	1,101.94	3.78	3.63	-129.32	201.31	-2.32	226.30	218.90	7.41	30.560	
1,200.00	1,195.62	1,191.99	1,195.88	4.14	3.96	-132.37	200.44	-1.50	237.83	229.74	8.09	29.414	
1,300.00	1,293.06	1,283.93	1,287.80	4.51	4.27	-135.33	201.65	-0.45	254.60	245.85	8.75	29.092	
1,349.92	1,341.38	1,329.65	1,333.49	4.70	4.42	-136.75	203.06	0.14	265.00	255.92	9.08	29.174	
1,400.00	1,389.76	1,375.47	1,379.27	4.89	4.58	-138.22	204.96	0.85	276.39	266.98	9.41	29.364	
1,500.00	1,486.35	1,469.66	1,473.31	5.27	4.90	-140.73	209.95	2.77	300.49	290.41	10.08	29.811	
1,600.00	1,582.95	1,565.84	1,569.27	5.66	5.23	-142.71	215.75	5.66	325.34	314.58	10.76	30.239	
1,700.00	1,679.54	1,661.46	1,664.59	6.05	5.56	-144.21	222.07	9.59	350.53	339.10	11.44	30.648	
1,800.00	1,776.13	1,756.54	1,759.30	6.44	5.89	-145.33	229.09	14.32	376.21	364.09	12.12	31.051	
1,900.00	1,872.73	1,850.47	1,852.74	6.83	6.22	-146.13	236.94	19.81	402.44	389.65	12.79	31.467	
2,000.00	1,969.32	1,942.56	1,944.17	7.23	6.54	-146.62	245.94	26.10	429.50	416.04	13.45	31.924	
2,100.00	2,065.91	2,035.86	2,036.58	7.63	6.87	-146.86	256.49	33.43	457.40	443.28	14.13	32.377	
2,200.00	2,162.50	2,131.31	2,130.93	8.03	7.21	-146.92	268.18	41.85	485.66	470.84	14.82	32.776	
2,300.00	2,259.10	2,229.13	2,227.58	8.43	7.56	-146.92	280.26	50.96	513.78	498.25	15.52	33.094	
2,400.00	2,355.69	2,327.35	2,324.66	8.83	7.91	-146.94	291.96	60.19	541.49	525.25	16.24	33.349	
2,500.00	2,452.28	2,425.18	2,421.39	9.23	8.26	-146.97	303.27	69.47	568.86	551.91	16.95	33.564	
2,600.00	2,548.88	2,519.43	2,514.59	9.64	8.59	-147.00	314.12	78.34	596.23	578.59	17.64	33.804	
2,700.00	2,645.47	2,614.12	2,608.20	10.04	8.93	-147.02	325.32	87.17	623.90	605.57	18.33	34.034	
2,800.00	2,742.06	2,707.51	2,700.51	10.44	9.27	-147.03	336.62	95.75	651.86	632.85	19.02	34.277	
2,900.00	2,838.66	2,802.99	2,794.87	10.85	9.61	-147.05	348.37	104.37	680.08	660.36	19.72	34.490	
3,000.00	2,935.25	2,899.36	2,890.11	11.26	9.96	-147.07	360.23	113.10	708.29	687.86	20.43	34.676	
3,100.00	3,031.84	2,998.22	2,987.81	11.66	10.32	-147.08	372.25	122.23	736.28	715.13	21.15	34.810	
3,200.00	3,128.44	3,097.85	3,086.32	12.07	10.68	-147.10	383.90	131.51	763.84	741.96	21.88	34.907	
3,300.00	3,225.03	3,195.53	3,182.97	12.47	11.03	-147.15	394.89	140.46	791.10	768.50	22.60	35.004	
3,400.00	3,321.62	3,294.21	3,280.64	12.88	11.39	-147.20	405.70	149.44	818.15	794.82	23.33	35.075	
3,500.00	3,418.22	3,396.93	3,382.40	13.29	11.76	-147.28	416.27	158.71	844.67	820.59	24.08	35.083	
3,600.00	3,514.81	3,478.44	3,463.16	13.70	12.06	-147.37	424.74	165.59	871.55	846.86	24.69	35.301	
3,700.00	3,611.40	3,564.89	3,548.73	14.10	12.37	-147.45	435.05	172.39	899.98	874.65	25.33	35.528	
3,800.00	3,708.00	3,657.11	3,640.00	14.51	12.71	-147.54	446.42	179.05	929.06	903.04	26.01	35.716	
3,900.00	3,804.59	3,759.98	3,741.86	14.92	13.08	-147.66	458.88	186.30	958.04	931.28	26.77	35.790	
4,000.00	3,901.18	3,857.82	3,838.74	15.33	13.44	-147.74	470.29	193.86	986.33	958.84	27.49	35.880	
4,100.00	3,997.78	3,953.10	3,933.08	15.74	13.78	-147.82	481.39	201.16	1,014.64	986.45	28.19	35.988	
4,200.00	4,094.37	4,046.78	4,025.86	16.15	14.12	-147.90	492.36	208.18	1,043.08	1,014.19	28.89	36.109	
4,300.00	4,190.96	4,140.13	4,118.31	16.55	14.46	-147.99	503.39	214.91	1,071.74	1,042.17	29.58	36.235	
4,400.00	4,287.56	4,234.30	4,211.57	16.96	14.81	-148.07	514.63	221.52	1,100.60	1,070.32	30.27	36.354	
4,500.00	4,384.15	4,325.81	4,302.20	17.37	15.14	-148.16	525.67	227.76	1,129.67	1,098.72	30.95	36.498	
4,600.00	4,480.74	4,418.26	4,393.74	17.78	15.48	-148.25	537.08	233.82	1,159.09	1,127.46	31.64	36.638	
4,700.00	4,577.34	4,510.72	4,485.27	18.19	15.81	-148.33	548.71	239.80	1,188.75	1,156.43	32.32	36.780	
4,800.00	4,673.93	4,603.08	4,576.68	18.60	16.15	-148.40	560.54	245.67	1,218.66	1,185.65	33.00	36.924	
4,900.00	4,770.52	4,695.10	4,667.76	19.01	16.48	-148.48	572.45	251.26	1,248.81	1,215.13	33.69	37.072	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,867.12	4,789.62	4,761.34	19.42	16.83	-148.58	584.64	256.56	1,279.16	1,244.78	34.38	37.202	
5,100.00	4,963.71	4,884.60	4,855.42	19.83	17.17	-148.70	596.67	261.51	1,309.51	1,274.43	35.09	37.323	
5,200.00	5,060.30	4,979.18	4,949.15	20.24	17.52	-148.82	608.46	266.03	1,339.91	1,304.12	35.78	37.444	
5,300.00	5,156.90	5,122.41	5,091.57	20.65	18.03	-149.15	622.56	271.19	1,368.78	1,331.97	36.81	37.188	
5,400.00	5,253.49	5,219.32	5,188.22	21.06	18.38	-149.47	629.31	273.49	1,395.85	1,358.34	37.51	37.212	
5,500.00	5,350.08	5,332.65	5,301.28	21.47	18.78	-149.85	636.64	275.97	1,422.71	1,384.40	38.31	37.132	
5,600.00	5,446.68	5,449.51	5,418.03	21.88	19.20	-150.31	641.09	277.92	1,447.58	1,408.45	39.13	36.994	
5,612.36	5,458.62	5,461.75	5,430.26	21.93	19.24	-150.36	641.49	278.11	1,450.62	1,411.40	39.22	36.988	
5,700.00	5,543.60	5,553.70	5,522.16	22.28	19.57	-150.90	644.26	279.52	1,470.88	1,431.02	39.87	36.893	
5,800.00	5,641.32	5,657.19	5,625.61	22.68	19.93	-151.41	646.72	281.01	1,490.78	1,450.18	40.60	36.720	
5,900.00	5,739.72	5,766.10	5,734.49	23.06	20.31	-151.84	648.60	282.52	1,507.18	1,465.83	41.35	36.445	
6,000.00	5,838.69	5,867.37	5,835.75	23.43	20.67	-152.15	649.80	283.95	1,520.10	1,478.04	42.07	36.136	
6,100.00	5,938.09	5,960.60	5,928.96	23.79	21.00	-152.36	650.96	285.04	1,530.14	1,487.41	42.73	35.808	
6,200.00	6,037.81	6,054.85	6,023.20	24.13	21.33	-152.51	652.18	285.56	1,537.49	1,494.09	43.40	35.427	
6,300.00	6,137.73	6,151.21	6,119.56	24.46	21.67	-152.59	653.45	285.65	1,542.01	1,497.94	44.07	34.988	
6,362.28	6,200.00	6,209.39	6,177.73	24.66	21.87	-33.25	654.18	285.38	1,543.43	1,498.96	44.47	34.704	
6,400.00	6,237.72	6,245.42	6,213.76	24.78	21.99	-33.26	654.59	285.01	1,544.00	1,499.29	44.72	34.529	
6,500.00	6,337.72	6,345.80	6,314.12	25.08	22.34	-33.28	655.49	283.51	1,545.57	1,500.19	45.38	34.056	
6,600.00	6,437.72	6,450.81	6,419.12	25.38	22.69	-33.33	655.96	281.62	1,546.93	1,500.86	46.07	33.576	
6,700.00	6,537.72	6,557.75	6,526.04	25.69	23.05	-33.39	656.06	279.79	1,547.95	1,501.18	46.77	33.096	
6,731.88	6,569.60	6,592.84	6,561.12	25.79	23.17	-33.41	655.85	279.07	1,548.16	1,501.16	47.00	32.941	
6,750.00	6,587.72	6,612.78	6,581.06	25.84	23.24	55.76	655.67	278.61	1,548.06	1,500.93	47.13	32.849	
6,775.00	6,612.66	6,637.89	6,606.16	25.91	23.32	55.87	655.42	278.04	1,547.26	1,499.98	47.29	32.721	
6,800.00	6,637.49	6,663.20	6,631.46	25.98	23.41	56.09	655.18	277.48	1,545.73	1,498.28	47.45	32.578	
6,825.00	6,662.13	6,688.35	6,656.60	26.05	23.49	56.43	654.94	276.94	1,543.47	1,495.86	47.61	32.421	
6,850.00	6,686.52	6,714.36	6,682.60	26.11	23.58	56.88	654.69	276.40	1,540.48	1,492.71	47.77	32.249	
6,875.00	6,710.59	6,741.88	6,710.12	26.17	23.67	57.48	654.39	275.87	1,536.76	1,488.82	47.94	32.057	
6,900.00	6,734.27	6,768.96	6,737.20	26.23	23.76	58.19	654.05	275.39	1,532.31	1,484.21	48.10	31.854	
6,925.00	6,757.50	6,795.53	6,763.76	26.29	23.85	59.03	653.68	274.95	1,527.17	1,478.90	48.27	31.641	
6,950.00	6,780.21	6,820.48	6,788.70	26.34	23.93	59.97	653.26	274.52	1,521.36	1,472.94	48.42	31.421	
6,975.00	6,802.35	6,844.82	6,813.02	26.39	24.01	61.03	652.75	273.99	1,514.94	1,466.38	48.57	31.193	
7,000.00	6,823.85	6,868.59	6,836.78	26.44	24.09	62.19	652.15	273.37	1,507.94	1,459.23	48.71	30.957	
7,025.00	6,844.65	6,891.74	6,859.91	26.49	24.17	63.45	651.48	272.67	1,500.41	1,451.55	48.85	30.713	
7,050.00	6,864.70	6,911.81	6,879.96	26.53	24.23	64.77	650.88	272.07	1,492.39	1,443.41	48.98	30.470	
7,075.00	6,883.94	6,930.82	6,898.96	26.58	24.29	66.18	650.39	271.61	1,483.96	1,434.85	49.10	30.222	
7,100.00	6,902.32	6,948.86	6,917.00	26.62	24.35	67.67	649.98	271.27	1,475.16	1,425.94	49.22	29.971	
7,125.00	6,919.79	6,965.88	6,934.00	26.65	24.41	69.22	649.66	271.03	1,466.05	1,416.72	49.33	29.717	
7,150.00	6,936.29	6,981.81	6,949.94	26.69	24.46	70.83	649.41	270.89	1,456.68	1,407.24	49.44	29.462	
7,175.00	6,951.79	6,996.39	6,964.51	26.72	24.51	72.47	649.22	270.82	1,447.12	1,397.57	49.55	29.206	
7,200.00	6,966.25	7,009.79	6,977.91	26.75	24.56	74.13	649.07	270.78	1,437.41	1,387.76	49.65	28.951	
7,225.00	6,979.61	7,022.13	6,990.26	26.78	24.60	75.80	648.95	270.75	1,427.62	1,377.87	49.75	28.697	
7,250.00	6,991.86	7,033.39	7,001.51	26.81	24.64	77.46	648.86	270.75	1,417.79	1,367.95	49.84	28.445	
7,275.00	7,002.94	7,043.53	7,011.65	26.84	24.67	79.10	648.79	270.76	1,407.99	1,358.06	49.93	28.197	
7,300.00	7,012.84	7,052.54	7,020.66	26.86	24.70	80.71	648.75	270.78	1,398.27	1,348.25	50.02	27.952	
7,325.00	7,021.52	7,060.40	7,028.52	26.88	24.73	82.27	648.71	270.80	1,388.67	1,338.57	50.11	27.713	
7,350.00	7,028.97	7,067.08	7,035.21	26.90	24.75	83.76	648.69	270.83	1,379.26	1,329.07	50.19	27.480	
7,375.00	7,035.15	7,072.60	7,040.72	26.92	24.77	85.18	648.67	270.85	1,370.07	1,319.80	50.27	27.254	
7,400.00	7,040.06	7,080.99	7,049.11	26.94	24.80	86.69	648.65	270.90	1,361.17	1,310.81	50.36	27.027	
7,425.00	7,043.68	7,080.99	7,049.11	26.95	24.80	87.79	648.65	270.90	1,352.57	1,302.15	50.42	26.826	
7,450.00	7,046.00	7,082.22	7,050.34	26.96	24.80	88.89	648.65	270.91	1,344.33	1,293.85	50.48	26.629	
7,475.00	7,047.01	7,083.15	7,051.27	26.97	24.81	89.93	648.65	270.91	1,336.48	1,285.93	50.55	26.441	
7,489.85	7,047.00	7,083.03	7,051.16	26.98	24.81	90.48	648.65	270.91	1,332.02	1,281.43	50.58	26.335	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.00	7,046.83	7,082.79	7,050.91	26.98	24.80	90.47	648.65	270.91	1,329.05	1,278.45	50.60	26.264	
7,600.00	7,045.16	7,080.99	7,049.11	27.05	24.80	90.39	648.65	270.90	1,303.72	1,252.85	50.87	25.627	
7,700.00	7,043.49	7,080.99	7,049.11	27.15	24.80	90.39	648.65	270.90	1,285.68	1,234.50	51.19	25.116	
7,800.00	7,041.82	7,080.99	7,049.11	27.31	24.80	90.39	648.65	270.90	1,275.26	1,223.72	51.54	24.744	
7,883.49	7,040.43	7,080.99	7,049.11	27.48	24.80	90.39	648.65	270.90	1,272.52	1,220.68	51.85	24.543	
7,900.00	7,040.15	7,080.99	7,049.11	27.51	24.80	90.39	648.65	270.90	1,272.63	1,220.72	51.91	24.518	
8,000.00	7,038.48	7,072.78	7,040.90	27.76	24.77	90.02	648.67	270.86	1,277.82	1,225.56	52.25	24.455	SF
8,100.00	7,036.81	7,070.95	7,039.07	28.06	24.76	89.94	648.67	270.85	1,290.77	1,238.15	52.61	24.533	
8,200.00	7,035.14	7,069.16	7,037.28	28.40	24.76	89.86	648.68	270.84	1,311.23	1,258.27	52.96	24.760	
8,300.00	7,033.48	7,067.40	7,035.52	28.79	24.75	89.78	648.69	270.83	1,338.87	1,285.60	53.27	25.133	
8,400.00	7,031.81	7,065.67	7,033.79	29.22	24.75	89.70	648.69	270.82	1,373.25	1,319.70	53.55	25.643	
8,500.00	7,030.14	7,063.98	7,032.10	29.70	24.74	89.63	648.70	270.82	1,413.88	1,360.08	53.80	26.283	
8,600.00	7,028.47	7,062.31	7,030.44	30.21	24.74	89.55	648.70	270.81	1,460.23	1,406.23	54.00	27.041	
8,700.00	7,026.80	7,060.68	7,028.81	30.75	24.73	89.48	648.71	270.80	1,511.78	1,457.61	54.17	27.908	
8,800.00	7,025.13	7,059.08	7,027.20	31.33	24.72	89.40	648.72	270.80	1,568.03	1,513.72	54.31	28.873	
8,900.00	7,023.46	7,057.51	7,025.63	31.94	24.72	89.33	648.72	270.79	1,628.47	1,574.05	54.42	29.926	
9,000.00	7,021.79	7,055.96	7,024.09	32.58	24.71	89.26	648.73	270.79	1,692.66	1,638.16	54.50	31.058	
9,100.00	7,020.12	7,054.45	7,022.57	33.25	24.71	89.20	648.74	270.78	1,760.20	1,705.64	54.56	32.261	
9,200.00	7,018.45	7,052.96	7,021.08	33.94	24.70	89.13	648.74	270.78	1,830.71	1,776.10	54.61	33.525	
9,300.00	7,016.78	7,051.49	7,019.61	34.66	24.70	89.06	648.75	270.78	1,903.86	1,849.22	54.64	34.845	
9,400.00	7,015.11	7,050.05	7,018.18	35.39	24.69	89.00	648.76	270.77	1,979.36	1,924.70	54.66	36.214	
9,500.00	7,013.45	7,048.64	7,016.76	36.15	24.69	88.93	648.77	270.77	2,056.94	2,002.28	54.67	37.627	
9,600.00	7,011.78	7,047.25	7,015.37	36.93	24.68	88.87	648.77	270.77	2,136.39	2,081.72	54.67	39.078	
9,700.00	7,010.11	7,045.88	7,014.00	37.72	24.68	88.81	648.78	270.76	2,217.51	2,162.84	54.67	40.563	
9,800.00	7,008.44	7,044.54	7,012.66	38.54	24.68	88.75	648.79	270.76	2,300.11	2,245.45	54.66	42.079	
9,900.00	7,006.77	7,043.22	7,011.34	39.36	24.67	88.69	648.80	270.76	2,384.04	2,329.39	54.65	43.622	
10,000.00	7,005.10	7,041.92	7,010.04	40.20	24.67	88.63	648.80	270.76	2,469.17	2,414.53	54.64	45.188	

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	0.57	120.00	1.20	120.01				
100.00	100.00	99.94	99.94	0.25	0.13	0.60	120.02	1.25	120.02	119.65	0.38	317.994	
200.00	200.00	199.82	199.82	0.61	0.46	0.88	120.44	1.84	120.45	119.38	1.07	112.414	
300.00	300.00	299.32	299.31	0.97	0.81	1.03	120.90	2.18	120.92	119.14	1.78	67.987	
400.00	400.00	398.93	398.92	1.33	1.16	0.94	121.82	2.00	121.84	119.35	2.49	48.969	
500.00	500.00	498.30	498.28	1.68	1.52	0.91	123.05	1.94	123.07	119.87	3.20	38.455	
600.00	600.00	598.18	598.15	2.04	1.87	1.14	124.50	2.49	124.54	120.62	3.92	31.803	
700.00	699.98	698.11	698.07	2.39	2.23	-118.87	125.96	2.50	126.84	122.22	4.62	27.459	
800.00	799.84	798.04	797.99	2.73	2.58	-121.11	127.55	1.81	131.05	125.74	5.31	24.661	
900.00	899.45	898.66	898.59	3.08	2.94	-124.56	128.47	0.83	136.77	130.75	6.01	22.744	
1,000.00	998.70	998.00	997.93	3.42	3.29	-128.79	128.80	-0.15	144.55	137.84	6.71	21.540	
1,100.00	1,097.47	1,096.34	1,096.26	3.78	3.63	-133.39	129.30	-1.12	155.62	148.21	7.41	21.003	
1,200.00	1,195.62	1,194.26	1,194.17	4.14	3.98	-138.13	129.80	-2.17	170.23	162.12	8.11	20.993	
1,300.00	1,293.06	1,291.48	1,291.39	4.51	4.32	-142.70	130.28	-3.30	188.64	179.84	8.81	21.424	
1,349.92	1,341.38	1,339.69	1,339.59	4.70	4.49	-144.86	130.47	-3.87	199.27	190.12	9.15	21.772	
1,400.00	1,389.76	1,387.60	1,387.50	4.89	4.66	-146.96	130.72	-4.42	210.61	201.11	9.50	22.179	
1,500.00	1,486.35	1,486.06	1,485.96	5.27	5.01	-150.61	131.15	-5.36	233.80	223.61	10.18	22.956	
1,600.00	1,582.95	1,588.51	1,588.39	5.66	5.36	-153.79	129.89	-5.61	256.00	245.12	10.88	23.531	
1,700.00	1,679.54	1,690.78	1,690.60	6.05	5.70	-156.50	126.60	-4.65	276.54	264.97	11.57	23.905	
1,800.00	1,776.13	1,790.93	1,790.64	6.44	6.04	-158.67	122.61	-2.40	296.15	283.90	12.25	24.171	
1,900.00	1,872.73	1,890.80	1,890.38	6.83	6.38	-160.53	118.15	0.47	315.35	302.42	12.94	24.372	
2,000.00	1,969.32	1,994.29	1,993.63	7.23	6.73	-162.37	112.10	3.67	333.69	320.05	13.64	24.464	
2,100.00	2,065.91	2,100.72	2,099.63	7.63	7.09	-164.31	103.18	7.39	350.26	335.91	14.35	24.409	
2,200.00	2,162.50	2,209.49	2,207.57	8.03	7.47	-166.43	90.66	11.83	364.60	349.54	15.06	24.208	
2,300.00	2,259.10	2,322.00	2,318.66	8.43	7.86	-168.71	73.93	18.02	376.05	360.28	15.77	23.841	
2,400.00	2,355.69	2,432.45	2,426.96	8.83	8.25	-171.00	53.97	26.33	384.31	367.84	16.48	23.323	
2,500.00	2,452.28	2,534.87	2,526.96	9.23	8.61	-173.14	33.70	35.21	391.09	373.91	17.18	22.758	
2,600.00	2,548.88	2,633.39	2,623.07	9.64	8.97	-175.16	13.81	43.82	398.10	380.20	17.90	22.244	
2,700.00	2,645.47	2,731.53	2,718.82	10.04	9.32	-177.12	-6.04	52.18	405.75	387.13	18.61	21.798	
2,800.00	2,742.06	2,828.47	2,813.41	10.44	9.67	-179.01	-25.68	60.22	414.04	394.71	19.33	21.416	
2,900.00	2,838.66	2,924.35	2,907.16	10.85	10.03	179.26	-44.34	67.68	423.62	403.57	20.05	21.125	
3,000.00	2,935.25	3,022.66	3,003.28	11.26	10.39	177.54	-63.54	75.15	433.75	412.97	20.78	20.873	
3,100.00	3,031.84	3,119.21	3,097.69	11.66	10.75	175.90	-82.47	82.15	444.52	423.01	21.51	20.668	
3,200.00	3,128.44	3,217.63	3,193.96	12.07	11.11	174.28	-101.80	88.94	455.95	433.71	22.24	20.500	
3,300.00	3,225.03	3,315.19	3,289.37	12.47	11.48	172.74	-121.04	95.60	467.78	444.80	22.98	20.359	
3,400.00	3,321.62	3,412.78	3,384.88	12.88	11.84	171.30	-140.07	101.99	480.26	456.54	23.71	20.251	
3,500.00	3,418.22	3,512.01	3,481.97	13.29	12.22	169.89	-159.47	108.54	492.97	468.51	24.46	20.153	
3,600.00	3,514.81	3,612.51	3,580.55	13.70	12.59	168.75	-177.54	116.04	505.67	480.45	25.21	20.057	
3,700.00	3,611.40	3,711.22	3,677.63	14.10	12.96	167.92	-193.33	124.34	518.26	492.31	25.95	19.971	
3,800.00	3,708.00	3,804.70	3,769.64	14.51	13.31	167.18	-208.11	131.69	531.54	504.87	26.67	19.930	
3,900.00	3,804.59	3,896.94	3,860.42	14.92	13.66	166.37	-223.34	137.58	546.11	518.72	27.39	19.942	
4,000.00	3,901.18	3,993.25	3,955.30	15.33	14.02	165.58	-238.91	143.10	561.52	533.40	28.12	19.970	
4,100.00	3,997.78	4,093.42	4,054.10	15.74	14.40	164.87	-254.49	148.70	577.33	548.46	28.87	19.997	
4,200.00	4,094.37	4,201.79	4,160.70	16.15	14.81	164.06	-272.49	156.17	591.68	562.01	29.67	19.945	
4,300.00	4,190.96	4,299.62	4,256.90	16.55	15.18	163.38	-288.70	163.39	605.68	575.27	30.41	19.916	
4,400.00	4,287.56	4,397.51	4,353.28	16.96	15.54	162.79	-304.24	170.58	619.96	588.80	31.16	19.899	
4,500.00	4,384.15	4,502.75	4,456.92	17.37	15.94	162.21	-320.72	178.60	634.09	602.15	31.93	19.856	
4,600.00	4,480.74	4,607.35	4,559.43	17.78	16.34	161.47	-339.46	187.53	646.90	614.18	32.72	19.772	
4,700.00	4,577.34	4,707.29	4,657.26	18.19	16.72	160.75	-357.88	196.31	659.45	625.97	33.48	19.695	
4,800.00	4,673.93	4,805.27	4,753.16	18.60	17.10	160.06	-376.03	204.93	672.09	637.85	34.24	19.628	
4,900.00	4,770.52	4,901.39	4,847.37	19.01	17.47	159.46	-393.24	213.22	685.09	650.10	34.99	19.579	
5,000.00	4,867.12	4,995.87	4,940.21	19.42	17.83	158.99	-408.91	221.09	698.67	662.95	35.73	19.557	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,963.71	5,083.84	5,026.87	19.83	18.16	158.64	-422.49	227.68	713.31	676.89	36.42	19.586	
5,200.00	5,060.30	5,178.09	5,119.84	20.24	18.52	158.29	-436.75	233.54	729.26	692.11	37.15	19.632	
5,300.00	5,156.90	5,279.05	5,219.48	20.65	18.90	157.95	-451.86	239.79	745.29	707.38	37.91	19.659	
5,400.00	5,253.49	5,374.58	5,313.73	21.06	19.26	157.63	-466.21	245.78	761.26	722.62	38.64	19.700	
5,500.00	5,350.08	5,479.88	5,417.69	21.47	19.66	157.33	-481.52	252.50	777.21	737.78	39.43	19.710	
5,600.00	5,446.68	5,577.99	5,514.44	21.88	20.03	157.03	-496.36	259.16	792.71	752.52	40.18	19.727	
5,612.36	5,458.62	5,588.97	5,525.28	21.93	20.07	157.00	-497.98	259.90	794.64	754.37	40.27	19.734	
5,700.00	5,543.60	5,672.99	5,608.30	22.28	20.39	156.89	-509.64	265.41	807.34	766.43	40.91	19.735	
5,800.00	5,641.32	5,772.80	5,706.90	22.68	20.76	156.63	-523.72	271.85	818.95	777.29	41.66	19.656	
5,900.00	5,739.72	5,865.04	5,798.08	23.06	21.11	156.31	-536.56	277.45	827.81	785.44	42.37	19.537	
6,000.00	5,838.69	5,957.60	5,889.77	23.43	21.46	155.97	-548.13	282.41	834.39	791.31	43.07	19.371	
6,100.00	5,938.09	6,054.12	5,985.35	23.79	21.82	155.46	-560.77	286.97	838.42	794.62	43.80	19.142	
6,200.00	6,037.81	6,147.42	6,077.78	24.13	22.16	154.87	-572.83	290.82	839.97	795.47	44.50	18.874	
6,300.00	6,137.73	6,251.39	6,180.83	24.46	22.55	154.10	-585.96	295.11	838.51	793.23	45.28	18.518	
6,362.28	6,200.00	6,312.21	6,241.05	24.66	22.78	-87.10	-594.10	297.70	835.98	790.25	45.73	18.281	
6,400.00	6,237.72	6,348.55	6,277.01	24.78	22.92	-87.43	-599.06	299.20	834.16	788.17	45.99	18.136	
6,500.00	6,337.72	6,446.77	6,374.30	25.08	23.28	-88.32	-612.03	303.01	829.76	783.05	46.71	17.765	
6,600.00	6,437.72	6,552.05	6,478.46	25.38	23.68	-89.32	-626.56	307.84	824.83	777.35	47.48	17.374	
6,700.00	6,537.72	6,644.66	6,570.19	25.69	24.03	-90.16	-638.64	311.89	820.35	772.20	48.15	17.037	
6,731.88	6,569.60	6,673.77	6,599.06	25.79	24.13	-90.40	-642.17	313.00	819.15	770.79	48.36	16.938	
6,750.00	6,587.72	6,690.31	6,615.48	25.84	24.19	-1.37	-644.12	313.59	818.17	769.69	48.48	16.877	
6,775.00	6,612.66	6,713.58	6,638.58	25.91	24.28	-1.57	-646.80	314.37	815.76	767.12	48.64	16.770	
6,800.00	6,637.49	6,738.96	6,663.78	25.98	24.38	-1.80	-649.76	315.23	812.06	763.24	48.82	16.632	
6,825.00	6,662.13	6,764.07	6,688.68	26.05	24.47	-2.05	-652.81	316.10	807.06	758.06	49.00	16.470	
6,850.00	6,686.52	6,788.82	6,713.22	26.11	24.56	-2.33	-655.93	316.98	800.77	751.60	49.17	16.284	
6,875.00	6,710.59	6,813.10	6,737.28	26.17	24.65	-2.63	-659.09	317.87	793.22	743.88	49.34	16.075	
6,900.00	6,734.27	6,836.83	6,760.78	26.23	24.74	-2.96	-662.20	318.76	784.43	734.93	49.51	15.845	
6,925.00	6,757.50	6,860.03	6,783.77	26.29	24.83	-3.32	-665.24	319.65	774.43	724.76	49.67	15.592	
6,950.00	6,780.21	6,882.64	6,806.17	26.34	24.91	-3.70	-668.20	320.53	763.25	713.43	49.82	15.320	
6,975.00	6,802.35	6,905.45	6,828.76	26.39	25.00	-4.15	-671.19	321.44	750.91	700.93	49.98	15.026	
7,000.00	6,823.85	6,929.37	6,852.46	26.44	25.09	-4.67	-674.27	322.47	737.39	687.26	50.14	14.708	
7,025.00	6,844.65	6,952.32	6,875.20	26.49	25.17	-5.24	-677.14	323.56	722.74	672.45	50.29	14.372	
7,050.00	6,864.70	6,974.23	6,896.91	26.53	25.25	-5.89	-679.82	324.68	706.98	656.55	50.43	14.018	
7,075.00	6,883.94	6,995.03	6,917.54	26.58	25.33	-6.63	-682.30	325.82	690.19	639.62	50.57	13.649	
7,100.00	6,902.32	7,012.87	6,935.23	26.62	25.40	-7.43	-684.37	326.83	672.43	621.75	50.68	13.268	
7,125.00	6,919.79	7,029.87	6,952.09	26.65	25.46	-8.36	-686.29	327.81	653.79	603.00	50.79	12.873	
7,150.00	6,936.29	7,045.80	6,967.89	26.69	25.52	-9.46	-688.04	328.74	634.31	583.42	50.89	12.465	
7,175.00	6,951.79	7,060.61	6,982.59	26.72	25.57	-10.76	-689.62	329.62	614.05	563.07	50.98	12.045	
7,200.00	6,966.25	7,074.26	6,996.15	26.75	25.63	-12.33	-691.04	330.44	593.07	542.01	51.07	11.614	
7,225.00	6,979.61	7,086.72	7,008.52	26.78	25.67	-14.25	-692.31	331.20	571.44	520.30	51.14	11.173	
7,250.00	6,991.86	7,097.29	7,019.02	26.81	25.71	-16.59	-693.38	331.84	549.23	498.01	51.21	10.725	
7,275.00	7,002.94	7,106.69	7,028.35	26.84	25.75	-19.53	-694.34	332.41	526.49	475.22	51.27	10.269	
7,300.00	7,012.84	7,114.92	7,036.52	26.86	25.78	-23.32	-695.18	332.91	503.30	451.98	51.33	9.806	
7,325.00	7,021.52	7,121.95	7,043.50	26.88	25.80	-28.26	-695.91	333.33	479.73	428.35	51.37	9.338	
7,350.00	7,028.97	7,127.75	7,049.26	26.90	25.82	-34.79	-696.52	333.68	455.83	404.41	51.42	8.865	
7,375.00	7,035.15	7,132.31	7,053.79	26.92	25.84	-43.41	-697.00	333.95	431.69	380.23	51.46	8.389	
7,400.00	7,040.06	7,135.62	7,057.07	26.94	25.85	-54.55	-697.34	334.15	407.36	355.86	51.50	7.910	
7,425.00	7,043.68	7,137.67	7,059.10	26.95	25.86	-68.02	-697.56	334.27	382.92	331.39	51.53	7.431	
7,450.00	7,046.00	7,138.44	7,059.87	26.96	25.86	-82.51	-697.64	334.32	358.44	306.88	51.56	6.952	
7,475.00	7,047.01	7,137.93	7,059.36	26.97	25.86	-96.01	-697.59	334.29	334.00	282.41	51.59	6.474	
7,489.85	7,047.00	7,137.02	7,058.46	26.98	25.86	-102.92	-697.49	334.23	319.54	267.93	51.61	6.192	
7,500.00	7,046.83	7,136.24	7,057.69	26.98	25.86	-102.35	-697.41	334.19	309.67	258.05	51.62	5.999	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,600.00	7,045.16	7,128.58	7,050.09	27.05	25.83	-96.59	-696.60	333.73	213.80	161.99	51.81	4.127	
7,700.00	7,043.49	7,120.88	7,042.44	27.15	25.80	-90.52	-695.80	333.27	124.10	71.85	52.25	2.375	
7,800.00	7,041.82	7,113.13	7,034.74	27.31	25.77	-84.27	-695.00	332.80	70.52	18.44	52.08	1.354	Collision Risk Procedures Req., ES, SF
7,804.45	7,041.75	7,112.78	7,034.40	27.32	25.77	-83.99	-694.96	332.78	70.50	18.53	51.97	1.357	Collision Risk Procedures Req., CC
7,900.00	7,040.15	7,105.33	7,027.00	27.51	25.74	-77.97	-694.20	332.33	120.10	69.53	50.57	2.375	
8,000.00	7,038.48	7,097.49	7,019.21	27.76	25.71	-71.79	-693.40	331.86	209.16	158.56	50.61	4.133	
8,100.00	7,036.81	7,089.60	7,011.38	28.06	25.68	-65.85	-692.60	331.37	304.88	254.19	50.70	6.014	
8,200.00	7,035.14	7,081.72	7,003.55	28.40	25.65	-60.30	-691.80	330.89	402.53	351.78	50.75	7.932	
8,300.00	7,033.48	7,073.92	6,995.81	28.79	25.62	-55.24	-691.01	330.42	500.99	450.21	50.78	9.866	
8,400.00	7,031.81	7,066.20	6,988.14	29.22	25.60	-50.66	-690.21	329.96	599.85	549.05	50.80	11.809	
8,500.00	7,030.14	7,058.55	6,980.55	29.70	25.57	-46.56	-689.40	329.50	698.95	648.14	50.81	13.757	
8,600.00	7,028.47	7,050.97	6,973.03	30.21	25.54	-42.88	-688.60	329.05	798.20	747.39	50.81	15.709	
8,700.00	7,026.80	7,043.47	6,965.59	30.75	25.51	-39.60	-687.79	328.61	897.56	846.74	50.81	17.664	
8,800.00	7,025.13	7,036.04	6,958.21	31.33	25.48	-36.68	-686.97	328.17	996.98	946.17	50.81	19.620	
8,900.00	7,023.46	7,028.68	6,950.91	31.94	25.46	-34.06	-686.16	327.74	1,096.46	1,045.65	50.81	21.579	
9,000.00	7,021.79	7,021.38	6,943.67	32.58	25.43	-31.71	-685.34	327.32	1,195.98	1,145.16	50.81	23.538	
9,100.00	7,020.12	7,014.16	6,936.51	33.25	25.40	-29.60	-684.52	326.90	1,295.53	1,244.72	50.81	25.498	
9,200.00	7,018.45	7,007.00	6,929.41	33.94	25.38	-27.69	-683.70	326.49	1,395.10	1,344.29	50.81	27.459	
9,300.00	7,016.78	6,999.91	6,922.38	34.66	25.35	-25.97	-682.88	326.09	1,494.70	1,443.89	50.81	29.420	
9,400.00	7,015.11	6,992.99	6,915.51	35.39	25.32	-24.43	-682.06	325.70	1,594.31	1,543.51	50.80	31.382	
9,500.00	7,013.45	6,992.99	6,915.51	36.15	25.32	-24.43	-682.06	325.70	1,693.95	1,643.15	50.81	33.340	
9,600.00	7,011.78	6,981.42	6,904.04	36.93	25.28	-22.12	-680.69	325.06	1,793.59	1,742.78	50.80	35.304	
9,700.00	7,010.11	6,975.90	6,898.58	37.72	25.26	-21.12	-680.02	324.77	1,893.25	1,842.45	50.81	37.264	
9,800.00	7,008.44	6,970.53	6,893.25	38.54	25.24	-20.21	-679.37	324.48	1,992.93	1,942.12	50.81	39.224	
9,900.00	7,006.77	6,965.29	6,888.06	39.36	25.22	-19.37	-678.74	324.21	2,092.62	2,041.81	50.81	41.183	
10,000.00	7,005.10	6,960.18	6,882.99	40.20	25.20	-18.60	-678.11	323.95	2,192.33	2,141.51	50.82	43.141	
10,100.00	7,003.43	6,955.20	6,878.06	41.06	25.18	-17.88	-677.50	323.70	2,292.04	2,241.22	50.82	45.099	
10,200.00	7,001.76	6,950.34	6,873.24	41.93	25.16	-17.21	-676.90	323.46	2,391.76	2,340.93	50.83	47.055	
10,300.00	7,000.09	6,945.60	6,868.54	42.81	25.15	-16.60	-676.31	323.23	2,491.49	2,440.66	50.84	49.010	

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 378H - OH - OH — **Offset Site Error:** 0.00 usft

Survey Program: 26-SuperiorQC MWD+IFR1+SAG+FDIR — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Rule Assigned: Distance Between Centres (usft)	Rule Assigned: Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	15.70	0.00	0.00	177.76	-2,058.40	80.50	2,060.03				
100.00	100.00	80.35	96.05	0.25	0.19	177.76	-2,058.45	80.61	2,060.03	2,059.58	0.44	4,631.659	
171.03	171.03	155.33	171.03	0.51	0.46	177.75	-2,058.39	80.78	2,059.97	2,059.01	0.96	2,140.896	
200.00	200.00	177.34	193.03	0.61	0.53	177.75	-2,058.45	80.88	2,060.05	2,058.91	1.14	1,801.567	
300.00	300.00	283.89	299.58	0.97	0.91	177.75	-2,058.61	81.04	2,060.21	2,058.33	1.87	1,099.679	
400.00	400.00	372.27	387.97	1.33	1.21	177.75	-2,058.97	80.78	2,060.59	2,058.05	2.54	812.031	
500.00	500.00	469.61	485.30	1.68	1.55	177.78	-2,059.73	79.85	2,061.33	2,058.10	3.24	637.067	
600.00	600.00	571.88	587.57	2.04	1.91	177.78	-2,060.42	79.71	2,062.00	2,058.04	3.96	521.183	
700.00	699.98	673.09	688.77	2.39	2.27	58.48	-2,060.98	79.75	2,061.64	2,056.98	4.66	442.209	
800.00	799.84	771.75	787.43	2.73	2.63	58.64	-2,061.54	79.70	2,059.47	2,054.12	5.35	384.735	
900.00	899.45	868.49	884.17	3.08	2.97	58.91	-2,062.18	79.68	2,055.61	2,049.56	6.04	340.156	
1,000.00	998.70	976.79	992.45	3.42	3.35	59.29	-2,062.84	80.94	2,049.96	2,043.19	6.78	302.552	
1,100.00	1,097.47	1,088.19	1,103.73	3.78	3.74	59.70	-2,062.67	86.22	2,041.92	2,034.40	7.52	271.650	
1,200.00	1,195.62	1,190.01	1,205.39	4.14	4.10	60.20	-2,062.15	91.69	2,031.82	2,023.59	8.23	246.908	
1,300.00	1,293.06	1,268.40	1,283.64	4.51	4.37	60.70	-2,062.07	96.42	2,020.50	2,011.63	8.87	227.869	
1,349.92	1,341.38	1,314.90	1,330.02	4.70	4.54	61.00	-2,062.31	99.77	2,014.56	2,005.35	9.21	218.638	
1,400.00	1,389.76	1,367.15	1,382.11	4.89	4.72	61.23	-2,062.54	103.94	2,008.37	1,998.79	9.58	209.584	
1,500.00	1,486.35	1,484.45	1,498.84	5.27	5.13	61.67	-2,062.40	115.40	1,995.56	1,985.19	10.37	192.490	
1,600.00	1,582.95	1,586.23	1,599.96	5.66	5.49	62.01	-2,061.66	126.91	1,982.22	1,971.12	11.10	178.547	
1,700.00	1,679.54	1,679.65	1,692.65	6.05	5.83	62.30	-2,061.09	138.58	1,969.05	1,957.24	11.81	166.688	
1,800.00	1,776.13	1,779.91	1,792.03	6.44	6.18	62.59	-2,060.58	151.85	1,956.02	1,943.47	12.55	155.840	
1,900.00	1,872.73	1,884.56	1,895.72	6.83	6.56	62.90	-2,059.83	165.90	1,942.83	1,929.52	13.31	145.983	
2,000.00	1,969.32	1,986.29	1,996.48	7.23	6.93	63.18	-2,058.82	179.92	1,929.40	1,915.34	14.06	137.239	
2,100.00	2,065.91	2,085.29	2,094.48	7.63	7.28	63.46	-2,057.85	193.92	1,916.02	1,901.21	14.80	129.439	
2,200.00	2,162.50	2,187.68	2,195.78	8.03	7.66	63.73	-2,056.70	208.71	1,902.53	1,886.97	15.56	122.271	
2,300.00	2,259.10	2,277.56	2,284.68	8.43	7.98	63.97	-2,055.68	221.95	1,889.08	1,872.80	16.28	116.049	
2,400.00	2,355.69	2,359.42	2,365.71	8.83	8.28	64.21	-2,055.46	233.57	1,876.52	1,859.55	16.97	110.566	
2,500.00	2,452.28	2,448.89	2,454.45	9.23	8.61	64.50	-2,055.83	244.95	1,864.75	1,847.06	17.69	105.398	
2,600.00	2,548.88	2,557.58	2,562.54	9.64	9.00	64.94	-2,056.13	256.36	1,853.07	1,834.59	18.48	100.286	
2,700.00	2,645.47	2,658.25	2,662.87	10.04	9.36	65.43	-2,055.55	264.55	1,840.78	1,821.54	19.24	95.693	
2,800.00	2,742.06	2,739.14	2,743.60	10.44	9.65	65.88	-2,055.46	269.59	1,829.24	1,809.31	19.93	91.783	
2,900.00	2,838.66	2,822.32	2,826.72	10.85	9.95	66.40	-2,056.09	272.70	1,818.88	1,798.25	20.63	88.162	
3,000.00	2,935.25	2,927.43	2,931.82	11.26	10.32	67.16	-2,056.55	273.78	1,808.72	1,787.32	21.40	84.515	
3,100.00	3,031.84	3,022.50	3,026.89	11.66	10.64	67.90	-2,056.74	273.51	1,798.77	1,776.64	22.13	81.288	
3,200.00	3,128.44	3,117.12	3,121.51	12.07	10.96	68.64	-2,056.97	272.87	1,789.23	1,766.38	22.85	78.307	
3,300.00	3,225.03	3,211.59	3,215.97	12.47	11.27	69.41	-2,057.30	272.00	1,780.16	1,756.59	23.57	75.521	
3,400.00	3,321.62	3,307.87	3,312.24	12.88	11.59	70.19	-2,057.66	271.11	1,771.47	1,747.17	24.30	72.892	
3,500.00	3,418.22	3,404.37	3,408.74	13.29	11.92	70.99	-2,058.03	270.08	1,763.17	1,738.13	25.04	70.423	
3,600.00	3,514.81	3,500.32	3,504.69	13.70	12.24	71.78	-2,058.37	269.10	1,755.19	1,729.42	25.77	68.107	
3,700.00	3,611.40	3,599.81	3,604.17	14.10	12.58	72.62	-2,058.75	268.05	1,747.62	1,721.10	26.52	65.901	
3,800.00	3,708.00	3,702.45	3,706.80	14.51	12.92	73.48	-2,058.76	267.09	1,740.04	1,712.76	27.28	63.790	
3,900.00	3,804.59	3,799.23	3,803.58	14.92	13.25	74.30	-2,058.64	266.46	1,732.66	1,704.64	28.02	61.839	
4,000.00	3,901.18	3,898.62	3,902.96	15.33	13.59	75.15	-2,058.49	265.68	1,725.65	1,696.88	28.77	59.980	
4,100.00	3,997.78	3,995.26	3,999.61	15.74	13.92	75.98	-2,058.20	265.20	1,718.82	1,689.31	29.51	58.236	
4,200.00	4,094.37	4,092.54	4,096.89	16.15	14.25	76.81	-2,057.98	264.71	1,712.43	1,682.17	30.26	56.585	
4,300.00	4,190.96	4,187.54	4,191.89	16.55	14.58	77.63	-2,057.76	264.41	1,706.38	1,675.38	31.00	55.036	
4,400.00	4,287.56	4,283.24	4,287.59	16.96	14.90	78.46	-2,057.63	264.01	1,700.83	1,669.08	31.75	53.570	
4,500.00	4,384.15	4,381.72	4,386.06	17.37	15.24	79.32	-2,057.42	263.50	1,695.63	1,663.12	32.50	52.166	
4,600.00	4,480.74	4,477.87	4,482.21	17.78	15.58	80.16	-2,057.21	263.23	1,690.74	1,657.49	33.25	50.843	
4,700.00	4,577.34	4,575.34	4,579.68	18.19	15.91	81.00	-2,057.14	263.32	1,686.26	1,652.25	34.01	49.580	
4,800.00	4,673.93	4,674.21	4,678.55	18.60	16.26	81.86	-2,057.06	263.69	1,682.06	1,647.29	34.77	48.371	
4,900.00	4,770.52	4,781.54	4,785.88	19.01	16.64	82.77	-2,056.73	264.49	1,677.90	1,642.34	35.57	47.176	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 378H - OH - OH — **Offset Site Error:** 0.00 usft

Survey Program: 26-SuperiorQC MWD+IFR1+SAG+FDIR — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,867.12	4,892.03	4,896.35	19.42	17.02	83.72	-2,055.70	265.84	1,673.38	1,637.01	36.37	46.012	
5,100.00	4,963.71	5,002.46	5,006.75	19.83	17.41	84.66	-2,053.89	267.75	1,668.41	1,631.24	37.17	44.888	
5,200.00	5,060.30	5,093.63	5,097.88	20.24	17.73	85.44	-2,051.97	269.59	1,663.30	1,625.40	37.91	43.877	
5,300.00	5,156.90	5,162.99	5,167.24	20.65	17.97	86.05	-2,051.26	270.13	1,659.95	1,621.38	38.57	43.033	
5,400.00	5,253.49	5,259.92	5,264.16	21.06	18.31	86.92	-2,050.80	270.19	1,657.83	1,618.50	39.33	42.153	
5,500.00	5,350.08	5,364.33	5,368.57	21.47	18.68	87.86	-2,049.86	270.36	1,655.70	1,615.59	40.11	41.280	
5,600.00	5,446.68	5,467.00	5,471.23	21.88	19.04	88.79	-2,048.51	270.76	1,653.52	1,612.64	40.88	40.444	
5,612.36	5,458.62	5,478.72	5,482.95	21.93	19.08	88.90	-2,048.34	270.81	1,653.27	1,612.29	40.98	40.347	
5,700.00	5,543.60	5,563.65	5,567.87	22.28	19.38	89.60	-2,047.07	271.03	1,651.68	1,610.05	41.63	39.672	
5,800.00	5,641.32	5,661.61	5,665.81	22.68	19.72	90.30	-2,045.53	271.45	1,650.04	1,607.67	42.37	38.940	
5,900.00	5,739.72	5,750.60	5,754.80	23.06	20.03	90.84	-2,044.59	271.80	1,649.08	1,606.01	43.07	38.288	
6,000.00	5,838.69	5,850.81	5,855.01	23.43	20.38	91.32	-2,043.72	272.43	1,648.27	1,604.48	43.79	37.637	
6,100.00	5,938.09	5,944.93	5,949.11	23.79	20.72	91.63	-2,043.73	273.59	1,647.92	1,603.43	44.48	37.046	
6,200.00	6,037.81	6,072.86	6,077.02	24.13	21.17	91.86	-2,043.02	276.30	1,646.56	1,601.28	45.28	36.363	
6,300.00	6,137.73	6,191.61	6,195.71	24.46	21.59	91.92	-2,040.69	279.33	1,643.68	1,597.65	46.03	35.710	
6,362.28	6,200.00	6,243.03	6,247.09	24.66	21.77	-148.76	-2,039.46	280.62	1,641.63	1,595.22	46.41	35.371	
6,400.00	6,237.72	6,271.02	6,275.08	24.78	21.87	-148.77	-2,038.94	281.15	1,640.66	1,594.04	46.63	35.187	
6,500.00	6,337.72	6,346.92	6,350.96	25.08	22.13	-148.78	-2,038.08	281.95	1,639.14	1,591.94	47.20	34.730	
6,600.00	6,437.72	6,434.16	6,438.20	25.38	22.44	-148.78	-2,037.98	282.11	1,638.92	1,591.12	47.80	34.285	
6,700.00	6,537.72	6,548.28	6,552.32	25.69	22.84	-148.79	-2,037.82	282.57	1,638.61	1,590.10	48.51	33.776	
6,731.88	6,569.60	6,588.03	6,592.06	25.79	22.98	-148.80	-2,037.54	282.98	1,638.25	1,589.50	48.75	33.603	
6,750.00	6,587.72	6,584.99	6,589.02	25.84	22.97	-59.65	-2,037.57	282.94	1,637.96	1,589.17	48.79	33.570	
6,775.00	6,612.66	6,614.12	6,618.16	25.91	23.07	-59.81	-2,037.44	283.20	1,636.92	1,587.95	48.97	33.430	
6,800.00	6,637.49	6,630.02	6,634.06	25.98	23.12	-60.02	-2,037.47	283.28	1,635.44	1,586.35	49.09	33.318	
6,825.00	6,662.13	6,645.81	6,649.85	26.05	23.18	-60.31	-2,037.58	283.31	1,633.45	1,584.25	49.20	33.199	
6,850.00	6,686.52	6,661.46	6,665.49	26.11	23.23	-60.68	-2,037.75	283.29	1,630.95	1,581.64	49.31	33.073	
6,875.00	6,710.59	6,679.99	6,684.02	26.17	23.30	-61.16	-2,038.05	283.21	1,627.97	1,578.54	49.44	32.931	
6,900.00	6,734.27	6,699.90	6,703.93	26.23	23.37	-61.73	-2,038.42	283.09	1,624.47	1,574.91	49.56	32.778	
6,925.00	6,757.50	6,724.35	6,728.37	26.29	23.45	-62.46	-2,038.87	282.98	1,620.37	1,570.67	49.70	32.603	
6,950.00	6,780.21	6,748.24	6,752.26	26.34	23.53	-63.30	-2,039.31	282.89	1,615.71	1,565.88	49.84	32.420	
6,975.00	6,802.35	6,771.51	6,775.53	26.39	23.61	-64.22	-2,039.73	282.83	1,610.52	1,560.55	49.97	32.230	
7,000.00	6,823.85	6,792.93	6,796.94	26.44	23.69	-65.22	-2,040.12	282.80	1,604.84	1,554.75	50.09	32.038	
7,025.00	6,844.65	6,813.40	6,817.40	26.49	23.76	-66.30	-2,040.52	282.81	1,598.72	1,548.51	50.21	31.842	
7,050.00	6,864.70	6,833.08	6,837.08	26.53	23.83	-67.46	-2,040.92	282.84	1,592.19	1,541.88	50.32	31.642	
7,075.00	6,883.94	6,851.91	6,855.91	26.58	23.89	-68.68	-2,041.33	282.91	1,585.32	1,534.89	50.42	31.440	
7,100.00	6,902.32	6,869.99	6,873.98	26.62	23.95	-69.96	-2,041.74	283.00	1,578.13	1,527.60	50.52	31.235	
7,125.00	6,919.79	6,895.90	6,899.89	26.65	24.04	-71.53	-2,042.23	283.09	1,570.63	1,519.97	50.65	31.007	
7,150.00	6,936.29	6,920.88	6,924.87	26.69	24.13	-73.16	-2,042.49	283.05	1,562.81	1,512.04	50.78	30.779	
7,175.00	6,951.79	6,944.62	6,948.61	26.72	24.21	-74.84	-2,042.54	282.90	1,554.75	1,503.86	50.89	30.552	
7,200.00	6,966.25	6,967.06	6,971.04	26.75	24.29	-76.54	-2,042.42	282.66	1,546.50	1,495.50	50.99	30.328	
7,225.00	6,979.61	6,979.49	6,983.47	26.78	24.33	-77.98	-2,042.33	282.52	1,538.16	1,487.10	51.06	30.124	
7,250.00	6,991.86	6,991.80	6,995.78	26.81	24.37	-79.43	-2,042.25	282.42	1,529.82	1,478.69	51.13	29.922	
7,275.00	7,002.94	7,002.89	7,006.87	26.84	24.41	-80.86	-2,042.18	282.34	1,521.52	1,470.33	51.19	29.726	
7,300.00	7,012.84	7,012.73	7,016.71	26.86	24.45	-82.25	-2,042.14	282.29	1,513.32	1,462.08	51.24	29.536	
7,325.00	7,021.52	7,021.32	7,025.30	26.88	24.48	-83.58	-2,042.10	282.26	1,505.26	1,453.98	51.28	29.353	
7,350.00	7,028.97	7,028.64	7,032.62	26.90	24.50	-84.85	-2,042.07	282.24	1,497.40	1,446.08	51.32	29.178	
7,375.00	7,035.15	7,034.68	7,038.66	26.92	24.52	-86.04	-2,042.06	282.23	1,489.77	1,438.42	51.35	29.011	
7,400.00	7,040.06	7,039.44	7,043.42	26.94	24.54	-87.15	-2,042.04	282.23	1,482.41	1,431.04	51.38	28.854	
7,425.00	7,043.68	7,042.92	7,046.91	26.95	24.55	-88.17	-2,042.04	282.23	1,475.37	1,423.98	51.39	28.708	
7,450.00	7,046.00	7,045.13	7,049.12	26.96	24.56	-89.09	-2,042.03	282.23	1,468.67	1,417.27	51.40	28.572	
7,475.00	7,047.01	7,046.08	7,050.06	26.97	24.56	-89.91	-2,042.03	282.23	1,462.35	1,410.94	51.40	28.448	
7,489.85	7,047.00	7,046.05	7,050.03	26.98	24.56	-90.35	-2,042.03	282.23	1,458.78	1,407.38	51.40	28.379	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 378H - OH - OH — **Offset Site Error:** 0.00 usft

Survey Program: 26-SuperiorQC MWD+IFR1+SAG+FDIR — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.00	7,046.83	7,045.88	7,049.86	26.98	24.56	-90.35	-2,042.03	282.23	1,456.42	1,405.02	51.40	28.334	
7,600.00	7,045.16	7,044.22	7,048.20	27.05	24.56	-90.28	-2,042.03	282.23	1,436.84	1,385.42	51.42	27.945	
7,700.00	7,043.49	7,042.61	7,046.59	27.15	24.55	-90.22	-2,042.04	282.23	1,424.02	1,372.55	51.47	27.667	
7,800.00	7,041.82	7,041.05	7,045.03	27.31	24.55	-90.15	-2,042.04	282.23	1,418.16	1,366.59	51.56	27.504	
7,833.39	7,041.26	7,040.54	7,044.52	27.37	24.54	-90.13	-2,042.04	282.23	1,417.76	1,366.16	51.61	27.473	CC, ES
7,900.00	7,040.15	7,039.54	7,043.52	27.51	24.54	-90.09	-2,042.04	282.23	1,419.33	1,367.63	51.69	27.458	SF
8,000.00	7,038.48	7,038.06	7,042.05	27.76	24.54	-90.03	-2,042.05	282.23	1,427.52	1,375.66	51.85	27.530	
8,100.00	7,036.81	7,036.64	7,040.62	28.06	24.53	-89.97	-2,042.05	282.23	1,442.61	1,390.57	52.04	27.721	
8,200.00	7,035.14	7,035.25	7,039.23	28.40	24.53	-89.92	-2,042.06	282.23	1,464.38	1,412.14	52.24	28.030	
8,300.00	7,033.48	7,033.90	7,037.88	28.79	24.52	-89.86	-2,042.06	282.23	1,492.55	1,440.09	52.46	28.451	
8,400.00	7,031.81	7,032.59	7,036.57	29.22	24.52	-89.81	-2,042.06	282.23	1,526.77	1,474.09	52.68	28.982	
8,500.00	7,030.14	7,031.31	7,035.29	29.70	24.51	-89.76	-2,042.07	282.24	1,566.62	1,513.73	52.90	29.617	
8,600.00	7,028.47	7,030.07	7,034.05	30.21	24.51	-89.71	-2,042.07	282.24	1,611.71	1,558.60	53.11	30.349	
8,700.00	7,026.80	7,028.86	7,032.84	30.75	24.50	-89.66	-2,042.07	282.24	1,661.59	1,608.29	53.30	31.172	
8,800.00	7,025.13	7,027.68	7,031.66	31.33	24.50	-89.61	-2,042.08	282.24	1,715.86	1,662.37	53.49	32.078	
8,900.00	7,023.46	7,026.53	7,030.51	31.94	24.50	-89.57	-2,042.08	282.24	1,774.10	1,720.44	53.66	33.060	
9,000.00	7,021.79	7,025.41	7,029.39	32.58	24.49	-89.52	-2,042.09	282.25	1,835.95	1,782.13	53.82	34.112	
9,100.00	7,020.12	7,024.32	7,028.30	33.25	24.49	-89.48	-2,042.09	282.25	1,901.05	1,847.08	53.97	35.226	
9,200.00	7,018.45	7,023.26	7,027.24	33.94	24.48	-89.43	-2,042.09	282.25	1,969.08	1,914.98	54.10	36.398	
9,300.00	7,016.78	7,022.22	7,026.20	34.66	24.48	-89.39	-2,042.10	282.25	2,039.74	1,985.52	54.22	37.622	
9,400.00	7,015.11	7,021.20	7,025.19	35.39	24.48	-89.35	-2,042.10	282.26	2,112.77	2,058.44	54.32	38.891	
9,500.00	7,013.45	7,020.22	7,024.20	36.15	24.47	-89.31	-2,042.10	282.26	2,187.93	2,133.51	54.42	40.203	
9,600.00	7,011.78	7,019.25	7,023.23	36.93	24.47	-89.27	-2,042.11	282.26	2,265.02	2,210.51	54.51	41.552	
9,700.00	7,010.11	7,018.31	7,022.29	37.72	24.47	-89.23	-2,042.11	282.27	2,343.84	2,289.24	54.59	42.935	
9,800.00	7,008.44	7,017.39	7,021.37	38.54	24.46	-89.20	-2,042.12	282.27	2,424.22	2,369.55	54.66	44.348	

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 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	20.00	0.00	0.00	-29.61	2,152.82	-1,223.57	2,476.32				
100.00	100.00	80.00	100.00	0.25	4.00	-29.61	2,152.82	-1,223.57	2,476.24	2,471.98	4.25	582.098	
200.00	200.00	180.00	200.00	0.61	9.01	-29.61	2,152.82	-1,223.57	2,476.24	2,466.62	9.62	257.512	
300.00	300.00	280.00	300.00	0.97	14.01	-29.61	2,152.82	-1,223.57	2,476.24	2,461.26	14.98	165.324	
400.00	400.00	380.00	400.00	1.33	19.01	-29.61	2,152.82	-1,223.57	2,476.24	2,455.90	20.34	121.742	
500.00	500.00	480.00	500.00	1.68	24.02	-29.61	2,152.82	-1,223.57	2,476.24	2,450.53	25.70	96.344	
600.00	600.00	580.00	600.00	2.04	28.26	-29.61	2,152.82	-1,223.57	2,476.24	2,445.93	30.31	81.708	CC
700.00	699.98	679.98	699.98	2.39	32.32	-148.97	2,152.82	-1,223.57	2,477.73	2,443.03	34.71	71.390	ES
800.00	799.84	779.84	799.84	2.73	36.37	-148.99	2,152.82	-1,223.57	2,482.22	2,443.12	39.10	63.488	
900.00	899.45	879.45	899.45	3.08	40.41	-149.01	2,152.82	-1,223.57	2,489.70	2,446.21	43.48	57.257	SF

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 - WHITE THORN 26 STATE COM #001 - OH - OH — **Offset Site Error:** 0.00 usft

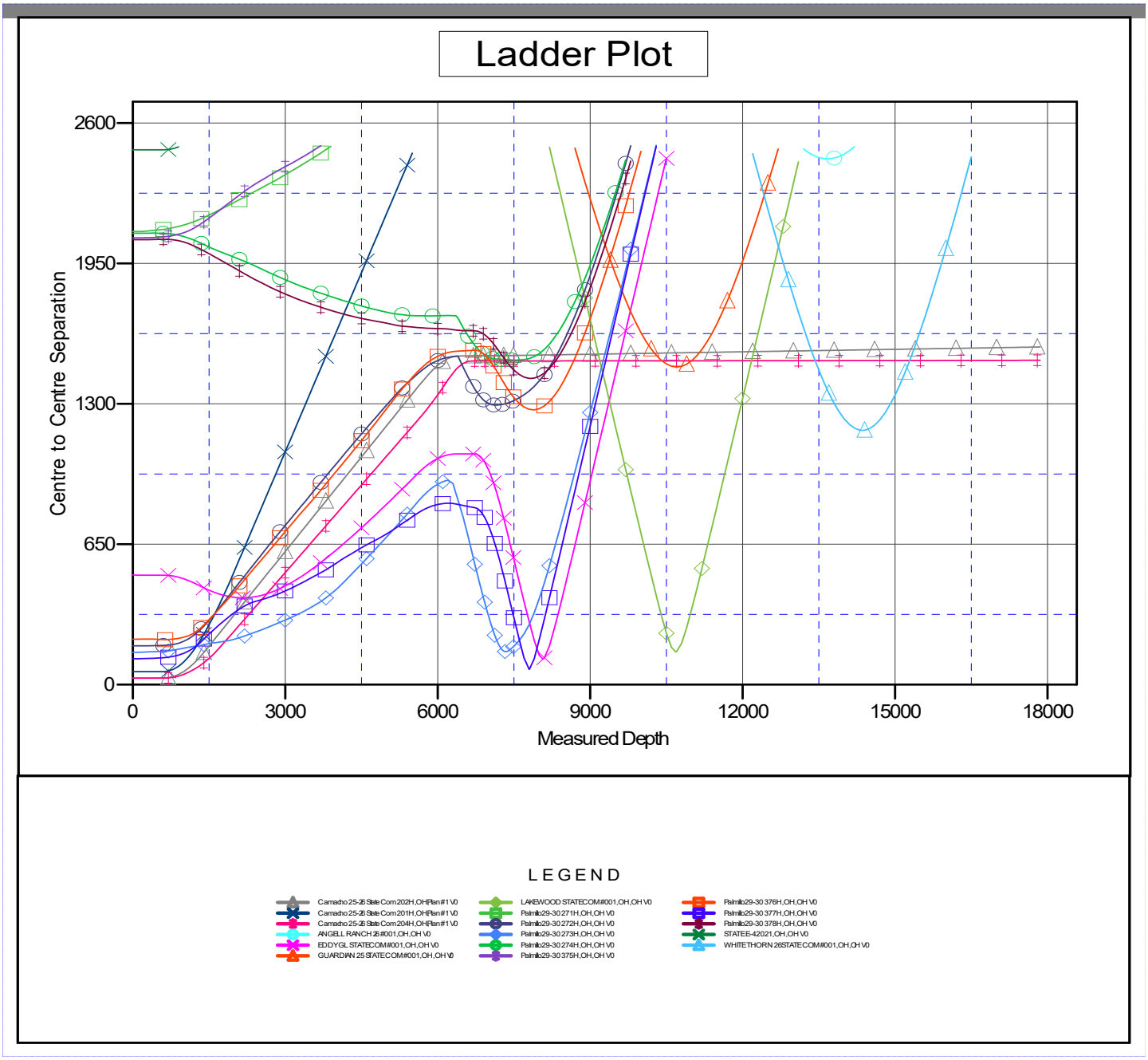
Survey Program: 207-INC-ONLY — **Rule Assigned:** — **Offset Well Error:** 0.00 usft

Reference Measured Depth (usft)	Reference Vertical Depth (usft)	Offset Measured Depth (usft)	Offset Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,200.00	6,968.38	6,904.72	6,961.00	61.11	140.43	-91.39	-1,707.37	-6,238.00	2,458.63	2,281.35	177.28	13.869	
12,300.00	6,966.71	6,903.22	6,959.50	62.13	140.40	-91.32	-1,707.36	-6,238.00	2,371.33	2,192.97	178.36	13.296	
12,400.00	6,965.04	6,901.72	6,958.00	63.15	140.36	-91.25	-1,707.35	-6,238.00	2,285.07	2,105.53	179.54	12.728	
12,500.00	6,963.37	6,900.22	6,956.50	64.18	140.33	-91.18	-1,707.34	-6,238.00	2,199.97	2,019.14	180.83	12.166	
12,600.00	6,961.70	6,898.72	6,955.00	65.21	140.29	-91.10	-1,707.33	-6,238.00	2,116.18	1,933.92	182.26	11.611	
12,700.00	6,960.03	6,897.22	6,953.50	66.24	140.26	-91.03	-1,707.32	-6,238.00	2,033.84	1,850.03	183.81	11.065	
12,800.00	6,958.36	6,895.72	6,952.00	67.27	140.22	-90.96	-1,707.31	-6,238.00	1,953.16	1,767.65	185.51	10.529	
12,900.00	6,956.69	6,894.23	6,950.51	68.31	140.18	-90.88	-1,707.30	-6,238.00	1,874.34	1,686.98	187.36	10.004	
13,000.00	6,955.03	6,892.73	6,949.01	69.35	140.15	-90.81	-1,707.30	-6,238.00	1,797.63	1,608.25	189.38	9.492	
13,100.00	6,953.36	6,891.23	6,947.51	70.40	140.11	-90.74	-1,707.29	-6,238.00	1,723.30	1,531.75	191.56	8.996	
13,200.00	6,951.69	6,889.73	6,946.01	71.44	140.08	-90.67	-1,707.28	-6,238.00	1,651.69	1,457.78	193.91	8.518	
13,300.00	6,950.02	6,888.24	6,944.52	72.49	140.04	-90.59	-1,707.27	-6,238.00	1,583.15	1,386.73	196.42	8.060	
13,400.00	6,948.35	6,886.74	6,943.02	73.54	140.01	-90.52	-1,707.27	-6,238.00	1,518.11	1,319.01	199.10	7.625	
13,500.00	6,946.68	6,885.24	6,941.52	74.60	139.97	-90.45	-1,707.26	-6,238.00	1,457.03	1,255.12	201.91	7.216	
13,600.00	6,945.01	6,883.75	6,940.03	75.65	139.94	-90.37	-1,707.25	-6,238.00	1,400.43	1,195.61	204.83	6.837	
13,700.00	6,943.34	6,882.25	6,938.53	76.71	139.90	-90.30	-1,707.25	-6,238.00	1,348.89	1,141.08	207.81	6.491	
13,800.00	6,941.67	6,880.76	6,937.04	77.77	139.87	-90.23	-1,707.24	-6,238.00	1,302.98	1,092.19	210.79	6.181	
13,900.00	6,940.00	6,879.26	6,935.55	78.83	139.83	-90.16	-1,707.23	-6,238.00	1,263.34	1,049.64	213.69	5.912	
14,000.00	6,938.33	6,877.77	6,934.05	79.89	139.80	-90.08	-1,707.23	-6,238.00	1,230.56	1,014.13	216.43	5.686	
14,100.00	6,936.67	6,876.27	6,932.56	80.96	139.76	-90.01	-1,707.22	-6,238.00	1,205.21	986.31	218.90	5.506	
14,200.00	6,935.00	6,874.78	6,931.06	82.02	139.73	-89.94	-1,707.22	-6,238.00	1,187.77	966.76	221.00	5.374	
14,300.00	6,933.33	6,873.29	6,929.57	83.09	139.69	-89.86	-1,707.21	-6,238.00	1,178.57	955.92	222.66	5.293	
14,358.81	6,932.35	6,872.41	6,928.69	83.72	139.67	-89.82	-1,707.21	-6,238.00	1,177.10	953.72	223.39	5.269	CC, ES
14,400.00	6,931.66	6,871.80	6,928.08	84.16	139.66	-89.79	-1,707.21	-6,238.00	1,177.83	954.03	223.79	5.263	SF
14,500.00	6,929.99	6,870.30	6,926.59	85.23	139.62	-89.72	-1,707.20	-6,238.00	1,185.54	961.15	224.39	5.283	
14,600.00	6,928.32	6,868.81	6,925.10	86.30	139.59	-89.65	-1,707.20	-6,238.00	1,201.56	977.11	224.45	5.353	
14,700.00	6,926.65	6,867.32	6,923.61	87.38	139.55	-89.57	-1,707.20	-6,238.00	1,225.54	1,001.53	224.01	5.471	
14,800.00	6,924.98	6,865.83	6,922.11	88.45	139.52	-89.50	-1,707.19	-6,238.00	1,257.05	1,033.91	223.14	5.633	
14,900.00	6,923.31	6,864.34	6,920.62	89.53	139.48	-89.43	-1,707.19	-6,238.00	1,295.53	1,073.61	221.92	5.838	
15,000.00	6,921.64	6,862.85	6,919.13	90.61	139.45	-89.36	-1,707.19	-6,238.00	1,340.37	1,119.94	220.43	6.081	
15,100.00	6,919.97	6,861.36	6,917.64	91.69	139.41	-89.28	-1,707.18	-6,238.00	1,390.97	1,172.22	218.75	6.359	
15,200.00	6,918.30	6,859.87	6,916.16	92.77	139.37	-89.21	-1,707.18	-6,238.00	1,446.72	1,229.77	216.95	6.668	
15,300.00	6,916.64	6,858.38	6,914.67	93.85	139.34	-89.14	-1,707.18	-6,238.00	1,507.05	1,291.96	215.09	7.007	
15,400.00	6,914.97	6,856.89	6,913.18	94.93	139.30	-89.07	-1,707.18	-6,238.00	1,571.43	1,358.21	213.22	7.370	
15,500.00	6,913.30	6,855.41	6,911.69	96.01	139.27	-88.99	-1,707.17	-6,238.00	1,639.38	1,428.02	211.36	7.756	
15,600.00	6,911.63	6,853.92	6,910.20	97.10	139.23	-88.92	-1,707.17	-6,238.00	1,710.48	1,500.92	209.56	8.162	
15,700.00	6,909.96	6,852.43	6,908.72	98.18	139.20	-88.85	-1,707.17	-6,238.00	1,784.36	1,576.54	207.82	8.586	
15,800.00	6,908.29	6,850.94	6,907.23	99.27	139.16	-88.78	-1,707.17	-6,238.00	1,860.67	1,654.52	206.15	9.026	
15,900.00	6,906.62	6,849.46	6,905.74	100.36	139.13	-88.71	-1,707.17	-6,238.00	1,939.14	1,734.58	204.56	9.479	
16,000.00	6,904.95	6,847.97	6,904.26	101.44	139.09	-88.63	-1,707.17	-6,238.00	2,019.51	1,816.45	203.06	9.945	
16,100.00	6,903.28	6,846.49	6,902.77	102.53	139.06	-88.56	-1,707.17	-6,238.00	2,101.57	1,899.93	201.64	10.422	
16,200.00	6,901.61	6,845.00	6,901.29	103.62	139.02	-88.49	-1,707.17	-6,238.00	2,185.11	1,984.81	200.30	10.909	
16,300.00	6,899.94	6,843.52	6,899.80	104.71	138.99	-88.42	-1,707.16	-6,238.00	2,269.99	2,070.95	199.05	11.404	
16,400.00	6,898.28	6,841.98	6,898.28	105.80	138.95	-88.34	-1,707.99	-6,238.00	2,356.48	2,158.60	197.89	11.908	
16,500.00	6,896.61	6,840.31	6,896.61	106.89	138.91	-88.26	-1,707.99	-6,238.00	2,443.59	2,246.82	196.77	12.418	

Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 RKB=30ft @ 3500.00usft	Coordinates are relative to: Camacho 25-26 State Com 203H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Central Meridian is -104.333334	Grid Convergence at Surface is: 0.06°

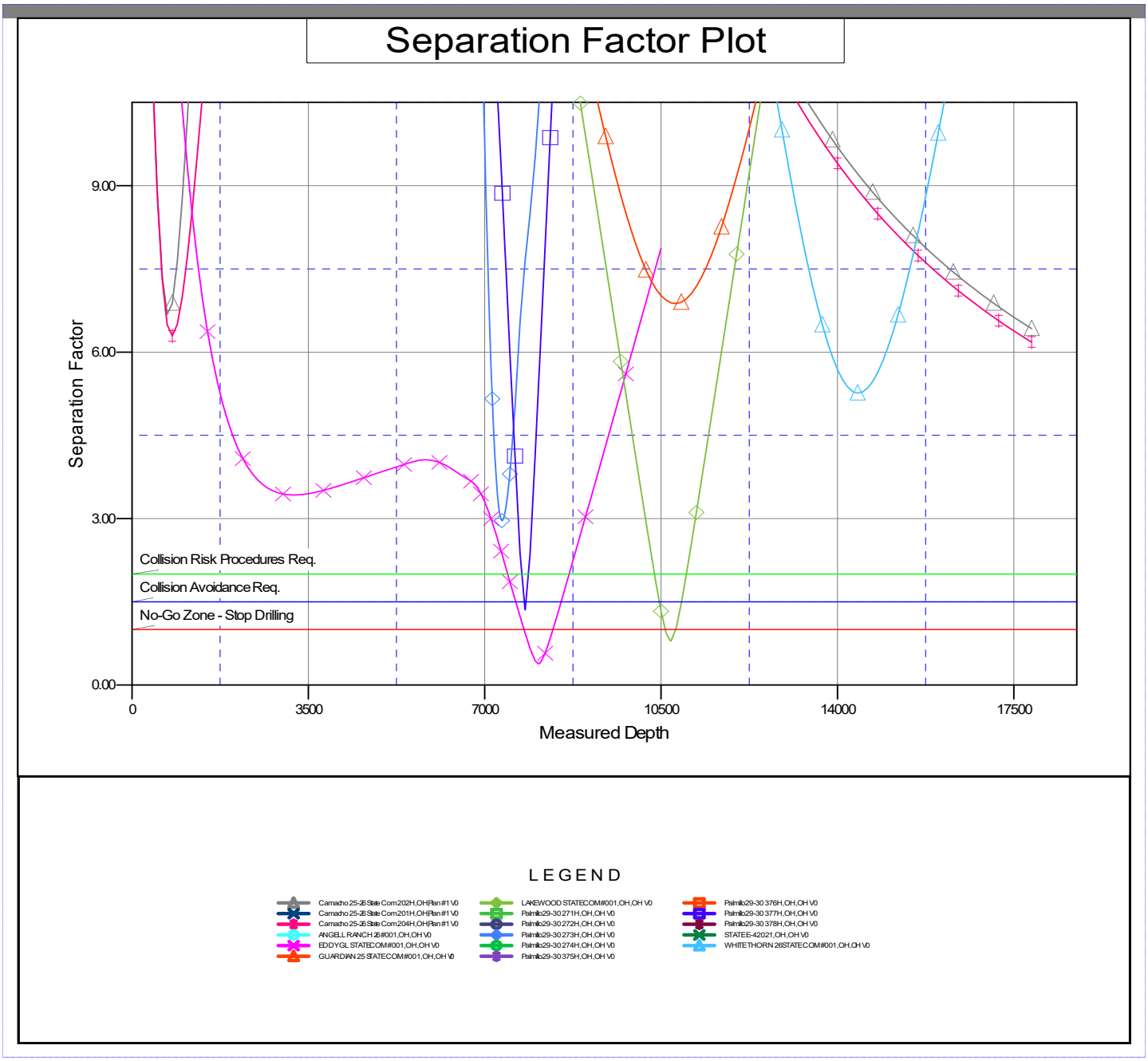


Anticollision Report

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Camacho 25-26 State Com 203H
Project:	Eddy Co, NM (NAD83 NM E)	**TVD Reference:**	RKB=30ft @ 3500.00usft
Reference Site:	Camacho 25 26 (Middle)	**MD Reference:**	RKB=30ft @ 3500.00usft
Site Error:	0.00 usft	**North Reference:**	Grid
Reference Well:	Camacho 25-26 State Com 203H	**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 RKB=30ft @ 3500.00usft
Offset Depths are relative to Offset Datum
Central Meridian is -104.333334

Coordinates are relative to: Camacho 25-26 State Com 203H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone
Grid Convergence at Surface is: 0.06°



HYDROGEN SULFIDE (H_2S) DRILLING OPERATIONS PLAN

Hydrogen Sulfide Training:

All regularly assigned personnel, contracted or employed by Apache Corporation will receive training from qualified instructor(s) in the following areas prior to commencing drilling possible hydrogen sulfide bearing formations in this well:

- The hazards and characteristics of hydrogen sulfide (H_2S)
- The proper use and maintenance of personal protective equipment and life support systems.
- The proper use of H_2S detectors, alarms, warning systems, briefing area, evacuation procedures & prevailing winds.
- The proper techniques for first aid and rescue procedures.

Supervisory personnel will be trained in the following areas:

- The effects of H_2S on metal components. If high tensile tubulars are to be utilized, personnel will be trained in their special maintenance requirements.
- Corrective action & shut-in procedures when drilling or reworking a well & blowout prevention / well control procedures.
- The contents and requirements of the H_2S Drilling Operations Plan

There will be an initial training session just prior to encountering a known or probable H_2S zone (within 3 days or 500') and weekly H_2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H_2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received proper training.

H_2S SAFETY EQUIPMENT AND SYSTEMS:

Well Control Equipment that will be available & installed if H_2S is encountered:

- Flare Line with electronic igniter or continuous pilot.
- Choke manifold with a minimum of one remote choke.
- Blind rams & pipe rams to accommodate all pipe sizes with properly sized closing unit.
- Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head & flare gun with flares

Protective Equipment for Essential Personnel:

- Mark II Survive-air 30 minute units located in dog house & at briefing areas, as indicated on wellsite diagram.

H2S Dection and Monitoring Equipment:

- Two portable H_2S monitors positioned on location for best coverage & response. These units have warning lights & audible sirens when H_2S levels of 20 ppm are reached.
- One portable H_2S monitor positioned near flare line.

H2S Visual Warning Systems:

- Wind direction indicators are shown on wellsite diagram.
- Caution / Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used when appropriate.

Mud Program:

- The Mud Program has been designed to minimize the volume of H_2S circulated to the surface. Proper mud weights, safe drilling practices & the use of H_2S scavengers will minimize hazards when penetrating H_2S bearing zones.
- A mud-gas separator and H_2S gas buster will be utilized as needed.

Metallurgy:

- All drill strings, casing, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold & lines, & valves will be suitable for H_2S service.
- All elastomers used for packing & seals shall be H_2S trim.

Communication:

- Cellular telephone and 2-way radio communications in company vehicles, rig floor and mud logging trailer.

HYDROGEN SULFIDE (H_2S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H_2S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H_2S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H_2S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operators and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the :
  - Detection of H_2S, and
  - Measures for protection against the gas,
  - Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO_2). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H_2S and SO_2

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H_2S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO_2	2.21 Air = I	2 ppm	N/A	1000 ppm

Contacting Authorities

Apache Corporation personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Apache's response must be in coordination with the State of New Mexico's *"Hazardous Materials Emergency Response Plan" (HMER).*

WELL CONTROL EMERGENCY RESPONSE PLAN

I. GENERAL PHILOSOPHY

Our objective is to ensure that during an emergency, a predetermined procedure is followed so that prompt decisions can be made based on accurate information.

The best way to handle and emergency is with an experienced organization set up for the sole purpose of solving the problem. The *Well Control Emergency Response Team* was organized to handle dangerous & expensive well control problems. The *Team* is structured such that each individual can contribute the most from his area of expertise. Key decision-makers are determined prior to an emergency to avoid confusion about who is in charge.

If the well is flowing uncontrolled at the surface or subsurface, *The Emergency Response Team* will be mobilized. The *Team* is customized for the people currently on the Apache staff. Staff changes may require a change in the plan.

II. EMERGENCY PROCEDURE ON DRILLING OR COMPLETION OPERATIONS

A. In the event of an emergency the *Drilling Foreman or Tool-Pusher* will immediately contact only one of the following starting with the first name listed:

Name	Office	Mobile	Home
David LeBlanc– Drlg Superintendent		972-439-4872	
Jonathan Rebenack – Drilling Engineer	713-296-6061	281-782-5493	
Roy DeNapoli – Drilling Manager	713-296-6739	832-275-8531	
Ted Ward EH&S Coordinator	432-234-0600	432-818-1606	

***This one phone call will free the Drilling Foreman to devote his full time to securing the safety of personnel & equipment. This call will initiate the process to mobilize the Well Control Emergency Response Team. Apache maintains an Emergency Telephone Conference Room in the Houston office. This room is available for us by the Permian Region. The room has 50 separate telephone lines.*

B. The Apache employee contacted by the Drilling Foreman will begin contacting the rest of the *Team*. If **DAVID LE BLANC** is out of contact**, JONATHAN REVENACK** will be notified.

C. If a member of the *Emergency Response Team* is away from the job, he must be available for call back. Telephone numbers should be left with secretaries or a key decision-maker.

D. Apache's reporting procedure for spills or releases of oil or hazardous materials will be implemented when spills or releases have occurred or are probable.

EMERGENCY RESPONSE NUMBERS:

SHERIFF DEPARTMENT	
Eddy County	575-887-7551
Lea County	575-396-3611
FIRE DEPARTMENT	911
Artesia	575-746-5050
Carlsbad	575-885-2111
Eunice	575-394-2111
Hobbs	575-397-9308
Jal	575-395-2221
Lovington	575-396-2359
HOSPITALS	911
Artesia Medical Emergency	575-746-5050
Carlsbad Medical Emergency	575-885-2111
Eunice Medical Emergency	575-394-2112
Hobbs Medical Emergency	575-397-9308
Jal Medical Emergency	575-395-2221
Lovington Medical Emergency	575-396-2359
AGENT NOTIFICATIONS	
Bureau of Land Management	575-393-3612
New Mexico Oil Conservation Division	575-393-6161

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: APACHE CORPORATION **OGRID:** 873 **Date:** 03 / 20 / 2024

II. Type: XX Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Camacho 25 26 State Com 201H		Sec 25 T19S R27E	2542' FSL 750' FEL	4000 bbl/d	8 mmcf/d	6500 bbl/d
Camacho 25 26 State Com 202H		Sec 25 T19S R27E	2512' FSL 750' FEL	4000 bbl/d	8 mmcf/d	6500 bbl/d
Camacho 25 26 State Com 203H		Sec 25 T19S R27E	2482' FSL 750' FEL	4000 bbl/d	8 mmcf/d	6500 bbl/d
Camacho 25 26 State Com 204H		Sec 25 T19S R27E	2452' FSL 750' FEL	4000 bbl/d	8 mmcf/d	6500 bbl/d

IV. Central Delivery Point Name: Camacho 25 26 State CDP [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Camacho 25 26 State Com 201H		8/10/2024	9/30/2024	Not yet scheduled	Not yet scheduled	Not yet scheduled
Camacho 25 26 State Com 202H		8/11/2024	10/17/2024	Not yet scheduled	Not yet scheduled	Not yet scheduled
Camacho 25 26 State Com 203H		8/12/2024	11/3/2024	Not yet scheduled	Not yet scheduled	Not yet scheduled
Camacho 25 26 State Com 204H		8/13/2024	11/20/2024	Not yet scheduled	Not yet scheduled	Not yet scheduled

VI. Separation Equipment: ☐ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: XX Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: XX Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☐ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

XX Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature:	Sorina L Flores
Printed Name:	Sorina L Flores
Title:	Sr Regulatory Analyst
E-mail Address:	sorina.flores@apachecorp.com
Date:	
Phone:	432-818-1167

OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)

Approved By:	
Title:	
Approval Date:	
Conditions of Approval:	

VI. SEPARATION EQUIPMENT

(Complete description of how Apache will size separation equipment to optimize gas capture)

Apache Corporation production tank batteries will include separation equipment designed to efficiently separate gas from liquid phases to optimize gas capture based on projected and estimated volumes from the targeted pool in conjunction with the total number of wells planned to/or existing within the facility. If determined to be undersized or needed, separation equipment will be upgraded prior to well(s) being drilled or completed. The separation equipment will be designed and built according to relevant industry specifications, ie API specifications 12J and ASME Sec VIII Div 1. Other recognized industry publications such as Gas Processors Suppliers Association will be referenced when designing separation equipment to optimize gas capture.

VII. OPERATIONAL PRACTICES

(Complete description of actions Apache will take to comply with the requirements of Subsection A-F of 19.15.27.8 NMAC)

(A) Venting & flaring of natural gas

- Apache acknowledges venting or flaring of natural gas during drilling, completion, or production operations constitutes was as defined in 19.15.2 NMAC is prohibited. Apache will maximize recovery of natural gas by minimizing waste of natural gas through venting and flaring. During drilling, completion and production operations, Apache will vent, or flare natural gas only as authorized in subsections B, C and D of 19.15.27.8 NMAC. Apache shall flare rather than vent natural gas except when flaring technically infeasible or would pose a risk to safe operations or personnel safety, and venting is a safer alternative than flaring.

(B) Venting & flaring during drilling operations

- Apache shall capture or combust natural gas, if technically feasible, using best industry practices and control technologies
- A properly sized flare stack will be located at a minimum of 100 feet from the nearest surface hole location unless otherwise approved by the division.
- In the event of an emergency or malfunction, Apache may vent natural gas to avoid risk of an immediate and substantial adverse impact on safety, public health, or the environment. Apache shall report natural gas vented or flared during an emergency or malfunction to the NMOCD division pursuant Paragraph (1) of Subsection G of 19.15.27.8 NMAC.

(C) Venting & flaring during completions and recompletion

- During initial flowback, Apache shall route flowback fluids into a completion or storage tank and, if technically feasible under the applicable well conditions, flare rather than vent and commence operations of a separator as soon as it is technically feasible for a separator to function.
- During separation flowback, Apache shall capture and route natural gas from separation equipment:
  - To a gas flowline or collection system, reinject into the well, or use on-site as a fuel source or other purpose that a purchased fuel or raw material would serve; or
  - To flare if routing natural gas to a gas flowline or collecting system, reinjecting it into the well, or using it on-site as fuel source or other purpose that a purchased fuel or raw material would serve would pose a risk to safe operation or personnel safety.
- If natural gas does not meet gathering pipeline quality specifications, Apache may flare natural gas for 60 days or until the natural gas meets pipeline quality specifications, whichever is sooner, provided:
  - A properly sized flare stack is equipped with an automatic igniter or continuous pilot
  - Apache analyzes natural gas samples twice per week
  - Apache routs natural gas into a gathering pipeline as soon as pipeline specifications are met
  - Apache provides pipeline specifications and natural gas analyses to NMOCD division upon request

(D) Venting & flaring during production operations

- Apache shall not vent or flare natural gas except:
  - During an emergency or malfunction
  - To unload or clean up liquid holdup in a well to atmospheric pressure, provided:
    - Apache does not vent after well achieves stabilized rate and pressure
    - For liquids unloading by manual purging, Apache remains present on-site until the end of unloading or posts at the well site, contact information of personnel conducting liquids unloading operations in close proximity (<30 minutes' drive time) of well being unloaded until end of unloading, takes all

reasonable actions to achieve stabilized rate and pressure at earliest practical time and takes reasonable actions to minimize venting to maximum extent practicable
- Apache will optimize system to minimize venting of natural gas for any well equipped with a plunger lift system or automated control system
- During downhole maintenance, best management practices will be used to the extent that it does not pose a risk to safe operations and personnel safety.

♦ During first 12 months of production from an exploratory well, or as extended by the division for good cause shown, provided:
- Apache proposes and the division approves well as exploratory
- Apache is in compliance with its' statewide gas capture requirements
- Apache submits an updated C-129 form to the division, including a NGMP and timeline for connecting well to a natural gas gathering system or otherwise approved by the division

♦ During the following activities unless prohibited
- Gauging or sampling a storage tank or other low pressure production vessel
- Loading out liquids from a storage tank or other low pressure production vessel to a transport vehicle
- Repair and maintenance, including blowing down and depressurizing production equipment to perform repair and maintenance
- Normal operation of gas activated pneumatic controller or pump
- Normal operation of storage tank or other low pressure production vessel, but not including venting from a thief hatch that is not properly closed or maintained on an established schedule
- Normal operations of dehydration units and amine treatment units
- Normal operations of compressors, compressor engines, and turbines
- Normal operations of valves, flanges and connectors that is not the result of inadequate equipment design or maintenance
- Bradenhead, packer leakage test or production test lasting less than 24 hours unless the division requires or approves a longer test period
- When natural gas does not meet gathering pipeline specifications
- Commissioning of pipelines, equipment, or facilities only for as long as necessary to purge introduced impurities from pipeline or equipment

(E) Performance standards

➢ All tanks and separation equipment are designed for maximum thoughput and pressure to minimize waste
➢ Permanent storage tanks associated with production operations that is routed to a flare or control device installed after May 25, 2021, shall equip storage tank with an automatic gauging system that reduces venting of natural gas
➢ Apache will install a flare properly sized and designed to ensure proper combustion efficiency
  ♦ Flare stack installed or replaced after May 25, 2021, shall be equipped with an automatic ignitor or continuous pilot
  ♦ Flare stack installed before May 25, 2021, shall be retrofitted with an automatic ignitor, continuous pilot or technology that alerts operator that flare may have malfunctioned no later than 18 months after May 25, 2021
  ♦ Flare stack located at well or facility, with an average daily production of equal to or less than 60 mcf of natural gas shall be equipped with an automatic ignitor or continuous pilot if flare stack is replaced after May 25, 2021
➢ Flare stack constructed after May 25, 2021, shall be securely anchored, and located at least 100 feet from well and storage tanks unless otherwise approved by the division
➢ At any point in the life of the well (drilling, completion, production, inactive) an audio, visual and olfactory (AVO) inspection will be performed weekly, during first year of production and on well or facility with average daily production greater than 60,000 cubic feet of natural gas, to confirm all production components are operating properly and there are no leaks or releases except as allowed in Subsection D of 19.15.27.8 NMAC.
➢ Apache will make and keep records of AVO inspections available to NMOCD for at least 5 years
➢ Apache may use a remote or automated monitoring technology to detect leaks and release in lieu of AVO inspections with prior NMOCD approval
➢ Facilities will be designed to minimize waste
➢ Apache will minimize waste and shall resolve emergencies as quickly and safely as feasible

(F) Measurement or estimation of vented and flared natural gas

- Apache shall measure or estimate volume of natural gas it vents, flares, or beneficially uses during drilling, completion, and production operations regardless of the reason or authorization for such venting or flaring
- Measurement equipment will be installed to measure volume of natural gas flared from existing process piping or flowline piped from equipment associated with a well or facility associated with approved application for permit to drill that has an average daily production greater than 60 mcf of natural gas
- Measuring equipment shall conform to an industry standard
- Measuring equipment shall not be designed or equipped with a manifold that allows diversion of natural gas around the metering element except for the sole purpose of inspecting and servicing the measurement equipment
- Apache may estimate volume of vented or flared natural gas using methodology that can be independently verified if metering is not practicable due to low flow rate or pressure
- Apache will estimate volume of vented and flared natural gas based on result of an annual GOR test for that well reported on form C-116 to allow division to independently verify volume and rate of flared natural gas for a well that does not require measuring equipment
- Apache shall install measuring equipment whenever the division determines metering is practicable or the existing measuring equipment or GOR test is not sufficient to measure volume of vented and flared natural gas

VIII. BEST MANAGEMENT PRACTICES

(Complete description of Apache's best management practices to minimize venting during active and planned maintenance)

- Apache has a flare stack designed to handle sufficient volume to ensure proper combustion efficiency. Flare stacks are securely anchored at lease 100 feed from wells and storage tanks and are equipped with continuous pilots.
- Apache will not produce oil or gas but will maintain adequate well control through completion operations
- Apache will not flow well during initial production until all flowlines, tank batteries, and oil/gas takeaway are installed, tested, and determined operational
- Apache will equip storage tanks with automatic gauging system to reduce venting of natural gas
- When feasible, Apache will combust natural gas that would otherwise be vented or flared
- When feasible, Apache will minimize venting through pump downs of vessels and reducing time required to purge equipment before returning to service
- When feasible, Apache will shut in wells in the event of a takeaway disruption, emergency situations, or other operations where venting or flaring may occur due to equipment failures
- Reduce number of blowdowns by looking for opportunities to coordinate repair and maintenance activities