

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 362783

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

1. Operator Name and Address APACHE CORPORATION 303 Veterans Airpark Ln Midland, TX 79705		2. OGRID Number 873
		3. API Number 30-015-55000
4. Property Code 335857	5. Property Name CAMACHO 25 26 STATE COM	6. Well No. 204H

7. Surface Location

UL - Lot I	Section 25	Township 19S	Range 27E	Lot Idn	Feet From 2452	N/S Line S	Feet From 750	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot M	Section 26	Township 19S	Range 27E	Lot Idn M	Feet From 367	N/S Line S	Feet From 50	E/W Line W	County Eddy
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9. Pool Information

WINCHESTER; BONE SPRING, WEST	97569
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3470
16. Multiple N	17. Proposed Depth 18200	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 8/13/2024
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	18200	2818	400

Casing/Cement Program: Additional Comments

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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: Printed Name: Electronically filed by Sorina Flores Title: Supv of Drilling Services Email Address: sorina.flores@apachecorp.com Date: 5/2/2024	OIL CONSERVATION DIVISION Approved By: Ward Rikala Title: Approved Date: 5/7/2024 Expiration Date: 5/7/2026 Conditions of Approval Attached
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Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 55000	Pool Code 97569	Pool Name Winchester; Bone Spring, West
Property Code 335857	Property Name CAMACHO 25 26 STATE COM	Well Number 204H
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 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	-	2452'	SOUTH	750'	EAST	EDDY

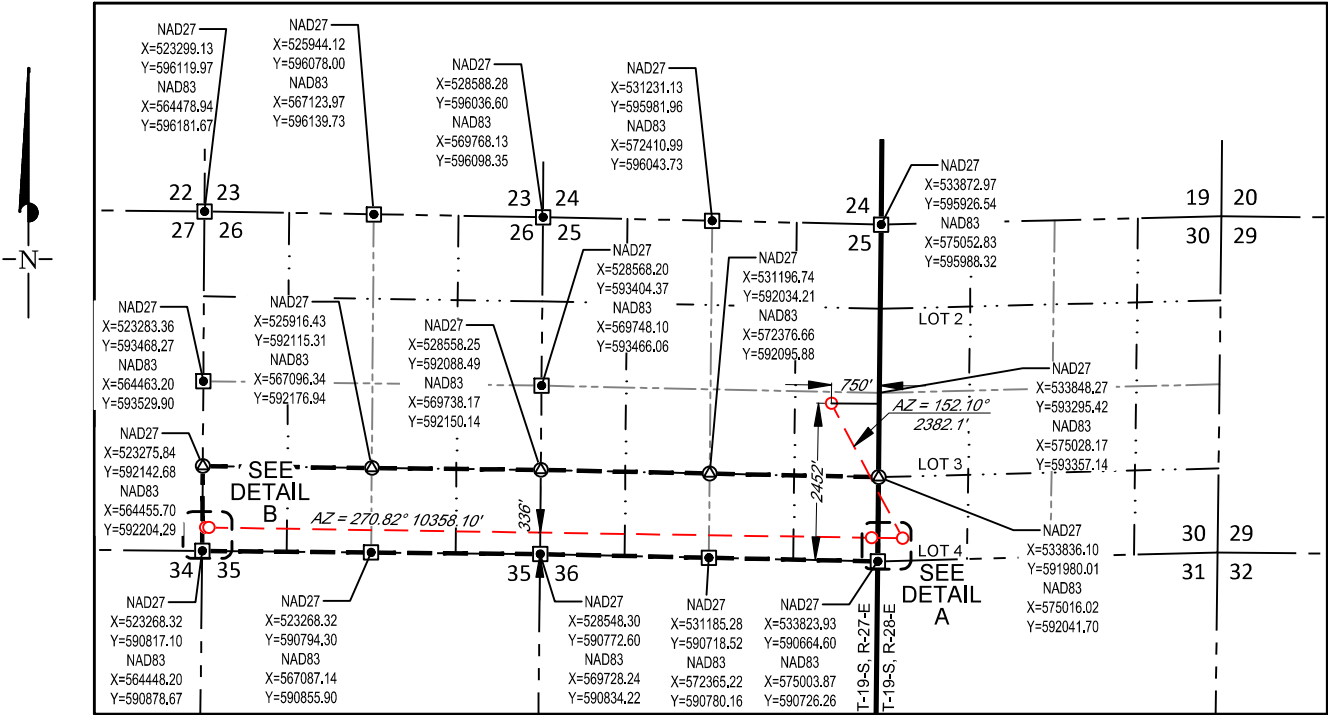
Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	26	19-S	27-E	-	367'	SOUTH	50'	WEST	EDDY

Dedicated Acres 320	Joint or Infill	Consolidated Code	Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

SURFACE LOCATION (SHL)	KICK OFF POINT (KOP)	FIRST TAKE POINT (FTP)	LAST TAKE POINT (LTP)	BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST NAD 1983 X=574277 Y=593194 LAT.: N 32.6306942 LONG.: W 104.2263351 NAD 1927 X=533097 Y=593132 LAT.: N 32.6305777 LONG.: W 104.2258257 2452' FSL 750' FEL	NEW MEXICO EAST NAD 1983 X=575391 Y=591089 LAT.: N 32.6249047 LONG.: W 104.2227210 NAD 1927 X=534211 Y=591027 LAT.: N 32.6247881 LONG.: W 104.2222117 352' FSL 384' FWL	NEW MEXICO EAST NAD 1983 X=574907 Y=591096 LAT.: N 32.6249252 LONG.: W 104.2242935 NAD 1927 X=533727 Y=591034 LAT.: N 32.6248086 LONG.: W 104.2237843 368' FSL 100' FEL	NEW MEXICO EAST NAD 1983 X=564550 Y=591244 LAT.: N 32.6253584 LONG.: W 104.2579343 NAD 1927 X=523370 Y=591183 LAT.: N 32.6252419 LONG.: W 104.2574242 367' FSL 100' FWL	NEW MEXICO EAST NAD 1983 X=564500 Y=591245 LAT.: N 32.6253605 LONG.: W 104.2580967 NAD 1927 X=523329 Y=592683 LAT.: N 32.6293666 LONG.: W 104.2575555 367' 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 Flores5/1/24

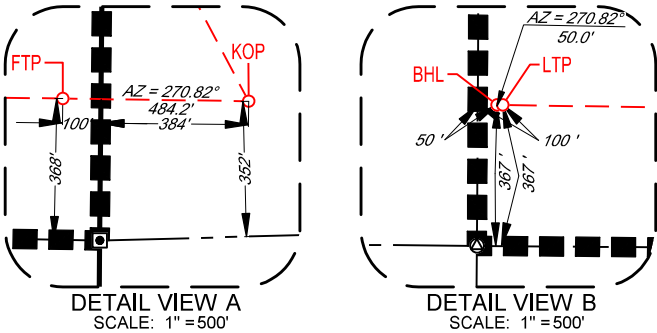
SignatureDate

Sorina L Flores

Print Name

sorina.flores@apachecorp.com

E-mail Address



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

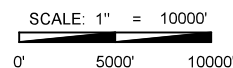
Signature and Seal of Professional Surveyor:

[illegible]

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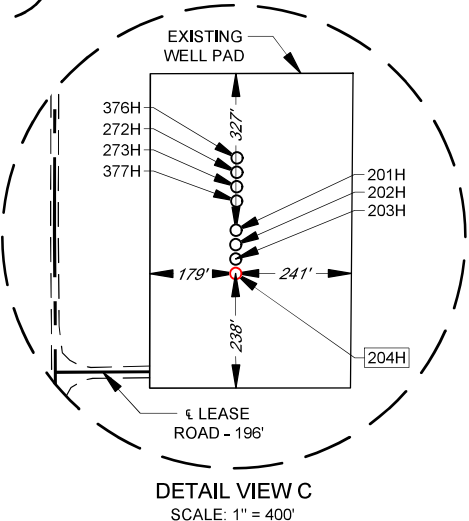
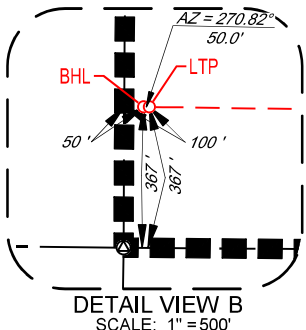
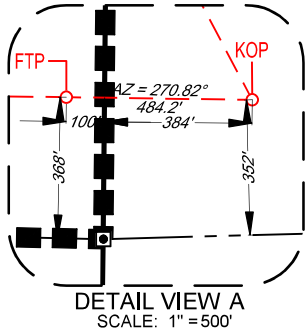
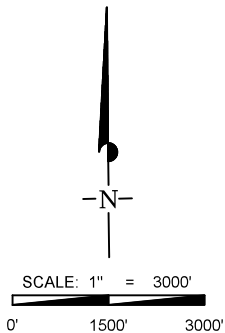
ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



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Apache
EXHIBIT 2A

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



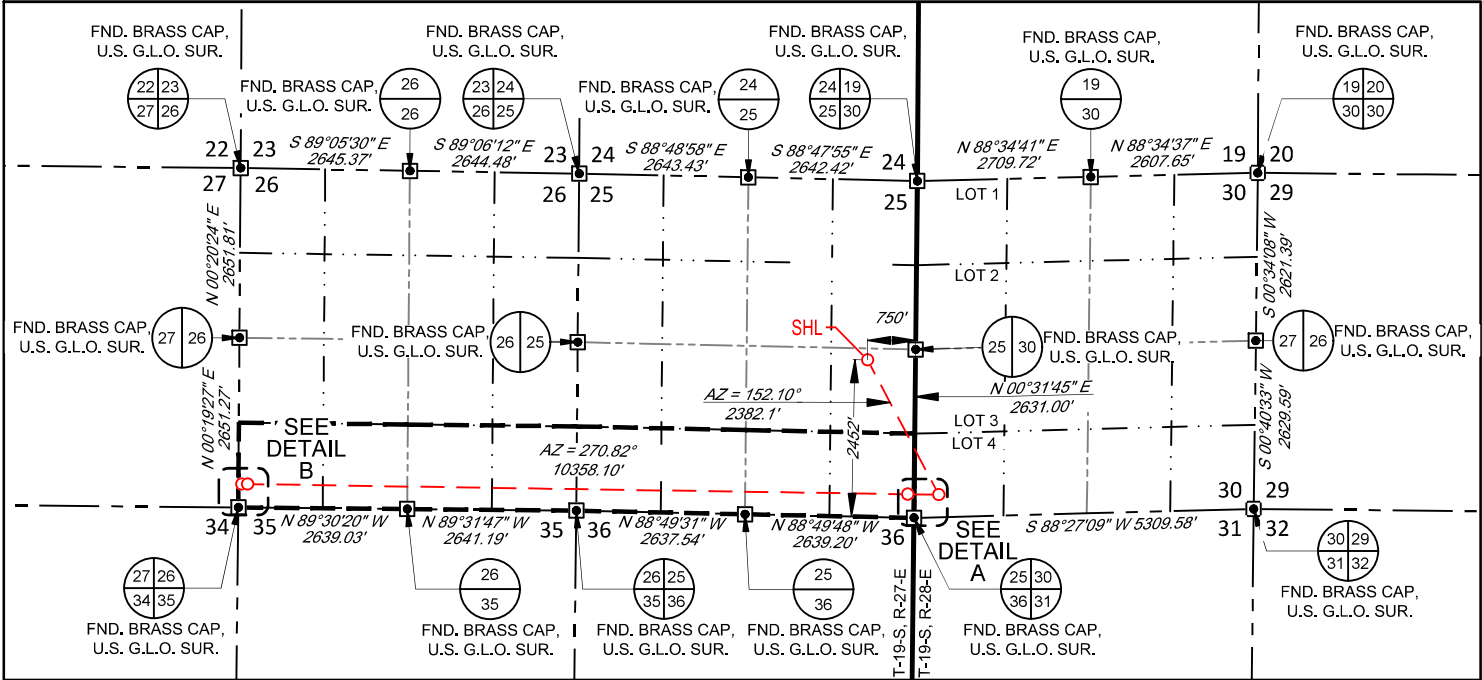
SURFACE LOCATION (SHL)
NEW MEXICO EAST
NAD 1983
X=574277 Y=593194
LAT.: N 32.6306942
LONG.: W 104.2263351
2452' FSL 750' FEL

KICK OFF POINT (KOP)
NEW MEXICO EAST
NAD 1983
X=575391 Y=591089
LAT.: N 32.6249047
LONG.: W 104.2227210
352' FSL 384' FWL

FIRST TAKE POINT (FTP)
NEW MEXICO EAST
NAD 1983
X=574907 Y=591096
LAT.: N 32.6249252
LONG.: W 104.2242935
368' FSL 100' FEL

LAST TAKE POINT (LTP)
NEW MEXICO EAST
NAD 1983
X=564550 Y=591244
LAT.: N 32.6253584
LONG.: W 104.2579343
367' FSL 100' FWL

BOTTOM HOLE LOCATION (BHL)
NEW MEXICO EAST
NAD 1983
X=564500 Y=591245
LAT.: N 32.6253605
LONG.: W 104.2580967
367' FSL 50' FWL



LEASE NAME & WELL NO.: CAMACHO 25 26 STATE COM 204H

SECTION 25 TWP 19-S RGE 27-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 2452' 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 ±272 FEET SOUTHWEST OF THE LOCATION.



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

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

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



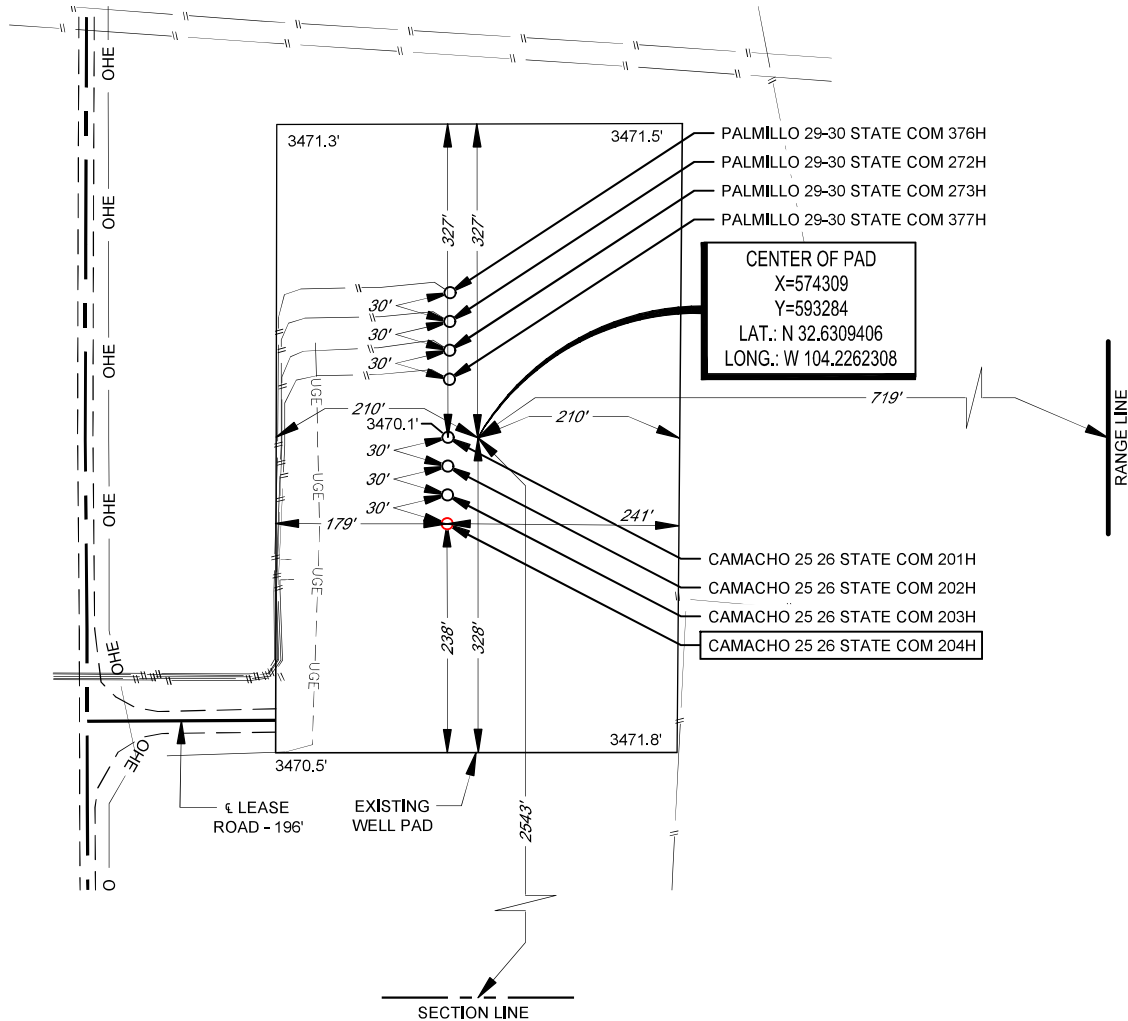
481 WINSOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
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LEGEND

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

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

DETAIL VIEW
SCALE: 1" = 200'



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

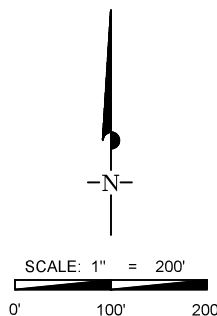
LEASE NAME & WELL NO.: CAMACHO 25 26 STATE COM 204H
204H LATITUDE N 32.6308591 204H LONGITUDE W 104.2263331

CENTER OF PAD IS 2543' FSL & 719' FEL

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

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

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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

Form APD Conditions
Permit 362783

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: APACHE CORPORATION [873] 303 Veterans Airpark Ln Midland, TX 79705	API Number: 30-015-55000
	Well: CAMACHO 25 26 STATE COM #204H

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 204H

OH

Plan: Plan #1

Standard Planning Report

01 March, 2024



Project: Eddy Co, NM (NAD83 NM E)
Site: Camacho 25 26 (Middle)
Well: Camacho 25-26 State Com 204H
Wellbore: OH
Design: Plan #1
Lat: 32.630697
Long: -104.226333
GL: 3470.00
KB: RKB=30ft @ 3500.00usft

WELLBORE TARGET DETAILS (LAT/LONG)

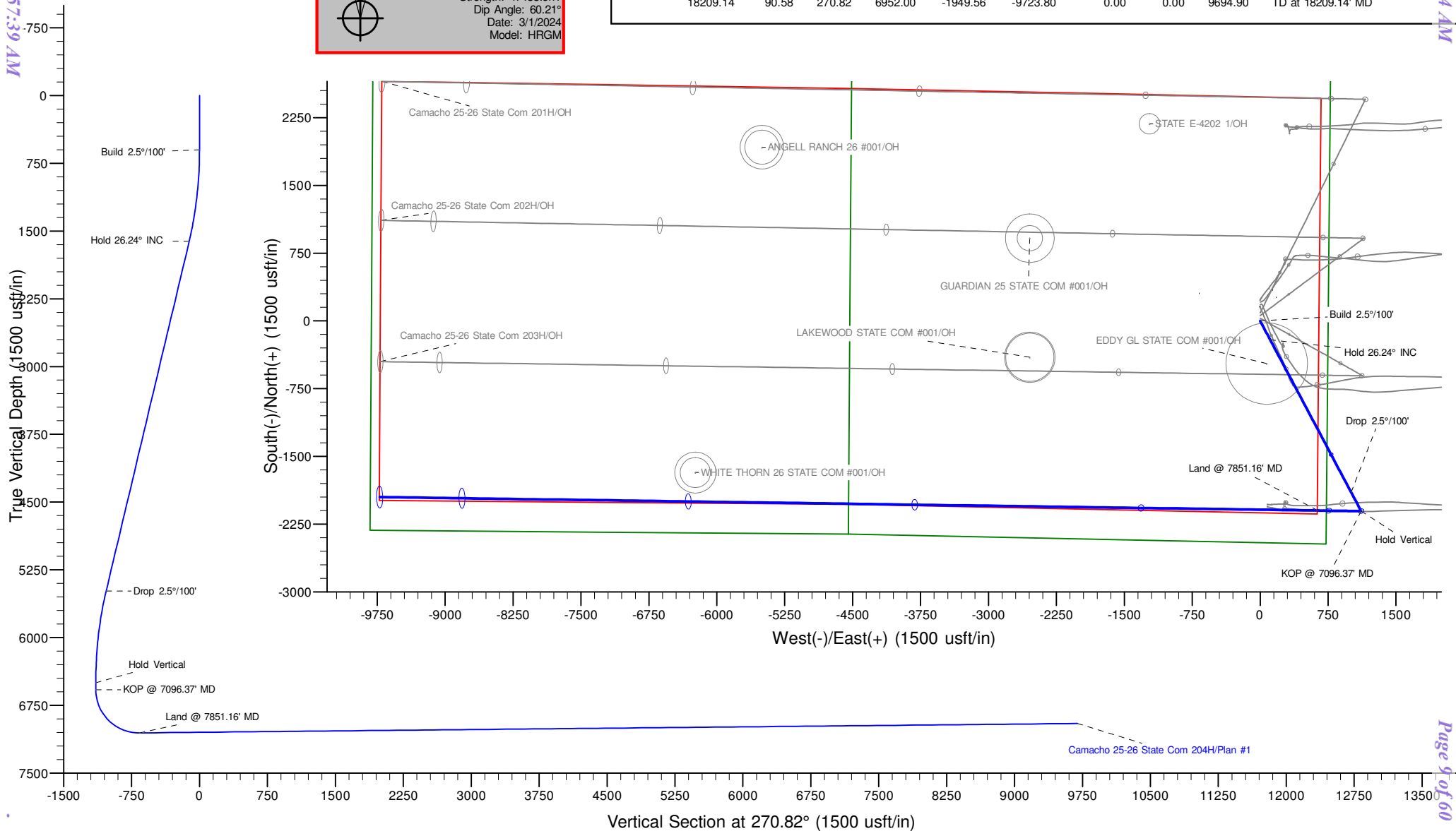
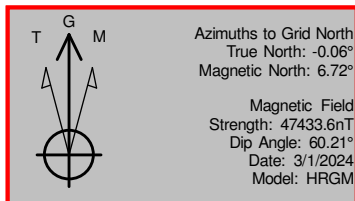
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
C204_LTP	6952.00	-1949.56	-9723.80	591245.44	564553.40	Point
C204_FTP	7056.00	-2098.22	632.62	591096.78	574909.82	Point

WELL DETAILS: Camacho 25-26 State Com 204H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	593195.00	574277.20	32.630697	-104.226333

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	Build 2.5°/100'
1649.79	26.24	152.10	1613.46	-208.79	110.57	2.50	152.10	-113.54	Hold 26.24° INC
5968.02	26.24	152.10	5486.54	-1896.31	1004.23	0.00	0.00	-1031.27	Drop 2.5°/100'
7017.81	0.00	0.00	6500.00	-2105.10	1114.80	2.50	180.00	-1144.81	Hold Vertical
7096.37	0.00	0.00	6578.56	-2105.10	1114.80	0.00	0.00	-1144.81	KOP @ 7096.37' MD
7851.16	90.58	270.82	7056.00	-2098.18	632.59	12.00	270.82	-662.55	Land @ 7851.16' MD
18209.14	90.58	270.82	6952.00	-1949.56	-9723.80	0.00	0.00	9694.90	TD at 18209.14' MD



Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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 204H					
Well Position	+N/-S	0.00 usft	Northing:	593,195.00 usft	Latitude:	32.630697
	+E/-W	0.00 usft	Easting:	574,277.20 usft	Longitude:	-104.226334
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	47,433.64099368

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	270.82

Plan Survey Tool Program	Date	3/1/2024		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,208.91	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	
1,649.79	26.24	152.10	1,613.46	-208.79	110.57	2.50	2.50	0.00	152.10	
5,968.02	26.24	152.10	5,486.54	-1,896.31	1,004.23	0.00	0.00	0.00	0.00	
7,017.81	0.00	0.00	6,500.00	-2,105.10	1,114.80	2.50	-2.50	0.00	180.00	
7,096.37	0.00	0.00	6,578.56	-2,105.10	1,114.80	0.00	0.00	0.00	0.00	
7,851.16	90.58	270.82	7,056.00	-2,098.18	632.59	12.00	12.00	-11.81	270.82	
18,209.14	90.58	270.82	6,952.00	-1,949.56	-9,723.80	0.00	0.00	0.00	0.00	

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
Build 2.5°/100'									
700.00	2.50	152.10	699.97	-1.93	1.02	-1.05	2.50	2.50	0.00
800.00	5.00	152.10	799.75	-7.71	4.08	-4.19	2.50	2.50	0.00
900.00	7.50	152.10	899.14	-17.33	9.18	-9.42	2.50	2.50	0.00
1,000.00	10.00	152.10	997.97	-30.77	16.29	-16.73	2.50	2.50	0.00
1,100.00	12.50	152.10	1,096.04	-48.01	25.42	-26.11	2.50	2.50	0.00
1,200.00	15.00	152.10	1,193.17	-69.01	36.55	-37.53	2.50	2.50	0.00
1,300.00	17.50	152.10	1,289.17	-93.74	49.64	-50.98	2.50	2.50	0.00
1,400.00	20.00	152.10	1,383.85	-122.14	64.68	-66.43	2.50	2.50	0.00
1,500.00	22.50	152.10	1,477.05	-154.17	81.64	-83.84	2.50	2.50	0.00
1,600.00	25.00	152.10	1,568.57	-189.76	100.49	-103.20	2.50	2.50	0.00
1,649.79	26.24	152.10	1,613.46	-208.79	110.57	-113.54	2.50	2.50	0.00
Hold 26.24° INC									
1,700.00	26.24	152.10	1,658.50	-228.41	120.96	-124.22	0.00	0.00	0.00
1,800.00	26.24	152.10	1,748.19	-267.49	141.65	-145.47	0.00	0.00	0.00
1,900.00	26.24	152.10	1,837.88	-306.57	162.35	-166.72	0.00	0.00	0.00
2,000.00	26.24	152.10	1,927.57	-345.65	183.04	-187.97	0.00	0.00	0.00
2,100.00	26.24	152.10	2,017.26	-384.73	203.74	-209.22	0.00	0.00	0.00
2,200.00	26.24	152.10	2,106.95	-423.81	224.43	-230.48	0.00	0.00	0.00
2,300.00	26.24	152.10	2,196.64	-462.88	245.13	-251.73	0.00	0.00	0.00
2,400.00	26.24	152.10	2,286.34	-501.96	265.83	-272.98	0.00	0.00	0.00
2,500.00	26.24	152.10	2,376.03	-541.04	286.52	-294.23	0.00	0.00	0.00
2,600.00	26.24	152.10	2,465.72	-580.12	307.22	-315.49	0.00	0.00	0.00
2,700.00	26.24	152.10	2,555.41	-619.20	327.91	-336.74	0.00	0.00	0.00
2,800.00	26.24	152.10	2,645.10	-658.28	348.61	-357.99	0.00	0.00	0.00
2,900.00	26.24	152.10	2,734.79	-697.36	369.30	-379.24	0.00	0.00	0.00
3,000.00	26.24	152.10	2,824.48	-736.44	390.00	-400.50	0.00	0.00	0.00
3,100.00	26.24	152.10	2,914.18	-775.52	410.69	-421.75	0.00	0.00	0.00
3,200.00	26.24	152.10	3,003.87	-814.60	431.39	-443.00	0.00	0.00	0.00
3,300.00	26.24	152.10	3,093.56	-853.68	452.08	-464.25	0.00	0.00	0.00
3,400.00	26.24	152.10	3,183.25	-892.75	472.78	-485.50	0.00	0.00	0.00
3,500.00	26.24	152.10	3,272.94	-931.83	493.47	-506.76	0.00	0.00	0.00
3,600.00	26.24	152.10	3,362.63	-970.91	514.17	-528.01	0.00	0.00	0.00
3,700.00	26.24	152.10	3,452.32	-1,009.99	534.86	-549.26	0.00	0.00	0.00
3,800.00	26.24	152.10	3,542.01	-1,049.07	555.56	-570.51	0.00	0.00	0.00
3,900.00	26.24	152.10	3,631.71	-1,088.15	576.25	-591.77	0.00	0.00	0.00
4,000.00	26.24	152.10	3,721.40	-1,127.23	596.95	-613.02	0.00	0.00	0.00
4,100.00	26.24	152.10	3,811.09	-1,166.31	617.64	-634.27	0.00	0.00	0.00
4,200.00	26.24	152.10	3,900.78	-1,205.39	638.34	-655.52	0.00	0.00	0.00
4,300.00	26.24	152.10	3,990.47	-1,244.47	659.03	-676.78	0.00	0.00	0.00
4,400.00	26.24	152.10	4,080.16	-1,283.55	679.73	-698.03	0.00	0.00	0.00
4,500.00	26.24	152.10	4,169.85	-1,322.62	700.42	-719.28	0.00	0.00	0.00
4,600.00	26.24	152.10	4,259.55	-1,361.70	721.12	-740.53	0.00	0.00	0.00
4,700.00	26.24	152.10	4,349.24	-1,400.78	741.81	-761.78	0.00	0.00	0.00
4,800.00	26.24	152.10	4,438.93	-1,439.86	762.51	-783.04	0.00	0.00	0.00
4,900.00	26.24	152.10	4,528.62	-1,478.94	783.20	-804.29	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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	26.24	152.10	4,618.31	-1,518.02	803.90	-825.54	0.00	0.00	0.00
5,100.00	26.24	152.10	4,708.00	-1,557.10	824.59	-846.79	0.00	0.00	0.00
5,200.00	26.24	152.10	4,797.69	-1,596.18	845.29	-868.05	0.00	0.00	0.00
5,300.00	26.24	152.10	4,887.38	-1,635.26	865.98	-889.30	0.00	0.00	0.00
5,400.00	26.24	152.10	4,977.08	-1,674.34	886.68	-910.55	0.00	0.00	0.00
5,500.00	26.24	152.10	5,066.77	-1,713.42	907.38	-931.80	0.00	0.00	0.00
5,600.00	26.24	152.10	5,156.46	-1,752.49	928.07	-953.06	0.00	0.00	0.00
5,700.00	26.24	152.10	5,246.15	-1,791.57	948.77	-974.31	0.00	0.00	0.00
5,800.00	26.24	152.10	5,335.84	-1,830.65	969.46	-995.56	0.00	0.00	0.00
5,900.00	26.24	152.10	5,425.53	-1,869.73	990.16	-1,016.81	0.00	0.00	0.00
5,968.02	26.24	152.10	5,486.54	-1,896.31	1,004.23	-1,031.27	0.00	0.00	0.00
Drop 2.5°/100'									
6,000.00	25.45	152.10	5,515.32	-1,908.63	1,010.76	-1,037.97	2.50	-2.50	0.00
6,100.00	22.95	152.10	5,606.53	-1,944.85	1,029.94	-1,057.66	2.50	-2.50	0.00
6,200.00	20.45	152.10	5,699.44	-1,977.52	1,047.24	-1,075.43	2.50	-2.50	0.00
6,300.00	17.95	152.10	5,793.87	-2,006.57	1,062.62	-1,091.23	2.50	-2.50	0.00
6,400.00	15.45	152.10	5,889.65	-2,031.96	1,076.06	-1,105.03	2.50	-2.50	0.00
6,500.00	12.95	152.10	5,986.59	-2,053.63	1,087.54	-1,116.82	2.50	-2.50	0.00
6,600.00	10.45	152.10	6,084.50	-2,071.54	1,097.03	-1,126.56	2.50	-2.50	0.00
6,700.00	7.95	152.10	6,183.21	-2,085.66	1,104.50	-1,134.24	2.50	-2.50	0.00
6,800.00	5.45	152.10	6,282.52	-2,095.96	1,109.96	-1,139.84	2.50	-2.50	0.00
6,900.00	2.95	152.10	6,382.25	-2,102.42	1,113.38	-1,143.36	2.50	-2.50	0.00
7,000.00	0.45	152.10	6,482.19	-2,105.04	1,114.77	-1,144.78	2.50	-2.50	0.00
7,017.81	0.00	0.00	6,500.00	-2,105.10	1,114.80	-1,144.81	2.50	-2.50	-854.15
Hold Vertical									
7,096.37	0.00	0.00	6,578.56	-2,105.10	1,114.80	-1,144.81	0.00	0.00	0.00
KOP @ 7096.37' MD									
7,100.00	0.44	270.82	6,582.19	-2,105.10	1,114.79	-1,144.80	12.00	12.00	0.00
7,125.00	3.44	270.82	6,607.18	-2,105.09	1,113.94	-1,143.95	12.00	12.00	0.00
7,150.00	6.44	270.82	6,632.08	-2,105.06	1,111.79	-1,141.80	12.00	12.00	0.00
7,175.00	9.44	270.82	6,656.84	-2,105.01	1,108.34	-1,138.35	12.00	12.00	0.00
7,200.00	12.44	270.82	6,681.38	-2,104.94	1,103.60	-1,133.61	12.00	12.00	0.00
7,225.00	15.44	270.82	6,705.64	-2,104.85	1,097.58	-1,127.59	12.00	12.00	0.00
7,250.00	18.44	270.82	6,729.56	-2,104.75	1,090.30	-1,120.31	12.00	12.00	0.00
7,275.00	21.44	270.82	6,753.06	-2,104.63	1,081.78	-1,111.78	12.00	12.00	0.00
7,300.00	24.44	270.82	6,776.08	-2,104.49	1,072.03	-1,102.04	12.00	12.00	0.00
7,325.00	27.44	270.82	6,798.56	-2,104.33	1,061.10	-1,091.11	12.00	12.00	0.00
7,350.00	30.44	270.82	6,820.43	-2,104.16	1,049.01	-1,079.02	12.00	12.00	0.00
7,375.00	33.44	270.82	6,841.65	-2,103.97	1,035.79	-1,065.79	12.00	12.00	0.00
7,400.00	36.44	270.82	6,862.14	-2,103.76	1,021.47	-1,051.48	12.00	12.00	0.00
7,425.00	39.44	270.82	6,881.85	-2,103.54	1,006.11	-1,036.11	12.00	12.00	0.00
7,450.00	42.44	270.82	6,900.74	-2,103.31	989.73	-1,019.73	12.00	12.00	0.00
7,475.00	45.44	270.82	6,918.74	-2,103.06	972.39	-1,002.39	12.00	12.00	0.00
7,500.00	48.44	270.82	6,935.81	-2,102.79	954.13	-984.12	12.00	12.00	0.00
7,525.00	51.44	270.82	6,951.90	-2,102.52	935.00	-964.99	12.00	12.00	0.00
7,550.00	54.44	270.82	6,966.96	-2,102.23	915.05	-945.05	12.00	12.00	0.00
7,575.00	57.44	270.82	6,980.96	-2,101.94	894.35	-924.34	12.00	12.00	0.00
7,600.00	60.44	270.82	6,993.86	-2,101.63	872.94	-902.93	12.00	12.00	0.00
7,625.00	63.44	270.82	7,005.62	-2,101.31	850.88	-880.87	12.00	12.00	0.00
7,650.00	66.44	270.82	7,016.21	-2,100.99	828.24	-858.22	12.00	12.00	0.00
7,675.00	69.44	270.82	7,025.60	-2,100.66	805.08	-835.06	12.00	12.00	0.00
7,700.00	72.44	270.82	7,033.77	-2,100.32	781.45	-811.43	12.00	12.00	0.00
7,725.00	75.44	270.82	7,040.68	-2,099.97	757.44	-787.41	12.00	12.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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)
7,750.00	78.44	270.82	7,046.33	-2,099.62	733.09	-763.06	12.00	12.00	0.00
7,775.00	81.44	270.82	7,050.70	-2,099.27	708.48	-738.45	12.00	12.00	0.00
7,800.00	84.44	270.82	7,053.77	-2,098.91	683.67	-713.64	12.00	12.00	0.00
7,825.00	87.44	270.82	7,055.55	-2,098.56	658.74	-688.71	12.00	12.00	0.00
7,851.16	90.58	270.82	7,056.00	-2,098.18	632.59	-662.55	12.00	12.00	0.00
Land @ 7851.16' MD									
7,900.00	90.58	270.82	7,055.51	-2,097.48	583.76	-613.72	0.00	0.00	0.00
8,000.00	90.58	270.82	7,054.51	-2,096.04	483.77	-513.72	0.00	0.00	0.00
8,100.00	90.58	270.82	7,053.50	-2,094.61	383.79	-413.73	0.00	0.00	0.00
8,200.00	90.58	270.82	7,052.50	-2,093.18	283.80	-313.73	0.00	0.00	0.00
8,300.00	90.58	270.82	7,051.49	-2,091.74	183.82	-213.74	0.00	0.00	0.00
8,400.00	90.58	270.82	7,050.49	-2,090.31	83.84	-113.74	0.00	0.00	0.00
8,500.00	90.58	270.82	7,049.49	-2,088.87	-16.15	-13.75	0.00	0.00	0.00
8,600.00	90.58	270.82	7,048.48	-2,087.44	-116.13	86.25	0.00	0.00	0.00
8,700.00	90.58	270.82	7,047.48	-2,086.00	-216.12	186.24	0.00	0.00	0.00
8,800.00	90.58	270.82	7,046.47	-2,084.57	-316.10	286.24	0.00	0.00	0.00
8,900.00	90.58	270.82	7,045.47	-2,083.13	-416.09	386.23	0.00	0.00	0.00
9,000.00	90.58	270.82	7,044.46	-2,081.70	-516.07	486.23	0.00	0.00	0.00
9,100.00	90.58	270.82	7,043.46	-2,080.26	-616.06	586.22	0.00	0.00	0.00
9,200.00	90.58	270.82	7,042.46	-2,078.83	-716.04	686.22	0.00	0.00	0.00
9,300.00	90.58	270.82	7,041.45	-2,077.39	-816.03	786.21	0.00	0.00	0.00
9,400.00	90.58	270.82	7,040.45	-2,075.96	-916.01	886.21	0.00	0.00	0.00
9,500.00	90.58	270.82	7,039.44	-2,074.52	-1,016.00	986.20	0.00	0.00	0.00
9,600.00	90.58	270.82	7,038.44	-2,073.09	-1,115.98	1,086.20	0.00	0.00	0.00
9,700.00	90.58	270.82	7,037.44	-2,071.65	-1,215.97	1,186.19	0.00	0.00	0.00
9,800.00	90.58	270.82	7,036.43	-2,070.22	-1,315.95	1,286.19	0.00	0.00	0.00
9,900.00	90.58	270.82	7,035.43	-2,068.78	-1,415.93	1,386.18	0.00	0.00	0.00
10,000.00	90.58	270.82	7,034.42	-2,067.35	-1,515.92	1,486.18	0.00	0.00	0.00
10,100.00	90.58	270.82	7,033.42	-2,065.91	-1,615.90	1,586.17	0.00	0.00	0.00
10,200.00	90.58	270.82	7,032.42	-2,064.48	-1,715.89	1,686.17	0.00	0.00	0.00
10,300.00	90.58	270.82	7,031.41	-2,063.04	-1,815.87	1,786.16	0.00	0.00	0.00
10,400.00	90.58	270.82	7,030.41	-2,061.61	-1,915.86	1,886.16	0.00	0.00	0.00
10,500.00	90.58	270.82	7,029.40	-2,060.17	-2,015.84	1,986.15	0.00	0.00	0.00
10,600.00	90.58	270.82	7,028.40	-2,058.74	-2,115.83	2,086.15	0.00	0.00	0.00
10,700.00	90.58	270.82	7,027.40	-2,057.30	-2,215.81	2,186.14	0.00	0.00	0.00
10,800.00	90.58	270.82	7,026.39	-2,055.87	-2,315.80	2,286.14	0.00	0.00	0.00
10,900.00	90.58	270.82	7,025.39	-2,054.44	-2,415.78	2,386.13	0.00	0.00	0.00
11,000.00	90.58	270.82	7,024.38	-2,053.00	-2,515.77	2,486.13	0.00	0.00	0.00
11,100.00	90.58	270.82	7,023.38	-2,051.57	-2,615.75	2,586.12	0.00	0.00	0.00
11,200.00	90.58	270.82	7,022.38	-2,050.13	-2,715.74	2,686.12	0.00	0.00	0.00
11,300.00	90.58	270.82	7,021.37	-2,048.70	-2,815.72	2,786.11	0.00	0.00	0.00
11,400.00	90.58	270.82	7,020.37	-2,047.26	-2,915.70	2,886.11	0.00	0.00	0.00
11,500.00	90.58	270.82	7,019.36	-2,045.83	-3,015.69	2,986.10	0.00	0.00	0.00
11,600.00	90.58	270.82	7,018.36	-2,044.39	-3,115.67	3,086.10	0.00	0.00	0.00
11,700.00	90.58	270.82	7,017.36	-2,042.96	-3,215.66	3,186.09	0.00	0.00	0.00
11,800.00	90.58	270.82	7,016.35	-2,041.52	-3,315.64	3,286.09	0.00	0.00	0.00
11,900.00	90.58	270.82	7,015.35	-2,040.09	-3,415.63	3,386.08	0.00	0.00	0.00
12,000.00	90.58	270.82	7,014.34	-2,038.65	-3,515.61	3,486.08	0.00	0.00	0.00
12,100.00	90.58	270.82	7,013.34	-2,037.22	-3,615.60	3,586.07	0.00	0.00	0.00
12,200.00	90.58	270.82	7,012.34	-2,035.78	-3,715.58	3,686.07	0.00	0.00	0.00
12,300.00	90.58	270.82	7,011.33	-2,034.35	-3,815.57	3,786.06	0.00	0.00	0.00
12,400.00	90.58	270.82	7,010.33	-2,032.91	-3,915.55	3,886.06	0.00	0.00	0.00
12,500.00	90.58	270.82	7,009.32	-2,031.48	-4,015.54	3,986.05	0.00	0.00	0.00
12,600.00	90.58	270.82	7,008.32	-2,030.04	-4,115.52	4,086.05	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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)
12,700.00	90.58	270.82	7,007.31	-2,028.61	-4,215.51	4,186.04	0.00	0.00	0.00
12,800.00	90.58	270.82	7,006.31	-2,027.17	-4,315.49	4,286.04	0.00	0.00	0.00
12,900.00	90.58	270.82	7,005.31	-2,025.74	-4,415.47	4,386.03	0.00	0.00	0.00
13,000.00	90.58	270.82	7,004.30	-2,024.30	-4,515.46	4,486.03	0.00	0.00	0.00
13,100.00	90.58	270.82	7,003.30	-2,022.87	-4,615.44	4,586.02	0.00	0.00	0.00
13,200.00	90.58	270.82	7,002.29	-2,021.43	-4,715.43	4,686.02	0.00	0.00	0.00
13,300.00	90.58	270.82	7,001.29	-2,020.00	-4,815.41	4,786.01	0.00	0.00	0.00
13,400.00	90.58	270.82	7,000.29	-2,018.56	-4,915.40	4,886.01	0.00	0.00	0.00
13,500.00	90.58	270.82	6,999.28	-2,017.13	-5,015.38	4,986.00	0.00	0.00	0.00
13,600.00	90.58	270.82	6,998.28	-2,015.70	-5,115.37	5,086.00	0.00	0.00	0.00
13,700.00	90.58	270.82	6,997.27	-2,014.26	-5,215.35	5,185.99	0.00	0.00	0.00
13,800.00	90.58	270.82	6,996.27	-2,012.83	-5,315.34	5,285.99	0.00	0.00	0.00
13,900.00	90.58	270.82	6,995.27	-2,011.39	-5,415.32	5,385.98	0.00	0.00	0.00
14,000.00	90.58	270.82	6,994.26	-2,009.96	-5,515.31	5,485.98	0.00	0.00	0.00
14,100.00	90.58	270.82	6,993.26	-2,008.52	-5,615.29	5,585.97	0.00	0.00	0.00
14,200.00	90.58	270.82	6,992.25	-2,007.09	-5,715.28	5,685.97	0.00	0.00	0.00
14,300.00	90.58	270.82	6,991.25	-2,005.65	-5,815.26	5,785.96	0.00	0.00	0.00
14,400.00	90.58	270.82	6,990.25	-2,004.22	-5,915.24	5,885.96	0.00	0.00	0.00
14,500.00	90.58	270.82	6,989.24	-2,002.78	-6,015.23	5,985.95	0.00	0.00	0.00
14,600.00	90.58	270.82	6,988.24	-2,001.35	-6,115.21	6,085.95	0.00	0.00	0.00
14,700.00	90.58	270.82	6,987.23	-1,999.91	-6,215.20	6,185.94	0.00	0.00	0.00
14,800.00	90.58	270.82	6,986.23	-1,998.48	-6,315.18	6,285.94	0.00	0.00	0.00
14,900.00	90.58	270.82	6,985.23	-1,997.04	-6,415.17	6,385.93	0.00	0.00	0.00
15,000.00	90.58	270.82	6,984.22	-1,995.61	-6,515.15	6,485.93	0.00	0.00	0.00
15,100.00	90.58	270.82	6,983.22	-1,994.17	-6,615.14	6,585.92	0.00	0.00	0.00
15,200.00	90.58	270.82	6,982.21	-1,992.74	-6,715.12	6,685.92	0.00	0.00	0.00
15,300.00	90.58	270.82	6,981.21	-1,991.30	-6,815.11	6,785.91	0.00	0.00	0.00
15,400.00	90.58	270.82	6,980.21	-1,989.87	-6,915.09	6,885.91	0.00	0.00	0.00
15,500.00	90.58	270.82	6,979.20	-1,988.43	-7,015.08	6,985.90	0.00	0.00	0.00
15,600.00	90.58	270.82	6,978.20	-1,987.00	-7,115.06	7,085.90	0.00	0.00	0.00
15,700.00	90.58	270.82	6,977.19	-1,985.56	-7,215.05	7,185.89	0.00	0.00	0.00
15,800.00	90.58	270.82	6,976.19	-1,984.13	-7,315.03	7,285.89	0.00	0.00	0.00
15,900.00	90.58	270.82	6,975.19	-1,982.69	-7,415.01	7,385.88	0.00	0.00	0.00
16,000.00	90.58	270.82	6,974.18	-1,981.26	-7,515.00	7,485.88	0.00	0.00	0.00
16,100.00	90.58	270.82	6,973.18	-1,979.83	-7,614.98	7,585.87	0.00	0.00	0.00
16,200.00	90.58	270.82	6,972.17	-1,978.39	-7,714.97	7,685.87	0.00	0.00	0.00
16,300.00	90.58	270.82	6,971.17	-1,976.96	-7,814.95	7,785.86	0.00	0.00	0.00
16,400.00	90.58	270.82	6,970.16	-1,975.52	-7,914.94	7,885.86	0.00	0.00	0.00
16,500.00	90.58	270.82	6,969.16	-1,974.09	-8,014.92	7,985.85	0.00	0.00	0.00
16,600.00	90.58	270.82	6,968.16	-1,972.65	-8,114.91	8,085.85	0.00	0.00	0.00
16,700.00	90.58	270.82	6,967.15	-1,971.22	-8,214.89	8,185.84	0.00	0.00	0.00
16,800.00	90.58	270.82	6,966.15	-1,969.78	-8,314.88	8,285.84	0.00	0.00	0.00
16,900.00	90.58	270.82	6,965.14	-1,968.35	-8,414.86	8,385.83	0.00	0.00	0.00
17,000.00	90.58	270.82	6,964.14	-1,966.91	-8,514.85	8,485.83	0.00	0.00	0.00
17,100.00	90.58	270.82	6,963.14	-1,965.48	-8,614.83	8,585.82	0.00	0.00	0.00
17,200.00	90.58	270.82	6,962.13	-1,964.04	-8,714.82	8,685.82	0.00	0.00	0.00
17,300.00	90.58	270.82	6,961.13	-1,962.61	-8,814.80	8,785.81	0.00	0.00	0.00
17,400.00	90.58	270.82	6,960.12	-1,961.17	-8,914.78	8,885.81	0.00	0.00	0.00
17,500.00	90.58	270.82	6,959.12	-1,959.74	-9,014.77	8,985.80	0.00	0.00	0.00
17,600.00	90.58	270.82	6,958.12	-1,958.30	-9,114.75	9,085.80	0.00	0.00	0.00
17,700.00	90.58	270.82	6,957.11	-1,956.87	-9,214.74	9,185.79	0.00	0.00	0.00
17,800.00	90.58	270.82	6,956.11	-1,955.43	-9,314.72	9,285.78	0.00	0.00	0.00
17,900.00	90.58	270.82	6,955.10	-1,954.00	-9,414.71	9,385.78	0.00	0.00	0.00
18,000.00	90.58	270.82	6,954.10	-1,952.56	-9,514.69	9,485.77	0.00	0.00	0.00

Planning Report

Database:	Fhartmann	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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)
18,100.00	90.58	270.82	6,953.10	-1,951.13	-9,614.68	9,585.77	0.00	0.00	0.00
18,209.14	90.58	270.82	6,952.00	-1,949.56	-9,723.80	9,694.90	0.00	0.00	0.00
TD at 18209.14' MD									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
C204_LTP	0.00	0.00	6,952.00	-1,949.56	-9,723.80	591,245.44	564,553.40	32.625361	-104.257924
- plan hits target center									
- Point									
C204_FTP	0.00	0.00	7,056.00	-2,098.22	632.62	591,096.78	574,909.82	32.624928	-104.224286
- plan misses target center by 0.04usft at 7851.13usft MD (7056.00 TVD, -2098.18 N, 632.62 E)									
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
600.00	600.00	0.00	0.00	Build 2.5°/100'
1,649.79	1,613.46	-208.79	110.57	Hold 26.24° INC
5,968.02	5,486.54	-1,896.31	1,004.23	Drop 2.5°/100'
7,017.81	6,500.00	-2,105.10	1,114.80	Hold Vertical
7,096.37	6,578.56	-2,105.10	1,114.80	KOP @ 7096.37' MD
7,851.16	7,056.00	-2,098.18	632.59	Land @ 7851.16' MD
18,209.14	6,952.00	-1,949.56	-9,723.80	TD at 18209.14' MD

Apache Corporation

Eddy Co, NM (NAD83 NM E)

Camacho 25 26 (Middle)

Camacho 25-26 State Com 204H

OH

Plan #1

Anticollision Report

01 March, 2024

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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	18,208.91	Plan #1 (OH)	SuperiorQC MWD+IFR1+SA	OWSG MWD + IFR1 + Sag + FDIR Correction

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Camacho 25 26 (Middle)						
Camacho 25-26 State Com 201H - OH - Plan #1	600.00	600.00	89.90	85.82	22.000	CC, ES
Camacho 25-26 State Com 201H - OH - Plan #1	800.00	792.06	105.13	99.67	19.278	SF
Camacho 25-26 State Com 202H - OH - Plan #1	600.00	600.00	60.00	55.92	14.683	CC, ES
Camacho 25-26 State Com 202H - OH - Plan #1	800.00	796.84	71.85	66.38	13.146	SF
Camacho 25-26 State Com 203H - OH - Plan #1	600.00	600.00	29.90	25.81	7.317	CC, ES
Camacho 25-26 State Com 203H - OH - Plan #1	18,209.14	17,839.74	1,501.67	1,258.98	6.188	SF
Camacho 25 26 Offsets						
ANGELL RANCH 26 #001 - OH - OH						Out of range
EDDY GL STATE COM #001 - OH - OH	2,134.00	2,011.26	156.91	62.86	1.668	Collision Risk Procedures R
EDDY GL STATE COM #001 - OH - OH	2,200.00	2,070.45	159.53	62.82	1.650	Collision Risk Procedures R
GUARDIAN 25 STATE COM #001 - OH - OH						Out of range
LAKEWOOD STATE COM #001 - OH - OH	11,052.45	6,990.45	1,652.95	1,460.89	8.606	CC, ES
LAKEWOOD STATE COM #001 - OH - OH	11,200.00	6,988.77	1,659.53	1,466.30	8.589	SF
Palmillo 29-30 271H - OH - OH	111.80	112.12	2,127.38	2,126.78	3,563.391	CC, ES
Palmillo 29-30 271H - OH - OH	2,000.00	1,899.36	2,480.74	2,467.11	182.035	SF
Palmillo 29-30 272H - OH - OH	181.78	181.78	209.44	208.50	222.354	CC
Palmillo 29-30 272H - OH - OH	600.00	598.90	211.49	207.56	53.804	ES
Palmillo 29-30 272H - OH - OH	1,100.00	1,083.73	268.43	261.04	36.362	SF
Palmillo 29-30 273H - OH - OH	0.00	0.00	179.91			
Palmillo 29-30 273H - OH - OH	200.00	198.51	180.61	179.58	176.136	ES
Palmillo 29-30 273H - OH - OH	7,501.13	7,782.18	1,344.30	1,289.34	24.461	SF
Palmillo 29-30 274H - OH - OH	7,647.87	7,324.81	6.98	-45.33	0.133	Collision Risk Procedures R
Palmillo 29-30 274H - OH - OH	7,650.00	7,322.91	7.04	-45.71	0.133	Collision Risk Procedures R
Palmillo 29-30 375H - OH - OH	0.00	0.30	2,098.23			
Palmillo 29-30 375H - OH - OH	400.00	375.69	2,099.35	2,097.07	920.690	ES
Palmillo 29-30 375H - OH - OH	2,000.00	1,768.80	2,492.80	2,480.00	194.775	SF
Palmillo 29-30 376H - OH - OH	619.56	617.39	238.45	234.41	59.035	CC, ES
Palmillo 29-30 376H - OH - OH	1,200.00	1,189.42	301.72	293.67	37.469	SF
Palmillo 29-30 377H - OH - OH	0.00	0.00	149.91			
Palmillo 29-30 377H - OH - OH	300.00	299.16	150.82	149.04	84.826	ES
Palmillo 29-30 377H - OH - OH	8,400.00	7,269.06	1,438.57	1,383.59	26.165	SF
Palmillo 29-30 378H - OH - OH	8,204.45	7,048.33	81.05	28.84	1.552	Collision Risk Procedures R
STATE E-4202 1 - OH - OH						Out of range
WHITE THORN 26 STATE COM #001 - OH - OH	14,727.09	6,933.75	321.88	96.97	1.431	Collision Risk Procedures R

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance			Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	0.51	89.90	0.80	89.90					
100.00	100.00	100.00	100.00	0.25	0.25	0.51	89.90	0.80	89.90	89.40	0.50	179.140		
200.00	200.00	200.00	200.00	0.61	0.61	0.51	89.90	0.80	89.90	88.68	1.22	73.764		
300.00	300.00	300.00	300.00	0.97	0.97	0.51	89.90	0.80	89.90	87.97	1.94	46.444		
400.00	400.00	400.00	400.00	1.33	1.33	0.51	89.90	0.80	89.90	87.25	2.65	33.891		
500.00	500.00	500.00	500.00	1.68	1.68	0.51	89.90	0.80	89.90	86.53	3.37	26.681		
600.00	600.00	600.00	600.00	2.04	2.04	0.51	89.90	0.80	89.90	85.82	4.09	22.000 CC, ES		
700.00	699.97	696.44	696.42	2.39	2.39	-151.62	91.72	1.69	93.72	88.94	4.78	19.626		
800.00	799.75	792.06	791.83	2.72	2.73	-151.68	97.12	4.34	105.13	99.67	5.45	19.278 SF		
900.00	899.14	886.04	885.30	3.07	3.07	-151.73	105.90	8.66	124.01	117.88	6.13	20.245		
1,000.00	997.97	977.64	975.93	3.41	3.40	-151.73	117.77	14.48	150.17	143.39	6.78	22.141		
1,100.00	1,096.04	1,066.21	1,063.00	3.76	3.72	-151.65	132.32	21.63	183.37	175.95	7.42	24.718		
1,200.00	1,193.17	1,151.17	1,145.88	4.12	4.03	-151.48	149.11	29.87	223.29	215.26	8.03	27.812		
1,300.00	1,289.17	1,232.08	1,224.10	4.50	4.32	-151.22	167.65	38.97	269.57	260.96	8.61	31.310		
1,400.00	1,383.85	1,308.57	1,297.34	4.89	4.60	-150.86	187.44	48.69	321.85	312.69	9.16	35.155		
1,500.00	1,477.05	1,380.41	1,365.42	5.29	4.86	-150.40	208.02	58.80	379.69	370.02	9.67	39.265		
1,600.00	1,568.57	1,447.44	1,428.26	5.71	5.12	-149.84	228.94	69.07	442.70	432.55	10.15	43.606		
1,649.79	1,613.46	1,479.00	1,457.61	5.93	5.24	-149.51	239.36	74.19	475.87	465.48	10.38	45.823		
1,700.00	1,658.50	1,509.88	1,486.17	6.15	5.36	-149.72	249.91	79.37	510.11	499.51	10.60	48.108		
1,800.00	1,748.19	1,569.44	1,540.79	6.59	5.59	-149.98	271.22	89.83	579.57	568.56	11.02	52.610		
1,900.00	1,837.88	1,626.47	1,592.50	7.05	5.81	-150.09	292.81	100.43	650.62	639.20	11.41	57.007		
2,000.00	1,927.57	1,681.08	1,641.43	7.51	6.03	-150.11	314.56	111.11	723.14	711.34	11.79	61.318		
2,100.00	2,017.26	1,733.35	1,687.72	7.98	6.24	-150.06	336.36	121.81	797.04	784.88	12.16	65.556		
2,200.00	2,106.95	1,783.60	1,731.68	8.46	6.45	-149.96	358.20	132.54	872.24	859.73	12.51	69.722		
2,300.00	2,196.64	1,848.49	1,788.11	8.93	6.72	-149.82	386.96	146.66	948.07	935.06	13.01	72.882		
2,400.00	2,286.34	1,913.66	1,844.78	9.41	7.00	-149.70	415.85	160.85	1,023.90	1,010.39	13.51	75.764		
2,500.00	2,376.03	1,978.84	1,901.46	9.90	7.28	-149.60	444.74	175.03	1,099.73	1,085.71	14.02	78.416		
2,600.00	2,465.72	2,044.02	1,958.14	10.39	7.56	-149.51	473.63	189.22	1,175.56	1,161.03	14.54	80.859		
2,700.00	2,555.41	2,109.19	2,014.81	10.87	7.84	-149.43	502.52	203.40	1,251.40	1,236.34	15.06	83.117		
2,800.00	2,645.10	2,174.37	2,071.49	11.36	8.13	-149.35	531.41	217.58	1,327.23	1,311.66	15.58	85.206		
2,900.00	2,734.79	2,239.55	2,128.16	11.86	8.42	-149.29	560.29	231.77	1,403.07	1,386.97	16.10	87.145		
3,000.00	2,824.48	2,304.72	2,184.84	12.35	8.71	-149.24	589.18	245.95	1,478.91	1,462.28	16.63	88.948		
3,100.00	2,914.18	2,369.90	2,241.52	12.85	9.00	-149.18	618.07	260.14	1,554.74	1,537.59	17.16	90.626		
3,200.00	3,003.87	2,435.07	2,298.19	13.34	9.29	-149.14	646.96	274.32	1,630.58	1,612.89	17.69	92.192		
3,300.00	3,093.56	2,500.25	2,354.87	13.84	9.59	-149.10	675.85	288.51	1,706.42	1,688.20	18.22	93.657		
3,400.00	3,183.25	2,565.43	2,411.55	14.34	9.88	-149.06	704.74	302.69	1,782.26	1,763.50	18.76	95.027		
3,500.00	3,272.94	2,630.60	2,468.22	14.84	10.18	-149.02	733.63	316.88	1,858.10	1,838.80	19.29	96.312		
3,600.00	3,362.63	2,695.78	2,524.90	15.33	10.48	-148.99	762.52	331.06	1,933.93	1,914.10	19.83	97.519		
3,700.00	3,452.32	2,760.96	2,581.57	15.83	10.78	-148.96	791.41	345.25	2,009.77	1,989.40	20.37	98.654		
3,800.00	3,542.01	2,826.13	2,638.25	16.34	11.08	-148.93	820.29	359.43	2,085.61	2,064.70	20.91	99.723		
3,900.00	3,631.71	2,891.31	2,694.93	16.84	11.38	-148.91	849.18	373.62	2,161.45	2,139.99	21.46	100.731		
4,000.00	3,721.40	2,956.49	2,751.60	17.34	11.68	-148.88	878.07	387.80	2,237.29	2,215.29	22.00	101.681		
4,100.00	3,811.09	3,021.66	2,808.28	17.84	11.98	-148.86	906.96	401.99	2,313.13	2,290.58	22.55	102.580		
4,200.00	3,900.78	3,086.84	2,864.95	18.34	12.28	-148.84	935.85	416.17	2,388.97	2,365.87	23.10	103.431		
4,300.00	3,990.47	3,152.02	2,921.63	18.85	12.59	-148.82	964.74	430.36	2,464.81	2,441.17	23.65	104.236		

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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	Offset	Semi Major Axis		Rule Assigned:		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.57	60.00	0.60	60.00					
100.00	100.00	100.00	100.00	0.25	0.25	0.57	60.00	0.60	60.00	59.50	0.50	119.561		
200.00	200.00	200.00	200.00	0.61	0.61	0.57	60.00	0.60	60.00	58.78	1.22	49.231		
300.00	300.00	300.00	300.00	0.97	0.97	0.57	60.00	0.60	60.00	58.07	1.94	30.997		
400.00	400.00	400.00	400.00	1.33	1.33	0.57	60.00	0.60	60.00	57.35	2.65	22.620		
500.00	500.00	500.00	500.00	1.68	1.68	0.57	60.00	0.60	60.00	56.63	3.37	17.807		
600.00	600.00	600.00	600.00	2.04	2.04	0.57	60.00	0.60	60.00	55.92	4.09	14.683 CC, ES		
700.00	699.97	698.66	698.64	2.39	2.39	-151.19	61.02	1.96	62.97	58.18	4.78	13.171		
800.00	799.75	796.84	796.68	2.72	2.74	-150.35	64.05	6.01	71.85	66.38	5.47	13.146 SF		
900.00	899.14	894.05	893.53	3.07	3.09	-149.31	69.03	12.68	86.61	80.45	6.15	14.077		
1,000.00	997.97	989.83	988.63	3.41	3.43	-148.28	75.85	21.81	107.17	100.34	6.84	15.679		
1,100.00	1,096.04	1,083.76	1,081.46	3.76	3.77	-147.36	84.39	33.24	133.43	125.92	7.51	17.765		
1,200.00	1,193.17	1,175.44	1,171.58	4.12	4.10	-146.53	94.48	46.74	165.23	157.05	8.17	20.213		
1,300.00	1,289.17	1,264.52	1,258.58	4.50	4.43	-145.78	105.93	62.06	202.38	193.56	8.82	22.937		
1,400.00	1,383.85	1,350.71	1,342.14	4.89	4.74	-145.07	118.55	78.94	244.69	235.24	9.46	25.876		
1,500.00	1,477.05	1,434.87	1,423.12	5.29	5.06	-144.38	132.28	97.31	291.90	281.82	10.08	28.955		
1,600.00	1,568.57	1,520.96	1,505.74	5.71	5.38	-143.96	146.77	116.70	342.73	332.00	10.73	31.931		
1,649.79	1,613.46	1,563.11	1,546.18	5.93	5.54	-143.84	153.87	126.19	369.17	358.11	11.06	33.381		
1,700.00	1,658.50	1,605.36	1,586.73	6.15	5.70	-144.20	160.98	135.71	396.22	384.84	11.38	34.818		
1,800.00	1,748.19	1,689.52	1,667.49	6.59	6.03	-144.78	175.14	154.66	450.12	438.10	12.02	37.461		
1,900.00	1,837.88	1,773.67	1,748.25	7.05	6.35	-145.23	189.31	173.62	504.04	491.38	12.66	39.822		
2,000.00	1,927.57	1,857.83	1,829.02	7.51	6.68	-145.60	203.48	192.57	557.98	544.67	13.30	41.943		
2,100.00	2,017.26	1,941.99	1,909.78	7.98	7.01	-145.91	217.64	211.53	611.93	597.98	13.95	43.855		
2,200.00	2,106.95	2,026.14	1,990.54	8.46	7.34	-146.16	231.81	230.48	665.90	651.29	14.61	45.587		
2,300.00	2,196.64	2,110.30	2,071.30	8.93	7.67	-146.38	245.97	249.43	719.87	704.60	15.26	47.161		
2,400.00	2,286.34	2,194.45	2,152.06	9.41	8.00	-146.56	260.14	268.39	773.85	757.92	15.92	48.596		
2,500.00	2,376.03	2,278.61	2,232.82	9.90	8.33	-146.73	274.30	287.34	827.83	811.24	16.59	49.910		
2,600.00	2,465.72	2,362.76	2,313.58	10.39	8.66	-146.87	288.47	306.30	881.82	864.56	17.25	51.116		
2,700.00	2,555.41	2,446.92	2,394.34	10.87	9.00	-146.99	302.64	325.25	935.81	917.89	17.92	52.228		
2,800.00	2,645.10	2,531.08	2,475.10	11.36	9.33	-147.11	316.80	344.20	989.80	971.21	18.59	53.254		
2,900.00	2,734.79	2,615.23	2,555.86	11.86	9.66	-147.21	330.97	363.16	1,043.80	1,024.54	19.26	54.205		
3,000.00	2,824.48	2,699.39	2,636.62	12.35	10.00	-147.30	345.13	382.11	1,097.79	1,077.87	19.93	55.087		
3,100.00	2,914.18	2,783.54	2,717.38	12.85	10.33	-147.38	359.30	401.07	1,151.79	1,131.19	20.60	55.909		
3,200.00	3,003.87	2,867.70	2,798.14	13.34	10.67	-147.45	373.47	420.02	1,205.80	1,184.52	21.28	56.674		
3,300.00	3,093.56	2,951.85	2,878.90	13.84	11.01	-147.52	387.63	438.98	1,259.80	1,237.85	21.95	57.390		
3,400.00	3,183.25	3,036.01	2,959.66	14.34	11.34	-147.59	401.80	457.93	1,313.80	1,291.17	22.63	58.061		
3,500.00	3,272.94	3,120.17	3,040.42	14.84	11.68	-147.64	415.96	476.88	1,367.81	1,344.50	23.31	58.690		
3,600.00	3,362.63	3,204.32	3,121.18	15.33	12.02	-147.70	430.13	495.84	1,421.81	1,397.83	23.98	59.281		
3,700.00	3,452.32	3,288.48	3,201.94	15.83	12.35	-147.75	444.29	514.79	1,475.82	1,451.15	24.66	59.837		
3,800.00	3,542.01	3,372.63	3,282.70	16.34	12.69	-147.79	458.46	533.75	1,529.83	1,504.48	25.34	60.361		
3,900.00	3,631.71	3,456.79	3,363.47	16.84	13.03	-147.83	472.63	552.70	1,583.83	1,557.81	26.03	60.857		
4,000.00	3,721.40	3,540.95	3,444.23	17.34	13.36	-147.87	486.79	571.65	1,637.84	1,611.13	26.71	61.325		
4,100.00	3,811.09	3,625.10	3,524.99	17.84	13.70	-147.91	500.96	590.61	1,691.85	1,664.46	27.39	61.768		
4,200.00	3,900.78	3,709.26	3,605.75	18.34	14.04	-147.95	515.12	609.56	1,745.86	1,717.79	28.07	62.189		
4,300.00	3,990.47	3,793.41	3,686.51	18.85	14.38	-147.98	529.29	628.52	1,799.87	1,771.11	28.76	62.588		
4,400.00	4,080.16	3,877.57	3,767.27	19.35	14.72	-148.01	543.46	647.47	1,853.88	1,824.44	29.44	62.967		
4,500.00	4,169.85	3,961.72	3,848.03	19.85	15.06	-148.04	557.62	666.42	1,907.89	1,877.76	30.13	63.327		
4,600.00	4,259.55	4,045.88	3,928.79	20.36	15.39	-148.07	571.79	685.38	1,961.90	1,931.09	30.81	63.671		
4,700.00	4,349.24	4,130.04	4,009.55	20.86	15.73	-148.09	585.95	704.33	2,015.91	1,984.41	31.50	63.998		
4,800.00	4,438.93	4,214.19	4,090.31	21.37	16.07	-148.12	600.12	723.29	2,069.93	2,037.74	32.19	64.310		
4,900.00	4,528.62	4,298.35	4,171.07	21.87	16.41	-148.14	614.28	742.24	2,123.94	2,091.06	32.87	64.609		
5,000.00	4,618.31	4,382.50	4,251.83	22.38	16.75	-148.17	628.45	761.19	2,177.95	2,144.39	33.56	64.894		

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,708.00	4,466.66	4,332.59	22.88	17.09	-148.19	642.62	780.15	2,231.96	2,197.71	34.25	65.166		
5,200.00	4,797.69	4,550.81	4,413.35	23.39	17.43	-148.21	656.78	799.10	2,285.97	2,251.04	34.94	65.427		
5,300.00	4,887.38	4,634.97	4,494.11	23.89	17.77	-148.23	670.95	818.06	2,339.99	2,304.36	35.63	65.677		
5,400.00	4,977.08	4,719.13	4,574.87	24.40	18.11	-148.25	685.11	837.01	2,394.00	2,357.68	36.32	65.917		
5,500.00	5,066.77	4,803.28	4,655.63	24.91	18.44	-148.26	699.28	855.96	2,448.01	2,411.00	37.01	66.147		

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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 203H - 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	Offset	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	0.57	29.90	0.30	29.90					
100.00	100.00	100.00	100.00	0.25	0.25	0.57	29.90	0.30	29.90	29.40	0.50	59.581		
200.00	200.00	200.00	200.00	0.61	0.61	0.57	29.90	0.30	29.90	28.68	1.22	24.533		
300.00	300.00	300.00	300.00	0.97	0.97	0.57	29.90	0.30	29.90	27.97	1.94	15.447		
400.00	400.00	400.00	400.00	1.33	1.33	0.57	29.90	0.30	29.90	27.25	2.65	11.272		
500.00	500.00	500.00	500.00	1.68	1.68	0.57	29.90	0.30	29.90	26.53	3.37	8.874		
600.00	600.00	600.00	600.00	2.04	2.04	0.57	29.90	0.30	29.90	25.81	4.09	7.317	CC, ES	
700.00	699.97	700.50	700.48	2.39	2.39	-150.58	29.04	1.84	30.98	26.20	4.78	6.486		
800.00	799.75	800.94	800.78	2.72	2.73	-148.13	26.45	6.44	34.25	28.80	5.45	6.285		
900.00	899.14	901.29	900.73	3.07	3.08	-144.93	22.14	14.10	39.81	33.67	6.13	6.489		
1,000.00	997.97	1,001.49	1,000.17	3.41	3.43	-141.70	16.13	24.78	47.71	40.88	6.83	6.986		
1,100.00	1,096.04	1,101.48	1,098.93	3.76	3.78	-138.82	8.44	38.46	58.01	50.47	7.53	7.698		
1,200.00	1,193.17	1,201.24	1,196.84	4.12	4.15	-136.41	-0.91	55.09	70.67	62.42	8.25	8.566		
1,300.00	1,289.17	1,300.71	1,293.75	4.50	4.51	-134.44	-11.90	74.62	85.69	76.71	8.98	9.544		
1,400.00	1,383.85	1,399.50	1,389.27	4.89	4.89	-133.07	-24.23	96.55	103.11	93.39	9.72	10.611		
1,500.00	1,477.05	1,497.40	1,483.84	5.29	5.26	-133.28	-36.65	118.63	123.39	112.93	10.46	11.795		
1,600.00	1,568.57	1,594.57	1,577.70	5.71	5.64	-134.53	-48.98	140.55	146.66	135.45	11.20	13.090		
1,649.79	1,613.46	1,642.62	1,624.12	5.93	5.82	-135.37	-55.07	151.39	159.40	147.83	11.57	13.773		
1,700.00	1,658.50	1,690.96	1,670.80	6.15	6.01	-136.42	-61.20	162.29	172.68	160.74	11.94	14.459		
1,800.00	1,748.19	1,787.22	1,763.79	6.59	6.39	-138.10	-73.41	184.01	199.25	186.57	12.68	15.714		
1,900.00	1,837.88	1,883.48	1,856.77	7.05	6.77	-139.39	-85.63	205.72	225.95	212.53	13.42	16.834		
2,000.00	1,927.57	1,979.74	1,949.75	7.51	7.15	-140.40	-97.84	227.43	252.73	238.56	14.17	17.836		
2,100.00	2,017.26	2,076.00	2,042.73	7.98	7.53	-141.22	-110.05	249.15	279.57	264.65	14.92	18.738		
2,200.00	2,106.95	2,172.26	2,135.71	8.46	7.92	-141.89	-122.26	270.86	306.45	290.78	15.67	19.551		
2,300.00	2,196.64	2,268.53	2,228.70	8.93	8.30	-142.46	-134.47	292.57	333.37	316.93	16.43	20.288		
2,400.00	2,286.34	2,364.79	2,321.68	9.41	8.69	-142.94	-146.68	314.29	360.31	343.12	17.19	20.959		
2,500.00	2,376.03	2,461.05	2,414.66	9.90	9.08	-143.36	-158.89	336.00	387.27	369.32	17.95	21.571		
2,600.00	2,465.72	2,557.31	2,507.64	10.39	9.46	-143.72	-171.11	357.71	414.25	395.53	18.72	22.132		
2,700.00	2,555.41	2,653.57	2,600.62	10.87	9.85	-144.03	-183.32	379.43	441.24	421.76	19.48	22.648		
2,800.00	2,645.10	2,749.83	2,693.61	11.36	10.24	-144.31	-195.53	401.14	468.24	447.99	20.25	23.123		
2,900.00	2,734.79	2,846.09	2,786.59	11.86	10.63	-144.56	-207.74	422.85	495.25	474.24	21.02	23.562		
3,000.00	2,824.48	2,942.36	2,879.57	12.35	11.02	-144.79	-219.95	444.57	522.27	500.49	21.79	23.970		
3,100.00	2,914.18	3,038.62	2,972.55	12.85	11.41	-144.99	-232.16	466.28	549.30	526.74	22.56	24.349		
3,200.00	3,003.87	3,134.88	3,065.54	13.34	11.80	-145.17	-244.37	487.99	576.33	553.00	23.33	24.701		
3,300.00	3,093.56	3,231.14	3,158.52	13.84	12.19	-145.34	-256.59	509.71	603.37	579.27	24.11	25.031		
3,400.00	3,183.25	3,327.40	3,251.50	14.34	12.59	-145.49	-268.80	531.42	630.41	605.53	24.88	25.339		
3,500.00	3,272.94	3,423.66	3,344.48	14.84	12.98	-145.63	-281.01	553.14	657.46	631.80	25.65	25.628		
3,600.00	3,362.63	3,519.92	3,437.46	15.33	13.37	-145.76	-293.22	574.85	684.51	658.08	26.43	25.900		
3,700.00	3,452.32	3,616.19	3,530.45	15.83	13.76	-145.88	-305.43	596.56	711.56	684.35	27.20	26.155		
3,800.00	3,542.01	3,712.45	3,623.43	16.34	14.16	-145.99	-317.64	618.28	738.61	710.63	27.98	26.396		
3,900.00	3,631.71	3,808.71	3,716.41	16.84	14.55	-146.09	-329.85	639.99	765.67	736.91	28.76	26.624		
4,000.00	3,721.40	3,904.97	3,809.39	17.34	14.94	-146.19	-342.07	661.70	792.73	763.19	29.54	26.839		
4,100.00	3,811.09	4,001.23	3,902.37	17.84	15.33	-146.28	-354.28	683.42	819.79	789.47	30.31	27.043		
4,200.00	3,900.78	4,097.49	3,995.36	18.34	15.73	-146.36	-366.49	705.13	846.85	815.76	31.09	27.236		
4,300.00	3,990.47	4,193.75	4,088.34	18.85	16.12	-146.44	-378.70	726.84	873.91	842.04	31.87	27.419		
4,400.00	4,080.16	4,290.02	4,181.32	19.35	16.51	-146.51	-390.91	748.56	900.98	868.33	32.65	27.593		
4,500.00	4,169.85	4,386.28	4,274.30	19.85	16.91	-146.58	-403.12	770.27	928.05	894.61	33.43	27.759		
4,600.00	4,259.55	4,482.54	4,367.28	20.36	17.30	-146.65	-415.33	791.98	955.11	920.90	34.21	27.918		
4,700.00	4,349.24	4,578.80	4,460.27	20.86	17.70	-146.71	-427.55	813.70	982.18	947.19	34.99	28.068		
4,800.00	4,438.93	4,675.06	4,553.25	21.37	18.09	-146.77	-439.76	835.41	1,009.25	973.48	35.77	28.212		
4,900.00	4,528.62	4,771.32	4,646.23	21.87	18.48	-146.82	-451.97	857.12	1,036.32	999.77	36.55	28.350		
5,000.00	4,618.31	4,867.58	4,739.21	22.38	18.88	-146.87	-464.18	878.84	1,063.40	1,026.06	37.34	28.482		

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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 203H - OH - Plan #1											Offset Site Error:		0.00 usft	
Survey Program:		0-SuperiorQC MWD+IFR1+SAG+FDIR						Rule Assigned:				Offset Well Error:		0.00 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
5,100.00	4,708.00	4,963.85	4,832.19	22.88	19.27	-146.92	-476.39	900.55	1,090.47	1,052.35	38.12	28.608				
5,200.00	4,797.69	5,060.11	4,925.18	23.39	19.67	-146.97	-488.60	922.26	1,117.54	1,078.64	38.90	28.729				
5,300.00	4,887.38	5,156.37	5,018.16	23.89	20.06	-147.02	-500.81	943.98	1,144.62	1,104.93	39.68	28.845				
5,400.00	4,977.08	5,252.63	5,111.14	24.40	20.45	-147.06	-513.03	965.69	1,171.69	1,131.23	40.46	28.956				
5,500.00	5,066.77	5,348.89	5,204.12	24.91	20.85	-147.10	-525.24	987.40	1,198.77	1,157.52	41.25	29.063				
5,600.00	5,156.46	5,445.15	5,297.11	25.41	21.24	-147.14	-537.45	1,009.12	1,225.84	1,183.81	42.03	29.166				
5,700.00	5,246.15	5,541.41	5,390.09	25.92	21.64	-147.18	-549.66	1,030.83	1,252.92	1,210.10	42.81	29.265				
5,800.00	5,335.84	5,633.48	5,479.04	26.43	22.01	-147.22	-561.30	1,051.53	1,280.04	1,236.47	43.57	29.382				
5,900.00	5,425.53	5,713.38	5,566.63	26.93	22.34	-147.32	-570.63	1,068.12	1,308.03	1,263.81	44.22	29.582				
5,968.02	5,486.54	5,767.31	5,609.29	27.28	22.55	-147.43	-576.32	1,078.24	1,327.75	1,283.10	44.64	29.740				
6,000.00	5,515.32	5,800.00	5,641.32	27.44	22.68	-147.64	-579.54	1,083.96	1,337.06	1,292.16	44.90	29.781				
6,100.00	5,606.53	5,871.74	5,711.85	27.93	22.95	-148.19	-585.96	1,095.38	1,364.53	1,319.09	45.44	30.026				
6,200.00	5,699.44	5,951.04	5,790.17	28.39	23.25	-148.72	-592.06	1,106.22	1,389.68	1,343.65	46.03	30.192				
6,300.00	5,793.87	6,030.47	5,868.93	28.84	23.54	-149.21	-597.09	1,115.17	1,412.45	1,365.86	46.59	30.315				
6,400.00	5,889.65	6,109.98	5,948.03	29.25	23.82	-149.65	-601.06	1,122.22	1,432.83	1,385.70	47.14	30.398				
6,500.00	5,986.59	6,189.56	6,027.39	29.65	24.09	-150.07	-603.95	1,127.36	1,450.80	1,403.14	47.66	30.443				
6,600.00	6,084.50	6,269.18	6,106.91	30.02	24.36	-150.45	-605.76	1,130.58	1,466.33	1,418.18	48.15	30.452				
6,700.00	6,183.21	6,348.79	6,186.51	30.37	24.62	-150.81	-606.48	1,131.87	1,479.43	1,430.81	48.62	30.426				
6,800.00	6,282.52	6,444.80	6,282.52	30.70	24.91	-151.14	-606.50	1,131.90	1,489.62	1,440.42	49.21	30.273				
6,900.00	6,382.25	6,544.52	6,382.25	31.01	25.22	-151.35	-606.50	1,131.90	1,496.04	1,446.22	49.82	30.029				
7,000.00	6,482.19	6,644.47	6,482.19	31.29	25.52	-151.44	-606.50	1,131.90	1,498.64	1,448.20	50.44	29.714				
7,017.81	6,500.00	6,662.28	6,500.00	31.34	25.58	0.65	-606.50	1,131.90	1,498.70	1,448.15	50.54	29.651				
7,027.56	6,509.76	6,672.04	6,509.76	31.36	25.61	0.65	-606.50	1,131.90	1,498.70	1,448.10	50.60	29.617				
7,096.37	6,578.56	6,740.75	6,578.47	31.52	25.82	0.65	-606.50	1,131.82	1,498.70	1,447.69	51.01	29.379				
7,100.00	6,582.19	6,744.35	6,582.07	31.53	25.83	89.83	-606.50	1,131.74	1,498.70	1,447.67	51.03	29.367				
7,125.00	6,607.18	6,769.09	6,606.78	31.59	25.90	89.81	-606.48	1,130.45	1,498.70	1,447.53	51.17	29.289				
7,150.00	6,632.08	6,793.81	6,631.36	31.65	25.96	89.79	-606.44	1,127.89	1,498.70	1,447.40	51.30	29.215				
7,175.00	6,656.84	6,818.51	6,655.75	31.70	26.03	89.78	-606.39	1,124.06	1,498.70	1,447.28	51.43	29.143				
7,200.00	6,681.38	6,843.18	6,679.90	31.75	26.09	89.76	-606.31	1,118.99	1,498.71	1,447.16	51.54	29.076				
7,225.00	6,705.64	6,867.84	6,703.73	31.80	26.15	89.74	-606.22	1,112.68	1,498.71	1,447.05	51.66	29.011				
7,250.00	6,729.56	6,892.47	6,727.18	31.85	26.21	89.73	-606.11	1,105.15	1,498.71	1,446.94	51.77	28.950				
7,275.00	6,753.06	6,917.09	6,750.20	31.90	26.27	89.72	-605.99	1,096.43	1,498.71	1,446.84	51.87	28.891				
7,300.00	6,776.08	6,941.69	6,772.72	31.94	26.32	89.70	-605.85	1,086.54	1,498.72	1,446.74	51.97	28.836				
7,325.00	6,798.56	6,966.28	6,794.69	31.98	26.37	89.69	-605.69	1,075.52	1,498.72	1,446.65	52.07	28.783				
7,350.00	6,820.43	6,990.84	6,816.05	32.02	26.42	89.68	-605.51	1,063.38	1,498.72	1,446.56	52.16	28.733				
7,375.00	6,841.65	7,015.40	6,836.75	32.05	26.47	89.67	-605.32	1,050.18	1,498.72	1,446.48	52.25	28.685				
7,400.00	6,862.14	7,039.94	6,856.73	32.08	26.52	89.66	-605.11	1,035.93	1,498.73	1,446.40	52.33	28.639				
7,425.00	6,881.85	7,064.47	6,875.94	32.11	26.56	89.65	-604.89	1,020.68	1,498.73	1,446.32	52.41	28.596				
7,450.00	6,900.74	7,089.00	6,894.34	32.13	26.60	89.64	-604.66	1,004.47	1,498.73	1,446.24	52.49	28.554				
7,475.00	6,918.74	7,113.51	6,911.87	32.15	26.64	89.64	-604.41	987.35	1,498.73	1,446.17	52.56	28.514				
7,500.00	6,935.81	7,138.01	6,928.50	32.17	26.67	89.63	-604.15	969.36	1,498.74	1,446.11	52.63	28.476				
7,525.00	6,951.90	7,162.51	6,944.18	32.19	26.71	89.63	-603.88	950.54	1,498.74	1,446.04	52.70	28.439				
7,550.00	6,966.96	7,187.00	6,958.87	32.20	26.74	89.62	-603.60	930.94	1,498.74	1,445.98	52.77	28.404				
7,575.00	6,980.96	7,211.49	6,972.53	32.21	26.77	89.62	-603.30	910.62	1,498.74	1,445.91	52.83	28.369				
7,600.00	6,993.86	7,235.98	6,985.13	32.22	26.80	89.62	-603.00	889.64	1,498.75	1,445.85	52.89	28.336				
7,625.00	7,005.62	7,260.46	6,996.64	32.22	26.82	89.62	-602.69	868.03	1,498.75	1,445.80	52.95	28.304				
7,650.00	7,016.21	7,284.95	7,007.02	32.22	26.85	89.62	-602.37	845.86	1,498.75	1,445.74	53.01	28.273				
7,675.00	7,025.60	7,309.43	7,016.26	32.22	26.87	89.62	-602.04	823.19	1,498.75	1,445.68	53.07	28.242				
7,700.00	7,033.77	7,333.92	7,024.32	32.22	26.89	89.62	-601.71	800.07	1,498.75	1,445.63	53.12	28.213				
7,725.00	7,040.68	7,358.42	7,031.19	32.21	26.91	89.63	-601.37	776.56	1,498.75	1,445.58	53.17	28.185				
7,750.00	7,046.33	7,382.92	7,036.84	32.21	26.92	89.63	-601.03	752.73	1,498.76	1,445.53	53.23	28.159				
7,775.00	7,050.70	7,407.42	7,041.27	32.20	26.94	89.64	-600.68	728.63	1,498.76	1,445.48	53.27	28.133				

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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 203H - OH - Plan #1											Offset Site Error:		0.00 usft	
Survey Program:		0-SuperiorQC MWD+IFR1+SAG+FDIR						Rule Assigned:				Offset Well Error:		0.00 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning			
7,800.00	7,053.77	7,431.94	7,044.45	32.18	26.95	89.64	-600.33	704.33	1,498.76	1,445.44	53.32	28.109				
7,825.00	7,055.55	7,456.46	7,046.39	32.17	26.96	89.65	-599.97	679.89	1,498.76	1,445.40	53.36	28.087				
7,851.16	7,056.00	7,482.13	7,047.06	32.16	26.97	89.66	-599.60	654.23	1,498.76	1,445.36	53.40	28.064				
7,900.00	7,055.51	7,530.83	7,046.31	32.13	27.00	89.65	-598.90	605.55	1,498.77	1,445.27	53.49	28.017				
8,000.00	7,054.51	7,630.82	7,044.64	32.08	27.08	89.62	-597.46	505.58	1,498.78	1,445.04	53.74	27.890				
8,100.00	7,053.50	7,730.82	7,042.98	32.04	27.20	89.60	-596.01	405.60	1,498.79	1,444.71	54.08	27.715				
8,200.00	7,052.50	7,830.82	7,041.31	32.01	27.37	89.57	-594.57	305.63	1,498.81	1,444.30	54.51	27.497				
8,300.00	7,051.49	7,930.82	7,039.64	31.99	27.58	89.55	-593.13	205.66	1,498.82	1,443.79	55.03	27.238				
8,400.00	7,050.49	8,030.81	7,037.97	31.97	27.85	89.52	-591.68	105.68	1,498.83	1,443.20	55.63	26.943				
8,500.00	7,049.49	8,130.81	7,036.30	31.97	28.16	89.50	-590.24	5.71	1,498.85	1,442.53	56.32	26.613				
8,600.00	7,048.48	8,230.81	7,034.63	31.98	28.52	89.47	-588.80	-94.26	1,498.86	1,441.78	57.09	26.255				
8,700.00	7,047.48	8,330.81	7,032.96	32.01	28.92	89.44	-587.35	-194.24	1,498.88	1,440.94	57.93	25.872				
8,800.00	7,046.47	8,430.81	7,031.29	32.06	29.37	89.42	-585.91	-294.21	1,498.89	1,440.04	58.86	25.468				
8,900.00	7,045.47	8,530.80	7,029.62	32.14	29.85	89.39	-584.46	-394.18	1,498.91	1,439.06	59.85	25.046				
9,000.00	7,044.46	8,630.80	7,027.95	32.27	30.38	89.37	-583.02	-494.16	1,498.93	1,438.02	60.90	24.611				
9,100.00	7,043.46	8,730.80	7,026.28	32.46	30.93	89.34	-581.58	-594.13	1,498.94	1,436.92	62.03	24.166				
9,200.00	7,042.46	8,830.80	7,024.62	32.72	31.52	89.32	-580.13	-694.10	1,498.96	1,435.75	63.21	23.714				
9,300.00	7,041.45	8,930.79	7,022.95	33.08	32.14	89.29	-578.69	-794.08	1,498.98	1,434.53	64.45	23.258				
9,400.00	7,040.45	9,030.79	7,021.28	33.53	32.79	89.27	-577.25	-894.05	1,498.99	1,433.25	65.74	22.801				
9,500.00	7,039.44	9,130.79	7,019.61	34.06	33.46	89.24	-575.80	-994.02	1,499.01	1,431.92	67.09	22.345				
9,600.00	7,038.44	9,230.79	7,017.94	34.66	34.16	89.22	-574.36	-1,094.00	1,499.03	1,430.55	68.48	21.891				
9,700.00	7,037.44	9,330.79	7,016.27	35.31	34.88	89.19	-572.92	-1,193.97	1,499.05	1,429.13	69.91	21.441				
9,800.00	7,036.43	9,430.78	7,014.60	36.00	35.63	89.17	-571.47	-1,293.95	1,499.07	1,427.67	71.39	20.997				
9,900.00	7,035.43	9,530.78	7,012.93	36.72	36.39	89.14	-570.03	-1,393.92	1,499.08	1,426.17	72.91	20.560				
10,000.00	7,034.42	9,630.78	7,011.26	37.48	37.17	89.11	-568.59	-1,493.89	1,499.10	1,424.64	74.47	20.131				
10,100.00	7,033.42	9,730.78	7,009.59	38.25	37.97	89.09	-567.14	-1,593.87	1,499.12	1,423.06	76.06	19.710				
10,200.00	7,032.42	9,830.77	7,007.92	39.05	38.79	89.06	-565.70	-1,693.84	1,499.14	1,421.46	77.68	19.299				
10,300.00	7,031.41	9,930.77	7,006.26	39.87	39.62	89.04	-564.26	-1,793.81	1,499.16	1,419.83	79.33	18.897				
10,400.00	7,030.41	10,030.77	7,004.59	40.70	40.47	89.01	-562.81	-1,893.79	1,499.18	1,418.16	81.02	18.504				
10,500.00	7,029.40	10,130.77	7,002.92	41.55	41.33	88.99	-561.37	-1,993.76	1,499.20	1,416.48	82.73	18.122				
10,600.00	7,028.40	10,230.77	7,001.25	42.42	42.20	88.96	-559.92	-2,093.73	1,499.22	1,414.76	84.46	17.750				
10,700.00	7,027.40	10,330.76	6,999.58	43.29	43.09	88.94	-558.48	-2,193.71	1,499.24	1,413.02	86.22	17.388				
10,800.00	7,026.39	10,430.76	6,997.91	44.18	43.98	88.91	-557.04	-2,293.68	1,499.27	1,411.26	88.00	17.036				
10,900.00	7,025.39	10,530.76	6,996.24	45.08	44.89	88.89	-555.59	-2,393.65	1,499.29	1,409.48	89.81	16.695				
11,000.00	7,024.38	10,630.76	6,994.57	45.99	45.80	88.86	-554.15	-2,493.63	1,499.31	1,407.68	91.63	16.363				
11,100.00	7,023.38	10,730.75	6,992.90	46.91	46.73	88.84	-552.71	-2,593.60	1,499.33	1,405.86	93.47	16.041				
11,200.00	7,022.38	10,830.75	6,991.23	47.84	47.66	88.81	-551.26	-2,693.57	1,499.35	1,404.03	95.33	15.728				
11,300.00	7,021.37	10,930.75	6,989.56	48.78	48.60	88.78	-549.82	-2,793.55	1,499.38	1,402.17	97.20	15.425				
11,400.00	7,020.37	11,030.75	6,987.90	49.73	49.55	88.76	-548.38	-2,893.52	1,499.40	1,400.30	99.10	15.131				
11,500.00	7,019.36	11,130.75	6,986.23	50.68	50.51	88.73	-546.93	-2,993.49	1,499.42	1,398.42	101.00	14.845				
11,600.00	7,018.36	11,230.74	6,984.56	51.64	51.48	88.71	-545.49	-3,093.47	1,499.45	1,396.53	102.92	14.569				
11,700.00	7,017.36	11,330.74	6,982.89	52.61	52.45	88.68	-544.05	-3,193.44	1,499.47	1,394.62	104.86	14.300				
11,800.00	7,016.35	11,430.74	6,981.22	53.58	53.42	88.66	-542.60	-3,293.41	1,499.50	1,392.70	106.80	14.040				
11,900.00	7,015.35	11,530.74	6,979.55	54.56	54.41	88.63	-541.16	-3,393.39	1,499.52	1,390.76	108.76	13.788				
12,000.00	7,014.34	11,630.73	6,977.88	55.55	55.39	88.61	-539.72	-3,493.36	1,499.55	1,388.82	110.73	13.543				
12,100.00	7,013.34	11,730.73	6,976.21	56.54	56.39	88.58	-538.27	-3,593.33	1,499.57	1,386.87	112.71	13.305				
12,200.00	7,012.34	11,830.73	6,974.54	57.53	57.39	88.56	-536.83	-3,693.31	1,499.60	1,384.90	114.69	13.075				
12,300.00	7,011.33	11,930.73	6,972.87	58.53	58.39	88.53	-535.38	-3,793.28	1,499.62	1,382.93	116.69	12.851				
12,400.00	7,010.33	12,030.73	6,971.20	59.54	59.40	88.50	-533.94	-3,893.25	1,499.65	1,380.95	118.70	12.634				
12,500.00	7,009.32	12,130.72	6,969.54	60.55	60.41	88.48	-532.50	-3,993.23	1,499.67	1,378.96	120.72	12.423				
12,600.00	7,008.32	12,230.72	6,967.87	61.56	61.42	88.45	-531.05	-4,093.20	1,499.70	1,376.96	122.74	12.218				
12,700.00	7,007.31	12,330.72	6,966.20	62.58	62.44	88.43	-529.61	-4,193.17	1,499.73	1,374.95	124.77	12.020				

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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 203H - OH - Plan #1												Offset Site Error:	0.00 usft
Survey Program: 0-SuperiorQC MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
							+N/-S (usft)	+E/-W (usft)					Warning
12,800.00	7,006.31	12,430.72	6,964.53	63.60	63.47	88.40	-528.17	-4,293.15	1,499.76	1,372.94	126.81	11.826	
12,900.00	7,005.31	12,530.71	6,962.86	64.62	64.49	88.38	-526.72	-4,393.12	1,499.78	1,370.92	128.86	11.639	
13,000.00	7,004.30	12,630.71	6,961.19	65.65	65.52	88.35	-525.28	-4,493.10	1,499.81	1,368.90	130.91	11.457	
13,100.00	7,003.30	12,730.71	6,959.52	66.68	66.56	88.33	-523.84	-4,593.07	1,499.84	1,366.87	132.97	11.279	
13,200.00	7,002.29	12,830.71	6,957.85	67.71	67.59	88.30	-522.39	-4,693.04	1,499.87	1,364.83	135.04	11.107	
13,300.00	7,001.29	12,930.71	6,956.18	68.75	68.63	88.28	-520.95	-4,793.02	1,499.90	1,362.79	137.11	10.939	
13,400.00	7,000.29	13,030.70	6,954.51	69.79	69.67	88.25	-519.51	-4,892.99	1,499.93	1,360.74	139.19	10.776	
13,500.00	6,999.28	13,130.70	6,952.84	70.83	70.72	88.23	-518.06	-4,992.96	1,499.95	1,358.69	141.27	10.618	
13,600.00	6,998.28	13,230.70	6,951.18	71.88	71.77	88.20	-516.62	-5,092.94	1,499.98	1,356.63	143.36	10.463	
13,700.00	6,997.27	13,330.70	6,949.51	72.92	72.81	88.17	-515.18	-5,192.91	1,500.01	1,354.57	145.45	10.313	
13,800.00	6,996.27	13,430.69	6,947.84	73.97	73.87	88.15	-513.73	-5,292.88	1,500.04	1,352.50	147.55	10.167	
13,900.00	6,995.27	13,530.69	6,946.17	75.02	74.92	88.12	-512.29	-5,392.86	1,500.07	1,350.43	149.65	10.024	
14,000.00	6,994.26	13,630.69	6,944.50	76.08	75.98	88.10	-510.84	-5,492.83	1,500.11	1,348.35	151.75	9.885	
14,100.00	6,993.26	13,730.69	6,942.83	77.13	77.03	88.07	-509.40	-5,592.80	1,500.14	1,346.27	153.86	9.750	
14,200.00	6,992.25	13,830.69	6,941.16	78.19	78.09	88.05	-507.96	-5,692.78	1,500.17	1,344.19	155.98	9.618	
14,300.00	6,991.25	13,930.68	6,939.49	79.25	79.16	88.02	-506.51	-5,792.75	1,500.20	1,342.11	158.09	9.489	
14,400.00	6,990.25	14,030.68	6,937.82	80.31	80.22	88.00	-505.07	-5,892.72	1,500.23	1,340.02	160.21	9.364	
14,500.00	6,989.24	14,130.68	6,936.15	81.38	81.28	87.97	-503.63	-5,992.70	1,500.26	1,337.93	162.34	9.242	
14,600.00	6,988.24	14,230.68	6,934.48	82.44	82.35	87.95	-502.18	-6,092.67	1,500.30	1,335.83	164.46	9.122	
14,700.00	6,987.23	14,330.67	6,932.82	83.51	83.42	87.92	-500.74	-6,192.64	1,500.33	1,333.73	166.60	9.006	
14,800.00	6,986.23	14,430.67	6,931.15	84.58	84.49	87.90	-499.30	-6,292.62	1,500.36	1,331.63	168.73	8.892	
14,900.00	6,985.23	14,530.67	6,929.48	85.65	85.56	87.87	-497.85	-6,392.59	1,500.40	1,329.53	170.87	8.781	
15,000.00	6,984.22	14,630.67	6,927.81	86.72	86.63	87.84	-496.41	-6,492.56	1,500.43	1,327.42	173.01	8.673	
15,100.00	6,983.22	14,730.67	6,926.14	87.79	87.71	87.82	-494.97	-6,592.54	1,500.46	1,325.32	175.15	8.567	
15,200.00	6,982.21	14,830.66	6,924.47	88.86	88.78	87.79	-493.52	-6,692.51	1,500.50	1,323.21	177.29	8.463	
15,300.00	6,981.21	14,930.66	6,922.80	89.94	89.86	87.77	-492.08	-6,792.48	1,500.53	1,321.09	179.44	8.362	
15,400.00	6,980.21	15,030.66	6,921.13	91.01	90.94	87.74	-490.64	-6,892.46	1,500.57	1,318.98	181.59	8.264	
15,500.00	6,979.20	15,130.66	6,919.46	92.09	92.02	87.72	-489.19	-6,992.43	1,500.60	1,316.86	183.74	8.167	
15,600.00	6,978.20	15,230.65	6,917.79	93.17	93.10	87.69	-487.75	-7,092.40	1,500.64	1,314.74	185.90	8.072	
15,700.00	6,977.19	15,330.65	6,916.12	94.25	94.18	87.67	-486.30	-7,192.38	1,500.67	1,312.62	188.05	7.980	
15,800.00	6,976.19	15,430.65	6,914.45	95.33	95.26	87.64	-484.86	-7,292.35	1,500.71	1,310.50	190.21	7.890	
15,900.00	6,975.19	15,530.65	6,912.79	96.41	96.34	87.62	-483.42	-7,392.32	1,500.75	1,308.38	192.37	7.801	
16,000.00	6,974.18	15,630.65	6,911.12	97.50	97.43	87.59	-481.97	-7,492.30	1,500.78	1,306.25	194.53	7.715	
16,100.00	6,973.18	15,730.64	6,909.45	98.58	98.51	87.57	-480.53	-7,592.27	1,500.82	1,304.12	196.70	7.630	
16,200.00	6,972.17	15,830.64	6,907.78	99.67	99.60	87.54	-479.09	-7,692.25	1,500.86	1,301.99	198.86	7.547	
16,300.00	6,971.17	15,930.64	6,906.11	100.75	100.69	87.52	-477.64	-7,792.22	1,500.89	1,299.86	201.03	7.466	
16,400.00	6,970.16	16,030.64	6,904.44	101.84	101.78	87.49	-476.20	-7,892.19	1,500.93	1,297.73	203.20	7.386	
16,500.00	6,969.16	16,130.64	6,902.77	102.93	102.87	87.46	-474.76	-7,992.17	1,500.97	1,295.60	205.37	7.309	
16,600.00	6,968.16	16,230.63	6,901.10	104.01	103.96	87.44	-473.31	-8,092.14	1,501.01	1,293.46	207.55	7.232	
16,700.00	6,967.15	16,330.63	6,899.43	105.10	105.05	87.41	-471.87	-8,192.11	1,501.05	1,291.33	209.72	7.157	
16,800.00	6,966.15	16,430.63	6,897.76	106.19	106.14	87.39	-470.43	-8,292.09	1,501.09	1,289.19	211.90	7.084	
16,900.00	6,965.14	16,530.63	6,896.09	107.28	107.23	87.36	-468.98	-8,392.06	1,501.13	1,287.05	214.07	7.012	
17,000.00	6,964.14	16,630.62	6,894.43	108.38	108.32	87.34	-467.54	-8,492.03	1,501.17	1,284.91	216.25	6.942	
17,100.00	6,963.14	16,730.62	6,892.76	109.47	109.42	87.31	-466.10	-8,592.01	1,501.21	1,282.77	218.43	6.873	
17,200.00	6,962.13	16,830.62	6,891.09	110.56	110.51	87.29	-464.65	-8,691.98	1,501.25	1,280.63	220.61	6.805	
17,300.00	6,961.13	16,930.62	6,889.42	111.65	111.60	87.26	-463.21	-8,791.95	1,501.29	1,278.49	222.79	6.738	
17,400.00	6,960.12	17,030.62	6,887.75	112.75	112.70	87.24	-461.76	-8,891.93	1,501.33	1,276.35	224.98	6.673	
17,500.00	6,959.12	17,130.61	6,886.08	113.84	113.80	87.21	-460.32	-8,991.90	1,501.37	1,274.21	227.16	6.609	
17,600.00	6,958.12	17,230.61	6,884.41	114.94	114.89	87.19	-458.88	-9,091.87	1,501.41	1,272.06	229.35	6.546	
17,700.00	6,957.11	17,330.61	6,882.74	116.03	115.99	87.16	-457.43	-9,191.85	1,501.45	1,269.92	231.54	6.485	
17,800.00	6,956.11	17,430.61	6,881.07	117.13	117.09	87.14	-455.99	-9,291.82	1,501.49	1,267.77	233.72	6.424	
17,900.00	6,955.10	17,530.60	6,879.40	118.23	118.19	87.11	-454.55	-9,391.79	1,501.54	1,265.62	235.91	6.365	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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 203H - OH - Plan #1													Offset Site Error:	0.00 usft
Survey Program: 0-SuperiorQC MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
18,000.00	6,954.10	17,630.60	6,877.73	119.33	119.29	87.08	-453.10	-9,491.77	1,501.58	1,263.47	238.10	6.306		
18,100.00	6,953.10	17,730.60	6,876.07	120.42	120.38	87.06	-451.66	-9,591.74	1,501.62	1,261.33	240.29	6.249		
18,199.96	6,952.09	17,830.56	6,874.40	121.52	121.48	87.03	-450.22	-9,691.68	1,501.66	1,259.18	242.49	6.193		
18,209.14	6,952.00	17,839.74	6,874.24	121.62	121.58	87.03	-450.08	-9,700.85	1,501.67	1,258.98	242.69	6.188 SF		

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	36.50	0.00	0.00	171.29	-471.78	72.28	478.68				
100.00	100.00	63.50	100.00	0.25	3.18	171.29	-471.78	72.28	477.28	473.85	3.43	139.215	
200.00	200.00	163.50	200.00	0.61	8.18	171.29	-471.78	72.28	477.28	468.49	8.79	54.296	
300.00	300.00	263.50	300.00	0.97	13.18	171.29	-471.78	72.28	477.28	463.13	14.15	33.724	
400.00	400.00	363.50	400.00	1.33	18.19	171.29	-471.78	72.28	477.28	457.77	19.51	24.458	
500.00	500.00	463.50	500.00	1.68	23.19	171.29	-471.78	72.28	477.28	452.41	24.88	19.186	
600.00	600.00	563.50	600.00	2.04	27.59	171.29	-471.78	72.28	477.28	447.65	29.64	16.104	
700.00	699.97	663.47	699.97	2.39	31.65	19.30	-471.78	72.28	475.22	441.19	34.03	13.963	
800.00	799.75	763.25	799.75	2.72	35.69	19.61	-471.78	72.28	469.06	430.64	38.42	12.210	
900.00	899.14	862.64	899.14	3.07	39.73	20.16	-471.78	72.28	458.81	416.02	42.79	10.722	
1,000.00	997.97	961.47	997.97	3.41	43.73	20.96	-471.78	72.28	444.55	397.40	47.15	9.429	
1,100.00	1,096.04	1,059.54	1,096.04	3.76	47.69	22.07	-471.78	72.28	426.35	374.90	51.45	8.287	
1,200.00	1,193.17	1,156.67	1,193.17	4.12	51.60	23.55	-471.78	72.28	404.35	348.64	55.71	7.259	
1,300.00	1,289.17	1,252.67	1,289.17	4.50	55.46	25.52	-471.78	72.28	378.72	318.80	59.92	6.321	
1,400.00	1,383.85	1,347.35	1,383.85	4.89	59.27	28.11	-471.78	72.28	349.72	285.64	64.08	5.458	
1,500.00	1,477.05	1,440.55	1,477.05	5.29	63.01	31.58	-471.78	72.28	317.74	249.56	68.18	4.660	
1,600.00	1,568.57	1,532.07	1,568.57	5.71	66.69	36.26	-471.78	72.28	283.42	211.20	72.23	3.924	
1,649.79	1,613.46	1,576.96	1,613.46	5.93	68.49	39.20	-471.78	72.28	265.76	191.54	74.22	3.581	
1,700.00	1,658.50	1,622.00	1,658.50	6.15	70.30	42.30	-471.78	72.28	248.19	171.96	76.23	3.256	
1,800.00	1,748.19	1,711.69	1,748.19	6.59	73.90	49.76	-471.78	72.28	215.75	135.49	80.26	2.688	
1,900.00	1,837.88	1,801.38	1,837.88	7.05	77.49	59.31	-471.78	72.28	188.16	103.81	84.35	2.231	
2,000.00	1,927.57	1,891.07	1,927.57	7.51	81.09	71.18	-471.78	72.28	167.86	79.35	88.51	1.897	Collision Risk Procedures Req.
2,100.00	2,017.26	1,980.76	2,017.26	7.98	84.69	84.97	-471.78	72.28	157.67	65.00	92.66	1.702	Collision Risk Procedures Req.
2,134.00	2,047.76	2,011.26	2,047.76	8.14	85.91	89.88	-471.78	72.28	156.91	62.86	94.06	1.668	Collision Risk Procedures Req., CC
2,200.00	2,106.95	2,070.45	2,106.95	8.46	88.28	99.35	-471.78	72.28	159.53	62.82	96.71	1.650	Collision Risk Procedures Req., ES, SF
2,300.00	2,196.64	2,160.14	2,196.64	8.93	91.88	112.66	-471.78	72.28	173.07	72.45	100.62	1.720	Collision Risk Procedures Req.
2,400.00	2,286.34	2,249.84	2,286.34	9.41	95.47	123.83	-471.78	72.28	195.88	91.44	104.44	1.875	Collision Risk Procedures Req.
2,500.00	2,376.03	2,339.53	2,376.03	9.90	99.07	132.71	-471.78	72.28	225.15	116.91	108.24	2.080	
2,600.00	2,465.72	2,429.22	2,465.72	10.39	102.66	139.62	-471.78	72.28	258.71	146.66	112.05	2.309	
2,700.00	2,555.41	2,518.91	2,555.41	10.87	106.25	145.01	-471.78	72.28	295.09	179.21	115.88	2.546	
2,800.00	2,645.10	2,608.60	2,645.10	11.36	109.85	149.26	-471.78	72.28	333.37	213.64	119.73	2.784	
2,900.00	2,734.79	2,698.29	2,734.79	11.86	113.44	152.66	-471.78	72.28	372.97	249.37	123.60	3.018	
3,000.00	2,824.48	2,787.98	2,824.48	12.35	117.03	155.43	-471.78	72.28	413.50	286.02	127.48	3.244	
3,100.00	2,914.18	2,877.68	2,914.18	12.85	120.62	157.71	-471.78	72.28	454.73	323.36	131.37	3.461	
3,200.00	3,003.87	2,967.37	3,003.87	13.34	124.21	159.62	-471.78	72.28	496.47	361.20	135.27	3.670	
3,300.00	3,093.56	3,057.06	3,093.56	13.84	127.80	161.25	-471.78	72.28	538.60	399.43	139.17	3.870	
3,400.00	3,183.25	3,146.75	3,183.25	14.34	131.40	162.64	-471.78	72.28	581.05	437.97	143.08	4.061	
3,500.00	3,272.94	3,236.44	3,272.94	14.84	134.99	163.84	-471.78	72.28	623.74	476.75	146.99	4.243	
3,600.00	3,362.63	3,326.13	3,362.63	15.33	138.58	164.89	-471.78	72.28	666.63	515.73	150.91	4.418	
3,700.00	3,452.32	3,415.82	3,452.32	15.83	142.17	165.81	-471.78	72.28	709.68	554.86	154.82	4.584	
3,800.00	3,542.01	3,505.51	3,542.01	16.34	145.76	166.64	-471.78	72.28	752.87	594.13	158.74	4.743	
3,900.00	3,631.71	3,595.21	3,631.71	16.84	149.35	167.37	-471.78	72.28	796.18	633.51	162.66	4.895	
4,000.00	3,721.40	3,684.90	3,721.40	17.34	152.94	168.02	-471.78	72.28	839.58	672.99	166.59	5.040	
4,100.00	3,811.09	3,774.59	3,811.09	17.84	156.53	168.62	-471.78	72.28	883.06	712.54	170.51	5.179	
4,200.00	3,900.78	3,864.28	3,900.78	18.34	160.12	169.16	-471.78	72.28	926.61	752.17	174.44	5.312	
4,300.00	3,990.47	3,953.97	3,990.47	18.85	163.71	169.65	-471.78	72.28	970.22	791.85	178.37	5.439	
4,400.00	4,080.16	4,043.66	4,080.16	19.35	167.30	170.09	-471.78	72.28	1,013.88	831.59	182.29	5.562	
4,500.00	4,169.85	4,133.35	4,169.85	19.85	170.89	170.50	-471.78	72.28	1,057.59	871.37	186.22	5.679	
4,600.00	4,259.55	4,223.05	4,259.55	20.36	174.48	170.88	-471.78	72.28	1,101.34	911.19	190.15	5.792	
4,700.00	4,349.24	4,312.74	4,349.24	20.86	178.07	171.23	-471.78	72.28	1,145.13	951.04	194.08	5.900	
4,800.00	4,438.93	4,402.43	4,438.93	21.37	181.66	171.56	-471.78	72.28	1,188.95	990.93	198.02	6.004	
4,900.00	4,528.62	4,492.12	4,528.62	21.87	185.25	171.86	-471.78	72.28	1,232.80	1,030.85	201.95	6.105	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,618.31	4,581.81	4,618.31	22.38	188.84	172.14	-471.78	72.28	1,276.67	1,070.79	205.88	6.201	
5,100.00	4,708.00	4,671.50	4,708.00	22.88	192.42	172.40	-471.78	72.28	1,320.57	1,110.75	209.81	6.294	
5,200.00	4,797.69	4,761.19	4,797.69	23.39	196.01	172.65	-471.78	72.28	1,364.48	1,150.74	213.75	6.384	
5,300.00	4,887.38	4,850.88	4,887.38	23.89	199.60	172.88	-471.78	72.28	1,408.42	1,190.74	217.68	6.470	
5,400.00	4,977.08	4,940.58	4,977.08	24.40	203.19	173.09	-471.78	72.28	1,452.37	1,230.76	221.61	6.554	
5,500.00	5,066.77	5,030.27	5,066.77	24.91	206.78	173.29	-471.78	72.28	1,496.34	1,270.79	225.55	6.634	
5,600.00	5,156.46	5,119.96	5,156.46	25.41	210.37	173.49	-471.78	72.28	1,540.33	1,310.84	229.48	6.712	
5,700.00	5,246.15	5,209.65	5,246.15	25.92	213.96	173.67	-471.78	72.28	1,584.32	1,350.90	233.42	6.787	
5,800.00	5,335.84	5,299.34	5,335.84	26.43	217.55	173.84	-471.78	72.28	1,628.33	1,390.98	237.36	6.860	
5,900.00	5,425.53	5,389.03	5,425.53	26.93	221.14	174.00	-471.78	72.28	1,672.35	1,431.06	241.29	6.931	
5,968.02	5,486.54	5,450.04	5,486.54	27.28	223.58	174.11	-471.78	72.28	1,702.30	1,458.33	243.97	6.978	
6,000.00	5,515.32	5,478.82	5,515.32	27.44	224.73	174.19	-471.78	72.28	1,716.18	1,470.95	245.23	6.998	
6,100.00	5,606.53	5,570.03	5,606.53	27.93	228.38	174.44	-471.78	72.28	1,757.00	1,507.77	249.23	7.050	
6,200.00	5,699.44	5,662.94	5,699.44	28.39	232.10	174.65	-471.78	72.28	1,793.82	1,540.52	253.30	7.082	
6,300.00	5,793.87	5,757.37	5,793.87	28.84	235.87	174.82	-471.78	72.28	1,826.57	1,569.14	257.43	7.095	
6,400.00	5,889.65	5,853.15	5,889.65	29.25	239.71	174.97	-471.78	72.28	1,855.19	1,593.58	261.61	7.091	
6,500.00	5,986.59	5,950.09	5,986.59	29.65	243.59	175.09	-471.78	72.28	1,879.62	1,613.78	265.84	7.071	
6,600.00	6,084.50	6,048.00	6,084.50	30.02	247.50	175.18	-471.78	72.28	1,899.82	1,629.72	270.11	7.034	
6,700.00	6,183.21	6,146.71	6,183.21	30.37	251.45	175.26	-471.78	72.28	1,915.75	1,641.35	274.40	6.982	
6,800.00	6,282.52	6,246.02	6,282.52	30.70	255.43	175.31	-471.78	72.28	1,927.37	1,648.66	278.71	6.915	
6,900.00	6,382.25	6,345.75	6,382.25	31.01	259.42	175.34	-471.78	72.28	1,934.66	1,651.63	283.03	6.835	
7,000.00	6,482.19	6,445.69	6,482.19	31.29	263.41	175.35	-471.78	72.28	1,937.61	1,650.25	287.35	6.743	
7,017.81	6,500.00	6,463.50	6,500.00	31.34	264.13	-32.55	-471.78	72.28	1,937.67	1,649.55	288.12	6.725	
7,096.37	6,578.56	6,542.06	6,578.56	31.52	267.27	-32.55	-471.78	72.28	1,937.67	1,646.18	291.50	6.647	
7,100.00	6,582.19	6,545.69	6,582.19	31.53	267.42	56.63	-471.78	72.28	1,937.67	1,646.02	291.65	6.644	
7,125.00	6,607.18	6,570.68	6,607.18	31.59	268.42	56.70	-471.78	72.28	1,937.20	1,644.48	292.72	6.618	
7,150.00	6,632.08	6,595.58	6,632.08	31.65	269.41	56.87	-471.78	72.28	1,936.02	1,642.23	293.79	6.590	
7,175.00	6,656.84	6,620.34	6,656.84	31.70	270.40	57.15	-471.78	72.28	1,934.13	1,639.28	294.85	6.560	
7,200.00	6,681.38	6,644.88	6,681.38	31.75	271.38	57.53	-471.78	72.28	1,931.53	1,635.64	295.90	6.528	
7,225.00	6,705.64	6,669.14	6,705.64	31.80	272.35	58.01	-471.78	72.28	1,928.25	1,631.33	296.93	6.494	
7,250.00	6,729.56	6,693.06	6,729.56	31.85	273.31	58.60	-471.78	72.28	1,924.30	1,626.36	297.94	6.459	
7,275.00	6,753.06	6,716.56	6,753.06	31.90	274.25	59.29	-471.78	72.28	1,919.70	1,620.77	298.94	6.422	
7,300.00	6,776.08	6,739.58	6,776.08	31.94	275.17	60.08	-471.78	72.28	1,914.48	1,614.57	299.91	6.383	
7,325.00	6,798.56	6,762.06	6,798.56	31.98	276.07	60.96	-471.78	72.28	1,908.66	1,607.80	300.86	6.344	
7,350.00	6,820.43	6,783.93	6,820.43	32.02	276.95	61.95	-471.78	72.28	1,902.28	1,600.49	301.78	6.303	
7,375.00	6,841.65	6,805.15	6,841.65	32.05	277.80	63.03	-471.78	72.28	1,895.36	1,592.68	302.67	6.262	
7,400.00	6,862.14	6,825.64	6,862.14	32.08	278.62	64.20	-471.78	72.28	1,887.94	1,584.41	303.53	6.220	
7,425.00	6,881.85	6,845.35	6,881.85	32.11	279.40	65.45	-471.78	72.28	1,880.07	1,575.72	304.36	6.177	
7,450.00	6,900.74	6,864.24	6,900.74	32.13	280.16	66.78	-471.78	72.28	1,871.79	1,566.64	305.15	6.134	
7,475.00	6,918.74	6,882.24	6,918.74	32.15	280.88	68.18	-471.78	72.28	1,863.13	1,557.23	305.90	6.091	
7,500.00	6,935.81	6,899.31	6,935.81	32.17	281.56	69.64	-471.78	72.28	1,854.15	1,547.53	306.62	6.047	
7,525.00	6,951.90	6,915.40	6,951.90	32.19	282.21	71.15	-471.78	72.28	1,844.88	1,537.59	307.30	6.004	
7,550.00	6,966.96	6,930.46	6,966.96	32.20	282.81	72.71	-471.78	72.28	1,835.39	1,527.46	307.93	5.960	
7,575.00	6,980.96	6,944.46	6,980.96	32.21	283.37	74.29	-471.78	72.28	1,825.71	1,517.18	308.52	5.918	
7,600.00	6,993.86	6,957.36	6,993.86	32.22	283.89	75.90	-471.78	72.28	1,815.89	1,506.82	309.07	5.875	
7,625.00	7,005.62	6,969.12	7,005.62	32.22	284.36	77.50	-471.78	72.28	1,805.99	1,496.41	309.58	5.834	
7,650.00	7,016.21	6,979.71	7,016.21	32.22	284.78	79.10	-471.78	72.28	1,796.05	1,486.01	310.04	5.793	
7,675.00	7,025.60	6,989.10	7,025.60	32.22	285.16	80.68	-471.78	72.28	1,786.12	1,475.67	310.45	5.753	
7,700.00	7,033.77	6,997.27	7,033.77	32.22	285.48	82.22	-471.78	72.28	1,776.25	1,465.43	310.82	5.715	
7,725.00	7,040.68	7,004.18	7,040.68	32.21	285.76	83.72	-471.78	72.28	1,766.48	1,455.34	311.14	5.677	
7,750.00	7,046.33	7,009.83	7,046.33	32.21	285.99	85.16	-471.78	72.28	1,756.85	1,445.45	311.41	5.642	
7,775.00	7,050.70	7,014.20	7,050.70	32.20	286.16	86.53	-471.78	72.28	1,747.42	1,435.79	311.63	5.607	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - EDDY GL STATE COM #001 - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 500-UNKNOWN												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,800.00	7,053.77	7,017.27	7,053.77	32.18	286.28	87.82	-471.78	72.28	1,738.21	1,426.41	311.80	5.575	
7,825.00	7,055.55	7,019.05	7,055.55	32.17	286.35	89.03	-471.78	72.28	1,729.26	1,417.33	311.93	5.544	
7,851.16	7,056.00	7,019.50	7,056.00	32.16	286.37	90.21	-471.78	72.28	1,720.21	1,408.21	312.00	5.513	
7,900.00	7,055.51	7,019.01	7,055.51	32.13	286.35	90.19	-471.78	72.28	1,704.26	1,392.16	312.10	5.461	
8,000.00	7,054.51	7,018.01	7,054.51	32.08	286.31	90.15	-471.78	72.28	1,675.58	1,363.21	312.37	5.364	
8,100.00	7,053.50	7,017.00	7,053.50	32.04	286.27	90.12	-471.78	72.28	1,652.46	1,339.75	312.71	5.284	
8,200.00	7,052.50	7,016.00	7,052.50	32.01	286.23	90.08	-471.78	72.28	1,635.14	1,322.01	313.12	5.222	
8,300.00	7,051.49	7,014.99	7,051.49	31.99	286.19	90.05	-471.78	72.28	1,623.80	1,310.20	313.60	5.178	
8,400.00	7,050.49	7,013.99	7,050.49	31.97	286.15	90.01	-471.78	72.28	1,618.57	1,304.44	314.13	5.153	
8,434.00	7,050.15	7,013.65	7,050.15	31.97	286.14	90.00	-471.78	72.28	1,618.20	1,303.87	314.32	5.148	
8,500.00	7,049.49	7,012.99	7,049.49	31.97	286.11	89.98	-471.78	72.28	1,619.51	1,304.82	314.69	5.146	
8,600.00	7,048.48	7,011.98	7,048.48	31.98	286.07	89.94	-471.78	72.28	1,626.61	1,311.33	315.28	5.159	
8,700.00	7,047.48	7,010.98	7,047.48	32.01	286.03	89.91	-471.78	72.28	1,639.78	1,323.92	315.87	5.191	
8,800.00	7,046.47	7,009.97	7,046.47	32.06	285.99	89.87	-471.78	72.28	1,658.89	1,342.45	316.45	5.242	
8,900.00	7,045.47	7,008.97	7,045.47	32.14	285.95	89.83	-471.78	72.28	1,683.74	1,366.73	317.01	5.311	
9,000.00	7,044.46	7,007.96	7,044.46	32.27	285.91	89.80	-471.78	72.28	1,714.06	1,396.53	317.53	5.398	
9,100.00	7,043.46	7,006.96	7,043.46	32.46	285.87	89.76	-471.78	72.28	1,749.58	1,431.56	318.02	5.501	
9,200.00	7,042.46	7,005.96	7,042.46	32.72	285.83	89.73	-471.78	72.28	1,789.99	1,471.52	318.47	5.621	
9,300.00	7,041.45	7,004.95	7,041.45	33.08	285.79	89.69	-471.78	72.28	1,834.96	1,516.10	318.87	5.755	
9,400.00	7,040.45	7,003.95	7,040.45	33.53	285.75	89.66	-471.78	72.28	1,884.18	1,564.95	319.23	5.902	
9,500.00	7,039.44	7,002.94	7,039.44	34.06	285.71	89.62	-471.78	72.28	1,937.30	1,617.77	319.54	6.063	
9,600.00	7,038.44	7,001.94	7,038.44	34.66	285.67	89.59	-471.78	72.28	1,994.03	1,674.23	319.81	6.235	
9,700.00	7,037.44	7,000.94	7,037.44	35.31	285.63	89.55	-471.78	72.28	2,054.07	1,734.03	320.04	6.418	
9,800.00	7,036.43	6,999.93	7,036.43	36.00	285.59	89.51	-471.78	72.28	2,117.12	1,796.89	320.24	6.611	
9,900.00	7,035.43	6,998.93	7,035.43	36.72	285.55	89.48	-471.78	72.28	2,182.94	1,862.54	320.40	6.813	
10,000.00	7,034.42	6,997.92	7,034.42	37.48	285.51	89.44	-471.78	72.28	2,251.27	1,930.74	320.54	7.023	
10,100.00	7,033.42	6,996.92	7,033.42	38.25	285.47	89.41	-471.78	72.28	2,321.91	2,001.26	320.65	7.241	
10,200.00	7,032.42	6,995.92	7,032.42	39.05	285.43	89.37	-471.78	72.28	2,394.63	2,073.89	320.74	7.466	
10,300.00	7,031.41	6,994.91	7,031.41	39.87	285.39	89.34	-471.78	72.28	2,469.26	2,148.45	320.81	7.697	

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,200.00	7,042.46	7,011.69	7,048.40	32.72	146.17	90.85	-399.53	-2,544.53	2,482.63	2,306.36	176.26	14.085	
9,300.00	7,041.45	7,010.54	7,047.25	33.08	146.14	90.81	-399.52	-2,544.53	2,408.94	2,232.29	176.65	13.637	
9,400.00	7,040.45	7,009.39	7,046.11	33.53	146.11	90.77	-399.52	-2,544.53	2,337.21	2,160.11	177.09	13.198	
9,500.00	7,039.44	7,008.24	7,044.96	34.06	146.08	90.73	-399.51	-2,544.53	2,267.62	2,090.01	177.60	12.768	
9,600.00	7,038.44	7,007.09	7,043.81	34.66	146.04	90.69	-399.51	-2,544.53	2,200.37	2,022.19	178.18	12.349	
9,700.00	7,037.44	7,005.95	7,042.66	35.31	146.01	90.65	-399.51	-2,544.53	2,135.69	1,956.87	178.82	11.943	
9,800.00	7,036.43	7,004.80	7,041.52	36.00	145.98	90.61	-399.50	-2,544.53	2,073.82	1,894.28	179.53	11.551	
9,900.00	7,035.43	7,003.65	7,040.37	36.72	145.95	90.57	-399.50	-2,544.53	2,015.01	1,834.69	180.32	11.175	
10,000.00	7,034.42	7,002.51	7,039.22	37.48	145.92	90.53	-399.50	-2,544.53	1,959.54	1,778.36	181.18	10.815	
10,100.00	7,033.42	7,001.36	7,038.08	38.25	145.88	90.49	-399.49	-2,544.53	1,907.70	1,725.59	182.11	10.476	
10,200.00	7,032.42	7,000.21	7,036.93	39.05	145.85	90.45	-399.49	-2,544.53	1,859.80	1,676.70	183.09	10.158	
10,300.00	7,031.41	6,999.07	7,035.79	39.87	145.82	90.41	-399.49	-2,544.53	1,816.14	1,632.01	184.13	9.863	
10,400.00	7,030.41	6,997.92	7,034.64	40.70	145.79	90.37	-399.48	-2,544.53	1,777.05	1,591.83	185.22	9.594	
10,500.00	7,029.40	6,996.78	7,033.50	41.55	145.76	90.33	-399.48	-2,544.53	1,742.82	1,556.50	186.33	9.354	
10,600.00	7,028.40	6,995.63	7,032.35	42.42	145.72	90.29	-399.48	-2,544.53	1,713.75	1,526.31	187.44	9.143	
10,700.00	7,027.40	6,994.49	7,031.21	43.29	145.69	90.25	-399.48	-2,544.53	1,690.11	1,501.56	188.55	8.964	
10,800.00	7,026.39	6,993.34	7,030.06	44.18	145.66	90.22	-399.47	-2,544.53	1,672.12	1,482.49	189.63	8.818	
10,900.00	7,025.39	6,992.20	7,028.92	45.08	145.63	90.18	-399.47	-2,544.53	1,659.97	1,469.32	190.65	8.707	
11,000.00	7,024.38	6,991.05	7,027.77	45.99	145.60	90.14	-399.47	-2,544.53	1,653.79	1,462.19	191.60	8.631	
11,052.45	7,023.86	6,990.45	7,027.17	46.48	145.58	90.11	-399.47	-2,544.53	1,652.95	1,460.89	192.07	8.606 CC, ES	
11,100.00	7,023.38	6,989.91	7,026.63	46.91	145.56	90.10	-399.47	-2,544.53	1,653.64	1,461.18	192.46	8.592	
11,200.00	7,022.38	6,988.77	7,025.49	47.84	145.53	90.06	-399.46	-2,544.53	1,659.53	1,466.30	193.22	8.589 SF	
11,300.00	7,021.37	6,987.62	7,024.34	48.78	145.50	90.02	-399.46	-2,544.53	1,671.39	1,477.52	193.87	8.621	
11,400.00	7,020.37	6,986.48	7,023.20	49.73	145.47	89.98	-399.46	-2,544.53	1,689.09	1,494.69	194.40	8.689	
11,500.00	7,019.36	6,985.34	7,022.06	50.68	145.44	89.94	-399.46	-2,544.53	1,712.46	1,517.65	194.81	8.790	
11,600.00	7,018.36	6,984.20	7,020.92	51.64	145.41	89.90	-399.46	-2,544.53	1,741.27	1,546.16	195.11	8.925	
11,700.00	7,017.36	6,983.05	7,019.77	52.61	145.37	89.86	-399.45	-2,544.53	1,775.25	1,579.95	195.30	9.090	
11,800.00	7,016.35	6,981.91	7,018.63	53.58	145.34	89.82	-399.45	-2,544.53	1,814.12	1,618.72	195.39	9.284	
11,900.00	7,015.35	6,980.77	7,017.49	54.56	145.31	89.78	-399.45	-2,544.53	1,857.56	1,662.16	195.40	9.506	
12,000.00	7,014.34	6,979.63	7,016.35	55.55	145.28	89.74	-399.45	-2,544.53	1,905.26	1,709.93	195.33	9.754	
12,100.00	7,013.34	6,978.49	7,015.21	56.54	145.25	89.70	-399.45	-2,544.53	1,956.91	1,761.72	195.19	10.026	
12,200.00	7,012.34	6,977.35	7,014.07	57.53	145.21	89.66	-399.45	-2,544.53	2,012.21	1,817.20	195.00	10.319	
12,300.00	7,011.33	6,976.21	7,012.93	58.53	145.18	89.62	-399.45	-2,544.53	2,070.86	1,876.09	194.77	10.632	
12,400.00	7,010.33	6,975.07	7,011.79	59.54	145.15	89.58	-399.44	-2,544.53	2,132.59	1,938.08	194.51	10.964	
12,500.00	7,009.32	6,973.93	7,010.65	60.55	145.12	89.54	-399.44	-2,544.53	2,197.14	2,002.92	194.21	11.313	
12,600.00	7,008.32	6,972.79	7,009.51	61.56	145.09	89.50	-399.44	-2,544.53	2,264.26	2,070.36	193.90	11.677	
12,700.00	7,007.31	6,971.65	7,008.37	62.58	145.06	89.46	-399.44	-2,544.53	2,333.74	2,140.17	193.58	12.056	
12,800.00	7,006.31	6,970.51	7,007.23	63.60	145.02	89.42	-399.44	-2,544.53	2,405.38	2,212.13	193.25	12.447	
12,900.00	7,005.31	6,969.37	7,006.09	64.62	144.99	89.38	-399.44	-2,544.53	2,478.97	2,286.06	192.91	12.850	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
0.00	0.00	0.30	0.00	0.00	0.00	8.77	2,103.00	324.60	2,127.90							
100.00	100.00	104.77	104.47	0.25	0.28	8.78	2,102.48	324.59	2,127.39	2,126.86	0.53	4,019.396				
111.80	111.80	112.12	111.81	0.29	0.30	8.78	2,102.47	324.62	2,127.38	2,126.78	0.60	3,563.391	CC, ES			
200.00	200.00	164.30	163.99	0.61	0.48	8.79	2,102.78	325.13	2,128.07	2,126.98	1.10	1,940.916				
300.00	300.00	250.24	249.91	0.97	0.79	8.80	2,104.33	325.87	2,130.01	2,128.25	1.76	1,213.611				
400.00	400.00	359.88	359.52	1.33	1.17	8.79	2,107.09	325.87	2,132.52	2,130.02	2.50	853.834				
500.00	500.00	448.86	448.48	1.68	1.49	8.81	2,108.63	326.73	2,134.42	2,131.25	3.17	672.893				
600.00	600.00	539.44	539.02	2.04	1.81	8.84	2,110.87	328.23	2,137.11	2,133.26	3.85	554.573				
700.00	699.97	636.30	635.83	2.39	2.16	-143.19	2,113.55	329.96	2,141.86	2,137.32	4.54	471.464				
800.00	799.75	741.81	741.29	2.72	2.53	-143.13	2,116.38	331.99	2,150.04	2,144.79	5.26	408.998				
900.00	899.14	853.01	852.43	3.07	2.93	-143.11	2,118.81	334.17	2,161.22	2,155.23	6.00	360.403				
1,000.00	997.97	965.14	964.54	3.41	3.33	-143.13	2,120.66	335.84	2,175.28	2,168.54	6.74	322.537				
1,100.00	1,096.04	1,067.17	1,066.54	3.76	3.70	-143.15	2,121.85	337.70	2,192.41	2,184.95	7.46	293.972				
1,200.00	1,193.17	1,167.01	1,166.32	4.12	4.05	-143.13	2,122.65	341.14	2,212.89	2,204.72	8.17	270.998				
1,300.00	1,289.17	1,265.20	1,264.37	4.50	4.40	-143.06	2,123.08	346.38	2,236.73	2,227.86	8.87	252.195				
1,400.00	1,383.85	1,359.73	1,358.65	4.89	4.74	-142.94	2,123.22	353.15	2,263.95	2,254.39	9.56	236.778				
1,500.00	1,477.05	1,448.02	1,446.70	5.29	5.05	-142.80	2,123.48	359.66	2,294.76	2,284.52	10.23	224.240				
1,600.00	1,568.57	1,536.25	1,534.70	5.71	5.37	-142.65	2,123.99	365.98	2,329.18	2,318.27	10.91	213.566				
1,649.79	1,613.46	1,582.47	1,580.81	5.93	5.53	-142.59	2,124.28	369.21	2,347.59	2,336.34	11.25	208.628				
1,700.00	1,658.50	1,628.85	1,627.08	6.15	5.70	-142.83	2,124.57	372.39	2,366.58	2,354.99	11.60	204.087				
1,800.00	1,748.19	1,720.75	1,718.77	6.59	6.03	-143.31	2,125.11	378.51	2,404.47	2,392.20	12.28	195.856				
1,900.00	1,837.88	1,810.19	1,808.04	7.05	6.35	-143.78	2,125.68	383.98	2,442.51	2,429.56	12.95	188.587				
2,000.00	1,927.57	1,899.36	1,897.08	7.51	6.67	-144.25	2,126.36	388.81	2,480.74	2,467.11	13.63	182.035	SF			

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 272H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 25-SuperiorQC MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	0.00	0.00	0.55	209.90	2.00	209.91				
100.00	100.00	100.38	100.38	0.25	0.13	0.59	209.83	2.16	209.84	209.46	0.38	554.821	
181.78	181.78	181.78	181.78	0.54	0.40	0.74	209.43	2.70	209.44	208.50	0.94	222.354	CC
200.00	200.00	198.70	198.69	0.61	0.46	0.76	209.49	2.79	209.51	208.44	1.07	196.359	
300.00	300.00	299.46	299.44	0.97	0.82	1.13	209.84	4.14	209.88	208.10	1.78	117.697	
400.00	400.00	399.01	398.98	1.33	1.17	1.69	210.43	6.21	210.53	208.03	2.50	84.290	
500.00	500.00	499.06	498.99	1.68	1.53	2.33	210.80	8.56	210.98	207.76	3.21	65.631	
600.00	600.00	598.90	598.81	2.04	1.89	2.82	211.23	10.42	211.49	207.56	3.93	53.804	ES
700.00	699.97	698.90	698.80	2.39	2.25	-149.12	211.73	12.02	213.94	209.31	4.63	46.186	
800.00	799.75	797.53	797.42	2.72	2.60	-149.51	212.34	13.55	220.26	214.94	5.32	41.392	
900.00	899.14	894.35	894.20	3.07	2.95	-150.19	213.77	15.70	231.25	225.24	6.01	38.472	
1,000.00	997.97	989.80	989.52	3.41	3.29	-150.72	216.32	19.90	247.26	240.56	6.70	36.911	
1,100.00	1,096.04	1,083.73	1,083.17	3.76	3.63	-151.10	220.11	26.02	268.43	261.04	7.38	36.362	SF
1,200.00	1,193.17	1,175.25	1,174.26	4.12	3.96	-151.46	225.22	33.23	294.86	286.80	8.05	36.610	
1,300.00	1,289.17	1,264.32	1,262.74	4.50	4.27	-151.82	231.80	41.09	326.72	318.01	8.71	37.504	
1,400.00	1,383.85	1,349.91	1,347.58	4.89	4.58	-152.18	239.72	49.16	364.01	354.66	9.35	38.941	
1,500.00	1,477.05	1,432.15	1,428.85	5.29	4.87	-152.48	249.10	57.50	406.86	396.90	9.96	40.848	
1,600.00	1,568.57	1,512.85	1,508.38	5.71	5.16	-152.74	259.85	66.03	454.93	444.37	10.56	43.076	
1,649.79	1,613.46	1,553.49	1,548.36	5.93	5.31	-152.87	265.63	70.41	480.54	469.67	10.87	44.220	
1,700.00	1,658.50	1,594.16	1,588.35	6.15	5.45	-153.33	271.57	74.84	506.98	495.82	11.17	45.405	
1,800.00	1,748.19	1,676.00	1,668.79	6.59	5.75	-154.13	283.86	83.56	560.06	548.30	11.76	47.624	
1,900.00	1,837.88	1,758.49	1,749.86	7.05	6.05	-154.84	296.55	92.00	613.55	601.19	12.36	49.633	
2,000.00	1,927.57	1,843.18	1,833.10	7.51	6.35	-155.48	309.67	100.49	667.22	654.24	12.98	51.398	
2,100.00	2,017.26	1,929.32	1,917.78	7.98	6.67	-156.02	322.87	109.17	720.79	707.17	13.61	52.944	
2,200.00	2,106.95	2,015.44	2,002.48	8.46	6.98	-156.49	335.82	117.82	774.15	759.90	14.25	54.329	
2,300.00	2,196.64	2,102.08	2,087.72	8.93	7.30	-156.90	348.67	126.55	827.37	812.48	14.89	55.563	
2,400.00	2,286.34	2,186.34	2,170.64	9.41	7.61	-157.26	360.97	135.02	880.43	864.91	15.52	56.737	
2,500.00	2,376.03	2,268.22	2,251.19	9.90	7.91	-157.57	373.18	143.21	933.77	917.64	16.13	57.890	
2,600.00	2,465.72	2,353.66	2,335.24	10.39	8.22	-157.86	385.95	151.71	987.17	970.40	16.77	58.871	
2,700.00	2,555.41	2,440.62	2,420.80	10.87	8.54	-158.11	398.82	160.49	1,040.44	1,023.02	17.42	59.730	
2,800.00	2,645.10	2,527.41	2,506.21	11.36	8.86	-158.34	411.47	169.33	1,093.53	1,075.46	18.07	60.516	
2,900.00	2,734.79	2,615.06	2,592.47	11.86	9.18	-158.55	424.07	178.35	1,146.44	1,127.71	18.73	61.214	
3,000.00	2,824.48	2,707.30	2,683.32	12.35	9.52	-158.75	436.93	187.77	1,199.00	1,179.58	19.42	61.743	
3,100.00	2,914.18	2,798.61	2,773.39	12.85	9.86	-158.96	449.05	196.62	1,251.09	1,230.98	20.10	62.232	
3,200.00	3,003.87	2,881.70	2,855.40	13.34	10.17	-159.16	459.88	204.42	1,303.02	1,282.29	20.73	62.850	
3,300.00	3,093.56	2,965.18	2,937.78	13.84	10.47	-159.34	470.94	212.22	1,355.14	1,333.78	21.36	63.430	
3,400.00	3,183.25	3,052.80	3,024.24	14.34	10.80	-159.51	482.56	220.38	1,407.29	1,385.27	22.03	63.894	
3,500.00	3,272.94	3,145.04	3,115.33	14.84	11.14	-159.70	494.41	228.68	1,459.16	1,436.44	22.72	64.229	
3,600.00	3,362.63	3,230.23	3,199.55	15.33	11.45	-159.88	504.99	236.08	1,510.70	1,487.33	23.36	64.663	
3,700.00	3,452.32	3,308.27	3,276.62	15.83	11.74	-160.02	515.02	243.08	1,562.58	1,538.62	23.96	65.217	
3,800.00	3,542.01	3,390.30	3,357.56	16.34	12.04	-160.14	525.96	250.72	1,614.83	1,590.24	24.59	65.683	
3,900.00	3,631.71	3,479.24	3,445.34	16.84	12.37	-160.27	537.70	258.82	1,667.00	1,641.74	25.26	65.998	
4,000.00	3,721.40	3,570.35	3,535.35	17.34	12.70	-160.42	549.43	266.76	1,718.96	1,693.01	25.95	66.252	
4,100.00	3,811.09	3,660.70	3,624.68	17.84	13.04	-160.56	560.67	274.28	1,770.63	1,744.00	26.63	66.496	
4,200.00	3,900.78	3,749.94	3,712.96	18.34	13.36	-160.71	571.55	281.52	1,822.12	1,794.81	27.30	66.739	
4,300.00	3,990.47	3,841.36	3,803.44	18.85	13.70	-160.86	582.44	288.74	1,873.42	1,845.43	27.99	66.930	
4,400.00	4,080.16	3,924.30	3,885.57	19.35	14.00	-161.00	592.09	295.14	1,924.52	1,895.90	28.62	67.238	
4,500.00	4,169.85	4,000.61	3,961.05	19.85	14.28	-161.11	601.44	301.27	1,976.10	1,946.89	29.21	67.651	
4,600.00	4,259.55	4,094.30	4,053.74	20.36	14.63	-161.23	612.87	308.79	2,027.63	1,997.72	29.92	67.777	
4,700.00	4,349.24	4,187.61	4,146.12	20.86	14.97	-161.36	623.83	316.04	2,078.85	2,048.23	30.62	67.894	
4,800.00	4,438.93	4,281.78	4,239.43	21.37	15.31	-161.50	634.46	322.95	2,129.75	2,098.42	31.33	67.985	
4,900.00	4,528.62	4,377.20	4,334.07	21.87	15.66	-161.65	644.73	329.45	2,180.30	2,148.26	32.04	68.047	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 272H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 25-SuperiorQC MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (")	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,618.31	4,473.49	4,429.65	22.38	16.01	-161.81	654.62	335.71	2,230.50	2,197.74	32.76	68.085		
5,100.00	4,708.00	4,570.57	4,526.09	22.88	16.36	-161.97	663.99	341.67	2,280.25	2,246.76	33.48	68.100		
5,200.00	4,797.69	4,656.42	4,611.41	23.39	16.67	-162.12	672.10	346.76	2,329.87	2,295.74	34.13	68.257		
5,300.00	4,887.38	4,743.74	4,698.20	23.89	16.99	-162.27	680.29	351.66	2,379.52	2,344.72	34.79	68.390		
5,400.00	4,977.08	4,833.65	4,787.60	24.40	17.32	-162.42	688.61	356.47	2,429.10	2,393.63	35.47	68.485		
5,500.00	5,066.77	4,934.65	4,888.06	24.91	17.68	-162.59	697.54	361.71	2,478.38	2,442.17	36.22	68.434		

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	0.00	0.00	0.00	0.54	179.90	1.70	179.91				
100.00	100.00	99.45	99.45	0.25	0.13	0.68	180.01	2.13	180.02	179.64	0.38	475.606	
200.00	200.00	198.51	198.50	0.61	0.42	1.08	180.57	3.39	180.61	179.58	1.03	176.136 ES	
300.00	300.00	298.17	298.15	0.97	0.77	1.37	181.50	4.34	181.56	179.82	1.74	104.317	
400.00	400.00	398.01	397.98	1.33	1.13	1.77	182.19	5.64	182.29	179.83	2.46	74.206	
500.00	500.00	498.45	498.41	1.68	1.49	2.08	183.10	6.65	183.23	180.06	3.17	57.715	
600.00	600.00	598.37	598.32	2.04	1.85	2.41	183.93	7.75	184.10	180.21	3.89	47.312	
700.00	699.97	698.02	697.96	2.39	2.21	-149.66	184.86	8.84	186.97	182.37	4.59	40.718	
800.00	799.75	797.61	797.53	2.72	2.56	-150.22	185.95	10.01	193.76	188.48	5.28	36.664	
900.00	899.14	899.97	899.87	3.07	2.93	-151.05	186.53	12.20	203.88	197.89	5.99	34.033	
1,000.00	997.97	1,004.15	1,003.96	3.41	3.29	-151.92	184.90	16.07	215.76	209.06	6.70	32.203	
1,100.00	1,096.04	1,110.35	1,109.93	3.76	3.67	-152.95	180.31	21.19	228.78	221.37	7.41	30.876	
1,200.00	1,193.17	1,217.72	1,216.83	4.12	4.04	-154.36	171.93	26.46	242.31	234.20	8.11	29.861	
1,300.00	1,289.17	1,322.83	1,321.20	4.50	4.41	-156.17	160.35	31.06	256.77	247.96	8.81	29.141	
1,400.00	1,383.85	1,425.05	1,422.46	4.89	4.77	-158.06	147.20	35.83	273.62	264.12	9.50	28.788	
1,500.00	1,477.05	1,529.41	1,525.53	5.29	5.14	-159.91	131.93	41.63	292.93	282.73	10.20	28.725	
1,600.00	1,568.57	1,633.81	1,628.15	5.71	5.52	-161.60	114.15	48.90	313.96	303.07	10.89	28.841	
1,649.79	1,613.46	1,684.47	1,677.80	5.93	5.70	-162.38	104.85	52.74	325.35	314.12	11.23	28.969	
1,700.00	1,658.50	1,733.96	1,726.26	6.15	5.89	-163.20	95.55	56.62	337.17	325.60	11.57	29.131	
1,800.00	1,748.19	1,832.41	1,822.56	6.59	6.25	-164.62	76.74	64.58	360.51	348.25	12.26	29.410	
1,900.00	1,837.88	1,929.29	1,917.27	7.05	6.61	-165.83	58.02	72.65	383.77	370.82	12.95	29.644	
2,000.00	1,927.57	2,025.83	2,011.68	7.51	6.98	-166.89	39.50	80.63	407.31	393.67	13.64	29.869	
2,100.00	2,017.26	2,123.00	2,106.72	7.98	7.34	-167.87	20.83	88.52	430.99	416.66	14.33	30.075	
2,200.00	2,106.95	2,219.83	2,201.41	8.46	7.71	-168.77	2.11	96.19	454.72	439.70	15.03	30.263	
2,300.00	2,196.64	2,317.24	2,296.67	8.93	8.08	-169.58	-16.71	103.94	478.55	462.82	15.72	30.433	
2,400.00	2,286.34	2,414.30	2,391.55	9.41	8.45	-170.23	-35.34	112.38	502.35	485.93	16.43	30.583	
2,500.00	2,376.03	2,512.08	2,487.09	9.90	8.83	-170.71	-53.81	121.88	526.15	509.02	17.13	30.711	
2,600.00	2,465.72	2,610.37	2,583.10	10.39	9.21	-171.14	-72.56	131.52	549.79	531.95	17.84	30.814	
2,700.00	2,555.41	2,707.97	2,678.40	10.87	9.59	-171.58	-91.45	140.77	573.30	554.75	18.55	30.904	
2,800.00	2,645.10	2,804.86	2,773.01	11.36	9.96	-171.97	-110.19	150.04	596.81	577.56	19.26	30.988	
2,900.00	2,734.79	2,902.36	2,868.19	11.86	10.34	-172.27	-128.82	160.00	620.35	600.38	19.97	31.061	
3,000.00	2,824.48	2,999.82	2,963.32	12.35	10.72	-172.51	-147.37	170.30	643.84	623.16	20.69	31.125	
3,100.00	2,914.18	3,099.39	3,060.45	12.85	11.11	-172.77	-166.61	180.67	667.13	645.73	21.41	31.164	
3,200.00	3,003.87	3,195.48	3,154.19	13.34	11.48	-173.02	-185.36	190.45	690.36	668.24	22.12	31.213	
3,300.00	3,093.56	3,286.77	3,243.31	13.84	11.84	-173.26	-202.96	199.47	713.91	691.10	22.81	31.298	
3,400.00	3,183.25	3,372.15	3,326.90	14.34	12.17	-173.46	-218.29	207.62	738.81	715.33	23.48	31.471	
3,500.00	3,272.94	3,455.80	3,409.06	14.84	12.50	-173.63	-232.05	215.32	765.24	741.12	24.13	31.718	
3,600.00	3,362.63	3,535.99	3,488.09	15.33	12.80	-173.74	-243.53	222.57	793.63	768.88	24.75	32.065	
3,700.00	3,452.32	3,626.08	3,577.06	15.83	13.14	-173.84	-255.20	230.57	823.33	797.90	25.43	32.382	
3,800.00	3,542.01	3,696.25	3,646.53	16.34	13.41	-173.93	-263.36	236.13	854.57	828.60	25.97	32.902	
3,900.00	3,631.71	3,764.20	3,714.06	16.84	13.65	-174.04	-269.52	240.36	888.69	862.20	26.48	33.554	
4,000.00	3,721.40	3,831.72	3,781.36	17.34	13.90	-174.13	-273.75	243.94	925.55	898.57	26.98	34.311	
4,100.00	3,811.09	3,911.99	3,861.48	17.84	14.18	-174.20	-276.58	247.90	964.81	937.25	27.56	35.011	
4,200.00	3,900.78	3,988.14	3,937.54	18.34	14.45	-174.29	-278.45	250.83	1,005.35	977.25	28.10	35.775	
4,300.00	3,990.47	4,061.67	4,011.04	18.85	14.71	-174.45	-280.23	252.30	1,046.71	1,018.09	28.62	36.573	
4,400.00	4,080.16	4,139.08	4,088.44	19.35	14.98	-174.63	-280.91	252.82	1,089.77	1,060.60	29.17	37.361	
4,500.00	4,169.85	4,227.29	4,176.65	19.85	15.28	-174.82	-281.41	253.27	1,133.19	1,103.38	29.81	38.009	
4,600.00	4,259.55	4,313.10	4,262.46	20.36	15.58	-174.99	-281.62	253.70	1,176.89	1,146.45	30.44	38.666	
4,700.00	4,349.24	4,398.23	4,347.58	20.86	15.86	-175.14	-281.55	254.00	1,220.92	1,189.87	31.05	39.320	
4,800.00	4,438.93	4,481.37	4,430.72	21.37	16.13	-175.28	-281.08	254.25	1,265.37	1,233.73	31.64	39.991	
4,900.00	4,528.62	4,569.34	4,518.69	21.87	16.42	-175.41	-280.29	254.51	1,310.10	1,277.83	32.27	40.596	
5,000.00	4,618.31	4,658.46	4,607.81	22.38	16.71	-175.53	-279.43	254.78	1,354.90	1,321.99	32.91	41.166	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.00	4,708.00	4,743.91	4,693.24	22.88	16.98	-175.64	-278.47	255.02	1,399.83	1,366.30	33.52	41.757	
5,200.00	4,797.69	4,826.38	4,775.71	23.39	17.25	-175.73	-277.23	255.22	1,445.09	1,410.98	34.11	42.368	
5,300.00	4,887.38	4,910.81	4,860.13	23.89	17.52	-175.82	-275.63	255.29	1,490.74	1,456.02	34.71	42.948	
5,400.00	4,977.08	4,996.00	4,945.29	24.40	17.79	-175.90	-273.79	255.33	1,536.60	1,501.28	35.32	43.505	
5,500.00	5,066.77	5,081.40	5,030.67	24.91	18.07	-175.98	-271.76	255.29	1,582.68	1,546.75	35.93	44.046	
5,600.00	5,156.46	5,168.32	5,117.56	25.41	18.35	-176.05	-269.48	255.37	1,628.92	1,592.36	36.56	44.555	
5,700.00	5,246.15	5,254.51	5,203.72	25.92	18.63	-176.11	-267.17	255.44	1,675.20	1,638.02	37.18	45.055	
5,800.00	5,335.84	5,326.99	5,276.17	26.43	18.87	-176.16	-265.00	255.32	1,721.86	1,684.18	37.69	45.689	
5,900.00	5,425.53	5,401.98	5,351.10	26.93	19.11	-176.21	-262.17	254.97	1,769.26	1,731.05	38.21	46.300	
5,968.02	5,486.54	5,458.71	5,407.78	27.28	19.30	-176.25	-259.60	254.57	1,801.95	1,763.33	38.62	46.657	
6,000.00	5,515.32	5,488.74	5,437.77	27.44	19.39	-176.29	-258.28	254.36	1,817.10	1,778.26	38.84	46.783	
6,100.00	5,606.53	7,184.99	6,884.30	27.93	25.73	-173.88	-712.96	583.06	1,830.28	1,789.27	41.02	44.623	
6,200.00	5,699.44	7,232.58	6,910.88	28.39	25.92	-172.85	-728.53	619.32	1,791.83	1,749.78	42.05	42.608	
6,300.00	5,793.87	7,279.99	6,938.02	28.84	26.12	-171.68	-739.95	656.45	1,754.53	1,711.43	43.10	40.709	
6,400.00	5,889.65	7,279.99	6,938.02	29.25	26.12	-171.52	-739.95	656.45	1,715.94	1,671.68	44.26	38.768	
6,500.00	5,986.59	7,279.99	6,938.02	29.65	26.12	-171.37	-739.95	656.45	1,678.34	1,632.99	45.35	37.008	
6,600.00	6,084.50	7,891.22	7,093.36	30.02	28.34	-150.04	-786.41	1,225.62	1,638.86	1,590.72	48.14	34.042	
6,700.00	6,183.21	7,892.11	7,093.30	30.37	28.34	-149.32	-786.45	1,226.51	1,590.94	1,541.51	49.43	32.187	
6,800.00	6,282.52	7,891.49	7,093.34	30.70	28.34	-148.67	-786.43	1,225.88	1,544.59	1,493.96	50.63	30.507	
6,900.00	6,382.25	7,889.34	7,093.49	31.01	28.33	-148.11	-786.33	1,223.74	1,500.06	1,448.32	51.73	28.997	
7,000.00	6,482.19	7,885.67	7,093.74	31.29	28.32	-147.64	-786.15	1,220.08	1,457.58	1,404.87	52.71	27.654	
7,017.81	6,500.00	7,884.85	7,093.80	31.34	28.31	4.53	-786.12	1,219.27	1,450.25	1,397.39	52.87	27.432	
7,096.37	6,578.56	7,881.14	7,094.06	31.52	28.30	4.37	-785.94	1,215.57	1,419.89	1,366.39	53.50	26.540	
7,100.00	6,582.19	7,880.96	7,094.07	31.53	28.30	93.71	-785.93	1,215.39	1,418.58	1,365.05	53.53	26.501	
7,125.00	6,607.18	7,879.20	7,094.19	31.59	28.29	94.75	-785.84	1,213.64	1,409.80	1,356.09	53.71	26.250	
7,150.00	6,632.08	7,876.55	7,094.38	31.65	28.28	95.69	-785.51	1,211.00	1,401.51	1,347.64	53.87	26.016	
7,175.00	6,656.84	7,873.01	7,094.62	31.70	28.27	96.52	-785.53	1,207.47	1,393.74	1,339.72	54.02	25.801	
7,200.00	6,681.38	7,868.60	7,094.93	31.75	28.25	97.24	-785.29	1,203.07	1,386.50	1,332.35	54.15	25.603	
7,225.00	6,705.64	7,863.31	7,095.30	31.80	28.23	97.85	-785.01	1,197.81	1,379.81	1,325.54	54.27	25.425	
7,250.00	6,729.56	7,857.18	7,095.73	31.85	28.20	98.35	-784.66	1,191.70	1,373.68	1,319.31	54.37	25.265	
7,275.00	6,753.06	7,850.21	7,096.22	31.90	28.17	98.76	-784.26	1,184.76	1,368.11	1,313.66	54.46	25.123	
7,300.00	6,776.08	7,829.98	7,097.65	31.94	28.09	98.60	-782.99	1,164.63	1,363.21	1,308.81	54.40	25.061	
7,325.00	6,798.56	7,829.98	7,097.65	31.98	28.09	99.14	-782.99	1,164.63	1,358.72	1,304.18	54.54	24.912	
7,350.00	6,820.43	7,829.98	7,097.65	32.02	28.09	99.60	-782.99	1,164.63	1,354.88	1,300.20	54.68	24.777	
7,375.00	6,841.65	7,829.98	7,097.65	32.05	28.09	99.98	-782.99	1,164.63	1,351.71	1,296.89	54.82	24.657	
7,400.00	6,862.14	7,829.98	7,097.65	32.08	28.09	100.28	-782.99	1,164.63	1,349.22	1,294.27	54.95	24.552	
7,425.00	6,881.85	7,805.91	7,099.13	32.11	28.00	99.74	-781.08	1,140.68	1,346.93	1,292.10	54.83	24.566	
7,450.00	6,900.74	7,798.41	7,099.50	32.13	27.97	99.68	-780.35	1,133.22	1,345.47	1,290.60	54.88	24.519	
7,475.00	6,918.74	7,790.62	7,099.83	32.15	27.94	99.55	-779.53	1,125.48	1,344.60	1,289.68	54.92	24.484	
7,500.00	6,935.81	7,782.55	7,100.13	32.17	27.91	99.36	-778.61	1,117.47	1,344.30	1,289.34	54.96	24.461	
7,501.13	6,936.55	7,782.18	7,100.14	32.17	27.91	99.35	-778.57	1,117.11	1,344.30	1,289.34	54.96	24.461 SF	
7,525.00	6,951.90	7,752.98	7,100.76	32.19	27.80	98.55	-774.64	1,088.18	1,344.95	1,290.19	54.76	24.561	
7,550.00	6,966.96	7,752.98	7,100.76	32.20	27.80	98.49	-774.64	1,088.18	1,345.50	1,290.62	54.89	24.515	
7,575.00	6,980.96	7,752.98	7,100.76	32.21	27.80	98.34	-774.64	1,088.18	1,346.71	1,291.70	55.01	24.480	
7,600.00	6,993.86	7,691.34	7,098.42	32.22	27.57	96.72	-766.26	1,027.18	1,348.30	1,293.84	54.47	24.755	
7,625.00	7,005.62	7,485.94	7,046.58	32.22	26.85	90.79	-754.52	830.01	1,347.58	1,295.34	52.24	25.797	
7,650.00	7,016.21	7,468.99	7,039.16	32.22	26.80	90.34	-754.61	814.77	1,346.64	1,294.51	52.14	25.828	
7,675.00	7,025.60	7,468.99	7,039.16	32.22	26.80	90.40	-754.61	814.77	1,346.15	1,293.90	52.25	25.763	
7,688.51	7,030.17	7,468.99	7,039.16	32.22	26.80	90.40	-754.61	814.77	1,346.08	1,293.77	52.32	25.729	
7,700.00	7,033.77	7,468.99	7,039.16	32.22	26.80	90.40	-754.61	814.77	1,346.13	1,293.76	52.38	25.702	
7,708.71	7,036.32	7,443.95	7,027.51	32.22	26.71	89.64	-754.60	792.61	1,345.77	1,293.66	52.10	25.829	
7,725.00	7,040.68	7,438.21	7,024.74	32.21	26.69	89.46	-754.53	787.58	1,345.87	1,293.76	52.12	25.825	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,750.00	7,046.33	7,429.20	7,020.32	32.21	26.66	89.15	-754.38	779.73	1,346.30	1,294.17	52.14	25.822	
7,775.00	7,050.70	7,419.95	7,015.69	32.20	26.63	88.80	-754.16	771.73	1,347.05	1,294.89	52.16	25.824	
7,800.00	7,053.77	7,410.48	7,010.85	32.18	26.59	88.43	-753.86	763.60	1,348.11	1,295.91	52.19	25.829	
7,825.00	7,055.55	7,400.82	7,005.82	32.17	26.56	88.03	-753.50	755.36	1,349.44	1,297.21	52.23	25.837	
7,851.16	7,056.00	7,373.99	6,991.32	32.16	26.47	87.22	-752.11	732.82	1,351.34	1,299.29	52.05	25.965	
7,900.00	7,055.51	7,373.99	6,991.32	32.13	26.47	87.22	-752.11	732.82	1,355.12	1,302.72	52.40	25.861	
8,000.00	7,054.51	7,373.99	6,991.32	32.08	26.47	87.22	-752.11	732.82	1,368.27	1,315.12	53.15	25.744	
8,100.00	7,053.50	7,318.05	6,959.87	32.04	26.26	85.92	-746.41	686.93	1,385.03	1,331.88	53.15	26.058	
8,200.00	7,052.50	7,279.99	6,938.02	32.01	26.12	85.03	-739.95	656.45	1,408.26	1,354.85	53.40	26.369	
8,300.00	7,051.49	7,279.99	6,938.02	31.99	26.12	85.03	-739.95	656.45	1,436.52	1,382.36	54.16	26.522	
8,400.00	7,050.49	7,279.99	6,938.02	31.97	26.12	85.03	-739.95	656.45	1,471.05	1,416.17	54.88	26.804	
8,500.00	7,049.49	7,225.51	6,906.88	31.97	25.89	83.81	-726.48	613.86	1,507.77	1,452.86	54.91	27.461	
8,600.00	7,048.48	7,184.99	6,884.30	31.98	25.73	82.96	-712.96	583.06	1,550.81	1,495.72	55.09	28.148	
8,700.00	7,047.48	7,184.99	6,884.30	32.01	25.73	82.96	-712.96	583.06	1,597.05	1,541.33	55.71	28.665	
8,800.00	7,046.47	7,184.99	6,884.30	32.06	25.73	82.96	-712.96	583.06	1,648.06	1,591.79	56.27	29.288	
8,900.00	7,045.47	7,146.25	6,863.35	32.14	25.56	82.20	-697.31	554.50	1,701.68	1,645.27	56.41	30.167	
9,000.00	7,044.46	7,127.94	6,853.71	32.27	25.48	81.87	-689.00	541.34	1,759.01	1,702.29	56.71	31.015	
9,100.00	7,043.46	7,090.99	6,834.84	32.46	25.33	81.24	-670.49	515.52	1,819.73	1,762.89	56.84	32.015	
9,200.00	7,042.46	7,090.99	6,834.84	32.72	25.33	81.24	-670.49	515.52	1,882.35	1,825.12	57.23	32.890	
9,300.00	7,041.45	7,090.99	6,834.84	33.08	25.33	81.24	-670.49	515.52	1,948.09	1,890.51	57.57	33.836	
9,400.00	7,040.45	7,056.13	6,817.54	33.53	25.18	80.69	-651.28	492.15	2,015.52	1,957.86	57.66	34.955	
9,500.00	7,039.44	7,038.62	6,808.92	34.06	25.10	80.43	-641.10	480.79	2,085.24	2,027.40	57.84	36.052	
9,600.00	7,038.44	6,995.99	6,788.21	34.66	24.92	79.82	-614.95	454.27	2,157.42	2,099.55	57.87	37.281	
9,700.00	7,037.44	6,995.99	6,788.21	35.31	24.92	79.82	-614.95	454.27	2,230.20	2,172.09	58.11	38.382	
9,800.00	7,036.43	6,995.99	6,788.21	36.00	24.92	79.82	-614.95	454.27	2,305.02	2,246.70	58.31	39.529	
9,900.00	7,035.43	6,995.99	6,788.21	36.72	24.92	79.82	-614.95	454.27	2,381.68	2,323.19	58.49	40.718	
10,000.00	7,034.42	6,948.58	6,764.41	37.48	24.72	79.16	-584.66	426.64	2,458.62	2,400.14	58.48	42.045	

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.00	0.00	0.00	16.70	0.00	0.00	177.76	-2,058.60	80.50	2,060.24				
100.00	100.00	78.56	95.26	0.25	0.19	177.77	-2,058.67	80.29	2,060.24	2,059.80	0.44	4,698.881	
200.00	200.00	188.58	205.27	0.61	0.58	177.80	-2,058.98	79.26	2,060.51	2,059.32	1.19	1,730.963	
247.88	247.88	231.19	247.88	0.78	0.73	177.80	-2,058.92	79.18	2,060.44	2,058.93	1.51	1,365.775	
300.00	300.00	276.86	293.55	0.97	0.88	177.80	-2,058.96	79.09	2,060.49	2,058.64	1.85	1,112.631	
400.00	400.00	374.95	391.64	1.33	1.23	177.82	-2,059.14	78.28	2,060.64	2,058.09	2.56	805.165	
500.00	500.00	488.68	505.36	1.68	1.63	177.84	-2,058.85	77.71	2,060.32	2,057.00	3.32	621.459	
600.00	600.00	591.09	607.78	2.04	1.98	177.84	-2,058.53	77.82	2,060.02	2,055.99	4.03	511.536	
700.00	699.97	688.89	705.57	2.39	2.32	25.79	-2,058.16	77.96	2,057.68	2,052.97	4.71	436.850	
800.00	799.75	784.94	801.63	2.72	2.66	25.93	-2,057.99	78.03	2,051.62	2,046.24	5.38	381.255	
900.00	899.14	882.39	899.08	3.07	3.00	26.16	-2,057.95	78.36	2,041.79	2,035.73	6.06	336.886	
1,000.00	997.97	976.70	993.38	3.41	3.32	26.47	-2,058.01	79.17	2,028.22	2,021.49	6.73	301.199	
1,100.00	1,096.04	1,065.78	1,082.44	3.76	3.63	26.83	-2,058.33	81.17	2,011.14	2,003.75	7.39	272.059	
1,200.00	1,193.17	1,155.35	1,171.93	4.12	3.95	27.25	-2,059.04	84.65	1,990.72	1,982.67	8.06	247.127	
1,300.00	1,289.17	1,244.46	1,260.90	4.50	4.26	27.73	-2,060.04	89.51	1,966.91	1,958.19	8.72	225.579	
1,400.00	1,383.85	1,333.81	1,350.04	4.89	4.58	28.29	-2,061.37	95.59	1,939.76	1,930.38	9.39	206.659	
1,500.00	1,477.05	1,423.43	1,439.28	5.29	4.89	28.91	-2,062.92	103.58	1,909.25	1,899.19	10.06	189.858	
1,600.00	1,568.57	1,505.95	1,521.28	5.71	5.19	29.58	-2,064.60	112.71	1,875.47	1,864.77	10.70	175.224	
1,649.79	1,613.46	1,543.27	1,558.29	5.93	5.32	29.93	-2,065.59	117.41	1,857.64	1,846.62	11.02	168.631	
1,700.00	1,658.50	1,583.21	1,597.84	6.15	5.46	30.04	-2,066.84	122.80	1,839.43	1,828.09	11.33	162.283	
1,800.00	1,748.19	1,671.26	1,684.91	6.59	5.78	30.28	-2,069.85	135.54	1,803.48	1,791.48	12.00	150.288	
1,900.00	1,837.88	1,769.93	1,782.41	7.05	6.14	30.53	-2,073.15	150.37	1,767.49	1,754.78	12.71	139.072	
2,000.00	1,927.57	1,863.70	1,875.05	7.51	6.48	30.78	-2,076.14	164.57	1,731.39	1,717.98	13.41	129.137	
2,100.00	2,017.26	1,958.71	1,968.95	7.98	6.82	31.05	-2,079.07	178.72	1,695.22	1,681.11	14.11	120.102	
2,200.00	2,106.95	2,051.79	2,060.96	8.46	7.16	31.33	-2,081.89	192.53	1,659.03	1,644.21	14.82	111.938	
2,300.00	2,196.64	2,145.42	2,153.47	8.93	7.50	31.61	-2,084.76	206.66	1,622.91	1,607.37	15.53	104.479	
2,400.00	2,286.34	2,256.96	2,263.90	9.41	7.91	32.02	-2,087.33	222.10	1,586.13	1,569.83	16.30	97.303	
2,500.00	2,376.03	2,358.82	2,365.13	9.90	8.28	32.53	-2,088.77	233.27	1,548.68	1,531.64	17.04	90.878	
2,600.00	2,465.72	2,459.55	2,465.51	10.39	8.65	33.18	-2,089.40	241.64	1,510.70	1,492.92	17.78	84.963	
2,700.00	2,555.41	2,546.45	2,552.27	10.87	8.96	33.86	-2,089.58	246.49	1,472.64	1,454.15	18.49	79.645	
2,800.00	2,645.10	2,626.04	2,631.82	11.36	9.24	34.60	-2,090.30	249.00	1,435.55	1,416.36	19.19	74.810	
2,900.00	2,734.79	2,725.29	2,731.05	11.86	9.59	35.63	-2,090.96	250.47	1,398.67	1,378.72	19.94	70.137	
3,000.00	2,824.48	2,818.60	2,824.36	12.35	9.93	36.67	-2,091.20	251.53	1,361.82	1,341.13	20.69	65.823	
3,100.00	2,914.18	2,911.72	2,917.48	12.85	10.26	37.78	-2,091.16	252.44	1,325.13	1,303.68	21.44	61.793	
3,200.00	3,003.87	3,000.05	3,005.80	13.34	10.57	38.89	-2,091.05	252.96	1,288.86	1,266.66	22.20	58.056	
3,300.00	3,093.56	3,088.69	3,094.44	13.84	10.88	40.08	-2,090.98	253.21	1,253.19	1,230.22	22.97	54.563	
3,400.00	3,183.25	3,176.09	3,181.85	14.34	11.19	41.33	-2,091.02	253.32	1,218.20	1,194.46	23.74	51.314	
3,500.00	3,272.94	3,263.11	3,268.86	14.84	11.49	42.63	-2,091.21	253.27	1,184.01	1,159.49	24.52	48.295	
3,600.00	3,362.63	3,351.45	3,357.21	15.33	11.78	44.04	-2,091.54	253.03	1,150.66	1,125.36	25.30	45.474	
3,700.00	3,452.32	3,443.66	3,449.41	15.83	12.09	45.59	-2,091.80	252.59	1,118.03	1,091.92	26.11	42.821	
3,800.00	3,542.01	3,536.55	3,542.30	16.34	12.41	47.24	-2,091.85	252.34	1,085.97	1,059.03	26.94	40.315	
3,900.00	3,631.71	3,627.03	3,632.78	16.84	12.73	48.90	-2,091.87	252.67	1,054.59	1,026.81	27.78	37.956	
4,000.00	3,721.40	3,720.06	3,725.81	17.34	13.06	50.70	-2,091.77	253.07	1,024.02	995.37	28.65	35.740	
4,100.00	3,811.09	3,812.56	3,818.30	17.84	13.38	52.59	-2,091.37	253.55	994.16	964.63	29.53	33.663	
4,200.00	3,900.78	3,904.10	3,909.84	18.34	13.70	54.56	-2,090.78	254.14	965.20	934.78	30.43	31.721	
4,300.00	3,990.47	3,994.28	4,000.02	18.85	14.02	56.62	-2,090.03	254.65	937.34	906.00	31.34	29.911	
4,400.00	4,080.16	4,083.42	4,089.15	19.35	14.33	58.76	-2,089.24	255.08	910.79	878.53	32.26	28.232	
4,500.00	4,169.85	4,174.31	4,180.03	19.85	14.65	61.05	-2,088.40	255.49	885.71	852.51	33.20	26.676	
4,600.00	4,259.55	4,265.24	4,270.96	20.36	14.97	63.46	-2,087.36	256.00	862.00	827.85	34.16	25.237	
4,700.00	4,349.24	4,355.89	4,361.60	20.86	15.29	65.98	-2,086.21	256.52	839.92	804.80	35.12	23.914	
4,800.00	4,438.93	4,445.68	4,451.38	21.37	15.60	68.57	-2,085.00	257.22	819.56	783.46	36.09	22.706	
4,900.00	4,528.62	4,534.79	4,540.48	21.87	15.92	71.25	-2,083.79	257.80	801.27	764.20	37.07	21.616	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.00	4,618.31	4,624.78	4,630.46	22.38	16.23	74.06	-2,082.51	258.47	785.05	747.01	38.04	20.636	
5,100.00	4,708.00	4,713.73	4,719.40	22.88	16.55	76.92	-2,081.27	259.11	771.14	732.13	39.01	19.769	
5,200.00	4,797.69	4,803.99	4,809.65	23.39	16.87	79.91	-2,079.98	259.78	759.62	719.66	39.96	19.009	
5,300.00	4,887.38	4,895.55	4,901.19	23.89	17.19	83.01	-2,078.45	260.58	750.42	709.52	40.90	18.348	
5,400.00	4,977.08	4,985.32	4,990.94	24.40	17.51	86.10	-2,076.87	261.61	743.60	701.79	41.80	17.787	
5,500.00	5,066.77	5,067.30	5,072.91	24.91	17.80	88.89	-2,076.44	262.61	739.97	697.32	42.65	17.350	
5,589.44	5,146.99	5,151.14	5,156.75	25.36	18.09	91.71	-2,076.63	263.73	739.12	695.71	43.41	17.025	
5,600.00	5,156.46	5,161.03	5,166.63	25.41	18.13	92.04	-2,076.63	263.88	739.13	695.63	43.50	16.991	
5,700.00	5,246.15	5,253.68	5,259.26	25.92	18.46	95.17	-2,076.56	265.45	740.48	696.17	44.31	16.710	
5,800.00	5,335.84	5,329.92	5,335.51	26.43	18.73	97.72	-2,076.86	266.29	745.03	700.03	45.00	16.557	
5,900.00	5,425.53	5,420.63	5,426.21	26.93	19.04	100.69	-2,077.86	266.37	753.11	707.40	45.71	16.476	
5,968.02	5,486.54	5,484.04	5,489.61	27.28	19.26	102.74	-2,078.32	266.69	759.67	713.49	46.18	16.449	
6,000.00	5,515.32	5,513.34	5,518.91	27.44	19.36	103.75	-2,078.48	266.86	763.05	716.65	46.40	16.446	
6,100.00	5,606.53	5,605.73	5,611.30	27.93	19.69	106.73	-2,078.84	267.45	774.18	727.14	47.04	16.456	
6,200.00	5,699.44	5,689.83	5,695.40	28.39	19.98	109.19	-2,079.09	267.72	786.11	738.52	47.60	16.516	
6,300.00	5,793.87	5,778.58	5,784.15	28.84	20.28	111.49	-2,079.25	266.72	799.27	751.13	48.14	16.603	
6,400.00	5,889.65	5,877.87	5,883.42	29.25	20.61	113.66	-2,079.42	265.72	811.76	763.02	48.74	16.654	
6,500.00	5,986.59	5,979.92	5,985.48	29.65	20.96	115.50	-2,079.59	265.26	822.70	773.33	49.36	16.666	
6,600.00	6,084.50	6,081.97	6,087.52	30.02	21.32	117.00	-2,079.46	265.40	831.67	781.68	49.99	16.637	
6,700.00	6,183.21	6,186.51	6,192.06	30.37	21.69	118.21	-2,078.96	266.10	838.47	787.84	50.63	16.560	
6,800.00	6,282.52	7,577.68	7,024.83	30.70	26.41	157.05	-2,109.25	1,082.77	742.93	718.24	24.69	30.094	
6,900.00	6,382.25	7,584.82	7,025.09	31.01	26.44	147.76	-2,109.26	1,089.91	643.31	618.38	24.94	25.799	
7,000.00	6,482.19	7,589.89	7,025.28	31.29	26.46	116.57	-2,109.27	1,094.98	543.46	518.33	25.13	21.622	
7,017.81	6,500.00	7,590.58	7,025.30	31.34	26.46	-102.31	-2,109.27	1,095.66	525.67	500.50	25.16	20.891	
7,096.37	6,578.56	7,593.45	7,025.41	31.52	26.48	-104.42	-2,109.28	1,098.54	447.16	421.88	25.28	17.690	
7,100.00	6,582.19	7,593.57	7,025.41	31.53	26.48	-19.16	-2,109.28	1,098.66	443.53	418.25	25.28	17.543	
7,125.00	6,607.18	7,593.63	7,025.41	31.59	26.48	-156.06	-2,109.28	1,098.72	418.53	393.22	25.32	16.532	
7,150.00	6,632.08	7,592.38	7,025.37	31.65	26.47	-171.58	-2,109.28	1,097.47	393.57	368.22	25.35	15.528	
7,175.00	6,656.84	7,589.82	7,025.27	31.70	26.46	-174.61	-2,109.27	1,094.91	368.71	343.33	25.37	14.533	
7,200.00	6,681.38	7,585.96	7,025.13	31.75	26.45	-175.83	-2,109.26	1,091.05	344.01	318.62	25.39	13.549	
7,225.00	6,705.64	7,580.81	7,024.95	31.80	26.42	-176.46	-2,109.25	1,085.90	319.55	294.14	25.41	12.578	
7,250.00	6,729.56	7,574.38	7,024.71	31.85	26.40	-176.80	-2,109.24	1,079.48	295.39	269.97	25.41	11.623	
7,275.00	6,753.06	7,566.69	7,024.43	31.90	26.37	-176.99	-2,109.22	1,071.80	271.60	246.18	25.42	10.685	
7,300.00	6,776.08	7,557.77	7,024.10	31.94	26.33	-177.07	-2,109.19	1,062.88	248.24	222.82	25.42	9.766	
7,325.00	6,798.56	7,547.64	7,023.73	31.98	26.29	-177.06	-2,109.16	1,052.76	225.38	199.97	25.41	8.869	
7,350.00	6,820.43	7,536.39	7,023.31	32.02	26.25	-176.99	-2,109.12	1,041.52	203.08	177.68	25.40	7.997	
7,375.00	6,841.65	7,524.01	7,022.86	32.05	26.20	-176.84	-2,109.07	1,029.15	181.41	156.04	25.37	7.150	
7,400.00	6,862.14	7,510.51	7,022.37	32.08	26.16	-176.62	-2,109.02	1,015.65	160.42	135.08	25.34	6.332	
7,425.00	6,881.85	7,495.91	7,021.84	32.11	26.10	-176.30	-2,108.97	1,001.07	140.18	114.89	25.29	5.543	
7,450.00	6,900.74	7,480.27	7,021.28	32.13	26.05	-175.86	-2,108.91	985.43	120.75	95.52	25.24	4.785	
7,475.00	6,918.74	7,463.61	7,020.70	32.15	25.99	-175.25	-2,108.84	968.79	102.19	77.02	25.17	4.061	
7,500.00	6,935.81	7,445.98	7,020.08	32.17	25.92	-174.39	-2,108.76	951.16	84.54	59.46	25.08	3.371	
7,525.00	6,951.90	7,427.38	7,019.43	32.19	25.86	-173.13	-2,108.67	932.57	67.86	42.86	25.00	2.714	
7,550.00	6,966.96	7,407.94	7,018.73	32.20	25.80	-171.18	-2,108.58	913.15	52.19	27.26	24.93	2.094	
7,575.00	6,980.96	7,387.72	7,017.99	32.21	25.74	-167.87	-2,108.47	892.95	37.63	12.66	24.97	1.507 Collision Risk Procedures Req.	
7,600.00	6,993.86	7,366.78	7,017.21	32.22	25.67	-161.31	-2,108.35	872.02	24.32	-1.37	25.69	0.947 Collision Risk Procedures Req.	
7,625.00	7,005.62	7,345.11	7,016.37	32.22	25.60	-143.76	-2,108.21	850.36	12.78	-18.55	31.34	0.408 Collision Risk Procedures Req.	
7,647.87	7,015.36	7,324.81	7,015.37	32.22	25.54	-90.13	-2,107.99	830.09	6.98	-45.33	52.31	0.133 Collision Risk Procedures Req., CC, SI	
7,650.00	7,016.21	7,322.91	7,015.27	32.22	25.54	-83.11	-2,107.97	828.20	7.04	-45.71	52.75	0.133 Collision Risk Procedures Req., ES	
7,675.00	7,025.60	7,300.43	7,013.86	32.22	25.47	-32.85	-2,107.59	805.76	13.66	-24.61	38.26	0.357 Collision Risk Procedures Req.	
7,700.00	7,033.77	7,277.67	7,012.13	32.22	25.40	-18.53	-2,107.08	783.08	22.73	-9.42	32.15	0.707 Collision Risk Procedures Req.	
7,725.00	7,040.68	7,254.87	7,010.08	32.21	25.34	-12.56	-2,106.44	760.37	31.41	1.29	30.12	1.043 Collision Risk Procedures Req.	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,750.00	7,046.33	7,232.99	7,007.36	32.21	25.27	-9.25	-2,105.73	738.68	39.85	10.13	29.72	1.341	Collision Risk Procedures Req.
7,775.00	7,050.70	7,211.41	7,003.71	32.20	25.21	-7.03	-2,104.96	717.43	48.18	18.21	29.97	1.608	Collision Risk Procedures Req.
7,800.00	7,053.77	7,190.12	6,999.17	32.18	25.14	-5.41	-2,104.13	696.64	56.36	25.79	30.58	1.843	Collision Risk Procedures Req.
7,825.00	7,055.55	7,163.99	6,992.35	32.17	25.07	-3.90	-2,103.01	671.44	64.61	35.09	29.52	2.189	
7,851.16	7,056.00	7,147.17	6,987.27	32.16	25.01	-3.11	-2,102.26	655.43	72.54	40.15	32.39	2.239	
7,900.00	7,055.51	7,107.39	6,973.24	32.13	24.89	-1.76	-2,100.52	618.25	89.26	54.88	34.37	2.597	
8,000.00	7,054.51	7,033.30	6,939.84	32.08	24.65	-0.16	-2,097.35	552.27	133.58	95.10	38.47	3.472	
8,100.00	7,053.50	6,974.99	6,907.24	32.04	24.46	0.67	-2,094.61	504.03	189.34	146.51	42.84	4.420	
8,200.00	7,052.50	6,913.23	6,867.51	32.01	24.26	1.42	-2,091.04	456.92	253.37	208.80	44.57	5.685	
8,300.00	7,051.49	6,879.99	6,844.21	31.99	24.14	1.82	-2,088.67	433.33	324.40	276.66	47.74	6.795	
8,400.00	7,050.49	6,826.14	6,803.68	31.97	23.96	2.28	-2,084.87	398.12	399.65	351.34	48.31	8.272	
8,500.00	7,049.49	6,784.99	6,770.48	31.97	23.82	2.45	-2,082.36	373.94	479.64	430.38	49.26	9.737	
8,600.00	7,048.48	6,784.99	6,770.48	31.98	23.82	2.45	-2,082.36	373.94	563.46	512.15	51.31	10.981	
8,700.00	7,047.48	6,740.16	6,732.33	32.01	23.66	2.51	-2,080.07	350.55	648.43	597.04	51.39	12.618	
8,800.00	7,046.47	6,719.35	6,713.97	32.06	23.59	2.50	-2,079.18	340.80	736.28	684.27	52.00	14.158	
8,900.00	7,045.47	6,689.99	6,687.44	32.14	23.49	2.46	-2,078.13	328.26	826.00	773.72	52.27	15.802	
9,000.00	7,044.46	6,689.99	6,687.44	32.27	23.49	2.46	-2,078.13	328.26	916.72	863.77	52.95	17.313	
9,100.00	7,043.46	6,689.99	6,687.44	32.46	23.49	2.46	-2,078.13	328.26	1,009.21	955.77	53.44	18.886	
9,200.00	7,042.46	6,653.66	6,653.82	32.72	23.36	2.37	-2,077.11	314.55	1,101.44	1,048.07	53.37	20.637	
9,300.00	7,041.45	6,640.45	6,641.42	33.08	23.31	2.33	-2,076.81	310.01	1,194.99	1,141.42	53.56	22.309	
9,400.00	7,040.45	6,628.50	6,630.13	33.53	23.27	2.29	-2,076.56	306.11	1,289.17	1,235.44	53.73	23.996	
9,500.00	7,039.44	6,594.99	6,598.11	34.06	23.15	2.18	-2,076.04	296.23	1,384.45	1,330.79	53.67	25.798	
9,600.00	7,038.44	6,594.99	6,598.11	34.66	23.15	2.18	-2,076.04	296.23	1,479.27	1,425.39	53.88	27.455	
9,700.00	7,037.44	6,594.99	6,598.11	35.31	23.15	2.18	-2,076.04	296.23	1,574.72	1,520.67	54.05	29.133	
9,800.00	7,036.43	6,594.99	6,598.11	36.00	23.15	2.18	-2,076.04	296.23	1,670.71	1,616.52	54.19	30.829	
9,900.00	7,035.43	6,594.99	6,598.11	36.72	23.15	2.18	-2,076.04	296.23	1,767.15	1,712.83	54.31	32.538	
10,000.00	7,034.42	6,594.99	6,598.11	37.48	23.15	2.18	-2,076.04	296.23	1,863.95	1,809.55	54.41	34.259	
10,100.00	7,033.42	6,594.99	6,598.11	38.25	23.15	2.18	-2,076.04	296.23	1,961.08	1,906.59	54.49	35.989	
10,200.00	7,032.42	6,594.99	6,598.11	39.05	23.15	2.18	-2,076.04	296.23	2,058.49	2,003.93	54.56	37.728	
10,300.00	7,031.41	6,557.87	6,562.13	39.87	23.01	2.04	-2,075.71	287.15	2,154.78	2,100.32	54.46	39.563	
10,400.00	7,030.41	6,552.66	6,557.04	40.70	23.00	2.03	-2,075.69	286.03	2,252.24	2,197.73	54.51	41.320	
10,500.00	7,029.40	6,547.79	6,552.27	41.55	22.98	2.01	-2,075.67	285.03	2,349.87	2,295.32	54.55	43.080	
10,600.00	7,028.40	6,543.22	6,547.80	42.42	22.96	1.99	-2,075.65	284.11	2,447.65	2,393.07	54.58	44.843	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:	Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.30	0.00	0.00	0.00	8.89	2,073.00	324.40	2,098.23					
100.00	100.00	98.03	97.73	0.25	0.13	8.90	2,073.03	324.48	2,098.27	2,097.89	0.38	5,540.068		
200.00	200.00	195.03	194.73	0.61	0.31	8.90	2,073.15	324.83	2,098.45	2,097.53	0.92	2,288.954		
300.00	300.00	293.62	293.32	0.97	0.66	8.92	2,073.35	325.41	2,098.74	2,097.11	1.63	1,288.611		
400.00	400.00	375.69	375.38	1.33	0.95	8.93	2,073.76	325.87	2,099.35	2,097.07	2.28	920.690 ES		
500.00	500.00	455.30	454.98	1.68	1.23	8.93	2,074.87	325.86	2,100.79	2,097.87	2.92	719.793		
600.00	600.00	559.35	559.01	2.04	1.60	8.90	2,077.20	325.17	2,102.89	2,099.25	3.64	577.480		
700.00	699.97	655.79	655.42	2.39	1.94	-143.20	2,079.24	324.56	2,106.64	2,102.32	4.33	486.945		
800.00	799.75	751.26	750.86	2.72	2.28	-143.21	2,081.46	324.14	2,114.11	2,109.11	5.00	422.711		
900.00	899.14	850.37	849.95	3.07	2.63	-143.24	2,083.83	323.84	2,125.16	2,119.46	5.70	372.989		
1,000.00	997.97	920.30	919.86	3.41	2.88	-143.19	2,085.49	323.69	2,139.89	2,133.60	6.29	339.976		
1,100.00	1,096.04	1,010.90	1,010.41	3.76	3.21	-143.20	2,088.41	323.38	2,158.79	2,151.83	6.97	309.855		
1,200.00	1,193.17	1,079.68	1,079.11	4.12	3.45	-143.12	2,091.65	322.96	2,182.55	2,174.99	7.56	288.621		
1,300.00	1,289.17	1,158.37	1,157.66	4.50	3.73	-143.08	2,096.27	322.28	2,210.83	2,202.64	8.19	269.861		
1,400.00	1,383.85	1,242.76	1,241.88	4.89	4.04	-143.05	2,101.59	321.39	2,243.00	2,234.16	8.84	253.626		
1,500.00	1,477.05	1,325.78	1,324.71	5.29	4.33	-143.01	2,107.15	320.34	2,278.98	2,269.49	9.49	240.161		
1,600.00	1,568.57	1,407.66	1,406.37	5.71	4.63	-142.94	2,112.90	319.08	2,318.70	2,308.57	10.13	228.900		
1,649.79	1,613.46	1,447.56	1,446.16	5.93	4.77	-142.90	2,115.80	318.36	2,339.85	2,329.40	10.45	223.960		
1,700.00	1,658.50	1,487.65	1,486.14	6.15	4.91	-143.22	2,118.78	317.59	2,361.71	2,350.94	10.76	219.464		
1,800.00	1,748.19	1,580.79	1,579.00	6.59	5.25	-143.94	2,125.63	315.50	2,405.38	2,393.95	11.44	210.352		
1,900.00	1,837.88	1,673.97	1,671.91	7.05	5.58	-144.65	2,132.24	312.99	2,449.09	2,436.98	12.11	202.201		
2,000.00	1,927.57	1,768.80	1,766.48	7.51	5.92	-145.34	2,138.68	310.32	2,492.80	2,480.00	12.80	194.775 SF		

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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
Rule Assigned:													Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor		
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	4.00	0.00	0.00	0.55	239.90	2.30	239.94					
100.00	100.00	94.52	98.52	0.25	0.12	0.52	240.12	2.18	240.13	239.76	0.37	641.161		
200.00	200.00	194.70	198.70	0.61	0.45	0.44	240.70	1.83	240.71	239.65	1.06	226.839		
300.00	300.00	295.70	299.69	0.97	0.81	0.28	240.98	1.18	240.98	239.21	1.78	135.650		
400.00	400.00	397.68	401.67	1.33	1.16	0.17	240.67	0.73	240.67	238.19	2.49	96.748		
500.00	500.00	498.71	502.69	1.68	1.51	0.07	239.55	0.31	239.57	236.37	3.20	74.957		
600.00	600.00	598.06	602.03	2.04	1.86	-0.11	238.52	-0.46	238.53	234.62	3.90	61.106		
619.56	619.56	617.39	621.36	2.11	1.93	-152.25	238.36	-0.61	238.45	234.41	4.04	59.035 CC, ES		
700.00	699.97	697.28	701.25	2.39	2.21	-152.60	237.87	-1.17	239.81	235.21	4.60	52.147		
800.00	799.75	797.72	801.69	2.72	2.57	-153.41	237.27	-1.85	245.06	239.76	5.29	46.310		
900.00	899.14	899.92	903.88	3.07	2.93	-154.59	235.98	-2.44	253.61	247.62	5.99	42.305		
1,000.00	997.97	1,001.36	1,005.29	3.41	3.29	-155.94	233.58	-2.43	265.11	258.42	6.70	39.587		
1,100.00	1,096.04	1,097.62	1,101.52	3.76	3.63	-157.32	231.22	-2.02	280.63	273.24	7.39	37.999		
1,200.00	1,193.17	1,189.42	1,193.31	4.12	3.95	-158.62	230.33	-1.22	301.72	293.67	8.05	37.469 SF		
1,300.00	1,289.17	1,278.17	1,282.04	4.50	4.25	-159.82	231.41	-0.21	329.02	320.33	8.70	37.825		
1,400.00	1,383.85	1,365.27	1,369.08	4.89	4.54	-160.89	234.40	0.98	362.49	353.16	9.33	38.846		
1,500.00	1,477.05	1,453.19	1,456.87	5.29	4.84	-161.80	238.91	2.68	401.45	391.48	9.96	40.290		
1,600.00	1,568.57	1,541.45	1,544.93	5.71	5.15	-162.55	244.13	5.12	444.88	434.28	10.60	41.986		
1,649.79	1,613.46	1,584.93	1,588.31	5.93	5.30	-162.86	246.86	6.67	468.02	457.10	10.91	42.891		
1,700.00	1,658.50	1,627.83	1,631.08	6.15	5.45	-163.29	249.67	8.41	491.91	480.69	11.22	43.852		
1,800.00	1,748.19	1,712.82	1,715.76	6.59	5.74	-163.98	255.66	12.35	539.87	528.05	11.82	45.680		
1,900.00	1,837.88	1,796.53	1,799.10	7.05	6.03	-164.46	262.19	16.84	588.35	575.94	12.42	47.390		
2,000.00	1,927.57	1,877.91	1,880.00	7.51	6.32	-164.77	269.36	21.89	637.55	624.55	13.00	49.038		
2,100.00	2,017.26	1,960.00	1,961.46	7.98	6.61	-164.95	277.72	27.69	687.71	674.12	13.59	50.591		
2,200.00	2,106.95	2,036.87	2,037.58	8.46	6.88	-165.01	286.51	33.81	738.72	724.56	14.15	52.190		
2,300.00	2,196.64	2,120.30	2,120.05	8.93	7.17	-165.00	296.71	41.15	790.23	775.47	14.76	53.538		
2,400.00	2,286.34	2,207.97	2,206.67	9.41	7.48	-164.95	307.59	49.29	841.79	826.39	15.40	54.672		
2,500.00	2,376.03	2,297.27	2,294.93	9.90	7.80	-164.91	318.31	57.65	893.00	876.96	16.05	55.647		
2,600.00	2,465.72	2,386.28	2,382.93	10.39	8.12	-164.87	328.71	66.08	943.91	927.22	16.70	56.526		
2,700.00	2,555.41	2,472.31	2,468.00	10.87	8.43	-164.84	338.55	74.22	994.63	977.30	17.33	57.387		
2,800.00	2,645.10	2,555.43	2,550.18	11.36	8.72	-164.82	348.25	82.00	1,045.56	1,027.61	17.95	58.255		
2,900.00	2,734.79	2,638.83	2,632.63	11.86	9.02	-164.80	358.18	89.76	1,096.69	1,078.12	18.57	59.066		
3,000.00	2,824.48	2,720.96	2,713.80	12.35	9.32	-164.78	368.17	97.27	1,148.08	1,128.90	19.18	59.861		
3,100.00	2,914.18	2,806.31	2,798.15	12.85	9.63	-164.77	378.67	104.97	1,199.62	1,179.80	19.81	60.544		
3,200.00	3,003.87	2,892.46	2,883.29	13.34	9.94	-164.76	389.28	112.77	1,251.15	1,230.70	20.46	61.163		
3,300.00	3,093.56	2,982.18	2,971.96	13.84	10.26	-164.75	400.22	121.03	1,302.55	1,281.43	21.12	61.662		
3,400.00	3,183.25	3,074.71	3,063.43	14.34	10.60	-164.73	411.15	129.66	1,353.60	1,331.79	21.81	62.057		
3,500.00	3,272.94	3,164.99	3,152.74	14.84	10.92	-164.73	421.38	137.98	1,404.29	1,381.80	22.49	62.453		
3,600.00	3,362.63	3,254.73	3,241.56	15.33	11.25	-164.73	431.31	146.14	1,454.76	1,431.60	23.16	62.824		
3,700.00	3,452.32	3,350.90	3,336.78	15.83	11.60	-164.74	441.59	154.93	1,504.92	1,481.05	23.87	63.045		
3,800.00	3,542.01	3,434.69	3,419.83	16.34	11.90	-164.76	449.90	162.25	1,554.52	1,530.02	24.50	63.444		
3,900.00	3,631.71	3,498.99	3,483.51	16.84	12.13	-164.78	457.02	167.56	1,605.16	1,580.16	25.00	64.203		
4,000.00	3,721.40	3,572.34	3,556.11	17.34	12.40	-164.82	465.86	173.25	1,656.74	1,631.18	25.56	64.816		
4,100.00	3,811.09	3,654.67	3,637.59	17.84	12.70	-164.86	476.02	179.18	1,708.68	1,682.50	26.18	65.262		
4,200.00	3,900.78	3,750.07	3,732.05	18.34	13.05	-164.93	487.61	185.86	1,760.52	1,733.63	26.90	65.459		
4,300.00	3,990.47	3,840.78	3,821.86	18.85	13.38	-164.96	498.20	192.85	1,811.81	1,784.23	27.58	65.701		
4,400.00	4,080.16	3,925.98	3,906.23	19.35	13.69	-165.00	508.13	199.39	1,863.08	1,834.86	28.22	66.019		
4,500.00	4,169.85	4,010.00	3,989.43	19.85	13.99	-165.03	517.94	205.75	1,914.40	1,885.54	28.86	66.342		
4,600.00	4,259.55	4,092.57	4,071.21	20.36	14.29	-165.07	527.65	211.81	1,965.84	1,936.36	29.48	66.677		
4,700.00	4,349.24	4,175.26	4,153.10	20.86	14.59	-165.11	537.47	217.70	2,017.43	1,987.32	30.11	67.001		
4,800.00	4,438.93	4,258.75	4,235.78	21.37	14.90	-165.15	547.45	223.52	2,069.11	2,038.36	30.74	67.302		
4,900.00	4,528.62	4,337.32	4,313.60	21.87	15.18	-165.20	556.98	228.82	2,120.98	2,089.64	31.34	67.671		

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 376H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 25-SuperiorQC MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,618.31	4,418.08	4,393.56	22.38	15.48	-165.24	566.96	234.11	2,173.09	2,141.13	31.96	68.000	
5,100.00	4,708.00	4,498.28	4,472.96	22.88	15.77	-165.28	577.03	239.30	2,225.38	2,192.81	32.57	68.330	
5,200.00	4,797.69	4,578.61	4,552.46	23.39	16.06	-165.33	587.29	244.44	2,277.87	2,244.69	33.18	68.651	
5,300.00	4,887.38	4,659.78	4,632.80	23.89	16.36	-165.37	597.77	249.47	2,330.52	2,296.72	33.80	68.952	
5,400.00	4,977.08	4,742.97	4,715.15	24.40	16.66	-165.42	608.55	254.29	2,383.29	2,348.86	34.43	69.218	
5,500.00	5,066.77	4,831.17	4,802.49	24.91	16.98	-165.48	619.83	259.07	2,436.01	2,400.91	35.10	69.403	
5,600.00	5,156.46	4,917.95	4,888.46	25.41	17.29	-165.55	630.75	263.45	2,488.65	2,452.89	35.76	69.599	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 377H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 25-SuperiorQC MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.00	0.00	0.00	0.00	0.00	0.00	0.57	149.90	1.50	149.91					
100.00	100.00	99.93	99.93	0.25	0.13	0.59	149.92	1.55	149.93	149.55	0.38	397.241		
200.00	200.00	199.78	199.77	0.61	0.46	0.82	150.34	2.14	150.35	149.28	1.07	140.339		
300.00	300.00	299.16	299.15	0.97	0.81	0.94	150.80	2.48	150.82	149.04	1.78	84.826 ES		
400.00	400.00	398.67	398.66	1.33	1.16	0.87	151.71	2.30	151.74	149.25	2.49	61.009		
500.00	500.00	497.89	497.87	1.68	1.51	0.84	152.94	2.24	152.97	149.77	3.20	47.818		
600.00	600.00	597.74	597.71	2.04	1.87	1.03	154.40	2.78	154.44	150.52	3.91	39.453		
700.00	699.97	697.64	697.59	2.39	2.23	-151.41	155.85	2.80	157.81	153.20	4.61	34.199		
800.00	799.75	797.49	797.43	2.72	2.58	-152.66	157.44	2.11	165.17	159.87	5.31	31.130		
900.00	899.14	898.18	898.12	3.07	2.94	-154.51	158.37	1.14	175.88	169.88	6.00	29.301		
1,000.00	997.97	997.18	997.11	3.41	3.28	-156.63	158.70	0.15	190.15	183.46	6.70	28.400		
1,100.00	1,096.04	1,094.75	1,094.67	3.76	3.63	-158.82	159.20	-0.80	208.86	201.48	7.39	28.274		
1,200.00	1,193.17	1,191.67	1,191.58	4.12	3.97	-160.99	159.69	-1.84	231.91	223.83	8.08	28.711		
1,300.00	1,289.17	1,287.52	1,287.42	4.50	4.31	-163.02	160.16	-2.95	259.30	250.53	8.76	29.593		
1,400.00	1,383.85	1,381.52	1,381.41	4.89	4.64	-164.84	160.58	-4.06	290.97	281.54	9.44	30.832		
1,500.00	1,477.05	1,476.73	1,476.62	5.29	4.98	-166.46	161.07	-4.99	326.93	316.82	10.11	32.334		
1,600.00	1,568.57	1,576.23	1,576.12	5.71	5.32	-167.93	160.07	-5.34	365.56	354.78	10.79	33.885		
1,649.79	1,613.46	1,625.92	1,625.78	5.93	5.48	-168.58	158.74	-5.12	385.50	374.38	11.13	34.649		
1,700.00	1,658.50	1,674.37	1,674.21	6.15	5.65	-169.23	157.11	-4.60	405.75	394.30	11.45	35.430		
1,800.00	1,748.19	1,769.13	1,768.88	6.59	5.97	-170.23	153.40	-2.68	445.43	433.33	12.09	36.829		
1,900.00	1,837.88	1,864.33	1,863.95	7.05	6.29	-170.99	149.33	0.01	484.64	471.90	12.74	38.028		
2,000.00	1,927.57	1,964.63	1,964.06	7.51	6.63	-171.70	143.94	2.99	522.92	509.50	13.42	38.967		
2,100.00	2,017.26	2,073.00	2,072.05	7.98	7.00	-172.39	135.73	6.70	559.19	545.06	14.13	39.581		
2,200.00	2,106.95	2,186.43	2,184.73	8.46	7.39	-173.09	123.51	11.10	592.55	577.70	14.85	39.894		
2,300.00	2,196.64	2,307.58	2,304.46	8.93	7.81	-173.75	106.19	17.40	622.36	606.77	15.60	39.907		
2,400.00	2,286.34	2,426.43	2,421.08	9.41	8.23	-174.26	85.03	26.13	648.20	631.88	16.32	39.707		
2,500.00	2,376.03	2,531.02	2,523.20	9.90	8.60	-174.62	64.37	35.17	671.84	654.81	17.03	39.453		
2,600.00	2,465.72	2,628.65	2,618.44	10.39	8.95	-174.95	44.67	43.71	695.07	677.35	17.72	39.216		
2,700.00	2,555.41	2,725.56	2,712.99	10.87	9.30	-175.26	25.07	51.98	718.37	699.95	18.42	38.998		
2,800.00	2,645.10	2,820.96	2,806.07	11.36	9.65	-175.57	5.73	59.91	741.73	722.61	19.12	38.801		
2,900.00	2,734.79	2,911.27	2,894.36	11.86	9.98	-175.86	-11.90	66.98	765.97	746.17	19.80	38.685		
3,000.00	2,824.48	3,009.10	2,990.02	12.35	10.34	-176.16	-30.99	74.43	790.35	769.84	20.50	38.546		
3,100.00	2,914.18	3,104.64	3,083.45	12.85	10.69	-176.47	-49.72	81.43	814.77	793.57	21.20	38.426		
3,200.00	3,003.87	3,201.38	3,178.07	13.34	11.05	-176.78	-68.71	88.12	839.36	817.45	21.91	38.313		
3,300.00	3,093.56	3,297.89	3,272.45	13.84	11.41	-177.08	-87.73	94.74	863.93	841.31	22.61	38.205		
3,400.00	3,183.25	3,392.02	3,364.56	14.34	11.76	-177.37	-106.12	100.93	888.78	865.47	23.31	38.127		
3,500.00	3,272.94	3,490.18	3,460.62	14.84	12.13	-177.65	-125.30	107.39	913.66	889.64	24.02	38.031		
3,600.00	3,362.63	3,574.19	3,542.91	15.33	12.45	-177.84	-141.08	113.31	939.05	914.36	24.69	38.041		
3,700.00	3,452.32	3,659.57	3,626.81	15.83	12.77	-177.93	-155.34	120.23	965.82	940.47	25.35	38.103		
3,800.00	3,542.01	3,751.74	3,717.51	16.34	13.12	-177.98	-169.78	127.96	993.37	967.34	26.04	38.154		
3,900.00	3,631.71	3,847.63	3,811.89	16.84	13.47	-178.10	-185.21	134.91	1,021.05	994.31	26.74	38.182		
4,000.00	3,721.40	3,938.00	3,900.85	17.34	13.81	-178.28	-200.19	140.25	1,048.90	1,021.47	27.42	38.249		
4,100.00	3,811.09	4,026.48	3,988.07	17.84	14.15	-178.44	-214.22	145.26	1,077.47	1,049.37	28.09	38.352		
4,200.00	3,900.78	4,139.05	4,099.03	18.34	14.57	-178.62	-231.98	151.92	1,106.09	1,077.21	28.88	38.298		
4,300.00	3,990.47	4,238.37	4,196.66	18.85	14.94	-178.73	-248.72	159.17	1,133.09	1,103.49	29.61	38.273		
4,400.00	4,080.16	4,327.85	4,284.68	19.35	15.28	-178.81	-263.35	165.76	1,160.51	1,130.23	30.28	38.320		
4,500.00	4,169.85	4,416.90	4,372.39	19.85	15.62	-178.87	-277.33	172.31	1,188.51	1,157.55	30.96	38.389		
4,600.00	4,259.55	4,504.97	4,458.12	20.36	16.14	-178.95	-300.05	183.30	1,215.79	1,183.92	31.87	38.154		
4,700.00	4,349.24	4,591.30	4,542.47	20.86	16.51	-179.01	-317.62	191.68	1,240.97	1,208.39	32.58	38.091		
4,800.00	4,438.93	4,679.90	4,628.96	21.37	16.89	-179.07	-335.91	200.37	1,265.83	1,232.52	33.30	38.009		
4,900.00	4,528.62	4,767.25	4,715.25	21.87	17.23	-179.12	-352.48	208.26	1,290.88	1,256.88	33.99	37.977		
5,000.00	4,618.31	4,854.99	4,802.66	22.38	17.53	-179.16	-366.20	214.93	1,316.73	1,282.11	34.62	38.035		

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 377H - OH - OH													Offset Site Error:	0.00 usft
Survey Program: 25-SuperiorQC MWD+IFR1+SAG+FDIR													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,100.00	4,708.00	5,000.71	4,944.97	22.88	17.85	-179.19	-379.77	221.78	1,343.74	1,308.48	35.26	38.105		
5,200.00	4,797.69	5,083.73	5,026.76	23.39	18.16	-179.23	-392.57	227.97	1,371.94	1,336.03	35.91	38.207		
5,300.00	4,887.38	5,169.90	5,111.77	23.89	18.49	-179.30	-405.63	233.34	1,400.91	1,364.35	36.57	38.311		
5,400.00	4,977.08	5,273.83	5,214.33	24.40	18.88	-179.38	-421.16	239.76	1,430.12	1,392.80	37.32	38.317		
5,500.00	5,066.77	5,356.88	5,296.25	24.91	19.19	-179.44	-433.77	245.00	1,459.08	1,421.11	37.96	38.433		
5,600.00	5,156.46	5,463.34	5,401.38	25.41	19.59	-179.51	-449.11	251.69	1,488.73	1,449.99	38.74	38.433		
5,700.00	5,246.15	5,557.94	5,494.66	25.92	19.95	-179.56	-463.47	258.11	1,517.44	1,478.00	39.44	38.473		
5,800.00	5,335.84	5,636.11	5,571.84	26.43	20.25	-179.59	-474.78	263.31	1,546.85	1,506.80	40.05	38.620		
5,900.00	5,425.53	5,740.20	5,674.73	26.93	20.64	-179.63	-489.00	270.05	1,577.04	1,536.23	40.81	38.640		
5,968.02	5,486.54	5,800.98	5,734.72	27.28	20.87	-179.66	-497.93	273.93	1,597.01	1,555.73	41.27	38.694		
6,000.00	5,515.32	5,823.65	5,757.13	27.44	20.95	-179.67	-501.11	275.31	1,606.38	1,564.93	41.45	38.752		
6,100.00	5,606.53	5,898.25	5,830.95	27.93	21.23	-179.71	-510.92	279.61	1,633.86	1,591.83	42.03	38.870		
6,200.00	5,699.44	5,992.72	5,924.57	28.39	21.59	-179.76	-522.60	284.43	1,658.12	1,615.39	42.73	38.803		
6,300.00	5,793.87	6,090.88	6,021.74	28.84	21.95	-179.84	-535.84	288.85	1,677.40	1,633.95	43.45	38.605		
6,400.00	5,889.65	6,176.70	6,106.82	29.25	22.27	-179.91	-546.50	292.27	1,693.54	1,649.45	44.09	38.414		
6,500.00	5,986.59	6,294.13	6,223.15	29.65	22.71	-179.99	-561.75	297.24	1,704.76	1,659.85	44.92	37.953		
6,600.00	6,084.50	6,387.77	6,315.86	30.02	23.06	179.91	-574.42	301.06	1,711.27	1,665.68	45.59	37.533		
6,700.00	6,183.21	6,507.64	6,434.54	30.37	23.51	179.80	-590.43	305.98	1,713.63	1,667.20	46.43	36.912		
6,800.00	6,282.52	6,590.92	6,516.94	30.70	23.82	179.74	-601.89	309.92	1,710.92	1,663.90	47.02	36.384		
6,900.00	6,382.25	6,667.32	6,592.67	31.01	24.11	179.68	-611.50	313.06	1,705.18	1,657.62	47.57	35.848		
7,000.00	6,482.19	6,773.77	6,698.30	31.29	24.51	179.59	-624.12	316.74	1,696.08	1,647.78	48.29	35.119		
7,017.81	6,500.00	6,799.26	6,723.56	31.34	24.60	-28.34	-627.38	317.66	1,693.83	1,645.37	48.46	34.951		
7,096.37	6,578.56	6,880.73	6,804.27	31.52	24.90	-28.42	-638.05	320.76	1,683.35	1,634.36	49.00	34.356		
7,100.00	6,582.19	6,884.44	6,807.94	31.53	24.92	60.80	-638.54	320.90	1,682.86	1,633.84	49.02	34.329		
7,125.00	6,607.18	6,908.82	6,832.10	31.59	25.01	61.20	-641.73	321.88	1,679.10	1,629.92	49.18	34.141		
7,150.00	6,632.08	6,931.89	6,854.95	31.65	25.10	61.71	-644.69	322.89	1,674.73	1,625.40	49.33	33.949		
7,175.00	6,656.84	6,954.75	6,877.61	31.70	25.18	62.33	-647.54	323.98	1,669.78	1,620.30	49.48	33.748		
7,200.00	6,681.38	6,977.32	6,899.98	31.75	25.27	63.06	-650.29	325.14	1,664.26	1,614.64	49.62	33.540		
7,225.00	6,705.64	6,992.99	6,915.51	31.80	25.32	63.84	-652.16	326.00	1,658.22	1,608.50	49.72	33.354		
7,250.00	6,729.56	7,017.44	6,939.76	31.85	25.41	64.80	-655.00	327.39	1,651.66	1,601.80	49.87	33.122		
7,275.00	6,753.06	7,035.86	6,958.03	31.90	25.48	65.80	-657.05	328.46	1,644.68	1,594.70	49.98	32.909		
7,300.00	6,776.08	7,053.83	6,975.87	31.94	25.55	66.89	-659.00	329.52	1,637.28	1,587.19	50.08	32.692		
7,325.00	6,798.56	7,071.31	6,993.22	31.98	25.61	68.09	-660.84	330.56	1,629.49	1,579.31	50.18	32.471		
7,350.00	6,820.43	7,088.77	7,010.56	32.02	25.68	69.33	-662.62	331.62	1,621.37	1,571.08	50.28	32.245		
7,375.00	6,841.65	7,112.05	7,033.67	32.05	25.77	70.79	-664.99	333.04	1,612.89	1,562.46	50.42	31.987		
7,400.00	6,862.14	7,134.43	7,055.89	32.08	25.85	72.34	-667.32	334.38	1,604.06	1,553.50	50.56	31.727		
7,425.00	6,881.85	7,155.86	7,077.16	32.11	25.93	73.95	-669.60	335.65	1,594.94	1,544.26	50.69	31.466		
7,450.00	6,900.74	7,176.29	7,097.43	32.13	26.00	75.63	-671.82	336.85	1,585.59	1,534.78	50.81	31.205		
7,475.00	6,918.74	7,194.22	7,115.22	32.15	26.07	77.32	-673.79	337.90	1,576.06	1,525.14	50.92	30.949		
7,500.00	6,935.81	7,210.63	7,131.50	32.17	26.13	79.01	-675.60	338.88	1,566.43	1,515.40	51.03	30.697		
7,525.00	6,951.90	7,225.93	7,146.68	32.19	26.19	80.72	-677.28	339.81	1,556.76	1,505.63	51.13	30.447		
7,550.00	6,966.96	7,240.08	7,160.72	32.20	26.24	82.42	-678.84	340.68	1,547.09	1,495.86	51.23	30.200		
7,575.00	6,980.96	7,253.05	7,173.59	32.21	26.29	84.10	-680.27	341.49	1,537.50	1,486.17	51.32	29.957		
7,600.00	6,993.86	7,264.80	7,185.25	32.22	26.33	85.73	-681.56	342.24	1,528.03	1,476.61	51.42	29.718		
7,625.00	7,005.62	7,275.32	7,195.67	32.22	26.37	87.31	-682.71	342.92	1,518.74	1,467.23	51.51	29.484		
7,650.00	7,016.21	7,275.99	7,196.34	32.22	26.37	88.50	-682.78	342.96	1,509.72	1,458.18	51.54	29.291		
7,675.00	7,025.60	7,289.43	7,209.67	32.22	26.42	90.13	-684.24	343.84	1,500.95	1,449.28	51.67	29.049		
7,700.00	7,033.77	7,294.86	7,215.06	32.22	26.44	91.41	-684.83	344.19	1,492.54	1,440.79	51.75	28.842		
7,725.00	7,040.68	7,299.24	7,219.41	32.21	26.46	92.60	-685.29	344.48	1,484.52	1,432.69	51.83	28.642		
7,750.00	7,046.33	7,302.55	7,222.69	32.21	26.47	93.69	-685.64	344.70	1,476.92	1,425.01	51.91	28.451		
7,775.00	7,050.70	7,304.79	7,224.91	32.20	26.48	94.67	-685.88	344.84	1,469.78	1,417.79	51.99	28.269		
7,800.00	7,053.77	7,305.94	7,226.05	32.18	26.48	95.54	-686.00	344.92	1,463.13	1,411.06	52.07	28.098		

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	OH	Database:	Fhartmann
Reference Design:	Plan #1	Offset TVD Reference:	Reference Datum

Offset Design: Camacho 25 26 Offsets - Palmillo 29-30 377H - OH - OH												Offset Site Error:	0.00 usft
Survey Program: 25-SuperiorQC MWD+IFR1+SAG+FDIR												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,825.00	7,055.55	7,306.01	7,226.12	32.17	26.48	96.30	-686.01	344.92	1,457.01	1,404.85	52.15	27.937	
7,851.16	7,056.00	7,304.93	7,225.05	32.16	26.48	96.97	-685.89	344.85	1,451.18	1,398.94	52.24	27.780	
7,900.00	7,055.51	7,301.80	7,221.95	32.13	26.47	96.84	-685.56	344.65	1,441.66	1,389.25	52.41	27.509	
8,000.00	7,054.51	7,295.42	7,215.62	32.08	26.45	96.59	-684.89	344.23	1,427.16	1,374.35	52.81	27.022	
8,100.00	7,053.50	7,289.07	7,209.31	32.04	26.42	96.33	-684.20	343.81	1,419.55	1,366.26	53.29	26.637	
8,158.95	7,052.91	7,285.33	7,205.61	32.02	26.41	96.18	-683.80	343.57	1,418.33	1,364.72	53.61	26.458	
8,200.00	7,052.50	7,275.99	7,196.34	32.01	26.37	95.80	-682.78	342.96	1,418.94	1,365.16	53.78	26.385	
8,300.00	7,051.49	7,275.99	7,196.34	31.99	26.37	95.80	-682.78	342.96	1,425.30	1,370.90	54.40	26.202	
8,400.00	7,050.49	7,269.06	7,189.47	31.97	26.35	95.53	-682.02	342.52	1,438.57	1,383.59	54.98	26.165 SF	
8,500.00	7,049.49	7,261.72	7,182.18	31.97	26.32	95.23	-681.22	342.05	1,458.56	1,403.00	55.56	26.250	
8,600.00	7,048.48	7,254.47	7,174.99	31.98	26.29	94.94	-680.42	341.58	1,484.99	1,428.86	56.13	26.456	
8,700.00	7,047.48	7,247.32	7,167.90	32.01	26.27	94.65	-679.64	341.13	1,517.53	1,460.86	56.67	26.780	
8,800.00	7,046.47	7,240.27	7,160.90	32.06	26.24	94.37	-678.86	340.69	1,555.79	1,498.62	57.17	27.216	
8,900.00	7,045.47	7,233.30	7,154.00	32.14	26.22	94.09	-678.10	340.26	1,599.36	1,541.74	57.62	27.757	
9,000.00	7,044.46	7,226.44	7,147.18	32.27	26.19	93.81	-677.34	339.84	1,647.83	1,589.80	58.03	28.398	
9,100.00	7,043.46	7,219.66	7,140.46	32.46	26.16	93.54	-676.60	339.42	1,700.77	1,642.39	58.39	29.130	
9,200.00	7,042.46	7,212.96	7,133.82	32.72	26.14	93.27	-675.86	339.02	1,757.79	1,699.09	58.70	29.945	
9,300.00	7,041.45	7,206.36	7,127.27	33.08	26.12	93.00	-675.13	338.62	1,818.49	1,759.52	58.97	30.836	
9,400.00	7,040.45	7,199.84	7,120.80	33.53	26.09	92.74	-674.41	338.23	1,882.52	1,823.32	59.21	31.797	
9,500.00	7,039.44	7,193.40	7,114.41	34.06	26.07	92.48	-673.71	337.85	1,949.56	1,890.16	59.40	32.819	
9,600.00	7,038.44	7,189.31	7,110.35	34.66	26.05	92.32	-673.26	337.60	2,019.31	1,959.73	59.58	33.892	
9,700.00	7,037.44	7,180.69	7,101.80	35.31	26.02	91.97	-672.30	337.10	2,091.49	2,031.78	59.71	35.027	
9,800.00	7,036.43	7,172.00	7,093.17	36.00	25.99	91.62	-671.35	336.60	2,165.86	2,106.04	59.82	36.208	
9,900.00	7,035.43	7,163.24	7,084.49	36.72	25.96	91.27	-670.40	336.08	2,242.20	2,182.29	59.90	37.429	
10,000.00	7,034.42	7,154.42	7,075.73	37.48	25.92	90.92	-669.45	335.56	2,320.31	2,260.33	59.97	38.688	
10,100.00	7,033.42	7,145.54	7,066.92	38.25	25.89	90.57	-668.49	335.04	2,400.02	2,339.99	60.03	39.981	
10,200.00	7,032.42	7,136.59	7,058.03	39.05	25.86	90.21	-667.55	334.51	2,481.17	2,421.10	60.07	41.303	

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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	
Measured Depth	Reference	Offset	Semi Major Axis				Offset Wellbore Centre		Distance				Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	15.70	0.00	0.00	177.72	-2,028.50	80.80	2,030.17					
100.00	100.00	80.40	96.10	0.25	0.19	177.72	-2,028.55	80.91	2,030.16	2,029.72	0.44	4,562.746		
171.02	171.02	155.32	171.02	0.51	0.46	177.71	-2,028.49	81.08	2,030.11	2,029.15	0.96	2,110.004		
200.00	200.00	177.45	193.15	0.61	0.53	177.71	-2,028.55	81.18	2,030.19	2,029.05	1.14	1,774.802		
300.00	300.00	283.88	299.57	0.97	0.91	177.70	-2,028.71	81.34	2,030.34	2,028.47	1.87	1,083.759		
400.00	400.00	372.61	388.30	1.33	1.21	177.71	-2,029.07	81.08	2,030.73	2,028.19	2.54	799.896		
500.00	500.00	469.85	485.53	1.68	1.55	177.74	-2,029.84	80.15	2,031.47	2,028.23	3.24	627.677		
600.00	600.00	572.07	587.75	2.04	1.91	177.74	-2,030.52	80.01	2,032.14	2,028.18	3.96	513.548		
700.00	699.97	673.25	688.93	2.39	2.27	25.69	-2,031.08	80.05	2,030.72	2,026.06	4.66	435.829		
800.00	799.75	771.86	787.54	2.72	2.63	25.83	-2,031.64	80.00	2,025.39	2,020.05	5.35	378.837		
900.00	899.14	868.48	884.15	3.07	2.97	26.06	-2,032.28	79.98	2,016.25	2,010.22	6.03	334.196		
1,000.00	997.97	975.73	991.40	3.41	3.35	26.38	-2,032.93	81.21	2,003.23	1,996.47	6.76	296.389		
1,100.00	1,096.04	1,085.60	1,101.14	3.76	3.73	26.71	-2,032.78	86.38	1,985.72	1,978.23	7.49	265.126		
1,200.00	1,193.17	1,186.10	1,201.49	4.12	4.08	27.12	-2,032.27	91.78	1,964.05	1,955.86	8.19	239.840		
1,300.00	1,289.17	1,264.20	1,279.46	4.50	4.36	27.58	-2,032.15	96.44	1,939.00	1,930.19	8.81	220.016		
1,400.00	1,383.85	1,358.47	1,373.46	4.89	4.69	28.15	-2,032.61	103.52	1,910.88	1,901.39	9.50	201.233		
1,500.00	1,477.05	1,468.87	1,483.35	5.29	5.08	28.83	-2,032.59	113.98	1,878.70	1,868.47	10.24	183.553		
1,600.00	1,568.57	1,567.04	1,580.90	5.71	5.43	29.58	-2,031.91	124.99	1,842.35	1,831.42	10.93	168.524		
1,649.79	1,613.46	1,610.02	1,623.59	5.93	5.58	29.99	-2,031.58	130.04	1,822.93	1,811.67	11.26	161.849		
1,700.00	1,658.50	1,652.98	1,666.20	6.15	5.73	30.13	-2,031.33	135.41	1,802.99	1,791.40	11.59	155.567		
1,800.00	1,748.19	1,743.99	1,756.42	6.59	6.06	30.43	-2,030.87	147.36	1,763.41	1,751.15	12.26	143.848		
1,900.00	1,837.88	1,839.42	1,850.99	7.05	6.40	30.74	-2,030.29	160.11	1,723.78	1,710.83	12.95	133.126		
2,000.00	1,927.57	1,935.72	1,946.40	7.51	6.74	31.07	-2,029.45	173.20	1,683.93	1,670.29	13.65	123.401		
2,100.00	2,017.26	2,026.09	2,035.88	7.98	7.07	31.38	-2,028.52	185.81	1,644.00	1,629.67	14.33	114.718		
2,200.00	2,106.95	2,119.53	2,128.36	8.46	7.41	31.71	-2,027.58	199.13	1,604.12	1,589.09	15.03	106.732		
2,300.00	2,196.64	2,213.34	2,221.17	8.93	7.75	32.04	-2,026.48	212.78	1,564.12	1,548.39	15.73	99.414		
2,400.00	2,286.34	2,293.79	2,300.74	9.41	8.04	32.33	-2,025.68	224.61	1,524.34	1,507.93	16.41	92.909		
2,500.00	2,376.03	2,373.43	2,379.60	9.90	8.33	32.66	-2,025.58	235.75	1,485.41	1,468.33	17.08	86.945		
2,600.00	2,465.72	2,460.29	2,465.77	10.39	8.65	33.09	-2,025.98	246.58	1,447.13	1,429.35	17.79	81.359		
2,700.00	2,555.41	2,560.01	2,564.96	10.87	9.01	33.71	-2,026.23	256.88	1,408.85	1,390.33	18.53	76.049		
2,800.00	2,645.10	2,653.42	2,658.05	11.36	9.35	34.41	-2,025.67	264.50	1,370.04	1,350.78	19.25	71.157		
2,900.00	2,734.79	2,732.48	2,736.95	11.86	9.63	35.10	-2,025.55	269.54	1,331.93	1,311.97	19.96	66.737		
3,000.00	2,824.48	2,810.66	2,815.07	12.35	9.91	35.90	-2,026.08	272.69	1,295.00	1,274.33	20.67	62.651		
3,100.00	2,914.18	2,907.63	2,912.02	12.85	10.25	37.06	-2,026.61	274.05	1,258.54	1,237.10	21.43	58.725		
3,200.00	3,003.87	2,996.30	3,000.68	13.34	10.56	38.25	-2,026.79	273.94	1,222.38	1,200.20	22.18	55.121		
3,300.00	3,093.56	3,085.01	3,089.40	13.84	10.85	39.53	-2,026.99	273.42	1,186.84	1,163.92	22.92	51.771		
3,400.00	3,183.25	3,172.83	3,177.21	14.34	11.14	40.87	-2,027.25	272.68	1,152.02	1,128.34	23.69	48.638		
3,500.00	3,272.94	3,262.44	3,266.82	14.84	11.44	42.32	-2,027.59	271.82	1,117.96	1,093.50	24.46	45.698		
3,600.00	3,362.63	3,351.45	3,355.82	15.33	11.74	43.85	-2,027.93	270.96	1,084.66	1,059.40	25.26	42.946		
3,700.00	3,452.32	3,441.76	3,446.13	15.83	12.04	45.49	-2,028.26	270.00	1,052.17	1,026.10	26.07	40.365		
3,800.00	3,542.01	3,530.38	3,534.74	16.34	12.34	47.18	-2,028.59	269.08	1,020.58	993.69	26.89	37.952		
3,900.00	3,631.71	3,623.38	3,627.74	16.84	12.66	49.06	-2,028.89	268.10	989.93	962.19	27.74	35.687		
4,000.00	3,721.40	3,715.77	3,720.12	17.34	12.97	51.04	-2,028.85	267.30	959.99	931.39	28.60	33.563		
4,100.00	3,811.09	3,804.98	3,809.33	17.84	13.27	53.04	-2,028.74	266.72	931.09	901.62	29.48	31.584		
4,200.00	3,900.78	3,896.21	3,900.56	18.34	13.58	55.21	-2,028.59	265.99	903.50	873.12	30.38	29.742		
4,300.00	3,990.47	3,986.14	3,990.49	18.85	13.89	57.45	-2,028.33	265.55	877.08	845.79	31.29	28.029		
4,400.00	4,080.16	4,075.89	4,080.24	19.35	14.19	59.80	-2,028.12	265.07	852.25	820.03	32.22	26.450		
4,500.00	4,169.85	4,165.51	4,169.86	19.85	14.50	62.25	-2,027.90	264.79	828.97	795.80	33.17	24.995		
4,600.00	4,259.55	4,254.06	4,258.40	20.36	14.80	64.79	-2,027.77	264.46	807.58	773.46	34.12	23.669		
4,700.00	4,349.24	4,343.84	4,348.18	20.86	15.11	67.48	-2,027.61	263.98	788.19	753.10	35.09	22.465		
4,800.00	4,438.93	4,434.56	4,438.90	21.37	15.43	70.30	-2,027.38	263.61	770.77	734.71	36.06	21.376		
4,900.00	4,528.62	4,525.11	4,529.45	21.87	15.74	73.20	-2,027.27	263.54	755.46	718.43	37.03	20.402		

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,000.00	4,618.31	4,616.20	4,620.55	22.38	16.06	76.19	-2,027.21	263.73	742.33	704.34	38.00	19.537	
5,100.00	4,708.00	4,708.33	4,712.67	22.88	16.38	79.29	-2,027.12	264.20	731.43	692.47	38.95	18.777	
5,200.00	4,797.69	4,802.58	4,806.91	23.39	16.71	82.54	-2,026.69	265.00	722.61	682.71	39.90	18.111	
5,300.00	4,887.38	4,897.29	4,901.61	23.89	17.04	85.87	-2,025.73	266.22	715.81	674.99	40.82	17.536	
5,400.00	4,977.08	4,991.24	4,995.54	24.40	17.37	89.24	-2,024.21	267.83	711.14	669.43	41.71	17.051	
5,500.00	5,066.77	5,080.83	5,085.09	24.91	17.69	92.50	-2,022.31	269.67	708.82	666.28	42.54	16.661	
5,515.07	5,080.28	5,091.92	5,096.17	24.98	17.73	92.91	-2,022.10	269.86	708.77	666.11	42.66	16.615	
5,600.00	5,156.46	5,154.60	5,158.85	25.41	17.95	95.17	-2,021.39	270.42	710.50	667.23	43.27	16.421	
5,700.00	5,246.15	5,244.10	5,248.34	25.92	18.26	98.36	-2,021.00	270.47	716.05	672.04	44.01	16.271	
5,800.00	5,335.84	5,334.64	5,338.89	26.43	18.57	101.55	-2,020.28	270.61	724.13	679.42	44.71	16.197	
5,900.00	5,425.53	5,426.57	5,430.80	26.93	18.90	104.75	-2,019.18	270.87	734.67	689.30	45.37	16.192	
5,968.02	5,486.54	5,486.82	5,491.05	27.28	19.11	106.81	-2,018.32	271.15	743.18	697.39	45.79	16.230	
6,000.00	5,515.32	5,514.65	5,518.87	27.44	19.20	107.84	-2,017.91	271.23	747.56	701.59	45.98	16.260	
6,100.00	5,606.53	5,606.63	5,610.84	27.93	19.53	111.01	-2,016.50	271.48	761.85	715.28	46.56	16.362	
6,200.00	5,699.44	5,698.73	5,702.94	28.39	19.85	113.81	-2,015.16	271.91	776.24	729.12	47.12	16.472	
6,300.00	5,793.87	5,794.48	5,798.68	28.84	20.19	116.29	-2,014.31	272.32	790.36	742.66	47.70	16.570	
6,400.00	5,889.65	5,895.12	5,899.31	29.25	20.54	118.48	-2,013.69	273.20	803.13	754.83	48.30	16.627	
6,500.00	5,986.59	5,999.49	6,003.67	29.65	20.91	120.30	-2,013.76	274.91	813.79	764.86	48.93	16.631	
6,600.00	6,084.50	6,099.54	6,103.68	30.02	21.26	121.79	-2,012.72	277.25	822.11	772.58	49.53	16.599	
6,700.00	6,183.21	6,199.77	6,203.86	30.37	21.62	123.02	-2,010.59	279.85	828.32	778.21	50.12	16.528	
6,800.00	6,282.52	6,288.39	6,292.43	30.70	21.93	123.85	-2,008.77	281.71	832.89	782.26	50.63	16.451	
6,900.00	6,382.25	6,379.52	6,383.56	31.01	22.25	124.35	-2,008.06	282.38	836.35	785.18	51.17	16.345	
7,000.00	6,482.19	6,480.55	6,484.60	31.29	22.60	124.55	-2,008.08	282.50	837.90	786.10	51.80	16.176	
7,017.81	6,500.00	6,499.22	6,503.26	31.34	22.66	-83.35	-2,008.07	282.56	837.88	785.96	51.92	16.139	
7,096.37	6,578.56	6,583.35	6,587.38	31.52	22.96	-83.32	-2,007.68	283.22	837.31	784.88	52.43	15.970	
7,100.00	6,582.19	6,587.24	6,591.27	31.53	22.98	5.86	-2,007.65	283.27	837.26	784.81	52.45	15.962	
7,125.00	6,607.18	6,608.98	6,613.02	31.59	23.05	5.89	-2,007.54	283.47	836.20	783.63	52.58	15.905	
7,150.00	6,632.08	6,631.05	6,635.09	31.65	23.13	5.93	-2,007.58	283.58	833.93	781.23	52.70	15.824	
7,175.00	6,656.84	6,653.01	6,657.04	31.70	23.20	5.98	-2,007.75	283.60	830.45	777.63	52.82	15.721	
7,200.00	6,681.38	6,679.99	6,684.02	31.75	23.30	6.05	-2,008.15	283.51	825.79	772.80	52.99	15.584	
7,225.00	6,705.64	6,699.10	6,703.13	31.80	23.36	6.14	-2,008.51	283.40	819.87	766.78	53.08	15.445	
7,250.00	6,729.56	6,723.89	6,727.91	31.85	23.45	6.26	-2,008.97	283.28	812.68	759.46	53.23	15.268	
7,275.00	6,753.06	6,748.24	6,752.26	31.90	23.53	6.42	-2,009.41	283.19	804.24	750.88	53.37	15.070	
7,300.00	6,776.08	6,772.09	6,776.10	31.94	23.61	6.61	-2,009.84	283.13	794.57	741.07	53.50	14.852	
7,325.00	6,798.56	6,796.14	6,800.15	31.98	23.70	6.84	-2,010.28	283.10	783.67	730.04	53.63	14.612	
7,350.00	6,820.43	6,819.62	6,823.62	32.02	23.78	7.12	-2,010.74	283.11	771.58	717.82	53.76	14.352	
7,375.00	6,841.65	6,842.32	6,846.32	32.05	23.86	7.45	-2,011.22	283.17	758.32	704.44	53.88	14.074	
7,400.00	6,862.14	6,864.19	6,868.19	32.08	23.93	7.84	-2,011.71	283.27	743.95	689.95	54.00	13.778	
7,425.00	6,881.85	6,882.12	6,886.12	32.11	23.99	8.29	-2,012.10	283.36	728.52	674.45	54.07	13.473	
7,450.00	6,900.74	6,898.25	6,902.24	32.13	24.05	8.81	-2,012.36	283.39	712.17	658.04	54.13	13.156	
7,475.00	6,918.74	6,913.71	6,917.70	32.15	24.10	9.44	-2,012.54	283.37	694.94	640.75	54.19	12.825	
7,500.00	6,935.81	6,928.47	6,932.46	32.17	24.15	10.18	-2,012.63	283.31	676.86	622.63	54.23	12.481	
7,525.00	6,951.90	6,942.48	6,946.46	32.19	24.20	11.08	-2,012.64	283.22	657.97	603.71	54.27	12.125	
7,550.00	6,966.96	6,955.70	6,959.68	32.20	24.25	12.15	-2,012.60	283.09	638.33	584.03	54.30	11.757	
7,575.00	6,980.96	6,969.26	6,973.24	32.21	24.30	13.49	-2,012.50	282.93	617.97	563.64	54.33	11.375	
7,600.00	6,993.86	6,983.92	6,987.90	32.22	24.35	15.21	-2,012.40	282.78	596.89	542.52	54.38	10.977	
7,625.00	7,005.62	6,997.21	7,001.19	32.22	24.39	17.36	-2,012.31	282.68	575.15	520.74	54.41	10.570	
7,650.00	7,016.21	7,009.10	7,013.08	32.22	24.43	20.06	-2,012.25	282.61	552.81	498.37	54.44	10.155	
7,675.00	7,025.60	7,019.57	7,023.56	32.22	24.47	23.53	-2,012.21	282.56	529.95	475.50	54.45	9.732	
7,700.00	7,033.77	7,028.62	7,032.60	32.22	24.50	28.04	-2,012.17	282.54	506.64	452.19	54.45	9.304	
7,725.00	7,040.68	7,036.22	7,040.20	32.21	24.53	33.98	-2,012.15	282.53	482.96	428.51	54.44	8.871	
7,750.00	7,046.33	7,042.38	7,046.36	32.21	24.55	41.82	-2,012.14	282.53	458.97	404.55	54.42	8.434	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
7,775.00	7,050.70	7,047.10	7,051.08	32.20	24.57	52.03	-2,012.13	282.54	434.76	380.38	54.39	7.994		
7,800.00	7,053.77	7,050.38	7,054.36	32.18	24.58	64.63	-2,012.12	282.54	410.41	356.08	54.34	7.553		
7,825.00	7,055.55	7,052.23	7,056.21	32.17	24.59	78.68	-2,012.12	282.54	386.00	331.73	54.27	7.112		
7,851.16	7,056.00	7,052.66	7,056.64	32.16	24.59	92.94	-2,012.12	282.54	360.47	306.28	54.19	6.652		
7,900.00	7,055.51	7,052.03	7,056.01	32.13	24.58	92.50	-2,012.12	282.54	313.08	259.09	53.99	5.799		
8,000.00	7,054.51	7,050.77	7,054.75	32.08	24.58	91.61	-2,012.12	282.54	218.03	164.74	53.29	4.091		
8,100.00	7,053.50	7,049.56	7,053.54	32.04	24.58	90.75	-2,012.12	282.54	130.60	78.85	51.75	2.524		
8,200.00	7,052.50	7,048.38	7,052.36	32.01	24.57	89.92	-2,012.13	282.54	81.06	29.13	51.93	1.561	Collision Risk Procedures Req.	
8,204.45	7,052.45	7,048.33	7,052.31	32.01	24.57	89.89	-2,012.13	282.54	81.05	28.84	52.21	1.552	Collision Risk Procedures Req., CC, E	
8,300.00	7,051.49	7,047.24	7,051.23	31.99	24.57	89.12	-2,012.13	282.54	126.82	70.55	56.27	2.254		
8,400.00	7,050.49	7,046.14	7,050.13	31.97	24.56	88.34	-2,012.13	282.53	213.52	157.09	56.44	3.783		
8,500.00	7,049.49	7,045.08	7,049.06	31.97	24.56	87.59	-2,012.13	282.53	308.38	252.15	56.23	5.484		
8,600.00	7,048.48	7,044.05	7,048.03	31.98	24.56	86.86	-2,012.13	282.53	405.72	349.66	56.06	7.237		
8,700.00	7,047.48	7,043.04	7,047.03	32.01	24.55	86.15	-2,012.14	282.53	504.09	448.15	55.94	9.012		
8,800.00	7,046.47	7,042.07	7,046.06	32.06	24.55	85.47	-2,012.14	282.53	603.00	547.15	55.85	10.797		
8,900.00	7,045.47	7,041.13	7,045.11	32.14	24.55	84.81	-2,012.14	282.53	702.22	646.44	55.78	12.589		
9,000.00	7,044.46	7,040.22	7,044.20	32.27	24.54	84.17	-2,012.14	282.53	801.63	745.90	55.73	14.385		
9,100.00	7,043.46	7,039.33	7,043.31	32.46	24.54	83.55	-2,012.14	282.53	901.17	845.48	55.69	16.183		
9,200.00	7,042.46	7,038.47	7,042.45	32.72	24.54	82.95	-2,012.15	282.53	1,000.80	945.14	55.66	17.982		
9,300.00	7,041.45	7,037.63	7,041.61	33.08	24.53	82.36	-2,012.15	282.53	1,100.49	1,044.86	55.63	19.783		
9,400.00	7,040.45	7,036.81	7,040.80	33.53	24.53	81.80	-2,012.15	282.53	1,200.24	1,144.63	55.61	21.583		
9,500.00	7,039.44	7,036.02	7,040.00	34.06	24.53	81.25	-2,012.15	282.53	1,300.02	1,244.43	55.59	23.384		
9,600.00	7,038.44	7,035.25	7,039.23	34.66	24.53	80.72	-2,012.16	282.53	1,399.84	1,344.26	55.58	25.185		
9,700.00	7,037.44	7,034.50	7,038.48	35.31	24.52	80.20	-2,012.16	282.53	1,499.68	1,444.11	55.57	26.986		
9,800.00	7,036.43	7,033.77	7,037.75	36.00	24.52	79.70	-2,012.16	282.53	1,599.54	1,543.97	55.57	28.786		
9,900.00	7,035.43	7,033.05	7,037.04	36.72	24.52	79.21	-2,012.16	282.53	1,699.41	1,643.85	55.56	30.586		
10,000.00	7,034.42	7,032.36	7,036.34	37.48	24.52	78.74	-2,012.16	282.53	1,799.30	1,743.74	55.56	32.385		
10,100.00	7,033.42	7,031.68	7,035.67	38.25	24.51	78.28	-2,012.17	282.54	1,899.20	1,843.64	55.56	34.183		
10,200.00	7,032.42	7,031.02	7,035.01	39.05	24.51	77.83	-2,012.17	282.54	1,999.11	1,943.55	55.56	35.980		
10,300.00	7,031.41	7,030.38	7,034.36	39.87	24.51	77.39	-2,012.17	282.54	2,099.03	2,043.46	55.57	37.776		
10,400.00	7,030.41	7,029.75	7,033.73	40.70	24.51	76.97	-2,012.17	282.54	2,198.95	2,143.38	55.57	39.570		
10,500.00	7,029.40	7,029.14	7,033.12	41.55	24.50	76.56	-2,012.17	282.54	2,298.89	2,243.31	55.58	41.364		
10,600.00	7,028.40	7,028.54	7,032.52	42.42	24.50	76.16	-2,012.18	282.54	2,398.82	2,343.24	55.58	43.156		
10,700.00	7,027.40	7,027.96	7,031.94	43.29	24.50	75.77	-2,012.18	282.54	2,498.77	2,443.17	55.59	44.947		

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
12,300.00	7,011.33	6,959.41	7,015.68	58.53	141.72	95.10	-1,677.97	-6,237.70	2,448.22	2,273.93	174.29	14.047		
12,400.00	7,010.33	6,958.35	7,014.62	59.54	141.70	94.92	-1,677.96	-6,237.70	2,349.13	2,174.71	174.42	13.468		
12,500.00	7,009.32	6,957.29	7,013.56	60.55	141.67	94.73	-1,677.95	-6,237.70	2,250.12	2,075.55	174.57	12.890		
12,600.00	7,008.32	6,956.23	7,012.50	61.56	141.65	94.54	-1,677.93	-6,237.70	2,151.20	1,976.46	174.74	12.311		
12,700.00	7,007.31	6,955.17	7,011.44	62.58	141.62	94.35	-1,677.92	-6,237.70	2,052.38	1,877.46	174.93	11.733		
12,800.00	7,006.31	6,954.11	7,010.38	63.60	141.60	94.16	-1,677.91	-6,237.70	1,953.69	1,778.54	175.15	11.155		
12,900.00	7,005.31	6,953.05	7,009.32	64.62	141.57	93.98	-1,677.90	-6,237.70	1,855.13	1,679.73	175.40	10.576		
13,000.00	7,004.30	6,951.99	7,008.26	65.65	141.55	93.79	-1,677.89	-6,237.70	1,756.74	1,581.04	175.70	9.999		
13,100.00	7,003.30	6,950.93	7,007.20	66.68	141.52	93.60	-1,677.87	-6,237.70	1,658.54	1,482.50	176.04	9.421		
13,200.00	7,002.29	6,949.87	7,006.14	67.71	141.50	93.41	-1,677.86	-6,237.70	1,560.57	1,384.12	176.45	8.844		
13,300.00	7,001.29	6,948.81	7,005.09	68.75	141.47	93.22	-1,677.85	-6,237.70	1,462.87	1,285.94	176.93	8.268		
13,400.00	7,000.29	6,947.76	7,004.03	69.79	141.45	93.04	-1,677.84	-6,237.70	1,365.50	1,187.99	177.51	7.692		
13,500.00	6,999.28	6,946.70	7,002.97	70.83	141.42	92.85	-1,677.83	-6,237.70	1,268.54	1,090.33	178.22	7.118		
13,600.00	6,998.28	6,945.64	7,001.91	71.88	141.40	92.66	-1,677.82	-6,237.70	1,172.10	993.01	179.08	6.545		
13,700.00	6,997.27	6,944.58	7,000.86	72.92	141.37	92.47	-1,677.80	-6,237.70	1,076.30	896.14	180.15	5.974		
13,800.00	6,996.27	6,943.53	6,999.80	73.97	141.35	92.28	-1,677.79	-6,237.70	981.33	799.84	181.50	5.407		
13,900.00	6,995.27	6,942.47	6,998.74	75.02	141.32	92.10	-1,677.78	-6,237.70	887.48	704.27	183.21	4.844		
14,000.00	6,994.26	6,941.42	6,997.69	76.08	141.30	91.91	-1,677.77	-6,237.70	795.12	609.70	185.42	4.288		
14,100.00	6,993.26	6,940.36	6,996.63	77.13	141.27	91.72	-1,677.76	-6,237.70	704.85	516.54	188.31	3.743		
14,200.00	6,992.25	6,939.30	6,995.58	78.19	141.25	91.53	-1,677.75	-6,237.70	617.58	425.46	192.12	3.215		
14,300.00	6,991.25	6,938.25	6,994.52	79.25	141.22	91.35	-1,677.74	-6,237.70	534.78	337.63	197.15	2.713		
14,400.00	6,990.25	6,937.20	6,993.47	80.31	141.20	91.16	-1,677.73	-6,237.70	458.89	255.20	203.69	2.253		
14,500.00	6,989.24	6,936.14	6,992.42	81.38	141.17	90.97	-1,677.72	-6,237.70	393.92	182.29	211.63	1.861	Collision Risk Procedures Req.	
14,600.00	6,988.24	6,935.09	6,991.36	82.44	141.15	90.78	-1,677.71	-6,237.70	346.06	126.39	219.67	1.575	Collision Risk Procedures Req.	
14,700.00	6,987.23	6,934.03	6,990.31	83.51	141.12	90.60	-1,677.70	-6,237.70	323.01	98.43	224.59	1.438	Collision Risk Procedures Req.	
14,727.09	6,986.96	6,933.75	6,990.02	83.80	141.12	90.54	-1,677.70	-6,237.70	321.88	96.97	224.90	1.431	Collision Risk Procedures Req., CC, E'	
14,800.00	6,986.23	6,932.98	6,989.26	84.58	141.10	90.41	-1,677.69	-6,237.70	330.03	106.73	223.30	1.478	Collision Risk Procedures Req.	
14,900.00	6,985.23	6,931.93	6,988.20	85.65	141.07	90.22	-1,677.68	-6,237.70	365.37	148.55	216.82	1.685	Collision Risk Procedures Req.	
15,000.00	6,984.22	6,930.87	6,987.15	86.72	141.05	90.03	-1,677.67	-6,237.70	421.99	213.21	208.78	2.021		
15,100.00	6,983.22	6,929.82	6,986.10	87.79	141.02	89.85	-1,677.66	-6,237.70	492.59	291.04	201.55	2.444		
15,200.00	6,982.21	6,928.77	6,985.05	88.86	141.00	89.66	-1,677.65	-6,237.70	572.03	376.23	195.80	2.922		
15,300.00	6,981.21	6,927.72	6,983.99	89.94	140.97	89.47	-1,677.64	-6,237.70	657.11	465.71	191.39	3.433		
15,400.00	6,980.21	6,926.67	6,982.94	91.01	140.95	89.29	-1,677.63	-6,237.70	745.89	557.84	188.06	3.966		
15,500.00	6,979.20	6,925.62	6,981.89	92.09	140.92	89.10	-1,677.62	-6,237.70	837.21	651.70	185.51	4.513		
15,600.00	6,978.20	6,924.57	6,980.84	93.17	140.90	88.91	-1,677.61	-6,237.70	930.31	746.76	183.55	5.068		
15,700.00	6,977.19	6,923.52	6,979.79	94.25	140.87	88.72	-1,677.60	-6,237.70	1,024.72	842.69	182.03	5.629		
15,800.00	6,976.19	6,922.47	6,978.74	95.33	140.85	88.54	-1,677.60	-6,237.70	1,120.09	939.27	180.82	6.194		
15,900.00	6,975.19	6,921.42	6,977.69	96.41	140.83	88.35	-1,677.59	-6,237.70	1,216.21	1,036.35	179.86	6.762		
16,000.00	6,974.18	6,920.37	6,976.64	97.50	140.80	88.16	-1,677.58	-6,237.70	1,312.90	1,133.82	179.08	7.331		
16,100.00	6,973.18	6,919.32	6,975.59	98.58	140.78	87.98	-1,677.57	-6,237.70	1,410.06	1,231.61	178.45	7.902		
16,200.00	6,972.17	6,918.27	6,974.55	99.67	140.75	87.79	-1,677.56	-6,237.70	1,507.59	1,329.66	177.93	8.473		
16,300.00	6,971.17	6,917.22	6,973.50	100.75	140.73	87.61	-1,677.55	-6,237.70	1,605.42	1,427.92	177.50	9.045		
16,400.00	6,970.16	6,916.17	6,972.45	101.84	140.70	87.42	-1,677.55	-6,237.70	1,703.50	1,526.36	177.14	9.617		
16,500.00	6,969.16	6,915.12	6,971.40	102.93	140.68	87.23	-1,677.54	-6,237.70	1,801.79	1,624.96	176.84	10.189		
16,600.00	6,968.16	6,914.08	6,970.36	104.01	140.65	87.05	-1,677.53	-6,237.70	1,900.26	1,723.68	176.58	10.761		
16,700.00	6,967.15	6,913.03	6,969.31	105.10	140.63	86.86	-1,677.52	-6,237.70	1,998.89	1,822.52	176.37	11.334		
16,800.00	6,966.15	6,911.98	6,968.26	106.19	140.60	86.68	-1,677.51	-6,237.70	2,097.64	1,921.45	176.18	11.906		
16,900.00	6,965.14	6,910.94	6,967.22	107.28	140.58	86.49	-1,677.51	-6,237.70	2,196.50	2,020.47	176.03	12.478		
17,000.00	6,964.14	6,909.89	6,966.17	108.38	140.55	86.31	-1,677.50	-6,237.70	2,295.46	2,119.57	175.90	13.050		
17,100.00	6,963.14	6,908.85	6,965.12	109.47	140.53	86.12	-1,677.49	-6,237.70	2,394.51	2,218.73	175.78	13.622		
17,200.00	6,962.13	6,907.80	6,964.08	110.56	140.50	85.94	-1,677.49	-6,237.70	2,493.63	2,317.94	175.69	14.193		

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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 204H

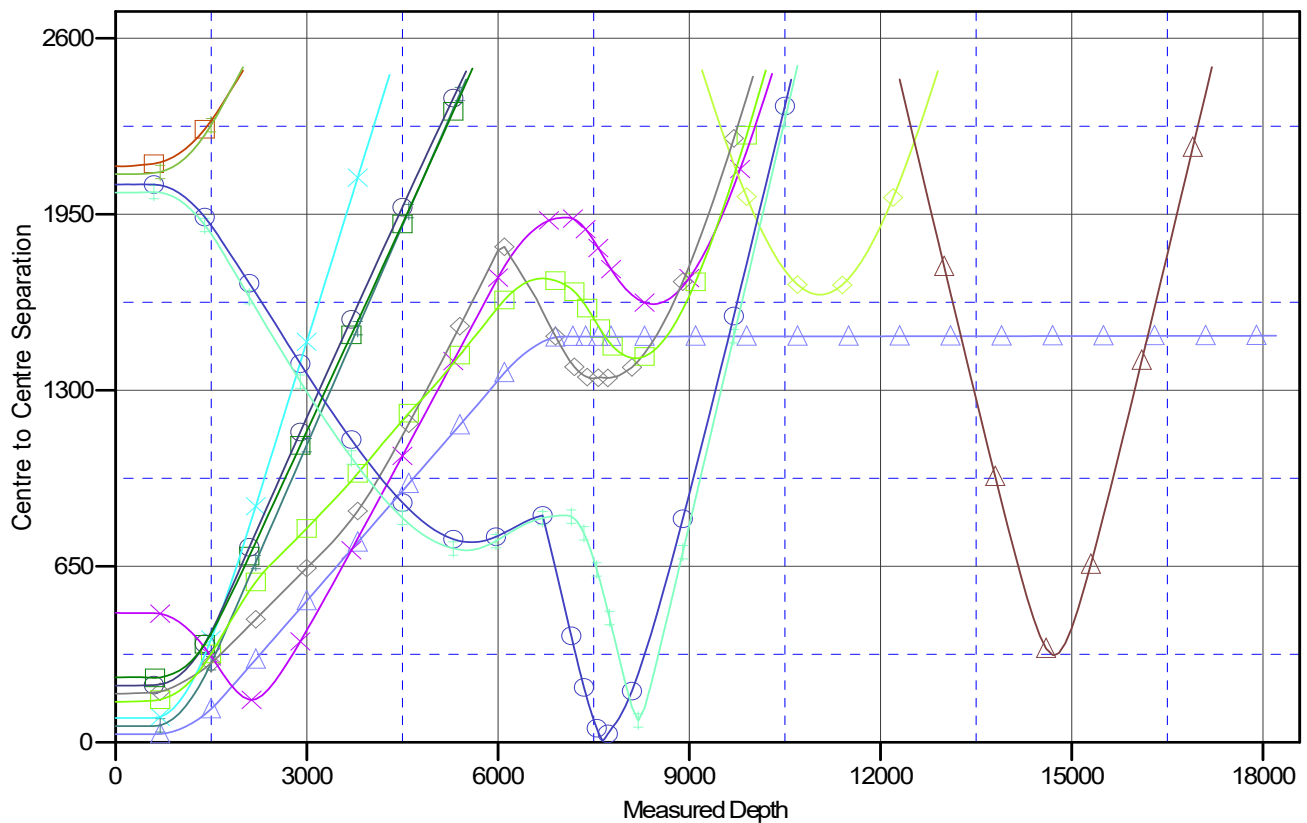
Offset Depths are relative to Offset Datum

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

Central Meridian is -104.333334

Grid Convergence at Surface is: 0.06°

Ladder Plot



LEGEND

Camacho 25-26 State Com 2024H.OH.Plan#1 V0	Palmbk29-30 271H.OH.OH V0	Palmbk29-30 376H.OH.OH V0
Camacho 25-26 State Com 2011H.OH.Plan#1 V0	Palmbk29-30 272H.OH.OH V0	Palmbk29-30 377H.OH.OH V0
Camacho 25-26 State Com 2034H.OH.Plan#1 V0	Palmbk29-30 273H.OH.OH V0	Palmbk29-30 378H.OH.OH V0
EDDYGL STATECOMR001.OH.OH V0	Palmbk29-30 274H.OH.OH V0	WHITEHORN 26STATECOMR001.OH.OH V0
LANEWOOD STATECOMR001.OH.OH V0	Palmbk29-30 375H.OH.OH V0	

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

Anticollision Report

Company:	Apache Corporation	Local Co-ordinate Reference:	Well Camacho 25-26 State Com 204H
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 204H	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

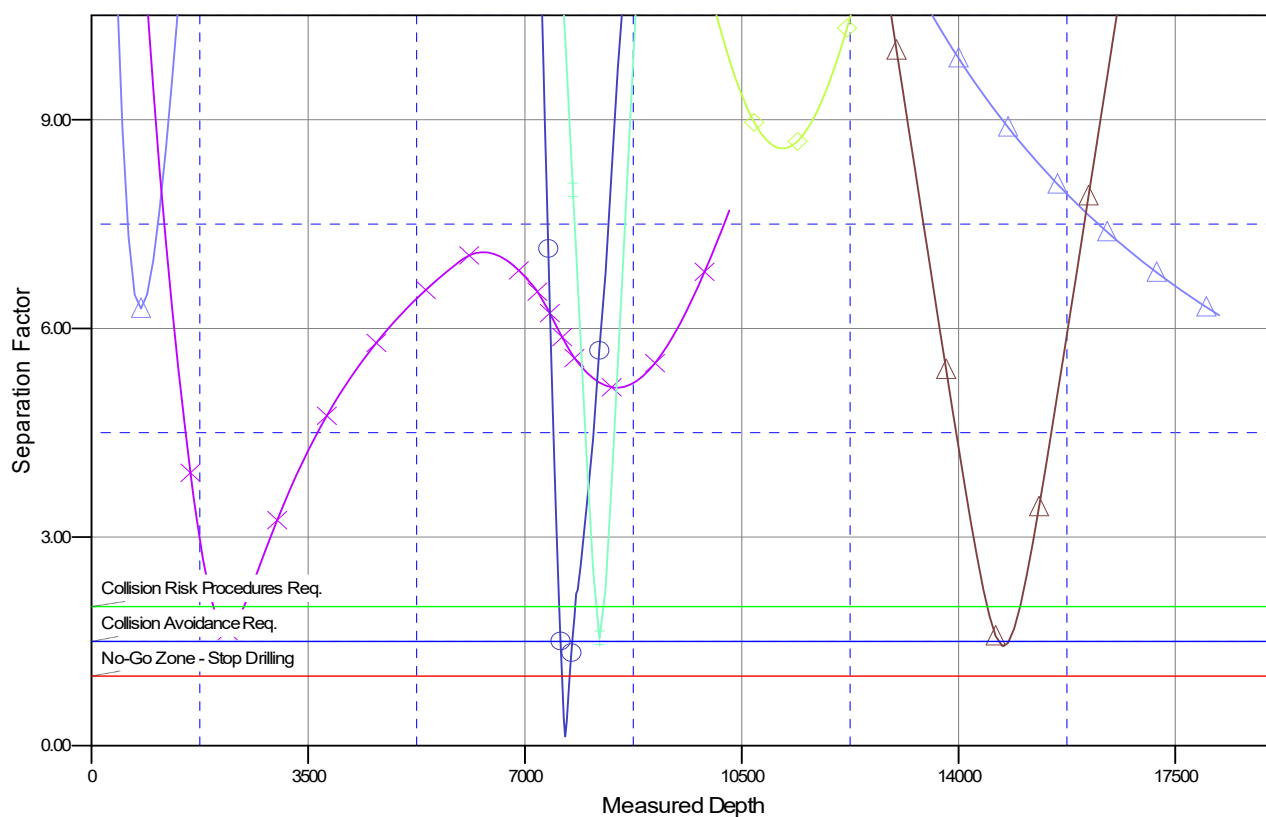
Central Meridian is -104.333334

Coordinates are relative to: Camacho 25-26 State Com 204H

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

Grid Convergence at Surface is: 0.06°

Separation Factor Plot



LEGEND

Camacho 25-26 State Com 202H, OH, Plan #1 V0	Palmk29-30 271H, OH, OH V0	Palmk29-30 376H, OH, OH V0
Camacho 25-26 State Com 201H, OH, Plan #1 V0	Palmk29-30 272H, OH, OH V0	Palmk29-30 377H, OH, OH V0
Camacho 25-26 State Com 203H, OH, Plan #1 V0	Palmk29-30 273H, OH, OH V0	Palmk29-30 378H, OH, OH V0
EDDYGL STATE COM #001, OH, OH V0	Palmk29-30 274H, OH, OH V0	WHITEHORN 26 STATE COM #001, OH, OH V0
LAKWOOD STATE COM #001, OH, OH V0	Palmk29-30 375H, OH, OH V0	

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

HYDROGEN SULFIDE (H₂S) 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 (H₂S)
- The proper use and maintenance of personal protective equipment and life support systems.
- The proper use of H₂S 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 H₂S 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 H₂S Drilling Operations Plan

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500') and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S 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.

H₂S SAFETY EQUIPMENT AND SYSTEMS:

Well Control Equipment that will be available & installed if H₂S 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 Detection and Monitoring Equipment:

- Two portable H₂S monitors positioned on location for best coverage & response. These units have warning lights & audible sirens when H₂S levels of 20 ppm are reached.
- One portable H₂S 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 H₂S circulated to the surface. Proper mud weights, safe drilling practices & the use of H₂S scavengers will minimize hazards when penetrating H₂S bearing zones.
- A mud-gas separator and H₂S 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 H₂S service.
- All elastomers used for packing & seals shall be H₂S trim.

Communication:

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

HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, 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 H₂S 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 H₂S, 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 (SO₂). 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 H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	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 an 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: ☒ 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:

XXOperator 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:	<i>Sorina L Flores</i>
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 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 routes 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 throughput 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 least 100 feet 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