2/12/2014

NSL TYPE

PMAM1404388 84

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINIOTRATIVE ALL	LIGATION CITEORES	
Т	THIS CHECKLIST IS M	IANDATORY FOR ALL ADMINISTRATIVE APPLIC WHICH REQUIRE PROCESSING AT	CATIONS FOR EXCEPTIONS TO DIVISION R TTHE DIVISION LEVEL IN SANTA FE	RULES AND REGULATIONS
Appli	cation Acronym	S :		
	[DHC-Dow [PC-Po	ool Commingling] [OLS - Off-Lease [WFX-Waterflood Expansion] [PM]	Commingling] [PLC-Pool/Lease Storage] [OLM-Off-Lease Meas X-Pressure Maintenance Expansi PI-Injection Pressure Increase]	Commingling] surement] on]
[1]	TYPE OF AF	PPLICATION - Check Those Which	Apply for [A]	MICH - JOAN A
	[A]	Location - Spacing Unit - Simultane NSL NSP SD	eous Dedication	NSL-7004-A Apache Componat
	Check	One Only for [B] or [C]		873
	[B]	Commingling - Storage - Measurem DHC CTB PLC		, —
	[C]	Injection - Disposal - Pressure Incre	ease - Enhanced Oil Recovery IPI	WEII - Tony Federal 30-015-4200
	[D]	Other: Specify		
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Thos Working, Royalty or Overriding	11 .	pply
	[B]	Offset Operators, Leaseholders	or Surface Owner	
	[C]	Application is One Which Requ	uires Published Legal Notice	22
	[D]	Notification and/or Concurrent U.S. Bureau of Land Management - Commission		-Cedar Lake
	[E]	For all of the above, Proof of N	otification or Publication is Attach	,
	[F]	☐ Waivers are Attached		96831
[3]		CURATE AND COMPLETE INFOATION INDICATED ABOVE.	DRMATION REQUIRED TO P	ROCESS THE TYPE
	val is <mark>accurate</mark> a	TION: I hereby certify that the information and complete to the best of my knowle quired information and notifications a	edge. I also understand that no acti	
	Note:	Statement must be completed by an individ	dual with managerial and/or supervisory	capacity.
	d Catanach or Type Name	Signature 2/12/14	Agent for Apache C	Corporation
		2/12/14 Date	drcatanach@netsca	npe.com

McMillan, Michael, EMNRD

From:	David Catanach <drcatanach@netscape.com></drcatanach@netscape.com>	
Sent: To:	Tuesday, February 11, 2014 7:45 PM McMillan, Michael, EMNRD	
Subject:	Tony Federal 54	
Jubject.	Tony rederal 54	
Michael,		
proposed to 35-36 feet south of	vell plan that Apache sent to us. If you will notice, the bottomhole location of the well of the surface location and 150 feet west of the surface location. Surface location is add these bottomhole dimensions you get: North-South: 295' FNL + 35 = 330' FNL FWL.	
79' west of the lot boundary. N	bottomhole location of the well is 330' FNL & 990' FWL. The bottomhole location wo Now, according to Apache's geologist, the well would be perforated 154' west of the cossible, because the bottomhole location of the well is 75 feet east of where he says	lot
	geologists, and I actually like most of them, but I've mostly found that geologists are as their engineer counter parts. Ha Ha.	
Consequently, I would request	that NSL-7004 be corrected to reflect a bottomhole location of 330' FNL & 990' FWL	- •
Thanks,		
David		
Netscape. Just the Net You Ne	eed.	***************************************

State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez

Governor

David Martin
Cabinet Secretary-Designate

Brett F. Woods, Ph.D. Deputy Cabinet Secretary Jami Bailey, Division Director Oil Conservation Division



February 7, 2014

Apache Corp

Attn: Mr. David Catanach

ADMINISTRATIVE NON-STANDARD LOCATION ORDER

Administrative Order NSL-7004 Administrative Application Reference No. pMAM1403549233

Apache Corp OGRID 873 Tony Federal Well No. 54 API No. 30-015-42000

Proposed Location:

	Footages	Unit/Lot	Section	Township	Range	County
Surface	295 FNL & 1140 FWL	С	19	17S	31E	Eddy
Bottom Hole	830 FNL & 915 FWL	>	19	17S	31E	Eddy

Proposed Unit:

Description	Acres	Pool	Pool Code
NW/4 NW/4 of Section 19	32.41	Cedar Lake: Glorieta-Yeso	96831

Reference is made to your application received on February 5, 2014.

You have requested to drill this well at an unorthodox oil well location described above in the referenced pool or formation. This location is governed by statewide Rule 15.9.A [19.15.15.9.A NMAC], which provides for 40-acre units with wells located at least 330 feet from a unit or lot outer boundary. This location is less than 330 feet from a lot outer boundary. Even though the surface location is Unit C, the entire perforated interval is located in Lot 1 of section 19. Refer to the letter from the applicant that states that the perforations will be 154 feet west of the lot boundary.

Your application has been duly filed under the provisions of Division Rules 15.13 [19.15.15.13 NMAC] and 4.12 [19.15.4.12.A (2) NMAC].

It is our understanding that you are seeking this location to recover additional oil and gas reserves.

It is also understood that notice of this application to offsetting operators or owners is unnecessary due to common ownership.

Pursuant to the authority conferred by Division Rule 15.13 [19.15.15.13 (B) NMAC], the above-described unorthodox location is hereby approved.

This approval is subject to your being in compliance with all other applicable Division rules, including, but not limited to Division Rule 15.9 [19.15.15.9 NMAC].

Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

Jami Bailey Director

JB/mam

cc: New Mexico Oil Conservation Division - Hobbs Bureau of Land Management-Carlsbad

Date

2/05/2014 LOGGED IN

E-Mail Address

PMAM 1403549233

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION



		- Engineering B 1220 South St. Francis Drive, S		
	2011 FE	138 A 8 43		
	THE CHECK ICT IO	ADMINISTRATIVE AP		
		IANDATORY FOR ALL ADMINISTRATIVE APP WHICH REQUIRE PROCESSING		
wh hiu	[DHC-Dow [PC-Pc	ndard Location] [NSP-Non-Standa nhole Commingling] [CTB-Lease ool Commingling] [OLS - Off-Lease	e Commingling] [PLC-Pe se Storage] [OLM-Off-L MX-Pressure Maintenanc [IPI-Injection Pressure In	ool/Lease Commingling] ease Measurement] e Expansion]
[1]	TYPE OF AI [A]	PPLICATION - Check Those Whice Location - Spacing Unit - Simultated NSL NSP SD		- <u>NSL</u> -Apache corp 873
	Check [B]	One Only for [B] or [C] Commingling - Storage - Measure DHC CTB PLC		873 OLM - Tony Federal. 30-015-42000
	[C]	Injection - Disposal - Pressure Inc		overy
	[D]	Other: Specify		Pool
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Check Th Working, Royalty or Overrid	ose Which Apply, or Ding Royalty Interest Owner	oes Not Apply - Cedar Lake Glorieta-yes
	[B]	Offset Operators, Leaseholde	ers or Surface Owner	96831
	[C]	Application is One Which Re	equires Published Legal No	otice
	[D]	Notification and/or Concurred U.S. Bureau of Land Management - Commis	nt Approval by BLM or SI signer of Public Lands, State Land Offic	.0
	[E]	For all of the above, Proof of	Notification or Publication	n is Attached, and/or,
	[F]	☐ Waivers are Attached		
[3]		CURATE AND COMPLETE INI ATION INDICATED ABOVE.	FORMATION REQUIR	ED TO PROCESS THE TYPE
	val is <mark>accurate</mark> a	TION: I hereby certify that the info nd complete to the best of my know quired information and notifications	ledge. I also understand t	hat no action will be taken on this
	Note	Statement must be completed by an indi	ividual with managerial and/or	supervisory capacity.
	l Catanach r Type Name	Signature 2/3/14	Agent for Title	Apache Corporation
		2/3/14	drcatanac	h@netscape.com

Hand Delivered

New Mexico Oil Conservation Division 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

Attention:

Ms. Jami Bailey, CPG

Division Director

Re:

Application for Unorthodox Well Location

Tony Federal No. 54 API No. (Not Yet Issued)

Surface Location: 295' FNL & 1140' FWL (Unit C)

Bottomhole Location: 330' FNL & 990' FWL (Lot 1/Unit D)

Section 19, T-17 South, R-31 East, NMPM,

Eddy County, New Mexico

Dear Ms. Bailey:

Pursuant to Division Rule 19.15.15.13, Apache Corporation ("Apache") respectfully requests administrative approval of an unorthodox oil well location for its proposed Tony Federal No. 54. This well will be drilled as a development oil well in the Cedar Lake Glorieta-Yeso Pool (96831).

The proposed Tony Federal No. 54 will be dedicated to an existing 32.41-acre oil spacing and proration unit in the Cedar Lake Glorieta-Yeso Pool comprising the NW/4 NW/4 of Section 19. This unit is currently dedicated to Apache's: i) existing Tony Federal No. 21 (API No. 30-015-33941) located 330 feet from the North and West lines; ii) existing Tony Federal No. 22 (API No. 30-015-33484) located 990 feet from the North line and 737 feet from the West line; and iii) existing Tony Federal No. 43 (API No. 30-015-40388) located 1140 feet from the North line and 330 feet from the West line.

The Cedar Lake Glorieta-Yeso Pool is currently governed by Division Rule 19.19.15.9 which requires standard 40-acre oil spacing and proration units with wells to be located no closer than 330 feet to the outer boundary of the spacing unit.

The proposed unorthodox well location is necessary in order to avoid a drainage draw and sand dunes in this area.

Lot 1/Unit D of Section 19 is an undersized lot comprising 32.41 acres. Due to the lot size, the dimensions of this lot are approximately 1320 feet high by 1069 feet wide.

The affected offset tracts are the NE/4 NW/4 of Section 19 and the SE/4 SW/4 of Section 18, Township 17 South, Range 31 East. These offset 40-acre tracts are currently being developed in the Cedar Lake Glorieta-Yeso Pool by Apache Corporation. Please note that the working interest ownership between Lot 1/Unit D (Drill Tract) and the affected offset 40-acre tracts is common. Consequently, notice of this application is not required to any party.

Attached is a Form C-102 showing the proposed well, spacing unit and other existing wells in the spacing unit. Also attached is a map that shows the affected offset acreage and a vicinity map.

In summary, approval of the application will provide Apache Corporation the opportunity to recover additional oil and gas reserves from the Cedar Lake Glorieta-Yeso Pool underlying the NW/4 NW/4 of Section 19 that may otherwise not be recovered by the existing wells, thereby preventing waste, and will not violate correlative rights.

If you should have any questions, please call me at (505) 690-9453.

Sincerely,

David Catanach, Agent Apache Corporation 303 Veterans Airpark Lane Suite 3000

Midland, Texas 79705

Xc: OCD-Artesia

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Department **OIL CONSERVATION DIVISION**

1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised July 16, 2010 Submit one copy to appropriate **District Office**

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

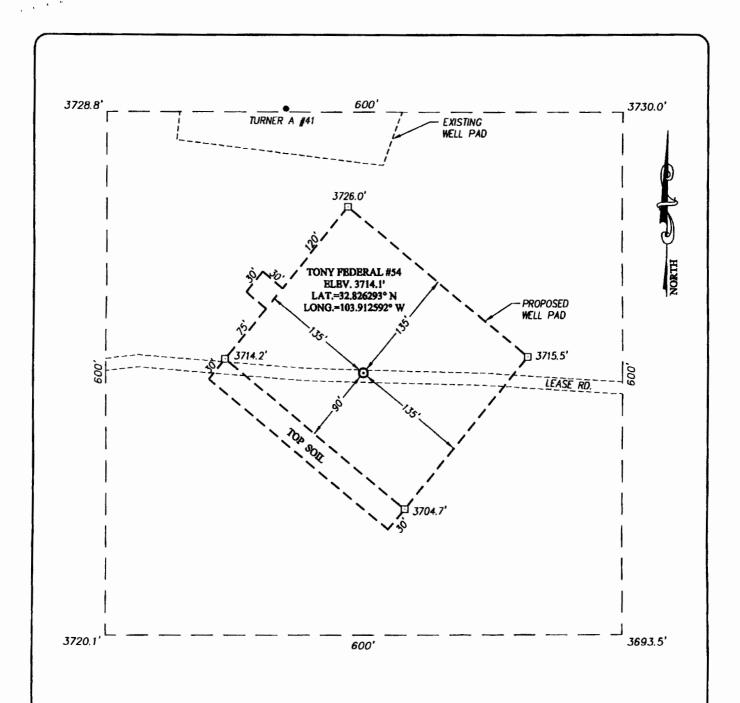
API Number	Pool Code	ol Name		
N/A	96831	Iorieta-Yeso Pool		
Property Code 308738		rty Name Federal	Well Number 54	
OGRID No.	Opera	Elevation		
873	Apache (3714		
	Surfa	ce Location		

С	19	17 South	Transfer Street		295	North	1140	West	Eddy
			Botton	Hole L	ocation If Dit	ferent From S	urface		
UL or lot no.	Section	Township 17 South	Range	11	Feet from the	North/South line	Feet from the	East/West line	County

UL or lot no.					Feet from the 330	North/South line North	Feet from the 990	East/West line West	County Eddy
Dedicated Acres 32.41	Joint	or Infill	Consolidate	Code	Order No.				

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

Tony Fed 21 Bill. Tony Federal # 54 S.L.: 299' FML & 1140' FWL Tony Fed 43 (Existing) Tony Fed 22 (Existing)	OPERATOR CERTIFICATION I hereby certify that the information contained hereits is true and complete to the heat of any involving and helicf, and that this organization either cover a working interest or archand natured towards to the lead technique the proposed between location or has a right to drill this well at this location premium to a contract with an owner of such a internal or working towards, or to a voluntary pooling agreement or a compularity pooling order heretafor entered by the Division.
Lot 2 32.51 Acres	Signature Date Printed Name E-mail Address
Lot 3 32.61 Acres	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by we or under my supervision, and that the same is true and correct to the best of my belief. Date of Survey
Lot 4 32.71 Acres	Signature and Scal of Professional Surveyor: Certificate Number



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #82 AND CO. RD. #221 (SKELLY), GO NORTH APPROX. 0.2 MILES. TURN RIGHT AND GO EAST APPROX. 0.1 MILES. TURN LEFT AND GO NORTH APPROX. 0.3 MILES. TURN RIGHT AND GO EAST 500 FEET TO THE LOCATION.



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(575) 393–3117 www.jwsc.blz

APACHE CORPORATION

TONY FEDERAL #54 WELL LOCATED 295 FEBT FROM THE NORTH LINE AND 1140 FEBT FROM THE WEST LINE OF SECTION 19, TOWNSHIP 17 SOUTH, RANGE 31 EAST, N.M.P.M., EDDY COUNTY, NEW MEXICO

PERMIAN

EUNICE - NM EZ TONY FEDERAL 54 TONY FEDERAL 54 D

TONY FEDERAL 54 D

Plan: PLANNING - v1

Standard Planning Report

20 November, 2013

Planning Report

PEDM

PERMIAN **EUNICE - NM EZ TONY FEDERAL 54** TONY FEDERAL 54 D **TONY FEDERAL 54 D** PLANNING - v1

Site TONY FEDERAL 54 RKB @ 3725.0ft (Original Well Elev) RKB @ 3725.0ft (Original Well Elev) Grid

Minimum Curvature

EUNICE - NM EZ

Map System: Geo Datum:

Map Zone:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

TONY FEDERAL 54

Site Position:

664,573.80 ft

Latitude:

32° 49' 34.642 N

From:

Мар

Easting:

629,244.90 ft

Longitude:

Position Uncertainty:

0.0 ft Slot Radius:

13.200 in

Grid Convergence:

103° 54' 45.346 W

0.23°

TONY FEDERAL 54 D

TONY FEDERAL 54 D

PLANNING - v1

Well Position

+N/-S

0.0 ft 0,0 ft Northing: Easting:

664,573.80 ft 629,244.90 ft

Latitude: Longitude:

32° 49' 34.642 N 103° 54' 45.346 W

Ground Level:

3,714.0 ft

Position Uncertainty Wellbore

Wellhead Elevation:

BGGM2013

11/20/2013

7.61

60.61

48,678

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

Vertical Section: Depth From (TVD)

0.0

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256.52

Plan Sections Measured Depth Inc. (A)	dougo 410 Charana	/	Verlies)	• W • • (R)		rices :	Build (1)	Turni Raja (1605)	no.	Index
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1,410.9	4.22	256.52	1,410.7	-1.8	-7.5	2.00	2.00	0.00	256.52	
3,294.6	4.22	256.52	3,289.3	-34.1	-142.3	0.00	0.00	0.00	0.00	
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Planning Report

Defablished Controllery: Projecti Side: Walting PEDM
PERMIAN
EUNICE - NM EZ
TONY FEDERAL 54
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TONY FEDERAL 54 D
PLANNING - v1

Site TONY FEDERAL 54
RKB @ 3725.0ft (Original Well Elev)
RKB @ 3725.0ft (Original Well Elev)
Grid
Minimum Curvature

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,	4.22	256.52	2,305.0	-17.2	-71.7	73.7	0.00	0.00	0.00
Queen	4 22	256 52	2 207 4	40.0	70.0	90.5	0.00	0.00	0.00
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Grayburg									
2,700.0	4.22	256.52	2,696.3	-23.9	-99.7	102.6	0.00	0.00	0.00
2,800.0	4.22	256.52	2,796.0	-25.6	-106.9	109.9	0.00	0.00	0.00
2,900.0	4.22	256.52	2,895.8	-27.3	-114.0	117.3	0.00	0.00	0.00
3,000.0	4.22	256.52	2,995.5	-29.0	-121.2	124.6	0.00	0.00	0.00
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Planning Report

Database; Company; Projecti Site; Welti PEDM
PERMIAN
EUNICE - NM EZ
TONY FEDERAL 54
TONY FEDERAL 54 D
TONY FEDERAL 54 D
PLANNING - v1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Retrody Site TONY FEDERAL 54
RKB @ 3725.0ft (Original Well Elev)
RKB @ 3725.0ft (Original Well Elev)
Grid
Minimum Curvature

	EVMMING - A1	KM300000000 (Ch. Selimono - Compo est	THE PART AND PROPERTY AND ADDRESS OF THE PARTY OF THE PAR		Mala Habitana -		San de servicio de la composição	CAN ANY OF THE STATE OF THE PROPERTY AND ANY AND ANY AND ANY	2000 AAA AA CO
Planted Survey	P.CTR.GRAM	EMPLOYMENT OF SCHOOLSELENS	co : Seltenia ser 1994 toksi 1990 (m.).	inter en	KO TAR NIKI KIN UT	diameter and the second	AND THE PROPERTY OF THE PARTY O	The state of the s	pageatyero Alla partito (d. 161 is. 162);
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Water and St.		1500	Vertical			Vertical	Degler	Bullet 1	Term.
Depth Vision	clination	Azimuth	Description	+W-C	*E/48	Section		The same of the	
T	O	(1)	1 (m)	(10)	100	(10)	(77,0000	CHOOM	C/100m
a did organization in the	COMPANIES COMPANIES	Salat U.S.			A Section of the second	CHE THE PARTY	2000 pel se se s		2.7 CHAINNA
3,200.0	4.22	256.52	3,195.0	-32.5	-135.5	139.3	0.00	0.00	0.00
3,294.6	4.22	256.52	3,289.3	-34.1	-142.3	148.3	0.00	0.00	0.00
Begin drop -2*/1	00'								
3,300.0	4.11	256.52	3,294.7	-34.2	-142.6	146.7	1.99	-1.99	0.00
3,400.0	2.11	256.52	3,394.5	-35.4	-147.9	152.1	2.00	-2.00	0.00
3,500.0	0.11	256.52	3,494.5	-35.9	-149.8	154.0	2.00	-2.00	0.00
3,505.5	0.00	0.00	3,500.0	-35.9	-149.8	154.0	2.00	-2.00	0.00
Hold vertical to	Target								
3,555.5	0.00	0.00	3,550.0	-35.9	-149.8	154.0	0.00	0.00	0.00
8 5/8"									
3,800.0	0.00	0.00	3,594.5	-35.9	-149.8	154.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3.894.5	-35.9	-149.8	154.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,794.5	-35.9	-149.8	154.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,894.5	-35.9	-149.8	154.0	0.00	0.00	0.00
4,000.0	0.00	0.00	3,994.5	-35.9	-149.8	154.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,094.5	-35.9	-149.8	154.0	0.00	0.00	0.00
4,200.0	0.00	0.00	•	-35.9		154.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,194.5 4,294.5	-35.9 -35.9	-149.8 -149.8	154.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,294.5	-35.9	-149.8	154.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,494.5	-35.9	-149.8	154.0	0.00	0.00	0.00
4,531.5	0.00	0.00	4,528.0	-35.9	-149.8	154.0	0.00	0.00	0.00
Giorieta	0.00	0.00	4,020.0	-55.5	-140.0	104.0	0.00	0.00	0.00
4,587.5	0.00	0.00	4,582.0	-35.9	-149.8	154.0	0.00	0.00	0.00
Yeso									
4,600.0	0.00	0.00	4,594.5	-35.9	-149.8	154.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,694.5	-35.9	-149.8	154.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,794.5	-35.9	-149.8	154.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,894.5	-35.9	-149.8	154.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,994.5	-35.9	-149.8	154.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,094.5	-35.9	-149.8	154.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,194.5	-35.9	-149.8	154.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,294.5	-35.9	-149.8	154.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,394.5	-35.9	-149.8	154.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,494.5	-35.9	-149.8	154.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,594.5	-35.9	-149.8	154.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,694.5	-35.9	-149.8	154.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,794.5	-35.9	-149.8	154.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,894.5	-35.9	-149.6	154.0	0.00	0.00	0.00
8,000.0	0.00	0.00	5,994.5	-35.9	-149.8	154.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,094.5	-35.9	-149.8	154.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,194.5	-35.9	-149.8	154.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,294.5	-35.9	-149.8	154.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,394.5	-35.9	-149.8	154.0	0.00	0.00	0.00

0.00

6,405.5 0.00

5 1/2" - TONY FED 54 TARGET

0.00

6,400.0

-35.9

-149.8

154.0

0.00

30	East	31	East	
	13			18
- 17 South —	24	Affected Offset Tracts Operator: Apache WI Ownership Comman w/Drift Tract Tony Federal No. 54 (BHL)		19
		Lot 1: 32.41 Acres		

Affected Offset Acreage

Apache Corporation
Application for Non-Standard Well Location
Tony Federal No. 54

Planning Report

Detabase: PEDM
PERMIAN
Project: EUNICE - NM EZ
Sta: TONY FEDERAL 54
Well: TONY FEDERAL 54 D
TONY FEDERAL 54 D
PLANNING - V1

Local Co-ordinate Reference: TVE Reference: MD Reference: North Reference: Survey Calculation Method:

Site TONY FEDERAL 54 RKB @ 3725.0ft (Original Well Elev) RKB @ 3725.0ft (Original Well Elev) Grid

Minimum Curvature

Design Targets — Target Hans - introduct target —— Die 3. Shops	Angle E	6 Dk.	TVO FIGURE	in)	+±12-244 (M)	No. (Marie		Latitude	Senglude
TONY FED 54 TARGET - plan hits target center - Circle (radius 25.0)	0.00	0.00	6,400.0	-35.9	-149.8	664,537.90	629,095.10	32° 49′ 34.293 N	103° 54' 47.103 W

Casing Points Licensed Septiments (M)	Vertical Depth (Q ³ / ² / ₂)		Control Contro	Piole Dismoster (Inj. 10	
350.0	350.0	13 3/8"	13.375	17,500	
3,555.5	3,550.0	8 5/8"	8.625	11.000	
6,405.5	6,400.0	5 1/2"	5.500	7.875	

	a see that
	Dip Physical 2015
Land Control Name () Feb. 1	Littleloge to the Contract of
Rustler	0.00
Salt Top	0.00
Salt Base	0.00
Yates	0.00
Seven Rivers	0.00
Queen	0.00
Grayburg	0.00
San Andres	0.00
Glorieta	0.00
Yeso	0.00
	Rustler Salt Top Salt Base Yates Seven Rivers Queen Grayburg San Andres Glorieta Yeso

Plan Amountions 25	Vertical Control	Local Google	ju sas	
1,200.0	1,200.0	0.0	0.0	KOP build 2*/100'
1,410.9	1,410.7	-1.8	-7.5	Hold 4.22°
3,294.6	3,289.3	-34.1	-142.3	Begin drop -2*/100'
3,505.5	3,500.0	-35.9	-149.8	Hold vertical to Target



8

₹ 4200 4400

4800

6000

6200

6600 6800

7000 7200

7400

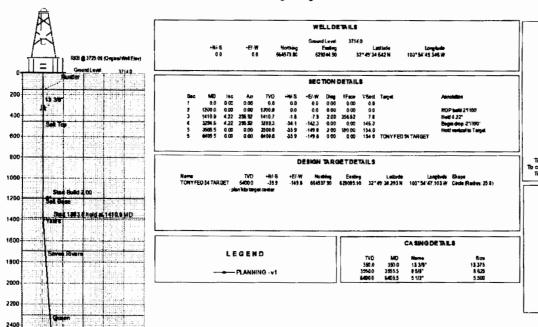
6 170 at 8406.6

0 200 400

600 800 reion at 186,52° (200 ft/in)

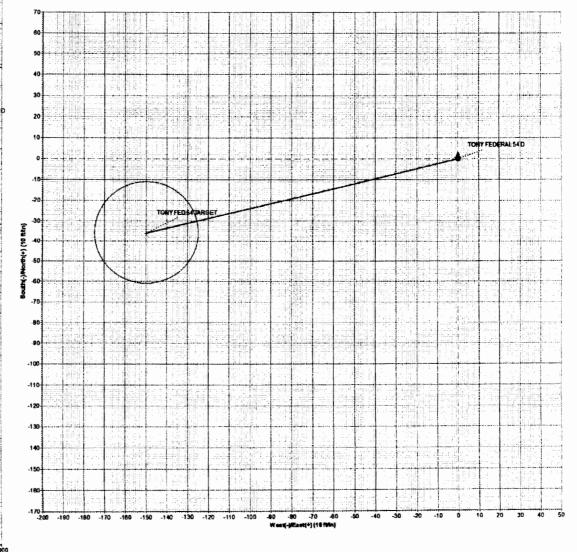
Project: EUNICE - NM EZ Site: TONY FEDERAL 54 Well: TONY FEDERAL 54D Wellbore: TONYFEDERAL54D Design: PLANNING - v1 Rig: Original Well Elev





Map System: US State Plane 1927 (Exect solution) Datum: NAD 1927 (NADCON CONUS) Elspecid: Clarke 1866 ZonaName: New Mexico East 3001 Local Origin: Site TONY FEDERAL54, Grid North Grid East: 629244.90 Grid North: 884573.80 Scale Factor: 1.000 Geormagnetic Model: BGGM2813 Sample Date: 20.Nov-13 Magnetic Declination: 7.61* Dip Angle from Horizontal: 80.81* Magnetic Field Strangth: 48678 To convert a Magnetic Direction to a Grid Direction. Add 7.38°
To convert a Magnetic Direction to a True Direction, Add 7.31° East
To convert a True Direction to a Grid Direction, Subtract 0.23°

FORMATION TOP DETAILS



Mr. McMillan-

The location of perforations for the Tony Federal #54D well in UL D will be described in this letter and illustrated in the accompanying attachment. The well will initiate at a latitude of 32° 49' 34.642 N and longitude of 103° 54' 45.346 W and TD at 32° 49' 34.293 N and 103° 54' 47.103 W. The well will drill at an azimuth of 256.52° for a horizontal distance of 154.1 ft and measured depth of 3505.5 ft to enter into the target reservoirs underlying UL D. Drilling will remain vertical to target the Glorieta and Yeso reservoirs which are located at a measured depth of 4525 and 5482 feet, respectively. Perforations will be performed in these reservoirs in UL D, 154.1 ft west of the lot boundary. If you have any questions please feel free to contact me.

Best,

Alex Gonzalez