

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMLC029395A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
TONY FEDERAL 549. API Well No.
30-015-42000-00-X110. Field and Pool, or Exploratory
CEDAR LAKE11. County or Parish, and State
EDDY COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other2. Name of Operator
APACHE CORPORATIONContact: SORINA FLORES
E-Mail: sorina.flores@apachecorp.com3a. Address
303 VETERANS AIRPARK LANE SUITE 3000
MIDLAND, TX 797053b. Phone No. (include area code)
Ph: 432-818-1167

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 19 T17S R31E Lot 1 295FNL 1140FWL
32.826293 N Lat, 103.912592 W Lon**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION

TYPE OF ACTION

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment Notice☐ Acidize☐ Alter Casing☐ Casing Repair☐ Change Plans☐ Convert to Injection☐ Deepen☐ Fracture Treat☐ New Construction☐ Plug and Abandon☐ Plug Back☐ Production (Start/Resume)☐ Reclamation☐ Recomplete☐ Temporarily Abandon☐ Water Disposal☐ Water Shut-Off☐ Well Integrity☒ Other
Change to Original APD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

BLM-CO-1463 NATIONWIDE/NMB000736

Apache proposes to change the directional plan for the Tony Federal #54 from the S-curve plan contained in the approved APD to the Build-and-Hold plan attached. Measured depth @ TD will change f/6405' to 6402'. Everything remains the same with exception that all subsurface formation tops are now expected to be 6' shallower as follows:

Quaternary Aeolian Surf	Queen	2299' (oil)
Rustler 149'	Grayburg	2647' (oil)
Top of Salt 450'	San Andres	3023' (oil)
Base of Salt/Tansil 1191'	Glorieta	4520'
Yates 1378'	Yeso	4576' (oil)

RECEIVED
APR 28 2014
NMOCD ARTESIAAccepted for record
TOS
4-28-2014 NMOCD**APPROVED**
APR 23 2014
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #242882 verified by the BLM Well Information System
For APACHE CORPORATION, sent to the Carlsbad
Committed to AFMSS for processing by WESLEY INGRAM on 04/23/2014 (14WW10277SE)

Name (Printed/Typed) SORINA FLORES

Title SUBMITTING CONTACT

Signature (Electronic Submission)

Date 04/21/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By EDWARD FERNANDEZ

Title PETROLEUM ENGINEER

Date 04/23/2014

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Carlsbad

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #242882 that would not fit on the form

32. Additional remarks, continued

Seven Rivers 1688' (oil) TD TVD: 6400' MD: 6402'

*copy of NSL-7004A is attached

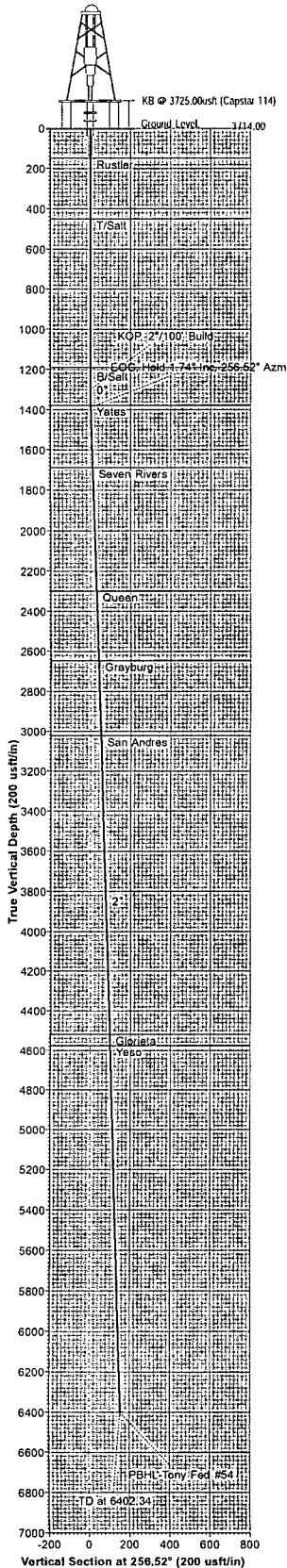


WELL DETAILS											
+N-S		+E-W		Northing		Ground Level		Easting		Latitude	
0.00		0.00		664573.80		3714.00		629244.90		32° 49' 34.65525 N	
										103° 54' 45.33116 W	

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	Tface	VSect	Target	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
2	1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00		KOP: 2°/100' Build
3	1387.25	1.74	256.52	1387.23	-0.31	-1.29	2.00	256.52	1.33		EOC: Hold 1.74° Inc. 256.52° Azm
4	6402.34	1.74	256.52	6400.00	-35.90	-149.80	0.00	0.00	154.04	PBHL-Tony Fed #54	TD at 6402.34

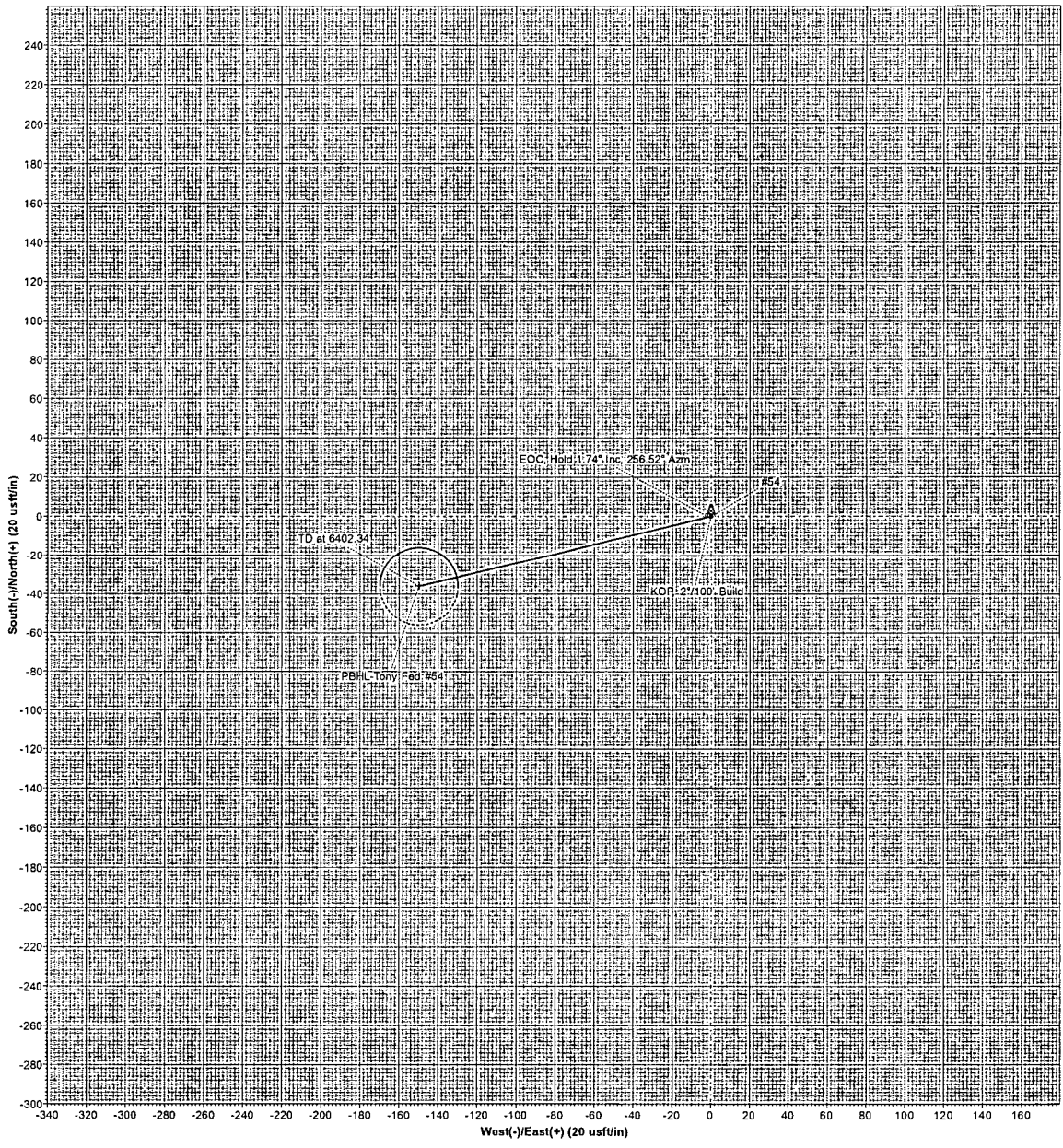
DESIGN TARGET DETAILS											
Name		TVD		+N-S		+E-W		Northing		Easting	
PBHL-Tony Fed #54		6400.00		-35.90		-149.80		664537.90		629095.10	
										32° 49' 34.30591 N	
										103° 54' 47.08835 W	
										Shape	
										Circle (Radius: 20.00)	
- plan hole target center											

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001
Local Origin: Well #54, Grid North
Latitude: 32° 49' 34.65525 N
Longitude: 103° 54' 45.33116 W
Grid East: 629244.90
Grid North: 664573.80
Scale Factor: 1.000
Geomagnetic Model: BGGM2013
Sample Date: 15-Apr-14
Magnetic Declination: 7.56°
Dip Angle from Horizontal: 60.60°
Magnetic Field Strength: 48631
To convert a Magnetic Direction to a Grid Direction, Add 7.34°
To convert a Magnetic Direction to a True Direction, Add 7.56° East
To convert a True Direction to a Grid Direction, Subtract 0.23°



FORMATION TOP DETAILS					
TVDPath	MDPath	Formation	DipAngle	DipDir	
149.00	145.00	Rustler	0.00	256.52	
450.00	450.00	T/Salt	0.00	256.52	
1191.00	1191.00	B/Salt	0.00	256.52	
1378.00	1378.00	Yates	0.00	256.52	
1688.00	1688.00	Seven Rivers	0.00	256.52	
2299.00	2299.00	Queen	0.00	256.52	
2647.00	2647.00	Grayburg	0.00	256.52	
3023.00	3023.00	San Andres	0.00	256.52	
4520.00	4521.47	Gloria	0.00	256.52	
4576.00	4577.49	Yeso	0.00	256.52	

LEGEND
Plan #1 04-17-14





Apache Corporation

Lea County, NM (NAD27 NME)

Tony Federal

#54

WB1/Job #1410679

Plan: Plan #1 04-17-14

Standard Planning Report

21 April, 2014





Phoenix Technology Services

Planning Report



Database:	GCR DB	Local Co-ordinate Reference:	Well #54
Company:	Apache Corporation	TVD Reference:	KB @ 3725.00usft (Capstar 114)
Project:	Lea County NM (NAD27 NME)	MD Reference:	KB @ 3725.00usft (Capstar 114)
Site:	Tony Federal	North Reference:	Grid
Well:	#54	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1/Job #1410679		
Design:	Plan #1 04-17-14		

Project:	Lea County NM (NAD27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site:	Tony Federal		
Site Position:		Northing:	666,516.20 usft
From:	Map	Easting:	628,898.80 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 49' 53.88921 N
		Longitude:	103° 54' 49.29676 W
		Grid Convergence:	0.23 °

Well:	#54		
Well Position	+N/-S	-1,942.40 usft	Northing:
	+E/-W	346.10 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,714.00 usft

Wellbore						WB1/Job #1410679									
Magnetics						Model Name		Sample Date		Declination		Dip Angle		Field Strength	
										(°)		(°)		(nT)	
						BGGM2013		04/15/14		7.56		60.60		48,631	

Design: Plan #1 04-17-14				
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	256.52

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,387.25	1.74	256.52	1,387.23	-0.31	-1.29	2.00	2.00	-118.60	256.52	
6,402.34	1.74	256.52	6,400.00	-35.90	-149.80	0.00	0.00	0.00	0.00	PBHL-Tony Fed #54



Phoenix Technology Services Planning Report



Database:	GCR-DB	Local Co-ordinate Reference:	Well #54
Company:	Apache Corporation	TVD Reference:	KB @ 3725.00usft (Capstar 114)
Project:	Lea County NM (NAD27/NME)	MD Reference:	KB @ 3725.00usft (Capstar 114)
Site:	Tony Federal	North Reference:	Grid
Well:	#54	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1/Job #1410679		
Design:	Plan #1 04-17-14		

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
149.00	0.00	0.00	149.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
450.00	0.00	0.00	450.00	0.00	0.00	0.00	0.00	0.00	0.00
T/Salt									
1,191.00	0.00	0.00	1,191.00	0.00	0.00	0.00	0.00	0.00	0.00
B/Salt									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP: 2°/100' Build									
1,378.01	1.56	256.52	1,378.00	-0.25	-1.03	1.06	2.00	2.00	0.00
Yates									
1,387.25	1.74	256.52	1,387.24	-0.31	-1.29	1.33	2.00	2.00	0.00
EOC: Hold 1.74° Inc: 256.52° Azm									
1,400.00	1.74	256.52	1,399.98	-0.40	-1.67	1.72	0.00	0.00	0.00
1,500.00	1.74	256.52	1,499.93	-1.11	-4.63	4.76	0.00	0.00	0.00
1,600.00	1.74	256.52	1,599.89	-1.82	-7.59	7.81	0.00	0.00	0.00
1,688.15	1.74	256.52	1,688.00	-2.45	-10.20	10.49	0.00	0.00	0.00
Seven Rivers									
1,700.00	1.74	256.52	1,699.84	-2.53	-10.55	10.85	0.00	0.00	0.00
1,800.00	1.74	256.52	1,799.80	-3.24	-13.51	13.90	0.00	0.00	0.00
1,900.00	1.74	256.52	1,899.75	-3.95	-16.48	16.94	0.00	0.00	0.00
2,000.00	1.74	256.52	1,999.70	-4.66	-19.44	19.99	0.00	0.00	0.00
2,100.00	1.74	256.52	2,099.66	-5.37	-22.40	23.03	0.00	0.00	0.00
2,200.00	1.74	256.52	2,199.61	-6.08	-25.36	26.08	0.00	0.00	0.00
2,299.44	1.74	256.52	2,299.00	-6.78	-28.30	29.11	0.00	0.00	0.00
Queen									
2,300.00	1.74	256.52	2,299.56	-6.79	-28.32	29.12	0.00	0.00	0.00
2,400.00	1.74	256.52	2,399.52	-7.50	-31.28	32.17	0.00	0.00	0.00
2,500.00	1.74	256.52	2,499.47	-8.21	-34.24	35.21	0.00	0.00	0.00
2,600.00	1.74	256.52	2,599.42	-8.92	-37.20	38.26	0.00	0.00	0.00
2,647.60	1.74	256.52	2,647.00	-9.25	-38.61	39.71	0.00	0.00	0.00
Grayburg									
2,700.00	1.74	256.52	2,699.38	-9.63	-40.17	41.30	0.00	0.00	0.00
2,800.00	1.74	256.52	2,799.33	-10.34	-43.13	44.35	0.00	0.00	0.00
2,900.00	1.74	256.52	2,899.29	-11.05	-46.09	47.39	0.00	0.00	0.00
3,000.00	1.74	256.52	2,999.24	-11.75	-49.05	50.44	0.00	0.00	0.00
3,023.77	1.74	256.52	3,023.00	-11.92	-49.75	51.16	0.00	0.00	0.00
San Andres									
3,100.00	1.74	256.52	3,099.19	-12.46	-52.01	53.48	0.00	0.00	0.00
3,200.00	1.74	256.52	3,199.15	-13.17	-54.97	56.53	0.00	0.00	0.00
3,300.00	1.74	256.52	3,299.10	-13.88	-57.93	59.57	0.00	0.00	0.00
3,400.00	1.74	256.52	3,399.05	-14.59	-60.89	62.62	0.00	0.00	0.00
3,500.00	1.74	256.52	3,499.01	-15.30	-63.86	65.66	0.00	0.00	0.00
3,600.00	1.74	256.52	3,598.96	-16.01	-66.82	68.71	0.00	0.00	0.00
3,700.00	1.74	256.52	3,698.91	-16.72	-69.78	71.75	0.00	0.00	0.00
3,800.00	1.74	256.52	3,798.87	-17.43	-72.74	74.80	0.00	0.00	0.00
3,900.00	1.74	256.52	3,898.82	-18.14	-75.70	77.84	0.00	0.00	0.00
4,000.00	1.74	256.52	3,998.77	-18.85	-78.66	80.89	0.00	0.00	0.00
4,100.00	1.74	256.52	4,098.73	-19.56	-81.62	83.93	0.00	0.00	0.00
4,200.00	1.74	256.52	4,198.68	-20.27	-84.58	86.98	0.00	0.00	0.00
4,300.00	1.74	256.52	4,298.64	-20.98	-87.55	90.02	0.00	0.00	0.00
4,400.00	1.74	256.52	4,398.59	-21.69	-90.51	93.07	0.00	0.00	0.00
4,500.00	1.74	256.52	4,498.54	-22.40	-93.47	96.11	0.00	0.00	0.00



Phoenix Technology Services

Planning Report



Database:	GCR/DB	Local Co-ordinate Reference:	Well #54
Company:	Apache Corporation	TVD Reference:	KB @ 3725.00usft (Capstar 114)
Project:	Lea County, NM (NAD27/NME)	MD Reference:	KB @ 3725.00usft (Capstar 114)
Site:	Tony Federal	North Reference:	Grid
Well:	#54	Survey Calculation Method:	Minimum Curvature
Wellbore:	WVB1/Job #1410679		
Design:	Plan #1 04-17-14		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,521.47	1.74	256.52	4,520.00	-22.55	-94.10	96.77	0.00	0.00	0.00
Glorieta									
4,577.49	1.74	256.52	4,576.00	-22.95	-95.76	98.47	0.00	0.00	0.00
Yeso									
4,600.00	1.74	256.52	4,598.50	-23.11	-96.43	99.16	0.00	0.00	0.00
4,700.00	1.74	256.52	4,698.45	-23.82	-99.39	102.20	0.00	0.00	0.00
4,800.00	1.74	256.52	4,798.40	-24.53	-102.35	105.25	0.00	0.00	0.00
4,900.00	1.74	256.52	4,898.36	-25.24	-105.31	108.29	0.00	0.00	0.00
5,000.00	1.74	256.52	4,998.31	-25.95	-108.27	111.34	0.00	0.00	0.00
5,100.00	1.74	256.52	5,098.26	-26.66	-111.23	114.38	0.00	0.00	0.00
5,200.00	1.74	256.52	5,198.22	-27.37	-114.20	117.43	0.00	0.00	0.00
5,300.00	1.74	256.52	5,298.17	-28.08	-117.16	120.47	0.00	0.00	0.00
5,400.00	1.74	256.52	5,398.13	-28.79	-120.12	123.52	0.00	0.00	0.00
5,500.00	1.74	256.52	5,498.08	-29.50	-123.08	126.56	0.00	0.00	0.00
5,600.00	1.74	256.52	5,598.03	-30.21	-126.04	129.61	0.00	0.00	0.00
5,700.00	1.74	256.52	5,697.99	-30.92	-129.00	132.65	0.00	0.00	0.00
5,800.00	1.74	256.52	5,797.94	-31.63	-131.96	135.70	0.00	0.00	0.00
5,900.00	1.74	256.52	5,897.89	-32.34	-134.92	138.75	0.00	0.00	0.00
6,000.00	1.74	256.52	5,997.85	-33.04	-137.89	141.79	0.00	0.00	0.00
6,100.00	1.74	256.52	6,097.80	-33.75	-140.85	144.84	0.00	0.00	0.00
6,200.00	1.74	256.52	6,197.75	-34.46	-143.81	147.88	0.00	0.00	0.00
6,300.00	1.74	256.52	6,297.71	-35.17	-146.77	150.93	0.00	0.00	0.00
6,400.00	1.74	256.52	6,397.66	-35.88	-149.73	153.97	0.00	0.00	0.00
6,402.34	1.74	256.52	6,400.00	-35.90	-149.80	154.04	0.00	0.00	0.00
TD at 6402.34 - PBHL-Tony Fed #54									

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									
PBHL-Tony Fed #54	0.00	0.00	6,400.00	-35.90	-149.80	664,537.90	629,095.10	32° 49' 34.30591 N	103° 54' 47.08836 W
- plan hits target center									
- Circle (radius 20.00)									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
149.00	149.00	Rustler		0.00	256.52	
450.00	450.00	T/Salt		0.00	256.52	
1,191.00	1,191.00	B/Salt		0.00	256.52	
1,378.01	1,378.00	Yates		0.00	256.52	
1,688.15	1,688.00	Seven Rivers		0.00	256.52	
2,299.44	2,299.00	Queen		0.00	256.52	
2,647.60	2,647.00	Grayburg		0.00	256.52	
3,023.77	3,023.00	San Andres		0.00	256.52	
4,521.47	4,520.00	Glorieta		0.00	256.52	
4,577.49	4,576.00	Yeso		0.00	256.52	



Phoenix Technology Services

Planning Report



Database:	GCR/DB	Local Co-ordinate Reference:	Well #54
Company:	Apache Corporation	TVD Reference:	KB @ 3725.00usft (Capstar 114)
Project:	Lea County - NM (NAD27-NME)	MD Reference:	KB @ 3725.00usft (Capstar 114)
Site:	Tony Federal	North Reference:	Grid
Well:	#54	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1/Job #1410679		
Design:	Plan #1-04-17-14		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N-S (usft)	+E-W (usft)	
1,300.00	1,300.00	0.00	0.00	KOP, 2°/100' Build
1,387.25	1,387.24	-0.31	-1.29	EOC, Hold 1.74° Inc, 256.52° Azm
6,402.34	6,400.00	-35.90	-149.80	TD at 6402.34

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division



March 4, 2014

Apache Corp
Attn: Mr. David Catanach

ADMINISTRATIVE NON-STANDARD LOCATION ORDER

Administrative Order NSL-7004-A
Administrative Application Reference No. pMAM1404338284

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

Proposed Location:

	<u>Footages</u>	<u>Unit/Lot</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>County</u>
Surface	295 FNL & 1140 FWL	C	19	17S	31E	Eddy
Bottom Hole	330 FNL & 990 FWL	1	19	17S	31E	Eddy

Proposed Unit:

<u>Description</u>	<u>Acres</u>	<u>Pool</u>	<u>Pool Code</u>
NW/4 NW/4 of Section 19	32.41	Cedar Lake; Glorieta-Yeso	96831

Reference is made to your application received on February 12, 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 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 in Unit C, the entire perforated interval is located in Lot 1/ Unit D of section 19.

Lot 1/Unit D of Section 19 is an irregular Section comprising of 32.41 acres. The dimensions of this irregular Section are 1320 feet high, and 1069 feet wide, thereby making the

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bottom-hole location of this well which is 330 feet from the North line and 990 feet from the West line unorthodox.

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

It is our understanding that you are seeking this location to avoid a drainage draw and sand dunes in the area.

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

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

This Order supersedes Order No. NSL-7004.

This approval is subject to your being in compliance with all other applicable Division rules, including, but not limited to Division Rule 19.15.5.9 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 – Artesia
Bureau of Land Management-Carlsbad