30-015-40087

Company Name: Apache Corporation
Washington 33 State #47
Eddy County, New Mexico
Rig: Capstar #118
Created By: Dina Chance
Date: 2/4/2013

Washington 33 State #47
Eddy County, New Mexico
Q120806 & WT-12794
Design #4

PROJECT DETAILS:	Eddy County, New Mexico
Geodetic System:	US State Plane 1927 (Exact solution)
Datum:	NAD 1927 (NADCON CONUS)
Ellipsoid:	Clarke 1866
Zone:	New Mexico East 3001
System Datum:	Mean Sea Level

WELL DETAILS: Washington 33 State #47

Ground Level: 3680.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	653959.42	548670.76	32° 47' 51.806 N	104° 10' 29.790 W

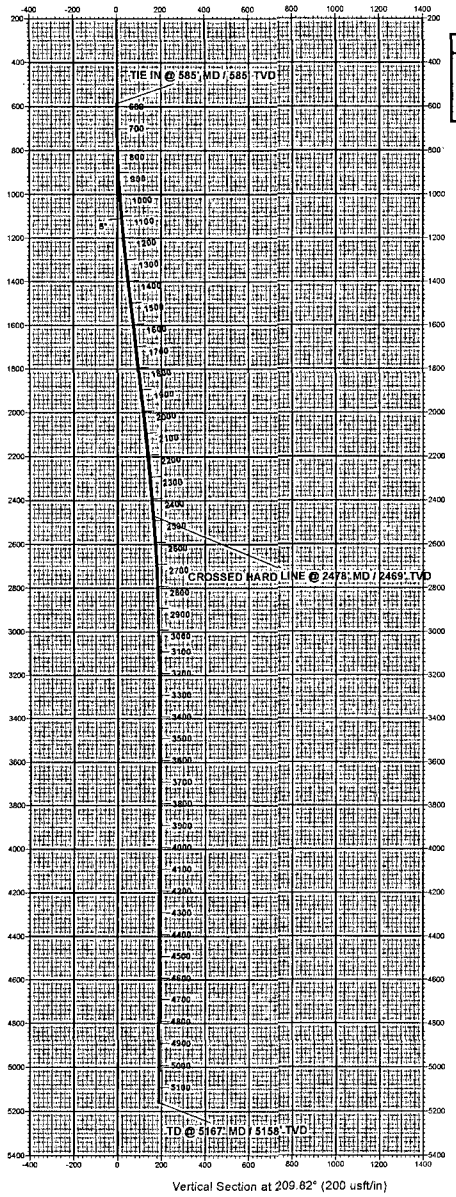
ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	VSec	Departure	Annotation
2477.5	4.83	204.35	2469.2	-142.2	-81.1	163.7	164.9	CROSSED HARD LINE @ 2478' MD / 2469' TVD
5167.0	0.50	28.70	5157.9	-152.8	-92.6	187.3	209.3	TD @ 5167' MD / 5158' TVD

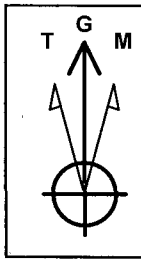
RDC
The DIRECTIONAL DRILLING COMPANY

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
TIE IN @ 585' MD / 585' TVD - plan hits target center	585.0	0.0	0.0	653959.42	548670.76	32° 47' 51.806 N	104° 10' 29.790 W
PBHL Washington 33 State #47 D#3 - plan hits target center	5000.0	-162.5	-93.2	653796.89	548577.60	32° 47' 50.199 N	104° 10' 30.884 W



Vertical Section at 209.82° (200 usft/in)

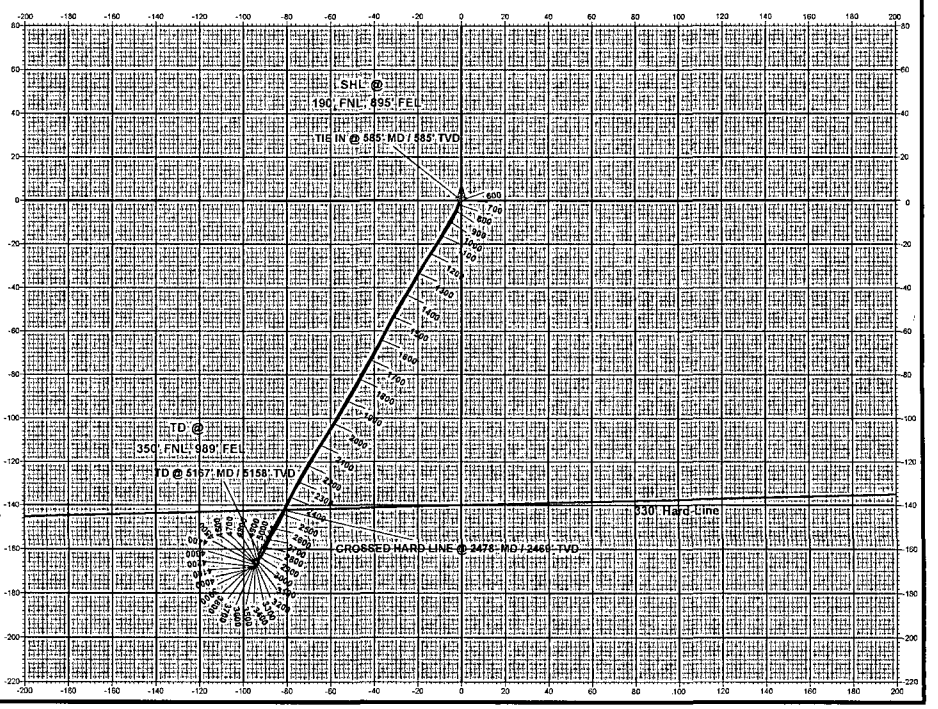


Azimuths to Grid North

Magnetic North: 7.65°

Magnetic Field
Strength: 48756.6snT
Dip Angle: 60.58°
Date: 10/24/2012
Model: IGRF2010

Apache



Apache Corporation

Eddy County, New Mexico
Sec 33, T17S, R28E
Washington 33 State #47

Wellbore #1

Design: Wellbore #1

DDC Survey Report

04 February, 2013

The DIRECTIONAL DRILLING COMPANY

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Washington 33 State #47
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3691.0usft
Site:	Sec 33, T17S, R28E	**MD Reference:**	WELL @ 3691.0usft
Well:	Washington 33 State #47	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

Project Eddy County, New Mexico

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 Sec 33, T17S, R28E

Site Position:		**Northing:**	653,959.43 usft	**Latitude:**	32° 47' 51.806 N
From:	Map	**Easting:**	548,670.76 usft	**Longitude:**	104° 10' 29.790 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.09 °

Well Washington 33 State #47

Well Position	**+N/-S**	0.0 usft	**Northing:**	653,959.43 usft	**Latitude:**	32° 47' 51.806 N
	+E/-W	0.0 usft	**Easting:**	548,670.76 usft	**Longitude:**	104° 10' 29.790 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,680.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/24/2012	7.74	60.58	48,757

Design Wellbore #1

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	209.82

Survey Program **Date** 2/4/2013

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
670.0	5,167.0	MWD (Wellbore #1)	MWD default	MWD - Standard

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)
585.0	0.30	7.90	585.0	0.0	0.0	0.0	0.00	0.00	0.00
670.0	0.40	290.00	670.0	0.3	-0.2	-0.2	0.53	0.12	-91.65
755.0	1.60	200.80	755.0	-0.7	-0.9	1.1	1.93	1.41	-104.94
843.0	1.50	194.30	843.0	-3.0	-1.7	3.4	0.23	-0.11	-7.39
926.0	3.10	203.90	925.9	-6.1	-2.8	6.7	1.98	1.93	11.57
1,056.0	4.30	214.50	1,055.6	-13.3	-7.0	15.0	1.06	0.92	8.15
1,099.0	4.80	210.20	1,098.5	-16.2	-8.8	18.4	1.41	1.16	-10.00
1,184.0	6.10	213.50	1,183.1	-23.0	-13.1	26.5	1.57	1.53	3.88
1,227.0	5.70	213.60	1,225.9	-26.7	-15.6	30.9	0.93	-0.93	0.23
1,312.0	6.90	208.10	1,310.4	-34.7	-20.3	40.2	1.58	1.41	-6.47

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Washington 33 State #47
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3691.0usft
Site:	Sec 33, T17S, R28E	**MD Reference:**	WELL @ 3691.0usft
Well:	Washington 33 State #47	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

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)
1,398.0	6.20	213.00	1,395.8	-43.2	-25.3	50.0	1.04	-0.81	5.70
1,503.0	7.30	207.60	1,500.1	-53.8	-31.5	62.3	1.21	1.05	-5.14
1,611.0	6.30	205.90	1,607.3	-65.2	-37.2	75.1	0.94	-0.93	-1.57
1,697.0	5.60	209.70	1,692.8	-73.1	-41.4	84.0	0.93	-0.81	4.42
1,825.0	6.20	209.50	1,820.2	-84.6	-47.9	97.2	0.47	0.47	-0.16
1,910.0	7.00	210.20	1,904.6	-93.0	-52.7	106.9	0.95	0.94	0.82
1,996.0	6.80	211.90	1,990.0	-101.9	-58.1	117.3	0.33	-0.23	1.98
2,081.0	6.70	212.40	2,074.4	-110.4	-63.4	127.3	0.14	-0.12	0.59
2,166.0	6.30	211.80	2,158.8	-118.5	-68.5	136.9	0.48	-0.47	-0.71
2,252.0	4.80	209.60	2,244.4	-125.6	-72.7	145.2	1.76	-1.74	-2.56
2,337.0	4.50	206.40	2,329.1	-131.7	-76.0	152.1	0.47	-0.35	-3.76
2,423.0	4.90	206.00	2,414.9	-138.0	-79.1	159.1	0.47	0.47	-0.47
CROSSED HARD LINE @ 2478' MD / 2469' TVD									
2,477.5	4.83	204.35	2,469.2	-142.2	-81.1	163.7	0.28	-0.12	-3.04
2,508.0	4.80	203.40	2,499.6	-144.6	-82.1	166.3	0.28	-0.11	-3.10
2,594.0	3.90	212.20	2,585.3	-150.4	-85.1	172.8	1.30	-1.05	10.23
2,679.0	3.00	209.50	2,670.2	-154.7	-87.7	177.9	1.08	-1.06	-3.18
2,764.0	2.00	206.90	2,755.1	-158.0	-89.5	181.6	1.18	-1.18	-3.06
2,849.0	1.40	200.80	2,840.0	-160.3	-90.5	184.1	0.74	-0.71	-7.18
2,935.0	1.50	213.80	2,926.0	-162.2	-91.5	186.2	0.40	0.12	15.12
3,020.0	1.50	216.20	3,011.0	-164.0	-92.8	188.5	0.07	0.00	2.82
3,105.0	0.70	167.80	3,096.0	-165.4	-93.4	189.9	1.36	-0.94	-56.94
3,191.0	0.70	198.00	3,182.0	-166.4	-93.4	190.9	0.42	0.00	35.12
3,276.0	0.40	238.40	3,267.0	-167.1	-93.8	191.6	0.56	-0.35	47.53
3,361.0	0.30	268.80	3,352.0	-167.3	-94.3	192.0	0.24	-0.12	35.76
3,447.0	0.30	194.40	3,438.0	-167.5	-94.6	192.3	0.42	0.00	-86.51
3,532.0	0.30	231.90	3,522.9	-167.8	-94.8	192.8	0.23	0.00	44.12
3,618.0	0.50	239.50	3,608.9	-168.2	-95.3	193.3	0.24	0.23	8.84
3,703.0	0.40	254.50	3,693.9	-168.4	-95.9	193.8	0.18	-0.12	17.65
3,788.0	0.70	255.20	3,778.9	-168.6	-96.7	194.4	0.35	0.35	0.82
3,874.0	0.70	4.50	3,864.9	-168.2	-97.2	194.3	1.33	0.00	127.09
3,941.0	0.50	126.80	3,931.9	-168.0	-96.9	194.0	1.58	-0.30	182.54
4,002.0	0.60	104.00	3,992.9	-168.3	-96.4	193.9	0.39	0.16	-37.38
4,087.0	0.40	110.10	4,077.9	-168.5	-95.7	193.7	0.24	-0.24	7.18
4,173.0	0.40	29.00	4,163.9	-168.3	-95.2	193.4	0.60	0.00	-94.30
4,258.0	0.30	68.50	4,248.9	-168.0	-94.9	192.9	0.30	-0.12	46.47
4,344.0	0.50	349.80	4,334.9	-167.5	-94.7	192.4	0.62	0.23	-91.51
4,429.0	0.70	355.80	4,419.9	-166.6	-94.8	191.7	0.25	0.24	7.06
4,515.0	0.70	285.10	4,505.9	-166.0	-95.4	191.4	0.94	0.00	-82.21
4,600.0	0.70	1.10	4,590.9	-165.3	-95.9	191.1	1.01	0.00	89.41
4,685.0	0.40	92.60	4,675.9	-164.8	-95.6	190.5	0.96	-0.35	107.65
4,771.0	0.60	86.10	4,761.9	-164.8	-94.8	190.1	0.24	0.23	-7.56
4,856.0	0.30	64.80	4,846.9	-164.7	-94.2	189.7	0.40	-0.35	-25.06
4,941.0	0.50	64.90	4,931.9	-164.4	-93.6	189.2	0.24	0.24	0.12

Company:	Apache Corporation	**Local Co-ordinate Reference:**	Well Washington 33 State #47
Project:	Eddy County, New Mexico	**TVD Reference:**	WELL @ 3691.0usft
Site:	Sec 33, T17S, R28E	**MD Reference:**	WELL @ 3691.0usft
Well:	Washington 33 State #47	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Wellbore #1	**Database:**	EDM 5000.1 Single User Db

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)
5,027.0	0.50	27.30	5,017.9	-163.9	-93.1	188.5	0.37	0.00	-43.72
5,122.0	0.50	28.70	5,112.9	-163.2	-92.7	187.7	0.01	0.00	1.47
TD @ 5167' MD / 5158' TVD									
5,167.0	0.50	28.70	5,157.9	-162.8	-92.6	187.3	0.00	0.00	0.00

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
2,477.5	2,469.2	-142.2	-81.1	CROSSED HARD LINE @ 2478' MD / 2469' TVD
5,167.0	5,157.9	-162.8	-92.6	TD @ 5167' MD / 5158' TVD

Checked By: _____ Approved By: _____ Date: _____

NMOCD
Artesia

Form 3160-5
(August 2007)

EC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

5. Lease Serial No.
NMNM90864

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM109689

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

8. Well Name and No.
KIRBY BCK FEDERAL COM 1

2. Name of Operator
YATES PETROLEUM CORPORATION

Contact: MICHELLE TAYLOR
E-Mail: michelle@yatespetroleum.com

9. API Well No.
30-005-63573-00-S1

3a. Address
105 SOUTH 4TH STREET
ARTESIA, NM 88210

3b. Phone No. (include area code)
Ph: 575-748-4205

10. Field and Pool, or Exploratory
FOOR RANCH-PRE-PERMIAN

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 21 T10S R26E SENW 1980FNL 1980FWL

11. County or Parish, and State
CHAVES COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

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

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 recomplete 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 recompletion 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.)

Re: Notice 13RH16I

Yates Petroleum anticipates to have fiberglass tanks removed and replaced with low profile steel tanks by March 1, 2013

Note: Accepted For Record Only! Approval Subject To Replacing Fiberglass Tanks With Low Profile Steel Tanks!

RECEIVED
FEB 21 2013
NMOCD ARTESIA

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

Electronic Submission #196343 verified by the BLM Well Information System
For YATES PETROLEUM CORPORATION, sent to the Roswell
Committed to AFMSS for processing by DAVID GLASS on 02/06/2013 (13DRG0510SE)

Name *(Printed/Typed)* MICHELLE TAYLOR — Title REGULATORY REPORTING MANAGER

Signature (Electronic Submission) — Date 02/05/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ACCEPTED — DAVID R GLASS, Title PETROLEUM ENGINEER — Date 02/08/2013

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 Roswell

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 ****