

OCD-ARTESIA

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5 Lease Serial No NMLC-0029395A							
b Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff Resvr, Other _____		6 If Indian, Allottee or Tribe Name							
2 Name of Operator APACHE CORPORATION		7 Unit or CA Agreement Name and No							
3 Address 303 VETERANS AIRPARK LN. STE 3000 MIDLAND TX, 79705		8. Lease Name and Well No TONY FEDERAL #33							
3a Phone No (include area code) 432.818.1065		9 AFI Well No 30-015-39224							
4 Location of Well (Report location clearly and in accordance with Federal requirements)* 885' FSL & 990' FWL, SEC18, T17S, R31E, LOT 4 At surface At top prod interval reported below At total depth		10 Field and Pool or Exploratory CEDAR LAKE; GLORIETA-YESO 11 Sec, T, R, M, on Block and Survey or Area SEC18, T17S, R31E LOT 4							
14 Date Spudded 08/18/2011		15 Date T D Reached 08/26/2011							
16 Date Completed 10/14/2011 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod		17 Elevations (DF, RKB, RT, GL)* 3759' KB							
18 Total Depth MD 6440 TVD		19 Plug Back T D MD 6403 TVD							
20 Depth Bridge Plug Set MD TVD		12 County or Parish EDDY							
21 Type Electric & Other Mechanical Logs Run (Submit copy of each) QUAD COMBO		13 State NM							
22 Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy)									
23 Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No of Sks & Type of Cement	Slurry Vol (BBL)	Cement Top*	Amount Pulled
17.5	13.375	48	0	402	CIRC SURF	470 C			
11	8.625	24	0	1532	CIRC SURF	490 C			
7.875	5.5	17	0	6437	STG1-CIRC	580 C			
					STG2	510 C			
					STG2TAILCIR	175 C			
24 Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2 7/8	6335								
25 Producing Intervals				26 Perforation Record					
Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf. Status			
A) YESO			5918-6367		26	PRODUCING			
B) LWR BLINEBRY/TUBB			5442-5801		21	PRODUCING			
C)			5170-5374		20	PRODUCING			
D)			4645-4979		29	PRODUCING			
27 Acid, Fracture, Treatment, Cement Squeeze, etc									
Depth Interval		Amount and Type of Material							
5918-6367		displaced 15% spotted acid across perms, Frac w/172409 gals 18#, w/201, 178# 16/30 wht sd							
5442-5801		Acidize w/2520 gals 15% NEFE w/42 BS, Frac w/14963g acid, gals 20# w/181k 16/30 wht sd							
5170-5374		Acidize w/3528 gals 15% NEFE w/40 BS. Frac w/110586 gals 18# acid w/177109# 16/30 WHT sd.							
4645-4979		AT W/3990G 15% HCL, Frac w/142422g 18# acid, 258176# 16/30 wht sd.							
28 Production - Interval A									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
10/15/11	11/08/11		→	114	238	3014	37.4		PUMPING
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→				2087	P	
28a Production - Interval B									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

Accepted for record
NMOCD JES

RECEIVED

NOV 22 2011

NMOCD ARTESIA

RECLAMATION
DUE 11-14-12

ACCEPTED FOR RECORD

NOV 20 2011

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

28b Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29 Disposition of Gas (Solid, used for fuel, vented, etc.)

30 Summary of Porous Zones (Include Aquifers)

Show all important zones of porosity and contents thereof Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31 Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top
					Meas Depth
YATES	1350				
7 RIVERS	1669				
QUEEN	2283				
SAN ANDRES	3051				
GLORIETA	4532				
YESO RUSTLER	4587 335				
SALT B/SALT	492 1197				

32 Additional remarks (include plugging procedure)

33 Indicate which items have been attached by placing a check in the appropriate boxes

- ☐ Electrical/Mechanical Logs (1 full set req'd) ☐ Geologic Report ☐ DST Report ☐ Directional Survey
☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other

34 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) BEV HATFIELD

Title SR STAFF REGULATORY TECH

Signature

Date 11/10/2011

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

(Continued on page 3)

(Form 3160-4, page 2)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OMB No 1004-0137
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.
NMLC-0029395A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
APACHE CORPORATION

3a. Address
303 VETERANS AIRPARK LANE, STE. 3000, MIDLAND, TX 79705

3b. Phone No. (include area code)
432 818 1906

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

8. Well Name and No.
TONY FEDERAL 033

9. API Well No.
30 015 39224

10. Field and Pool or Exploratory Area
CEDAR LAKE; GLORIETA-YESO

4. Location of Well (Footage, Sec., T, R, M., or Survey Description)
885 FSL 990 FWL, SEC 18 T17S R31E LOT 4

11. Country or Parish, State
EDDY CO., NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other COMPETITION
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	PAGE ONE OF TWO
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recomplate 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection)

9-6-2011: DO DV TOOL @3511'. PBTD @ 6400'. RIH W/ 3-1/8" PERFORATING GUNS PERF LOWER BLINEBRY/TUBB ZONE FROM 5918', 41', 58', 70', 79', 6000', 21', 38', 48', 60', 70', 82', 92', 6115', 25', 70', 98', 6218', 26', 52', 70', 78', 94', 6310', 35', 67', 1' JSPF-26 HOLES.
9-9-2011: DISPLACED TBG W/ 36 BBLS 2 % KCL TITRATE ACID TO 15% SPOTTED ACID ACROSS PERFS PU W/TBG & PKR SET PKR @ 5850' ACIDIZED LOWER BLINEBRY/ TUBB START ON WTR BRK @ 2019 TREAT @ 2186# 14.2 BPM BALL OUT W/ 24 BALLS ON FORM WAITED 5 MIN RESUME PUMPING BALL OUT W 36 BALLS.
9-20-2011: START 1st STAGE LOWER BLINEBRY/TUBB FRAC. PUMP 22,050 GALS 18# PAD. PUMP 145,614 GALS 18# W/163178 LBS 16/30 WHT SD. 38K 16/30 SIBERPROP, 4745g 18# LINEAR GEL FLUSH. RIH W/ 3 1/8" GUNS & PERF MIDDLE BLINEBRY @ 5542', 5551', 8, 7, 83, 97, 5610, 20, 27, 40, 57, 67, 5685', 5696', 5712', 5728', 5742', 5759', 5768', 5783', 5801'. W/ 1 JSPF, 21 HOLES, ACIDIZE W/ 2,520 GALS 15% HCL, 42 BS. 2ND STAGE MIDDLE BLINEBRY FRAC: PUMP 18,144 GALS 18# PAD. PUMP 120,288 GALS 18# W/ 151K LBS 16/30 WHT SD, 4200g LINEAR GEL, 30K# 16/30 WHT SD. RIH W/ 3 1/8" SLICK GUNS & PERF UPPER BLINEBRY @ 5170', 5179', 5188', 5204', 5211', 5225', 5238', 5243', 5254', 5262', 5275', 5288', 5295', 5302, 5315, 28, 38, 49, 5363, 5374' W/1 JSPF 20 HOLES. ACIDIZE W/ 3,528 GALS 15% HCL @ 10.0 BPM, 1710#. DROP 40 7/8" BALL SEALERS.
9-21-2011: 3RD STAGE UPPER BLINEBRY FRAC. PUMP 18,018 GALS 18# PAD. PUMP 88,575 GALS 18# W/144,381# 16/30 WHT SD 32,728# SIBERPROP, 3990g LINEAR GEL FLUSH. RIH W/ CBP & SET @ 5100'. RIH W/3 1/8" GUNS & PERF PADDOCK @ 4645' 4658' 4682' 4694' 4704' 4724' 4740' 4750' 4768' 4878' 4784' 4792' 4800' 4816' 4820' 4832' 4838', 4847', 4865', 4880', 4891', 4904', 4927', 4932', 4942', 4951', 4963', 4979'. W/ 2 JSPF, 30 HOLES, ACIDIZE W/ 3,990 GALS 15% HCL, 58 BS. 4th STAGE UPPER PADDOCK FRAC. PUMP 21,000 GALS 18# PAD. PUMP 116,928g 18# W/215,758# 16/30 WHT SD, 37,418# SIBERPROP, 4,494g LINEAR GEL FLUSH.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)

BEV HATFIELD

Title SR STAFF REGULATORY

Signature

Date 11/10/2011

RECEIVED

NOV 22 2011

NOV 22 2011
ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

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

NOV 20 2011
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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

(Instructions on page 2)

Accepted for record
DEC 02 2011 NMOCD

709

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

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abandoned well. Use Form 3160-3 (APD) for such proposals.**

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NMLC-0029395A

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1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

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3b. Phone No. (include area code)
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7. If Unit of CA/Agreement, Name and/or No

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885 FSL 990 FWL, SEC 18 T17S R31E LOT 4

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<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>COMPETITION</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	PAGE TWO OF TWO
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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 recompleat 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 must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

10-3-2011: DO CIBP: 5100, 5500, 5850'. PBTD 6403'. RIH W/ 2 7/8" PURGE VALVE, 2 JTS OF 2 7/8" J-55 TBG, 2 7/8" CAVINS DESANDER, 2 7/8" X 4' TBW/ 2 7/8" PURGE VALVE, 2 JTS OF 2 7/8" J-55 TBG, 2 7/8" CAVINS DESANDER, 2 7/8" X 4' TBG SUB, 2 3/8" SN, 2 7/8" TK-99 BLAST JOINT, 54 JTS OF 2 7/8" J-55 TBG, 5 1/2" X 2 7/8" TAC, & 145 JTS OF 2 7/8" J-55 TBG. ETD @ 6335.13' RKB. SN @ 6248.16' RKB. TAC SET @ 4537.30' RKB
10-14-2011: HOOK UP GENERATOR, CONNECT KILL SWITCHES, & INSTALL POC. ENERGIZE MOTOR. START PROD TO TONY FEDERAL BATTERY.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

BEV HATFIELD

Title SR STAFF REGULATORY TECH

Signature

Date 11/10/2011

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

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.

NOV 20 2011

Date

BUREAU OF LAND MANAGEMENT

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.

(Instructions on page 2)

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
1885 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1885 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 3001539224	Pool Code 96831	Pool Name Cedar Lake; Glorieta-Yeso
Property Code 308738	Property Name TONY FEDERAL	Well Number 033
OGRID No. 873	Operator Name APACHE CORPORATION	Elevation 3759'

Surface Location

UL or lot No. M	Section 18	Township 17-S	Range 31-E	Lot Idn	Feet from the 885	North/South line SOUTH	Feet from the 990	East/West line WEST	County EDDY
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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
Dedicated Acres 40	Joint or Infill	Consolidation 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

GEODETIC COORDINATES
NAD 27 NME

SURFACE LOCATION

Y=665752.6 N

X=629091.3 E

LAT.=32.829535° N

LONG.=103.913077° W

LAT.=32°49'46.32" N

LONG.=103°54'47.08" W

OPERATOR CERTIFICATION

I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *Bev Hatfield* Date: 10-5-11
Printed Name: Bev Hatfield

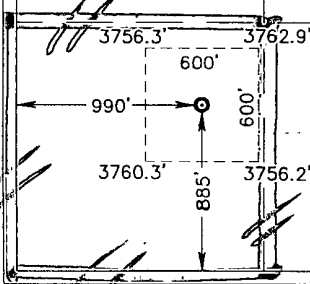
SURVEYOR CERTIFICATION

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.

DECEMBER 21, 2010

Date Surveyed: D J. EIDSON DSS
Signature & Seal of Professional Surveyor

Ronald J. Eidson 3239
10.11.1830
Certificate No. GARY G. EIDSON 12641
RONALD J. EIDSON 3239



OPERATOR Apache Corporation
WELL/LEASE Tony Federal #33
COUNTY Eddy

30-015-39224

STATE OF NEW MEXICO
DEVIATION REPORT

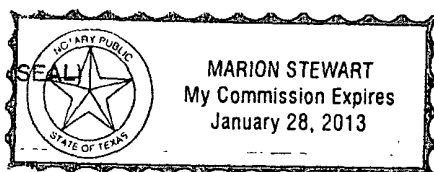
77	0.60
296	0.81
526	1.50
732	1.25
862	0.75
1432	0.75
1492	0.50
1551	0.50
1708	0.10
1866	0.30
2119	0.60
2405	0.80
2691	0.10
2973	1.20
3217	1.40
3481	1.10
3704	0.90
3988	0.40
4242	0.60
4591	0.40
4940	1.00
5130	0.80
5425	0.50
5670	0.50
5881	0.50
6167	0.20
6427	0.40

SIGNED BY: 

JAMES F. NEWMAN, VP-PERMIAN BUSINESS UNIT

STATE OF TEXAS
COUNTY OF MIDLAND

ON THIS 8 DAY OF Sept, 2011, BEFORE ME, M STEWART, A NOTARY
PUBLIC, PERSONALLY APPEARED JAMES F. NEWMAN, WHO ACKNOWLEDGED AND EXECUTED
THIS DOCUMENT. WITNESS MY HAND AND OFFICIAL SEAL.




NOTARY PUBLIC

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

Form C-104
Revised October 15, 2009

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

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address APACHE CORPORATION 303 VETERANS AIRPARK LN. STE 3000 MIDLAND, TX 79705		² OGRID Number 873
		³ Reason for Filing Code/ Effective Date NW 10-14-2011
⁴ API Number 30-015-39224	⁵ Pool Name CEDAR LAKE;GLORIETA-YESO	⁶ Pool Code 96831
⁷ Property Code 308738	⁸ Property Name TONY FEDERAL	⁹ Well Number 033

II. ¹⁰ Surface Location

UI or lot no. M	Section 18	Township 17S	Range 31E	Lot Idn (4)	Feet from the 885	North/South Line S	Feet from the 990	East/West line W	County EDDY
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¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Lse Code P	¹³ Producing Method Code pmpg	¹⁴ Gas Connection Date 10-14-2011	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
221115	FRONTIER FIELD SERVICES, LLC 4200 E. SKELLY DR. STE 700 TULSA, OK 74135	G
15694	NAVAJO REFINING CO PO BOX 159 ARTESIA, NM 88211	O
<div>RECEIVED NOV 22 2011 NMOCD ARTESIA</div>		

IV. Well Completion Data

²¹ Spud Date 2/4/2011	²² Ready Date 3/25/2011	²³ TD 6016 6440	²⁴ PBTD 6013 6403	²⁵ Perforations 4060-5585 4645-6367	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5	13.375	223'	460 SX		
11	8.625	800'	174 SX CIRC 89 SX TO SURF		
7.875	5.5	6016'	Stage 1:500 sx (117 sx to surf) Stage 2:750 sx (24 sx to surf)		
	2 7/8	5704'			

V. Well Test Data

³¹ Date New Oil 8/11/2011	³² Gas Delivery Date 10/14/2011	³³ Test Date 11/08/11	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil 114	³⁹ Water 301	⁴⁰ Gas 238		⁴¹ Test Method PMPING
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Bev Hatfield</i>			OIL CONSERVATION DIVISION		
Printed name: BEV HATFIELD			Approved by: <i>T.C. Shepard</i>		
Title: SR STAFF REGULATORY TECH			Title: Geologist		
E-mail Address: BEVERLY.HATFIELD@APACHECORP.COM			Approval Date: DEC 02 2011		
Date: 11/10/2011			Phone: 432.818.1906		