### <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240

District II

### State of New Mexico Energy, Minerals & Natural Resources

Form C-104

Revised August 1, 2011

811 S. First St., A District III	Artesia, N	M 88210			0:	Oil Conservation Division Submit one copy						to appropriate District Office			
1000 Rio Brazos	Rd., Azte	ec, NM 87	7410			1 Conservance 20 South St.		<u> </u>							
District IV 1220 S. St. Franc	is Dr., Sa	ınta Fe, N	M 8750	)5	12	Santa Fe, NI		•			L		AMENDED REPORT		
	I.	,			R ALL	OWABLE		'HO	RIZATION	TOT	ΓRAN	NSP	PORT		
Operator n	ame and								<sup>2</sup> OGRID Nu						
Apache Corpo 303 Veterans Midland TX 7	Airpark	Lane Su	uite 300	00			3 Reason for Filing Code/ Effective Date NW / 12/12/2014								
<sup>4</sup> API Numbe	er		<sup>5</sup> Pool	Name					11007 12/12/20		ool Co				
30-015			8 -5			edar Lake; Gl	orieta-Yeso			19			96831		
	330			erty Nan	1e	Raven Fe	ederal				Vell Nu	mbe	019H		
		ocation					,								
Ul or lot no. P										1	East/West line County East Eddy				
	11 Bottom Hole Location														
UL or lot no.	Section		- 1	Range	Lot.Idn	Feet from the			Feet from the		West I	ine	County		
M .	07	17		31E	4	1260	South		332	l	Vest		Eddy		
Lse Code	Prod	lucing Men Code P	thod	D:	onnection ite /2014	<sup>15</sup> C-129 Pern	nit Number	" (	C-129 Effective	Date		C-12	29 Expiration Date		
III. Oil a	nd Gas	Trans	sporte		,		!								
<sup>18</sup> Transpor OGRID						<sup>19</sup> Transpor and Ad		•					<sup>20</sup> O/G/W		
221115	F	rontie	r Field	d Service	es LLC								G		
		1200 Ea Fulsa C			ve Suite	700									
252293	3 · F	Holly E	nergy	Pipelin			0								
		Artesia		/ PO Bo 88210	X 1360										
	11.81.4					MM	OIL CON					3657			
							ARTESIA [					N.			
							APR 1	7 20	113						
	12.						RECEIVED								
[V. Well															
<sup>21</sup> Spud Da			Ready			<sup>23</sup> TD	<sup>24</sup> PBTI		<sup>25</sup> Perfora				<sup>26</sup> DHC, MC		
09/17/20		12	/12/20	2/2014 9315' 47			3 8676'		5470'-9	184' 	30				
	ole Size		28 Casing & Tubing Size				25 De	pth S	et				ss Cement		
17	'-1/2''				13-3/8"			160'			550 sx Class C				
12	-1/4"				9-5/8''	·	3455'			1450 sx Class C					
8-	3/4"			5-1/2" /	7" (Tap	pered)	9290'			625 sx Class C					
Tu	bing				2-7/8"		4653'								
V. Well	Test D	ata				<u>l</u>									
31 Date New			Delive	ry Date	33 -	Test Date	34 Test Length 35 Thg. Pressur					Τ	<sup>36</sup> Csg. Pressure		
12/12/20	į	12.	/12/20			23/2015	2								
<sup>37</sup> Choke S	ize		<sup>38</sup> Oil 520			Water 2301	<sup>40</sup> Gas 600					41 Test Method			
<sup>42</sup> I hereby cert	ify that	the rules		Oil Conse					OIL CONSER	VATIO	N DIVI	ISIO	·		
been complied	with an	d that the	e infor	mation giv	ven above	is true and									
complete to the Signature:	my kno	wledge	and belie	,	Approved by:										
Printed name:							Title:		-AS		۲ م .				
Title:							Approval Date	::	well -	ry L					
Regulatory Ar E-mail Addres								<u>-</u>	4-29-15						
Estima Vacau		achacarr	0.00										Įį.		

Pending BLM approvals will subsequently be reviewed and scanned

Phone: (432) 818-1015

Date:

04/14/2015

Form 3160-5 (August 2007)

# UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No. NMLC029435B

SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill or to re-enter a	n
shandoned well. Use form 3160-3 (APD) for such proposal	le

abandoned we	II. Use form 3160-3 (APD) for	6. If Indian, Allott	ee or Tribe Name					
SUBMIT IN TRI	PLICATE - Other instructions	on reverse side.	7. If Unit or CA/A	greement, Name and/or No.				
1. Type of Well				8. Well Name and No. RAVEN FEDERAL 19H				
✓ Oil Well ☐ Gas Well ☐ Otl  2. Name of Operator		MA VASQUEZ	9. API Well No.					
APACHE CORPORATION	E-Mail: fatima.vasquez@		30-015-4091	6				
3a. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705		Phone No. (include area code) 432-818-1015	10. Field and Pool CEDAR LAK	10. Field and Pool, or Exploratory CEDAR LAKE; GLORIETA-YESO				
4. Location of Well (Footage, Sec., T	R., M., or Survey Description)		11. County or Pari	sh, and State				
Sec 7 T17S R31E SESE 485F 32.843100 N Lat, 103.901191	FSL 180FEL W Lon		EDDY COUN	DUNTY, NM				
12. CHECK APPI	ROPRIATE BOX(ES) TO INC	DICATE NATURE OF 1	NOTICE, REPORT, OR OTH	IER DATA				
TYPE OF SUBMISSION		TYPE OI	ACTION					
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off				
_	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	■ Well Integrity				
Subsequent Report	☐ Casing Repair	☐ New Construction	□ Recomplete	Other				
☐ Final Abandonment Notice	☐ Change Plans	Plug and Abandon	☐ Temporarily Abandon	Production Start-up				
	Convert to Injection	☐ Plug Back	■ Water Disposal					
testing has been completed. Final At determined that the site is ready for for the second sec	s follows: 0 174' (CBL). 1362'. DO on DV tool. ol, circ clean @ 4366'. RIH w/ r	nill, mill debris sub.  System.  sand (100 Mesh & 40/7)	ing reclamation, have been complete  NM OI  AI	L CONSERVATION RTESIA DISTRICT				
Stage 3 - Frac 8677'-8681' w/ Stage 4 - Frac 8402'-8406' w/	179 bbls 15% HCI & 181,880# 178 bbls 15% HCI & 179,788#	sand (100 Mesh & 40/7)	0).	RECEIVED				
14. I hereby certify that the foregoing is	Electronic Submission #29825	3 verified by the BLM Wel		. ""				
Name (Printed/Typed) FATIMA V	/ASQUEZ	Title REGUL	ATORY ANALYST II					
Signature (Electronic S		Date 04/15/2						
	THIS SPACE FOR FI	EDERAL OR STATE						
Approved By  Conditions of approval, if any, are attache certify that the applicant holds legal or equivalent would entitle the applicant to conductive the applicant to c	uitable title to those rights in the subject		pending BLM approval subsequently be review and scanned full	Meg Peg				
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent s			and some many department	t or agency of the United				

#### Additional data for EC transaction #298253 that would not fit on the form

#### 32. Additional remarks, continued

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Stage 5 - Frac 8123'-8127' w/ 179 bbls 15% HCl & 179,942# sand (100 Mesh & 40/70).

11/18/2014 Stage 6 - Frac 7845'-7849' w/ 179 bbls 15% HCl & 179,824# sand (100 Mesh & 40/70).

Stage 7 - Frac 7571'-7575' w/ 179 bbls 15% HCl & 179,700# sand (100 Mesh & 40/70).

Stage 8 - Frac 7303'-7307' w/ 179 bbls 15% HCl & 179,808# sand (100 Mesh & 40/70).

Stage 9 - Frac 7023'-7027' w/ 179 bbls 15% HCl & 180,111# sand (100 Mesh & 40/70).

Stage 10 - Frac 6746'-6750' w/ 164.9 bbls 15% HCl & 180,204# sand (100 Mesh & 40/70).

Stage 11 - Frac 6430'-6434' w/ 179 bbls 15% HCl & 180,204# sand (100 Mesh & 40/70).

Stage 12 - Frac 6109'-6113' w/ 174.3 bbls 15% HCl & 180,020# sand (100 Mesh & 40/70).

Stage 13 - Frac 5789'-5793' w/ 178.9 bbls 15% HCl & 180,124# sand (100 Mesh & 40/70).

Stage 14 - Frac 5470'-5474' w/ 179 bbls 15% HCl & 180,067# sand (100 Mesh & 40/70).

12/05/2014 RIH w/ mill, DO frac ports #1-#5.

12/06/2014 DO frac ports #6-#11.

12/07/2014 Lost circ on #12 - unable to regain circ. PBTD @ 8676'.

12/08/2014 POH, LD tbg.

12/11/2014 RIH w/ 2-7/8" prod tbg. Submersible @4174'. Desander @ 4325'. ETD @ 4653'. RDMOSU. Clean loc.
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# NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-4 (August 2007)

## UNITED STATES DEPARTMENT OF THE INTERIORR 17 2015 BUREAU OF LAND MANAGEMENT

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

WELL C	COMPL	ETION (	)R	RECOMPL	ETION	REPORT	LAMB LOG

	WELL (	COMPL	ETION C	R RE	COMI	PLETIC	N REI	PORI	I GAD!	.OG			ease Serial IMLC0294				
Ia. Type of Well ☑ Oil Well ☐ Gas Well ☐ Dry ☐ Other											6. If Indian, Allottee or Tribe Name						
b. Type o	f Completion	Other		□ Wo	rk Over	De	epen	☐ Plu	g Back	☐ Diff.	Resvr.	7. U	nit or CA A	greeme	ent Name and No.		
Name of APACH	2. Name of Operator Contact: FATIMA VASQUEZ APACHE CORPORATION E-Mail: fatima.vasquez@apachecorp.com											Lease Name and Well No.     RAVEN FEDERAL 19H					
3. Address         303 VETERANS AIRPARK LN MIDLAND, TX 79705         3a. Phone No. (include area code) Ph. 432-818-1015         9. API Well No. 30-015-409												30-015-40916					
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  Sec 7 T17S R31E Mer  CEDAR LAKE; GLORIETA-Y												Exploratory LORIETA-YESO					
At surface SESE 485FSL 180FEL 32.843100 N Lat, 103.901191 W Lon  At top prod interval reported below  11. Sec., T., R., M., or Block and S or Area Sec 7 T17S R31E M												Block and Survey 7S R31E Mer					
Sec 7 T17S R31E Mer         12. County or Parish SWSW Lot 4 1260FSL 332FWL         13. State NM												13. State NM					
14. Date Spudded 09/17/2014											3, RT, GL)*						
18. Total D		MD TVD	9315 4773			ig Back T	.D.:	MD TVD	86	76	20. Dep	th Bri	dge Plug Se		MD FVD		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each)       22. Was well cored?       ☒ No       ☐ Yes (Submit analysis Submit analysis Submit analysis Directional Survey?       ☐ No       ☐ Yes (Submit analysis Submit analysis Submit analysis Submit analysis Submit analysis Submit analysis											(Submit analysis)						
23. Casing at	nd Liner Reco	ord (Repor	rt all strings	set in w			1		г		1		1	γ			
Hole Size	. Size/G	rade	Wt. (#/ft.)	To (MI	'	Bottom (MD)	Stage Co		1	f Sks. & f Cement	Slurry (BB		Cement '	Гор*	Amount Pulled		
17.500	<del></del>						55		0								
	12.250 9.625 J-55 36.0					3455	<del>                                     </del>	1450			<u> </u>						
	8.750 7.000 L-80 29.0			9290		<del> </del>			60			174		-			
8.750	5.0	500 L-80	20.0		$\dashv$	9290				02	625		174				
	<del>                                     </del>														·		
24. Tubing	Record						L								-		
Size 2.875	Depth Set (M	1D) Pa 4653	cker Depth	(MD)	Size	Dept	h Set (MI	D) [	acker Dep	oth (MD)	Size	De	pth Set (M	D) :	Packer Depth (MD)		
25. Produci		4000				26.	Perforati	on Reco	ord		<u> </u>	1					
Fo	ormation		Тор		Botto	n	Per	forated	Interval	Т	Size	1	No. Holes		Perf. Status		
A)	PADE	оск		4653	5	5141		5470 TO 9184						PROD	DUCING		
B)																	
<u>C)</u>															·		
D) 27 Acid Fr	racture, Treat	ment Cerr	ent Sauceza	Fic													
	Depth Interva		lent squeeze	, 1510.				A	mount and	Type of N	/laterial						
			84 2486 BE	ILS ACII	D & 2,480	6,425# SA	ND										
											•						
20 Dec de et	in a large and																
Date First	ion - Interval	Hours	Test	Oil	Gas	Tx	Vater	Oil G	ravity	Gas	Т	Producti	on Method				
Produced	Date . 03/23/2015	Tested	Production	BBL	MCI	F E	BBL	Corr.	API	Gravit				DUMAD (	200 0005405		
12/12/2014 Choke	Tbg. Press.	Csg.	24 Hr.	· ·520.	Gas	00.0	2301.0 Vater	Gas:C	37.0	Well S	Itatus		ELECTRIC	PUMP	SUB-SURFACE		
Size	Flwg. SI	Press.	Rate	BBL	MCI		BL	Ratio	1154								
28a, Produc	tion - Interva	L I B							1104					, A ar	provals will		
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCI		Vater BBL			Gas Gravit	y	pending BLM approvals will subsequently be reviewed and scanned					
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCI		Vater BBL	Gas:C Ratio	il	Well S	tatus	an	d scann	eo //	_		

28h Prod	uction - Interv	al C					·····	_					
Date First	Test	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas		Production Method			
Produced	Date	Tested	Production	BBL	MCF	BBL	Corr. API	Gra	avity	,			
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	We	ell Status				
28c. Produ	uction - Interv	al D		]				!					
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gra	s avity	Production Method			
Choke Size	Tbg. Press. Csg. 24 Hr. Flwg. Press. Rate						Gas:Oil Ratio	We	Well Status				
	sition of Gas(S	Sold, used	for fuel, vent	ed, etc.)		<u> </u>	_l						
30. Summ	nary of Porous	Zones (Ir	nclude Aquife	rs):					31. For	mation (Log) Ma	rkers		
Show tests, i	all important a	zones of r	orosity and co	ontents there	eof: Cored in tool open,	ntervals and a flowing and	all drill-stem shut-in pressures			, <b>O</b>			
	Formation		Тор	Bottom		Description	ns, Contents, etc.			Name		Top Meas. Depth	
Attach *Ran Contii Tansi Bottoi	ivers Res A K Y  fonal remarks ( fonments - Frac tapered prod nued Summa Il Sait 497' m Sait 13:	Disclos uction cs try of Por -1329' 29'-1507'	ure, OCD Fo og string - 5- rous Zones: Salt - N/A 'Salt - N/A	orms C-102 1/2" & 7".	SAN SS// CAF SAN DOI DOI	IDSTONE// CARBONA CARBONA RBONATE - IDSTONE - LOMITE - C	ANHYDRITE - N ANHYDRITE - N TE - OIL, GAS & TE - OIL, GAS & W/- OIL, GAS & W/- OIL, GAS & WAT OIL, GAS & WAT OIL, GAS & WAT	I/A WATE WATE ATER ATER ER	YATER SEY SER QU SAI GLO PAI	STLER TES VEN RIVERS EEN N ANDRES ORIETA DDOCK NEBRY		262 1507 1786 2403 2792 4595 4653 5141	
33. Circle	enclosed attac	chments:		<u> </u>			Domest		2 Det b	·	4. Direction		
	ectrical/Mecha ndry Notice fo	-		• /		2. Geologic 5. Core Ana	•		3. DST Rep 7 Other:	oort	4. Direction	ial Survey	
34. I hereb	by certify that	the forego	_	onic Submi	ssion #2982	71 Verified	rect as determined by the BLM We TION, sent to the	ll Infor	mation Sy		ched instructio	ns):	
Name	(please print)	FATIMA	VASQUEZ				Title RE	GULA	TORY AN	ALYST II			
Signat	ure	(Electror	nic Submissi	on)			Date <u>04/</u>	15/201	15				
			mu a se se se				<del> </del>					***************************************	
Title 18 U	S.C. Section	1001 and	Title 43 U.S.	C. Section 12	212, make it	a crime for	any person knowi	ngly an	d willfully	to make to any de	epartment or ag	gency	

### Additional data for transaction #298271 that would not fit on the form

32. Additional remarks, continued

\*\*SS-Sandstone