<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u>

Regulatory Analyst II

04/21/2015

Fatima.Vasquez@apachecorp.com

Phone:

(432) 818-1015

State of New Mexico Energy, Minerals & Natural Resources

Form C-104 Revised August 1, 2011

Submit one copy to appropriate District Office District III Oil Conservation Division 1000 Rio Brazos Rd., Aztec, NM 87410 1220 South St. Francis Dr. ☐ AMENDED REPORT District IV Santa Fe, NM 87505 1220 S. St. Francis Dr., Santa Fe, NM 87505 REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT I. Operator name and Address ² OGRID Number Apache Corporation 303 Veterans Airpark Lane Suite 3000 Midland TX 79705 ³ Reason for Filing Code/ Effective Date NW / 12/13/2014 API Number Pool Name ⁶ Pool Code 30-015-40917 Cedar Lake; Glorieta-Yeso 96831 Property Code Property Name Well Number 020H 39330 Raven Federal ¹⁰Surface Location Ul or lot no. Section Township Range Lot Idn Feet from the North/South Line Feet from the East/West line County South Eddy 07 **17S** 31E 420 180 East 11 Bottom Hole Location Lot Idn Feet from the North/South line Feet from the East/West line County UL or lot no. Section Township Range 07 17S 31E 4 409 South 333 West Eddy 12 Lse Code ¹⁷ C-129 Expiration Date Producing Method ⁵ C-129 Permit Number C-129 Effective Date 4.Gas Connection Code Date 12/13/2014 III. Oil and Gas Transporters 20 O/G/W Transporter Name Transporter **OGRID** and Address G 221115 Frontier Field Services LLC 4200 East Skelly Drive Suite 700 Tulsa OK 74135 NM OIL CONSERVATION Holly Energy Pipeline 252293 311 W Quay / PO Box 1360 ARTESIA DISTRICT Artesia NM 88210 APR 27 2815 RECEIVED IV. Well Completion Data ²⁴ PBTD ²⁶ DHC, MC 21 Spud Date 22 Ready Date ²³ TD ²⁵ Perforations 5965'-9500' 08/05/2014 12/13/2014 9638' 8713' 29 Depth Set ²⁷ Hole Size 28 Casing & Tubing Size 30 Sacks Cement 17-1/2" 13-3/8" 400' 430 sx Class C 9-5/8" 3518' 1250 sx Class C 12-1/4" 8-3/4" 5-1/2" / 7" (tapered) 9608' 800 sx Class C 2-7/8" 5138' Tubing V. Well Test Data 31 Date New Oil 33 Test Date 34 Test Length 35 Tbg. Pressure 36 Csg. Pressure 32 Gas Delivery Date 12/13/2014 12/13/2014 04/14/2015 24 38 Oil ³⁹ Water 41 Test Method 37 Choke Size 40 Gas 549 1755 936 Р OIL CONSERVATION DIVISION 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;/ Approved by: Title: Printed name: Fatima Vasquez Title: Approval Date:

Pending BLM approvals will subsequently be reviewed and scanned

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

SUNDRY NOTICES AND REPORTS ON WELLS

5. Lease Serial No. NMLC029435A

SONDKI	MOTICES WIND KELOKIS C	NA MAETES		IVIVIEG029455A	
Do not use thi abandoned we	is form for proposals to drill or II. Use form 3160-3 (APD) for s	r to re-enter an such proposals.		6. If Indian, Allottee o	r Tribe Name
SUBMIT IN TRI	PLICATE - Other instructions of	on reverse side.		7. If Unit or CA/Agree	ment, Name and/or No.
Type of Well	ner			8. Well Name and No. RAVEN FEDERAL	_ 20H
. 2. Name of Operator APACHE CORPORATION	Contact: FATIM E-Mail: fatima.vasquez@a			9. API Well No. 30-015-40917	
3a. Address 303 VETERANS AIRPARK LN MIDLAND, TX 79705	3b. Pl Ph: 4	one No. (include area code 432-818-1015	e)	10. Field and Pool, or CEDAR LAKE; (Exploratory GLORIETA-YESO
4. Location of Well (Footage, Sec., T	R M., or Survey Description)			11. County or Parish, a	and State
Sec 7 T17S R31E SESE 420F 32.842921 N Lat, 103.901190				EDDY COUNTY	, NM
12. CHECK APPI	ROPRIATE BOX(ES) TO INDI	CATE NATURE OF	NOTICE, RE	PORT, OR OTHER	R DATA
TYPE OF SUBMISSION		ТҮРЕ О	OF ACTION		
☐ Notice of Intent	☐ Acidize	□ Deepen	□ Production	on (Start/Resume)	☐ Water Shut-Off
	-	☐ Fracture Treat	☐ Reclamat	tion	☐ Well Integrity
Subsequent Report ■	-	☐ New Construction	☐ Recompl		☑ Other Production Start-up
☐ Final Abandonment Notice		□ Plug and Abandon□ Plug Back	☐ Tempora ☐ Water Di	rily Abandon	
10/17/2014 RIH w/ mill, mill d 10/20/2014 Finish mill debris 11/19/2014 Frac Upper Bline Stage 1 - Frac 9496'-9500' w/ Stage 2 - Frac 9265'-9269' w/ Stage 3 - Frac 8989'-8993' w/ Stage 4 - Frac 8713'-8717' w/	s follows: 0 100' (CBL). 1889'. DO on DV tool. Circ clean lebris sub.	eeve System. and (100 Mesh & 40/7 sand (100 Mesh & 40/6 sand (100 Mesh & 40/6 sand (100 Mesh & 40/6	0/70). 0/70). 0/70).		
14. I hereby certify that the foregoing is	Electronic Submission #298976 For APACHE CORP	verified by the BLM We ORATION, sent to the		System	
Name (Printed/Typed) FATIMA	/ASQUEZ	Title REGU	LATORY ANA	LYST II	
Signature (Electronic S	Submission)	Date 04/21/2	2015		
	THIS SPACE FOR FE	DERAL OR STATE	OFFICE US	E	
				ng BLM approva	is will
Approved By		Title	nandii	ng BLM approve	wed
Conditions of approval, if any, are attache certify that the applicant holds legal or eq which would entitle the applicant to condition of the legal of the legal or eq. Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	ed. Approval of this notice does not wan uitable title to those rights in the subject uct operations thereon.	rant or lease Office	Supse	ng BLM approva quently be revie canned	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a crime fo statements or representations as to any n	or any person knowingly and atter within its jurisdiction	id willfully and s	ment or سر.	agency of the United

Additional data for EC transaction #298976 that would not fit on the form

32. Additional remarks, continued

```
Stage 6 - Frac 8167'-8171' w/ 178.8 bbls 15% HCl & 180,265# sand (100 Mesh & 40/70). Stage 7 - Frac 7899'-7903' w/ 179 bbls 15% HCl & 182,179# sand (100 Mesh & 40/70). Stage 8 - Frac 7627'-7631' w/ 179 bbls 15% HCl & 179,973# sand (100 Mesh & 40/70). 11/20/2014 Stage 9 - Frac 7354'-7358' w/ 179 bbls 15% HCl & 180,000# sand (100 Mesh & 40/70). Stage 10 - Frac 7088'-7092' w/ 179 bbls 15% HCl & 180,066# sand (100 Mesh & 40/70). Stage 11 - Frac 6807'-6811' w/ 179 bbls 15% HCl & 179,988# sand (100 Mesh & 40/70). Stage 12 - Frac 6527'-6531' w/ 179 bbls 15% HCl & 184,004# sand (100 Mesh & 40/70). Stage 13 - Frac 6247'-6251' w/ 182 bbls 15% HCl & 180,126# sand (100 Mesh & 40/70). Stage 14 - Frac 5965'-5969' w/ 179.1 bbls 15% HCl & 95,456# sand (100 Mesh & 40/70). 12/02/2014 RIH w/ mill. 12/03/2014 DO frac ports #1-#10. Lost circ while milling on #11. 12/04/2014 POH, unplugged mill. RIH, unable to regain circ. #11-#13 frac ports remaining in hole. PBTD @ 8713'. 12/12/2014 RIH w/ 2-7/8" prod tbg. Submersible @4662'. Desander @ 4813'. ETD @ 5138'. RDMOSU. Clean loc. 12/13/2014 POP.
```

NM OIL CONSERVATION

ARTESIA DISTRICT

Form 3160-4 (August 2007)

APR 27 2015 UNITED STATES APT

FORM APPROVED OMB No. 1004-0137

(g 2007)					AND MANA			/ED				Expir	res: July	31, 2010
	WELL (COMPL	ETION C	R RE	COMPLET	ON R	EFURT	AND L	.OG			ease Serial N IMLC02943		
la. Type of	Well 🛛	Oil Well	☐ Gas '	Well	☐ Dry ☐	Other					6. If	Indian, Allo	ottee or	Tribe Name
b. Type of	f Completion	⊠ N Othe	lew Well er	☐ Worl	Over 🔲	Decpen	☐ Plug	g Back	☐ Diff. R	esvr.	7. U	nit or CA A	greeme	ent Name and No.
2. Name of APACH	Operator	RATION	E	-Mail: fa	Contact: tima.vasquez		VASQUE					case Name a		
3. Address	303 VETE MIDLAND		IRPARK LN 705	I			Phone No. 432-81		e area code)	··.	9. A	PI Well No.		30-015-40917
4. Location	of Well (Rep Sec 7	oort locati T17S R3	on clearly ar	nd in acco	ordance with Fe	deral red	quirements)*			10. I	Field and Po EDAR LA	ol, or I KE; Gl	Exploratory LORIETA-YESO
At surfa				842921	N Lat, 103.90	1190 V	/ Lon				11. 8	Sec., T., R.,	M., or	Block and Survey 7S R31E Mer
At top p		7 T17S	elow R31E Mer I 409FSL 33	35WI								County or Pa	arish	13. State
14. Date Sp 08/05/2	oudded		15. Da	ate T.D. I /20/2014			I □ D&	Complete A 🔯 3/2014	ed Ready to P	rod.		Elevations (l	DF, KE I4 GL	B, RT, GL)*
18. Total D	epth:	MD TVD	9638 5312		19. Plug Back	T.D.:	MD TVD		13	20. Dep	th Bri	dge Plug Se	t:]	MD TVD
21. Type E CNGR/	lectric & Oth SBGR/(2)M	er Mecha WD GAN	nical Logs R MMA-ROP 5	un (Subm	nit copy of eacl	1)			22. Was v Was I Direct	vell cored OST run? tional Sur		⊠ No i	🗖 Yes	(Submit analysis) (Submit analysis) (Submit analysis)
23. Casing a	nd Liner Reco	ord (Repo	ort all strings	set in we	ell)					1				
Hole Size	Size/G	rade	Wt. (#/ft.)	Top (MD		1 ~	e Cementer Depth	i .	of Sks. & of Cement	Slurry (BB		Cement 7	Гор*	Amount Pulled
17.500		75 H-40	48.0			00			430	1			0	
12.250	1	325 J-55	32.0		35 ⁻				1250				0	
8.750 8.750	 	000 L-80 500 L-80	29.0 20.0		960				800				100	
24. Tubing	Dagard													
	Depth Set (M	1D) P	acker Depth	(MD)	Size De	pth Set (MD) I	Packer De	oth (MD)	Size	De	pth Set (MI	D) [Packer Depth (MD)
2.875		5138												
25. Produci							ration Reco				-			
	ormation PPER BLINE	- PDV	Тор	5141	Bottom		Perforated		O 9500	Size	1	No. Holes	DDOI	Perf. Status DUCING
A) UF B)	PER BLINE	DRI		5141				3903 1	0 9500		\dashv		PROL	JOCING
C)								-,						
D)										·				
	racture, Treat		nent Squeeze	e, Etc.										
	Depth Interva		500 2511 BE	BLS ACID	& 2,452,296#	SAND	<u>A</u>	mount and	d Type of M	laterial				
			300 200 20											
28 Product	ion - Interval	Α												
Date First	Test	Hours	Test	Oil	Gas	Water	Oil G		Gas		Product	ion Method		
Produced 12/13/2014	Date 04/14/2015	Tested 24	Production	BBL 549.0	MCF 936.0	BBL 175	5.0 Corr.	API 37.0	Gravity	•		ELECTRIC I	PUMP:	SUB-SURFACE
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:C Ratio		Well St	atus				
200 Decd	SI Interve	I D		i				1705		OW				an .
Date First	tion - Interva	Hours	Test	Oil	Gas	Water	Oil G	ravity	Gas			Mannr(ovals	Will
Produced	Date	Tested	Production	BBL	MCF	BBL	Corr.		Gravit,	pendin	g BL	tly be re	eviev	ved
Choke Size	Tbg. Press. Flwg. Sl	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:C Ratio		Well Si	subsections and so	ann	M appro)	

		015	Date 04/21/2015			bmission)	Electronic Submission)		Signature
	ALYST II	ATORY AN	Title REGULATORY ANALYST II			Zanč	ATIMA VASO	Name (please print) FATIMA VASQUEZ	Name (
ns):	records (see attached instructions): stem.	all available ormation Sys Isbad	34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached Electronic Submission #298979 Verified by the BLM Well Information System. For APACHE CORPORATION, sent to the Carlshad	s complete and corr #298979 Verified HE CORPORAT	nformation is Submission For APAC	id attached i Electronic	e foregoing ar	certify that th	34. I hereby
al Survey	oort 4. Directional Survey	3. DST Report 7 Other:	Report	Geologic Report Core Analysis	ication	ll set req'd.) semont verif	nents: cal Logs (1 fù blugging and c	Circle enclosed attachments: 1. Electrical/Mechanical Logs (1 full set req'd.) 5. Sundry Notice for plugging and cement verification	33. Circle e 1. Elec 5. Sunc
				3linebry.	m depth of E	ones: - N/A It - N/A o get botto	of Porous Z 329' Salt 1-1507' Sa far enough t	Continued Summary of Porous Zones: Tansill Salt 497-1329' Salt - N/A Bottom Salt 1329-1507' Salt - N/A Blinebry - didn't drill far enough to get bottom depth of Blinebry.	Continued St Tansill Salt Bottom Salt Blinebry - di
			04/14/2015.	C-104. Logs mailed 04/14/2015	; C-102 & Ł 7".	g procedure CD Forms	clude pluggin Disclosure, C xtion csg strir	Additional remarks (include plugging procedure); Attachments - Frac Disclosure, OCD Forms C-1 *Ran tapered production csg string - 5-1/2" & 7"	32. Additio Attachr
262 1507 1786 2403 2792 4595 4653 4653	RUSTLER YATES SEVEN RIVERS QUEEN SAN ANDRES GLORIETA PADDOCK BLINEBRY		SANDSTONE/ANHYDRITE - N/A SANDSTONE/ANHYDRITE - N/A SANDSTONE/ANHYDRITE - N/A SS/CARBONATE - OIL,GAS & WATER SS/CARBONATE - OIL,GAS & WATER CARBONATE - OIL, GAS & WATER SANDSTONE - OIL, GAS & WATER DOLOMITE - OIL,GAS & WATER DOLOMITE - OIL,GAS & WATER	SANDSTONE// SANDSTONE// SANDSTONE// SS/CARBONAT SS/CARBONATE - CARBONATE - SANDSTONE - DOLOMITE - OI DOLOMITE - OI	497 1786 2403 2792 4595 4653 5141	· · · · · · · · · · · · · · · · · · ·	262 1507 1786 2403 2792 4595 4653 5141	ES	RUSTLER YATES SEVEN RIVERS QUEEN SAN ANDRES GLORIETA PADDOCK BLINEBRY
Top Meas. Depth	Name		Descriptions, Contents, etc.	Description	Bottom		Тор	Formation	_
	31. Formation (Log) Matricis	51. F01	II drill-stem :hut-in pressures	Summary of Porous Zones (Include Aduliers). 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.	ts thereof: Co id, time tool o	and content cushion use	nes (Include nes of porosity nterval tested,	Show all important zones (trictude Aduliers). Show all important zones of porosity and contuents, including depth interval tested, cushion and recoveries.	Show all impo tests, including and recoveries
	mation (I on) Markers	31 Eon			<i>(c.)</i>	el, vented, et	d. used for fu	Disposition of Gas(Sold, used for fuel, vented, etc., SOLD	29. Disposi
		Well Status	Gas:Oil W Ratio	Water BBL	. Gas MCF	BBF OIL	Csg. 24 Hr. Press. Rate	Tbg. Press. (Flwg. Fl	Choke Size
	Production Method	Gas Gravity	Oil Gravity G	Water BBL	Gas MCF	Test Oil Production BBL	red .	ate First Test Froduced Date	Date First Produced
			Katio	885	MCF		Press. Rate	SI Interval	Size
		Gravity Well Status		Water	MCF Gas	View	ă	Press.	Produced Choke
	Production Method	Gas	Oil Gravity G	Water	Gas		ırs	- Interva	28b. Produc Date First

Title 18 U.S.C. Section 1001 and 11te 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 fradulent statements or representations as to any matter within its jurisdiction.

Additional data for transaction #298979 that would not fit on the form

32. Additional remarks, continued

**SS-Sandstone