State of New Mexico Energy, Minerals & Natural Resources

Form C-104 Revised August 1, 2011

1625 N. French Dr., Hobbs, NM 88240 District II

811 S. First St., A	Artesia, N	IM 882-1	10.		0.	1.0	D:		Submit	one co	py to app	ropriate District Office		
District III 1000 Rio Brazos Rd., Aztec, NM 87410						l Conservation								
District IV		٠.				20 South St.			AMENDED REPORT					
1220 S. St. Franc						Santa Fe, NI								
	<u>. I.</u>			EST FO	R ALL	OWABLE	AND AUT	HO	RIZATION		RANSI	PORT		
¹ Operator n		d Add	ress			•			² OGRID Num	ber	873			
Apache Corpo	oration Airpark	Lane S	Suite 100	00					³ Reason for Filing Code/ Effective Date					
Midland TX 7									NW / 06/17/20	14	out/ Elice	are bate		
⁴ API Numbe	er'		5 Pool	Name				-		6 P	ool Code			
30-015	-41910	0			FI	REN; GLORII	ETA-YESO					26770		
⁷ Property Code 308711					ie	CROW FE	DERAL			9 11	Well Number #020H			
II. 10Sur	face L	ocati	on											
Ul or lot no.	Sectio		wnship	Range	Lot Idn	Feet from the	North/South	Line	Feet from the		West line	County		
l	10	ľ	17s	31e		2310	FSL		370	FEL		EDDY		
11 Bo	ttom I	Hole L	Locatio	n										
UL or lot no.	UL or lot no. Section				Lot Idn	Feet from the	1	outh line Feet from		East/West line		County		
1 '-	10		1 _. 7s	31e		2311	FSL		331 FW		WL	EDDY		
12 Lse Code 13 Producing Mo			Method	14 Gas Co		¹⁵ C-129 Permit Number ¹⁶ C			C-129 Effective I	-129 Effective Date 17 C-129 Expiratio				
F	'	Code		06/17	2014							!		
III. Oil a	nd Ga	s Tra	nsporte											
18 Transpor			1.			¹⁹ Transpor				,		²⁰ O/G/W		
OGRID	· .		and Address											
221115		Frontier Field Services LLC										G		
		4200 East Skelly Drive Suite 700 Tulsa OK 74135												
252293	Holly Energy Pipeline									0				
202200		311 W Quay / PO Box 1360 NM OIL CONSERVATION							M					
		Artesia NM 88210 ARTESIA DISTRICT												
W. Cont. Statistical Contract Contract Co.	85 25 5586/3MR 55							ΔN	1 6 2015		397321	MEDIUMBE CO Longitus", " Estados VIII. Colon Medium VII. SA		
economical contracts	*: "\$" (P.)"						•		- 0		gggers.	materia (2.) nation in the inches		
100	RECEIVED													
								*	SEIVEL -					
Marchen Medical	participants				-						6802200			
			,											
												,		
IV. Well						22 I			25			2/		
21 Spud Da			Ready			²³ TD	²⁴ PBTD)	25 Perforat			²⁶ DHC, MC		
02/28/20	14	U	6/17/20	J14	1 1	10296'	9882'		6262'-101	20				

²⁷ Hole Size 28 Casing & Tubing Size ²⁹ Depth Set 30 Sacks Cement 13.375" 17.5" 730 sx Class C 680' 11" 8.625" 3500' 1180 sx Class C 7.875 5.5" 10,296' 1680sx Class C Tubing 2.875" 5039'

V. Well Test Data ³⁶ Csg. Pressure 31 Date New Oil 32 Gas Delivery Date 33 Test Date 34 Test Length 35 Tbg. Pressure 06/17/2014 06/17/2014 09/25/2014 24 hrs ³⁸ Oil 40 Gas 37 Choke Size Water 41 Test Method 353 2090 303 Ρ ⁴² I hereby certify that the rules of the Oil Conservation Division have OIL CONSERVATION DIVISION been complied with and that the information given above is true and complete to the best of my knowledge and belief. Approved by: Signatur Printed name Emily Follis Title: Approval Date: Reg Analyst I E-mail Address: emily.follis@apachecorp.com Date: Phone: 432-818-1801 12/15/2014 Pending BLM approvals will subsequently be reviewed

and scanned 800

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

Do not use the	NOTICES AND REPO is form for proposals to II. Use form 3160-3 (AP	drill or to re	enter an		Lease Serial No. NMLC029426B If Indian, Allottee o	r Tribe Name	
SUBMIT IN TRI	7. If Unit or CA/Agreement, Name and/or No.						
Type of Well ☐ Gas Well ☐ Oth	8. Well Name and No. CROW FEDERAL 20H						
Name of Operator APACHE CORPORATION	9. API Well No. 30-015-41910						
3a. Address 303 VETERANS AIRPARK LA MIDLAND, TX 79705	ANE SUITE 1000	3b. Phone No Ph: 432-81	. (include area cod 8-1801	e)	10. Field and Pool, or FREN:GLORIE	or Exploratory IETA-YESO<26770>	
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description		-	11. County or Parish,	and State		
Sec 10 T17S R31E NESE 23	10FSL 370FEL			EDDY COUNTY	NTY COUNTY, NM		
12. CHECK APP	ROPRIATE BOX(ES) T	O INDICATE	NATURE OF	NOTICE, R	EPORT, OR OTHE	R DATA	
TYPE OF SUBMISSION			ТҮРЕ (OF ACTION			
- Nisting of Intent	☐ Acidize		pen	□ Product	ion (Start/Resume)	☐ Water Shut-Off	
□ Notice of Intent	☐ Alter Casing	☐ Frac	cture Treat	□ Reclam	ation	■ Well Integrity	
Subsequent Report	□ Casing Repair	□ Nev	v Construction	☐ Recomp	olete	☑ Other	
☐ Final Abandonment Notice	☐ Change Plans	Plug	g and Abandon	□ Tempor	arily Abandon	Production Start-up	
	☐ Convert to Injection	ı . 🗖 Pluş	g Back	■ Water I	Disposal		
If the proposal is to deepen direction Attach the Bond under which the wo following completion of the involved testing has been completed. Final A determined that the site is ready for the SEE ATTACHED FOR THE SEE ATTAC	rk will be performed or provid doperations. If the operation rebandonment Notices shall be fixed in the fixed performed or	e the Bond No. or esults in a multip iled only after all	n file with BLM/B. le completion or re requirements, inclu	IA. Required su ecompletion in a uding reclamatio	bsequent reports shall be new interval, a Form 316	filed within 30 days 0-4 shall be filed once	
, , , , ,	Electronic Submission # For APACH		d by the BLM W ION, sent to the		n System		
Name (Printed/Typed) EMILY FC	DLLIS		Title REGU	JLATORY AN	ALYST		
Signature (Electronic	Submission)		Date 12/16/	/2014			
	THIS SPACE F	OR FEDERA	L OR STATE	OFFICE U	SE		
_Approved_By	. 		Title			Date	
Conditions of approval, if any, are attached certify that the applicant holds legal or equinch would entitle the applicant to conditions.	uitable title to those rights in th		Office				
Title 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it a	a crime for any pe	erson knowingly ar	nd willfully to m	ake to any department or	agency of the United	

APACHE HAS COMPLETED THIS WELL AS FOLLOWS: CROW FEDERAL #20H FORM 3160-5 SUNDRY

03/14/2014 RELEASE RIG -RIG DOWN

03/21/2014 PREP TO TEST CSG & RUPTURE DISK MIRU

WEATHERFORD WL. RIH W/ CBL-CNL-GR-CCL LOGGING TOOL. LOG FROM 5300' TO SF. FOUND GOOD CMT. TOC @ 50' FROM SURF. POOH W/ LOGGING TOOLS. PREP TO TEST CSG & RUPTURE DISK 03/24/2014 PREP TO MIRUPU RIH W/TBG & BIT CO TO PBTD

03/28/2014 RIH W/ BIT & POH,RIH W/ BIT MIRUSU & REV UNIT. FOUND WELL WITH 0#. NU BOP. RACK 10500' OF 2 3/8" L80TBG. PU RIH 4 3/4 BIT, BIT SUB, XO ON 2 3/8" L80 TBG. TO 5180'. LEAVE BIT SWINGING @ 5180'. SD.SI. SDFW. PREP TO FINISH RIH TO INSURE WELL BORE CLEAN TO PBTD

03/31/2014 PERFORATE RIH W/ BIT FOUND WELL @ 0#. CONTINUE RIH W/ BIT TO PBTD @ 10177'. POH & LD TBG. SI. SDFN. PREP TO PERFORATE

05/14/2014 TEST LINES TO 8000# AND POP OFF TO 6230#.WELL CION W/ON FRAC EQPT TO FINISH FRAC OPS ON CROW 19H. MOVE LINES FROM CROW 19H TO CROW 20H. W/ON SAND AND ACID DELV AND BUILDING WATER VOLUME IN FRAC PIT. PUMPCO DOING PMP MAINTENCE

05/15/2014 FRAC STAGE #5 AT MIDNIGHT CONINUE PERF AND FRAC STAGES IN ORDER FRAC STAGE #1 THEN PERF AND FRAC STAGES #2 + #3 + #4. PERF STAGE #5 STAGE 1 - PUMPCO SERVICES TO FRAC UPPER BLINEBRY FORMATION. 260 BBLS / FORMATION BREAK @ 6000 PSI & 11.72 BPM, RAN 184 BBL 15% HCL,5083 BBL SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,69090 LBS 100 MESH SAND,72190 LBS 40/70 WHITE,39620 LBS 40/70 RC,0 TOTAL PROP = 180900 LBS, AVG PRESS = 4791 PSI, MAX PRESS = 6140 PSI, AVG RATE = 89.2 BPM, MAX RATE = 92.3 BPM, ISIP = 2000 PSI, FG = 0.772, W/ LTR = 5267 BBL. STAGE 2. RAN 182 BBL 15% HCL,4731 BBL SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,68540 LBS 100 MESH SAND,70450 LBS 40/70 WHITE,39100 LBS 40/70 RC,0 ,TOTAL PROP = 178090 LBS, AVG PRESS = 4472 PSI, MAX PRESS = 6400 PSI, AVG RATE = 91 BPM, MAX RATE = 92.2 BPM, ISIP = 2153 PSI, FG = 0.7979, W/ LTR = 5263.2 BBL STAGE 3. PUMPCO SERVICES RAN 180 BBL 15% HCL,4573.8 BBL SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,68860 LBS 100 MESH SAND,70140 LBS 40/70 WHITE,39241 LBS 40/70 RC,0 TOTAL PROP = 178241 LBS, STAGE 4. RAN 180 BBL 15% HCL,4987 BBL

SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,69340 LBS 100 MESH SAND,69820 LBS 40/70 WHITE,39260 LBS 40/70 RC,0 ,TOTAL PROP = 178420 LBS,

05/16/2014 STAGE #5 RAN 180 BBL 15% HCL.4484 BBL

SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,69940 LBS 100 MESH SAND,71360 LBS 40/70 WHITE,39080 LBS 40/70 RC,0 ,TOTAL PROP = 180380 LBS, STAGE 6. RAN 179 BBL 15% HCL,5046 BBL SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,71250 LBS 100 MESH SAND,70990 LBS 40/70 WHITE,39060 LBS 40/70 RC,0 ,TOTAL PROP = 181300 LBS, STAGE 7. RAN 180 BBL 15% HCL,4734 BBL SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,71130 LBS 100 MESH SAND,71090 LBS 40/70 WHITE,39540 LBS 40/70 RC,0 ,TOTAL PROP = 181760 LBS, STAGE 8 RAN 180 BBL 15% HCL,4713 BBL SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,71130 LBS 100 MESH SAND,71090 LBS 40/70 WHITE,39340 LBS 40/70 RC,0 ,TOTAL PROP = 181560 LBS, STAGE 9 RAN 180 BBL 15% HCL,4647 BBL SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,70190 LBS 100 MESH SAND,69490 LBS 40/70 WHITE,40560 LBS 40/70 RC,0 ,TOTAL PROP = 180240 LBS STAGE 10 RAN 178 BBL 15% HCL,4712 BBL SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,71140 LBS 100 MESH SAND,70010 LBS 40/70 WHITE,39280 LBS 40/70 RC,0 ,TOTAL PROP = 180430 LBS

05/17/2014 STAGE 11 RAN 178 BBL 15% HCL.5376 BBL

SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,69100 LBS 100 MESH SAND,70590 LBS 40/70 WHITE,40800 LBS 40/70 RC,0 ,TOTAL PROP = 180490 LBS, STAGE 12 RAN 193 BBL 15% HCL,4512 BBL SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,71460 LBS 100 MESH SAND,68390 LBS 40/70 WHITE,39480 LBS 40/70 RC,0 ,TOTAL PROP = 179330 LBS, STAGE 13 RAN 252 BBL 15% HCL,4648 BBL SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,69330 LBS 100 MESH SAND,71300 LBS 40/70 WHITE,39200 LBS 40/70 RC,0 ,TOTAL PROP = 179830 LBS, STAGE 14 RAN 223 BBL 15% HCL,4291 BBL SLICKWATER,0 BBL CROSSLINK,,0 BBL LINEAR GEL,70310 LBS 100 MESH SAND,69320 LBS 40/70 WHITE,39280 LBS 40/70 RC,0 ,TOTAL PROP = 178910 LBS

06/04/2014 TIH TO 1ST PLUG. PU SWIVEL AND ESTABLISH CIRC W/ FOAM UNIT. START DRLG 13 EA. CBP'S

06/05/2014 TOOH TO 6522'. RE ESTABLISH CIRC WILL THEN STAGE IN HOLE AND RE GAIN CIRC AND FINISH DRLG PLUG #13 AND TO PBTD OF 10250'.

06/06/2014 TOOH AND CION FOR WEEKEND

06/07/2014 RIG REMAINS ON HOLE. WILL RUN PROD EQPT MONDAY

06/09/2014 TURN WELL OVER TO PRODUCTION. WAITING FOR BATTERY TO BE COMPLETED RIH W/SUBMERSIBLE PUMP & TURN WELL OVER TO PRODUCTION EST EOT @ 5467.

LOAD & RELEASE 2 7/8 PH-6 TBG, UNLOAD & TALLY, 2 7/8 J-55 TBG, RIH W/ TBG & SUBMERSIBLE PUMP, TURN WELL OVER TO PRODUCTION, W/ END OF TBG @ 5467 06/16/2014 INSTALL DRIVE & ELECTRIC START PROD TO BATTERY FINAL REPORT

Form 3160-4 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

													1				
	WELL (COMPL	ETION C	R RE	CO	VIPLE	TION	N REP	ORT	AND L	.OG			ease Serial I MLC0294			
la. Type of	_	Oil Well	_			•	Oth						6. If	Indian, All	ottee o	or Tribe Name	
b. Type of	f Completion	_	lew Well er	□ Wor	rk Ov	er [☐ Deep] Plug	Back	☐ Dif	f. Resvr.	7. U	nit or CA A	green	nent Name and N).
2. Name of APACH	Operator	RATION	E	-Mail: e				LY FOL ecorp.co						ease Name :			
3. Address	300 VETE MIDLAND		IRPARK LN 707	#3000				3a. Ph Ph: 43		. (include 3-1801	area co	ode)	9. A	PI Well No		30-015-4191)
4. Location	of Well (Re	•		d in acc	ordan	ce with	Federa				*					Exploratory A-YESO<26770	
At surfa	ce NESE	2310FSI	L 370FEL										11. 5	Sec., T., R.,	M., o	r Block and Surve	сy
At top p	orod interval i	reported b	elow NES	E 2305	FSL	370FE	L							r Area Secounty or P		17S R31E Mer	
At total		'SW 231	1FSL 331FV	VL							-		E	DDY COL	JNTY	NM	
14. Date Sp 02/28/2				ate T.D. /14/201		hed			D&.	Complete A ⊠ 7/2014		o Prod.	17. I	Elevations (392	DF, K 24 GL	B, RT, GL)*	
18. Total D	epth:	MD TVD	10296 5836	3	19.	Plug Ba	ack T.D		MD IVD	10.	296	20. De	pth Bri	dge Plug Se	et:	MD TVD	
21. Type E CBL-CI	lectric & Oth NL-GR-CCL	er Mecha	nical Logs R	un (Sub	mit co	py of e	ach)				W	as well core as DST run rectional S	?	⊠ No	□ Ye	es (Submit analyses (Submit analyses (Submit analyses	is)
23. Casing a	nd Liner Reco	ord (Repo	ort all strings	set in w	vell)			,								. (-/
Hole Size	Size/G	rade	Wt. (#/ft.)	Toj (MI	• 1	Botte (MI		Stage Cer Dept			f Sks. & of Ceme		y Vol. BL)	Cement 7	Гор*	Amount Pull	ed
17.500		75 H-40	48.0		0	-	680					730				1	
11.000	+	325 J-55	32.0	 	0	•	3500					180		•		1	
7.875	5.5	500 L-80	17.0			- 11	0296				1	680				7	
	<u> </u>															-	
•																	
24. Tubing	Record																
	Depth Set (M		acker Depth	(MD)	Siz	ze	Depth S	Set (MD) P	acker Dep	oth (ME) Size	De	pth Set (M	D)	Packer Depth (N	1D)
2.875 25. Produci		5039					1 26 D	erforatio	n Dogo	rd							
		 -	Tam	Т	Dat		20. F					C:	T ,		T	Deef States	
	ormation PPER BLINE	BERY	Тор	6262	DO	9902	 	Реги	orated	Interval 6262 T	O 9902	Size		No. Holes	PRC	Perf. Status DDUCING	
B)				0202		0002				OLOL 1	0 0002				1		
C)																	
D)																	
	racture, Treat		ment Squeeze	e, Etc.										···			
	Depth Interva	al 262 TO 99	000 511110	:6E20 DE	21 150	V HCL 1	2640.41	00 MEGI				of Material 986,230#,4	10/70 D	2.550.044#			
	02	02 10 9	902 1 2010 (00000 DE	JL, 1J.	76 FIGE A	2049, N	OU WEST	1 900,0	10#, 40//	JVVIII	900,230#,4	+0//U R	502,041#			
							-					-					
								•			,					•	
	ion - Interval																
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		Gas MCF	Wat BBI		Oil Gra Corr. /		G: G:	avity	Product	ion Method			
06/07/2014	07/02/2014	24		75.0		115.0		1779.0		37.0				ELECTF	≀IC PU	IMPING UNIT	
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF	Wat BBI		Gas:Oi Ratio	il 1533	W	ell Status POW					
28a. Produc	tion - Interva	ıl B	<u></u>								!_						-
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL		Gas MCF	Wai BBI		Oil Gra Соп. /		Ga Ga	as avity	Product	ion Method			
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL		Gas MCF	Wat BBI		Gas:Oi Ratio	il	W	ell Status	1				
				•													

28b. Prod	uction - Interv	al C										
Date First Test Hours Produced Date Tested		Hours	Test Oil Production BBL		Gas MCF	Water BBL	Oil Gravity Corr. API		Gas Gravity	Production Method		
noke ze	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil Gas Water Gas:Oil BBL MCF BBL Ratio					Well Status	L	-	
28c. Prod	uction - Interv	'al D	1 -			1						
Date First Test Hours Produced Date Tested		Hours Tested	Test Production	Oil Gas BBL MC		Water BBL	Oil Gravity Corr. API		Gas Gravity	Production Method		
hoke ze	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio		Well Status			
29. Dispo SOLE	osition of Gas(Sold, used	for fuel, vent	ed, etc.)								
	nary of Porous	Zones (ln	clude Aquife	ers):					31. F	Formation (Log) Markers		
tests,							d all drill-stem id shut-in pressure	es				
Formation			Тор	Bottom	1	Descript	ions, Contents, etc	c.		Name Mea		
RUEEN AN AND ELORIET ADDOC LINEBR	A K	(include p	2834 3616 5108 5191 5767	3616 5108 5191 5767	D D	OLOMITE	CHERT SANDSTONE SILTSTONE,SAI	NDST	() () () () () () () () () ()	QUEEN SAN ANDRES GLORIETA PADDOCK BLINEBRY	2834 3616 5108 5191 5767	
1. Ele	e enclosed atta ectrical/Mecha andry Notice fo	inical Logs	*	• /	1	2. Geolog 6. Core A	•		3. DST I 7 Other:		Directional Survey	

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 fradulent statements or representations as to any matter within its jurisdiction.

(Electronic Submission)

Signature _

Date 12/16/2014