Form 3160-5 (November 1994)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

RECEIVED

FORM APPROVED OMB No. 1004-0135

MAY 14 2014

5. Lease Serial No.

SUNDRY NOTICES AND REPORTS ON WELLS

Jicarilla Contract #9

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals and Manage Blearilla Apache Nation dicarilla Apache Nation 7. If Unit or CA/Agreement, Name and/or No. SUBMIT IN TRIPLICATE - Other instructions on reverse side Oil Well Gas Well ☐ Other 8. Well Name and No. 2. Name of Operator Jicarilla Apache A-21 ELM RIDGE EXPLORATION CO LLC 9. API Well No. 3a. Address Phone No. (include area code) 30-039-31127 PO BOX 156 BLOOMFIELD NM 87413 505-632-3476 EXT 201 10. Field and Pool, or Exploratory Area Location of Well (Footage, Sec., T., R., M., or Survey Description) Lindr. Gal-Dak.W 1610' FNL X 899' FEL 11. County or Parish, State Rio Arriba, County NM "H" Sec.35-T25N-R05W 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent ☐ Deepen Production (Start/Resume) ■ Water Shut-Off ☐ Acidize Well Integrity Alter Casing Fracture Treat □ Reclamation Subsequent Report Casing Repair New Construction Recomplete Other Change Plans Plug and Abandon Temporarily Abandon ☐ Convert to Injection Final Abandonment Notice ☐ Plug Back ■ Water Disposal Describe Proposed or Completed Operations (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 waihin 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 detained that the give its report for the involved operator. determined that the site is ready for final inspection.)

Elm Ridge Exploration Co LLC re-fractured this well. The job summary is attached.

OIL CONS. DIV DIST. 3

MAY 16 2014

ACCEPTED FOR RECORD

MAY 14 2014

FARMINGTON FIELD OFFICE BY: William Tambekou

14. I hereby certify that the foregoing is true and correct	A mus		<u> </u>
Name (Printed/Typed) Amy Mackey	Title Sr. F	Regulatory Supervisor	
Signature	Date May 14, 2014		
THIS	SPACE FOR FEDERAL OR STATE USE		
Approved by	Title	Date	
Conditions of approval, if any, are attached. Approval of this notice certify that the applicant holds legal or equitable title to those rights which would entitle the applicant to conduct operations thereon.			

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

(Instructions on reverse)

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海 "一"	A COMPANY OF THE PARTY OF THE P	de Timera la		Data	3. 0			£ 20, 100
Date:	May 5, 2014	District:	Farmington	Customer:	Elm R	<u> </u>	S.O. #: _	901311015
Well Name:	Jicarilla Apache A #21	Legals:	S: 35 /T: 25N /R: 5W	County/State:	Rio Arrib	Da, NM	API#: _	30-039-31143
	ENTRY OF	5. 18. 40. 40. 40. 40.	Well	Data 🧎 🥕 🖖		The Table		THE THE
Job Type	7	0Q Delta 200 Foam Frac						
Formation	Gallup	Total Depth;	7,600	Tubing:	•			
Casing:	15.5#, 5.5", J-55	Ciner:		Packer:	-	interval:		
Perforations:	6 spf	Perf Size:		Total:	282	Interval	6355-6544	
(中) 解析 (義)			Treatme	nt Data 🚎 🗀	Parent P	and and	CAN ES	
AND THE STREET	lumy		am as a state	Average	Rates.	Pics	mo. v	
Ped Volume:	33,292	Pad Volume:	106,647	Clean:	15.7	Average:	3,620	
Treatment:	46,386	Treatment:	117,778	Slurry:	17.8	an Sin Sin	2,063	
A Hillish:	6,272	神代 文学 YaFlush:	6,272	Foam	49.9	5 Minute:	1,854	
是我《学生》。 Total:	85,950	語い記述:	230,697	N2 / C02	50,458	赛 本。10 Minute:	1,717	
Pad %i	39%	Sand Total:	235,520	Service O	69	15 Minute:	1,595	
			Job	Data				
idino 🐇	Volum Volum		Re	69 15 34	Pressure .	Sand	Sagre	regiption.
Stage Time	Stage Volume	Fluid Total	Sturry Rate	BH Rate	Tubing/Casing	Stage LBS	大學學科	
9:20						N/A	Start Job	
9:23			40.4	30.8	250	N/A	Pre-Pad	
	1,550	1,550	12.1					
9:26	33,292	34,842	15.6	50.1	3,522	N/A	Pad	
9:26 10:17	33,292 7,170	34,842 7,170	15.6 17.2	50.1 49.2	3,522 3,473	N/A 19,540	Pad 1#	
9:26 10:17 10:27	33,292 7,170 16,686	34,842 7,170 23,856	15.6 17.2 19.2	50.1 49.2 49.9	3,522 3,473 3,577	N/A 19,540 79,400	Pad 1# 2#	
9:26 10:17 10:27 1:33	33,292 7,170 16,686 22,530	34,842 7,170 23,856 39,216	15.6 17.2 19.2 20.8	50.1 49.2 49.9 49.4	3,522 3,473 3,577 3,876	N/A 19,540 79,400 136,580	Pad 1# 2# 3#	
9:26 10:17 10:27 1:33 2:01	33,292 7,170 16,686	34,842 7,170 23,856 39,216 28,802	15.6 17.2 19.2 20.8 33.5	50.1 49.2 49.9	3,522 3,473 3,577	N/A 19,540 79,400 136,580 N/A	Pad 1# 2# 3# Flush	
9:26 10:17 10:27 1:33	33,292 7,170 16,686 22,530	34,842 7,170 23,856 39,216	15.6 17.2 19.2 20.8	50.1 49.2 49.9 49.4	3,522 3,473 3,577 3,876	N/A 19,540 79,400 136,580	Pad 1# 2# 3#	
9:26 10:17 10:27 1:33 2:01	33,292 7,170 16,686 22,530	34,842 7,170 23,856 39,216 28,802	15.6 17.2 19.2 20.8 33.5 N/A	50.1 49.2 49.9 49.4 33.5	3,522 3,473 3,577 3,876 2,987	N/A 19,540 79,400 136,580 N/A	Pad 1# 2# 3# Flush	
9:26 10:17 10:27 1:33 2:01 2:06	33,292 7,170 16,686 22,530 6,272	34,842 7,170 23,856 39,216 28,802	15.6 17.2 19.2 20.8 33.5	50.1 49.2 49.9 49.4 33.5	3,522 3,473 3,577 3,876 2,987	N/A 19,540 79,400 136,580 N/A	Pad 1# 2# 3# Flush	
9:26 10:17 10:27 1:33 2:01 2:06	33,292 7,170 16,686 22,530 6,272	34,842 7,170 23,856 39,216 28,802	15.6 17.2 19.2 20.8 33.5 N/A	50.1 49.2 49.9 49.4 33.5	3,522 3,473 3,577 3,876 2,987	N/A 19,540 79,400 136,580 N/A	Pad 1# 2# 3# Flush	
9:26 10:17 10:27 1:33 2:01 2:06	33,292 7,170 16,686 22,530 6,272 sift of 2%KCl water.	34,842 7,170 23,856 39,216 28,802 6,272	15.6 17.2 19.2 20.8 33.5 N/A	50.1 49.2 49.9 49.4 33.5	3,522 3,473 3,577 3,876 2,987	N/A 19,540 79,400 136,580 N/A	Pad 1# 2# 3# Flush	
9:26 10:17 10:27 1:33 2:01 2:06 Frac gradient of 0.75 pt Pumped 6272 gallons of	33,292 7,170 16,686 22,530 6,272 si/ft of 2%KCI water.	34,842 7,170 23,856 39,216 28,802 6,272	15.6 17.2 19.2 20.8 33.5 N/A	50.1 49.2 49.9 49.4 33.5	3,522 3,473 3,577 3,876 2,987	N/A 19,540 79,400 136,580 N/A	Pad 1# 2# 3# Flush	
9:26 10:17 10:27 1:33 2:01 2:06 2:06 2:06 2:06 2:06 2:06 2:06 2:06	33,292 7,170 16,686 22,530 6,272 5lift of 2%KCl water. s of 25# Delta 200 Foam at a	34,842 7,170 23,856 39,216 28,802 6,272 an average surface dirtuality of 69%.	15.6 17.2 19.2 20.8 33.5 N/A	50.1 49.2 49.9 49.4 33.5	3,522 3,473 3,577 3,876 2,987	N/A 19,540 79,400 136,580 N/A N/A	Pad 1# 2# 3# Flush Shut-In	
9:26 10:17 10:27 1:33 2:01 2:06 Pumped 6272 gallons Pumped 70381 gallons Pumped 5340293 scf c Pumped 235520 pound	33,292 7,170 16,686 22,530 6,272 si/ft of 2%KCi water. 6 of 25# Della 200 Foam at a of Nitrogen at an average quids of 20/40 CRC, or 2355 sk	34,842 7,170 23,856 39,216 28,802 6,272 an average surface dirtuality of 69%.	15.6 17.2 19.2 20.8 33.5 N/A	50.1 49.2 49.9 49.4 33.5	3,522 3,473 3,577 3,876 2,987	N/A 19,540 79,400 136,580 N/A N/A	Pad 1# 2# 3# Flush Shut-In	ee
9:26 10:17 10:27 1:33 2:01 2:06 2:06 2:06 2:07 2:08 2:09 2:09 2:09 2:09 2:09 2:09 2:09 2:09	33,292 7,170 16,686 22,530 6,272 5.5i/ft 6 of 25/# Delta 200 Foam at a of Nitrogen at an average quids of 20/40 CRC, or 2355 sk 2047 bbi of fluid.	34,842 7,170 23,856 39,216 28,802 6,272 an average surface dirt ality of 69%.	15.6 17.2 19.2 20.8 33.5 N/A	50.1 49.2 49.9 49.4 33.5	3,522 3,473 3,577 3,876 2,987	N/A 19,540 79,400 136,580 N/A N/A Treater/N2 Treater	Pad 1# 2# 3# Flush Shut-In J. Chavers/E. Act U. Enabulele	Ge
9:26 10:17 10:27 1:33 2:01 2:06 2:06 2:06 2:07 2:08 2:09 2:09 2:09 2:09 2:09 2:09 2:09 2:09	33,292 7,170 16,686 22,530 6,272 si/ft of 2%KCi water. 6 of 25# Della 200 Foam at a of Nitrogen at an average quids of 20/40 CRC, or 2355 sk	34,842 7,170 23,856 39,216 28,802 6,272 an average surface dirtuality of 69%. is.	15.6 17.2 19.2 20.8 33.5 N/A Job Summary	50.1 49.2 49.9 49.4 33.5	3,522 3,473 3,577 3,876 2,987	N/A 19,540 79,400 136,580 N/A N/A	Pad 1# 2# 3# Flush Shut-In J. Chavers/E. Act U. Enabulele	ee

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LGC-36	622.5	622.5	368	387	255 -34%
BC-200	341	337	183	141	154 158 9%
LoSurf 300D	341	333	286	38	23%
HC-2	309	301	33	282	3 268 A 276 276 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5% 5%
SP	45	45	0	50	45 % 11/4 1 11/4 1
Optiflo III	75	75	0 .	77 .	80 75 4%