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

FORM APPROVED OMB NO. 1004-0137 Expires: October 31, 2014

5. Lease Serial No.

VA/ELL	COMPLETION OF	DECORADI	ETION DEDOOR	ANDIOC
VVELL	COMPLE HON OF	CRECOMPL	EHON REPORT	ANDIOG

														Jica	arilla /	\pache Lea	se 4	24
la. Type of Well Gas Well Dry Other b. Type of Completion: New Well Work Over Deepen Plug Back Diff. Resvr.,										6. If Indian, Allottee or Tribe Name Jicarilla Apache Nation								
Other:												7. Unit or CA Agreement Name and No.						
2. Name of Operator Logos Operating, LLC													8. Lease Name and Well No. Logos #8					
3. Address 4001 North Butler Ave, Building 7101 Farmington, NM 87401  4. Location of Well (Report location clearly and in accordance with Federal requirements)  1640: ENL 9. 2350: EFL LUIC											9 /	9. API Well No. 30-043-21156 - 0051						
4. Location	of Well (F	Report lo	cation	clearly ar	nd in accord	dance with Fed	eral re	quireme	ms) * [		Same	W		10.	Field a	nd Pool or E		atory
At surfac	1040 F	'NL & 2	250' F	EL, UL	G								J	11.		., R., M., on or Area Sec		
<b>A</b>	المستعددة المت				as above.					IANA	U	5 201	3		<u> </u>			13.0
At top prod. interval reported below								Farmington Field Office					<u>.</u>		or Parish		13. State	
At total depth Same as above.									Ruragu of Land Managaman					idoval			NM	
14. Date Sp 10/03/201				5. Date 1 10/15/20	`.D. Reache )13	d		116. E	Date Com D & A	pleted 1	10/31 Ready	/2013 to Prod			Elevati 8' GL	ons (DF, Rk	CB, R	T, GL)*
18. Total D					19. Ph	ig Back T.D.:						Depth B			MD			
21. Type E		D 631: her Mech		Logs Run	(Submit con	oy of each)	IVL	6256'			22.	Was wel	ll cored		TVD	Yes (Subm	it ana	lysis)
GR/CCL/						•						Was DS		/ <b>[Z]</b>		Yes (Subm		
23. Casing	and Liner I	Record	(Report	all string	gs set in wel	1)					J	Direction	nai Sur	vey: [7] N	<u> </u>	j res (Subin	и сор	y)
Hole Size	Size/Gr	ade	Wt. (#/f	ì.) T	op (MD)	Bottom (M	(D)	Stage Co		No. of Sks Type of Cer				ırıy Vol. BBL)	Cement Top*			Amount Pulled
12-1/4"	9-5/8" H	1-40	32.3	0		528' 507	′	N/A		299 s					surfa	ice 0 (i		ncludes topset cmt)
7-7/8"	5-1/2" F	P-110 1	17	0		6304'		4418'		849 sl	ks		308 b	bls	surfa	ce	75	
													<del>                                     </del>	TRICT IST				
	1					ļ							ւ Մ	DNS. DI	V DI	ST. 3		
	-						_						- KI	OV 07	2042		-	
24. Tubing	Record												[1/4]		2013		<u> </u>	
Size	Depth	Set (MD	)) Pa	cker Dep	th (MD)	Size		Depth Se	t (MD)	Packer	Depth	ı (MD)		Size	Dep	oth Set (MD)	$oxed{\Box}$	Packer Depth (MD)
2-7/8" 25. Produci	1				-		20	5 Dar	foration l	Pecord							1	<del> </del>
25. Troduci	Formatio	•		T	ор	Bottom			forated In			]	Size	No. I	loles		Per	f. Status
A) Gallup				4330'		6171'	171' 5016'-			162'			0.38"		210 open			
B)																		
C) D)												ļ				-		
27. Acid, F	racture Tre	atment (	Cement	Source	etc													
	Depth Inter		Cilicit						A	mount	and T	ype of M	1ateria					
6062'-616	2'				•	15% HCI; 40												
5838'-595			<del></del>			15% HCI; 44				<del>`</del>								
5398'-547		#20 f																2.58mmscf N2
5242'-536 28. Product		#32 for	່ວເກ	Frac w/	40DDIS OI	15% HCI; 28	3700	IS SIICKV	vater 70	Q NZ,	10,00	JU# 10C	Jiviesi	1, 104,000	# 40//	U Ottawa S	sano,	, 2.57mmscf N2
Date First		Hours	Tes		Oil	Gas	Wate	r	Oil Grav			as	Pr	oduction M	ethod			
Produced		Tested	Pro	duction	BBL	MCF	BBL		Corr. AF	1	G	ravity	F	lowtest wi	ll be r	eported on	1st E	Delivery.
Chalta	Tbg. Press.	Con	24 1	Úr.	O Oil	0 Gas	0 Wate	<u> </u>	Gas/Oil	<del></del>	- 147	ell Statu						
Size	Flwg.	Press.	Rat		BBL	MCF	BBL		Ratio		"	ch Statu	13					
	SI	0	-	<b>→</b>	0	0	0											
28a. Produc			h <del>-</del>		lo:	la	harm		lo:1.C		- F		ln-	- 4: -4: N	Λ <i>Ω</i>	W Composite	<u> </u>	n record
Date First Produced	Test Date	Hours Tested	Tes Pro		Oil BBL	Gas MCF	Water BBL	r	Oil Grav Corr. AP			as ravity	Pr	oduction M	etnoa	9 <b>9</b> 233 1 2 <b>3</b> 5 2	,, ,	VE UNESCOON DES
_	'		-	<b>→</b>												NOV (	15	2013
	Tbg. Press.		24 1		Oil	Gas	Wate	r	Gas/Oil		w	ell Statu	s		E-V-2			
	Flwg. SI	Press.	Rat	e -	BBL	MCF	BBL		Ratio							Willia	M.	Tambekou
i		l		-	i	1	1		1									

<sup>\*(</sup>See instructions and spaces for additional data on page 2)

201 20										<del> </del>				
	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						
	uction - Inte	rval 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	Well Status					
29. Dispos	l sition of Gas	S (Solid, us	ed for fuel, ve	nted, etc.)										
30. Sumn	ary of Poro	us Zones	(Include Aqui	fers):				31 Formati	ion (Log) Markers					
Show a	Il important ng depth int	zones of p	orosity and co	ontents the		intervals and all ng and shut-in p	drill-stem tests, pressures and	J. Tomas	on (Eog) Markers					
F			Danta							Тор				
Formation		Top	Bottom		Desc	riptions, Conter	nts, etc.		Name	Meas. Depth				
Ojo Alamo Kirtland		1377 1532												
Fruitland Pictured Clif	fs	1762 1906												
Lewis Cliff House		2002 3421												
Menefee Point Looko	ut	3467 4138												
Mancos Gallup		4330 5223												
Greenhom Graneros		6122 6172												
Dakota		6198												
32. Additional remarks (include plugging procedure): #27 **5016'-5110' Frac w/48bbls of 15% HCl; 4505 bbls of slickwater, 10,100# of 100Mesh; 79,900# 40/70 sand. #28														
LOGOS v	vill file a su	ubsequer	nt production	n allocatio	on sundry u	pon recovery	of frac load.							
33. Indicate	which iten	ns have bee	en attached by	placing a	check in the a	appropriate boxe	es:							
☐ 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)*														
		orini) Tan	nra Session	s			Title Operation							
Sig	nature	1 cm	J-822				Date 11/05/201	3						
Title 18 11 S	C Section	1001 and	Title 43 U.S.C	Section	1212 make it	a crime for any	nerson knowingly	and willfully to n	nake to any department or agen	cy of the United States any				

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)