s. 7.														Ou	ue	nde	6
				NV N	JIST.	3						1	REC	CEIV	ED		
Form 3160	0-4	DIL CO	JNS.1),,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,													
Form 3160-4 (June 2015) OIL CONS. DIV DIST. 3 RECEIVED OCT DEPARTMENT OF THE INTERIOR AMENDED T 1 6 2017 FORM APPROVED OMB NO. 1004-0137									APPROVED								
BUREAU OF LAND MANAGEMENT OMB NO. 1004-0137 Expires: January 31, 2018																	
,										indary 51, 2018							
WELL COMPLETION OR RECOMPLETION REPORT AND LOG armington F Global Serial No. Bureau of Land INMMM184691t																	
1a. Type of Well Image: Gas Well Image: Dry Other 6. If Indian, Allottee or Tribe Name									or Tribe Name								
b. Type of Competion ☑ New Well □ Work Over □ Deepen □ Plug Back □ Diff. Zones □ Hydraulic Fracturing Other: 7. Unit or CA Agreement Name and No. CA - NMNM136868																	
2. Name of Operator 8. Lease Name and Well No.																	
3. Address	LOGOS Operating, LLC Heros 2308 09L Com 1H 3. Address 3a. Phone No. (Include area code) 9. API Well No.																
the second se	on Place, F			the second se		1			5-324-						0-045-3		Exploratory
4. Locatio						ordance with F		al require	ements)*					N	lageezi	Gallup	
At surfa	ice	01 210	, , , , , , , , , , , , , , , , , , , ,		v, L 000	5, 12514, 1407	v							1	1. Sec.,	T., R., M., or	n Block and
															Surve	y or Area S	ec 9, T23N, R8W
At top p	rod. interval	reported	d below											1	2. Coun	ty or Parish	13. State
At total	depth 238	0' FNL	1310' FV	VL, NV	V/SW, E	Sec 16, T23N	N, R8	3W						S	an Juai	ı	NM
14. Date S					D. Reach	ed			ate Com								KB, RT, GL)*
1/21/201	7 Depth: MD	1059		2017	19 Ph	ig Back T.D.:	MD]D&A		-	to Proc		Plug Se	916' GL		
	TV	D 5275					TVD	5186'							TVD		
-1		ther Med	chanical I	Logs R	un (Subm	it copy of each	1)					Was we					omit analysis)
GR/CCL												Was DS Directio		? l urvey? [Yes (Sub Yes (Sub)	
23. Casing	g and Liner	Record (Report al	lstring	s set in w	ell)										[] 100 (040	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Hole Size			Vt. (#ft.)		p (MD)	Bottom (MD))	Stage Ce Dep	menter	No.	of Sks of Cer	s. & ment	Sh	urry Vol. (BBL)	Ce	ment Top*	Amount Pulled
12-1/4"	9-5/8" J-	55 36	5#	0'		329 GL	N	N/A		190 s		mont	40 bl	· /	0' C	IR	6 bbls
8-3/4"	7" J-55	23	3#	0'		5840'	5	5100', 24	140'	850 s	ks		267	bbls	0' C	IR	50 bbls
6-1/8"	4-1/2" P	110 11	1.6#	5665		10582'	N	N/A		450 s	ks		109	bbls	566	5' CIR	20 bbls
							_										
							-										
24. Tubing	g Record					p											
Size		Set (MD)			(MD)	Size		Depth Set		Packer		(MD)		Size	De	oth Set (MD)	Packer Depth (MD)
2-3/8" 25. Produc	cing Interva	269')	ESPI-	+ +0	string	2-7/8"	20	6 Perfoi	5614') 5607'								
	Formation			To		Bottom		Per	rforated I	forated Interval Size				o. Holes		Perf. Status	
A) Gallup B)	0		48	352' V	D	5275' VD	-	872'-10)	0.40" / 3spf			of 768		open	
<u>с)</u>							5	275'-51	86. VD								
D)							+										
27. Acid, 1			Cement S	Squeez	e, Post hy	draulic fracturi											
5872'-10	Depth Interv	/al	En	00.00/5	7000504	Am 20/40 Brady		Type of N						-	on FracF	ocus.org	FOR RECORD
3072-10	522 IVID		FI	ac w/c	1990304	- 20/40 brauy	Sall	iu, 5110	IDDIS /	0 70 112	Fuar	11, 42.1	7 1111	1301 142			
																OCT 1	2 2017
															-	MINICT OF	DOFFICE
28. Produc Date First	Test Date	Hours	Test		Oil	Gas	Wate	er	Oil Gra	vity	G	as	P	Productio		d Drive	COUTICE
Produced	1051 Date	Tested	Produ	ction		MCF	BBL		Corr. A			ravity		Gas Lift			
9/15/17	9/27/17	24	-		1038	461	304										
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate		Oil BBL	Gas MCF	Wate		Gas/Oil Ratio			/ell Stat					
n/a	SI	670	Trate		1038	461	304		runo		F	lowing					
	175 flwg																
Date First	Test Date	Hours	Test		Oil	Gas	Wate		Oil Gra			as	P	roductio	n Metho	d	
Produced		Tested	Produ	ction	BBL	MCF	BBL	·	Corr. A	PI.	G	ravity					
Cheles	The Deve	Car	-		0:1	Cas	Wet		Gento		37	Inll Ct.					
Choke Size	Flwg.	Csg. Press.	24 Hr. Rate		Oil BBL	Gas MCF	Wate BBL		Gas/Oil Ratio		W	ell Stat	us				
	SI																

*(See instructions and spaces for additional data on page 2)

\$

NMOCDAY

28b. Produ	28b. Production - Interval C									
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	S	
28c. Produ	iction - Inter	val 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		
29. Dispos	ition of Gas	(Solid, us	ed for fuel, v	ented, etc	.)					
Sold										
30. Summary of Porous Zones (Include Aquifers): 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.									on (Log) Markers	

					Тор
Formation	Тор	Bottom	Descriptions, Contents, etc.	Name	Meas. Depth
Ojo Alamo Kirtland	0850 1055				
Fruitland Pictured Cliffs	1186 1540				
Lewis Cliff House	1650 3076				
Menefee Point Lookout	3101 4001	3			
Mancos Gallup	4177 4852				

32. Additional remarks (include plugging procedure).

40

P 0

33. Indicate which items have been attached by placing a check in the appropriate boxes:										
	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.	34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*									
	Name (please print) Tamra Sessions	Т	tle Regulatory Specialist							
	Signature Tamfonin	ø D	10/04/2017							
	le 18 U.S C. Section 1001 and Title 43 U.S C. Section 1212, se, fictitious or fraudulent statements or representations as to			lfully to make to any department or agency of the United States any						
(Co	ontinued on page 3)			(Form 3160-4, page 2)						

*	01	LCO	NS.D	וע אן	01	1	7		1							
	0.		CT 1					-		RE	EC	EIVE	ED			
Form 3160- (June 2015						ITED STATE	S			00	T () 4 2	017			
(June 2015	,		Ι	DEPAI		NT OF THE		OR								PPROVED 1004-0137
			B	UREA	UOF	LAND MAN	AGEME	ENT	F	armino	ator	Field	Office	E		nuary 31, 2018
•	WEL	L CO	MPLE	TION	ORR	ECOMPLE	TION R	EPORI	AND	LOG	Lan	id Mai	nagem	ente Se NM184		
la. Type of	f Well	V Oil	Well	Gas	Well	Dry D	Other						6. If	f Indian.	Allottee o	r Tribe Name
		Ne	w Well	Wor	k Over	Deepen	Plug Back	Diff.	Zones	🗌 Hydi	raulic	Fracturi		1.14		
	Other: 7. Unit or CA Agreement Name and No. CA - NMNM136868															
2. Name of	2. Name of Operator 8. Lease Name and Well No. LOGOS Operating, LLC Heros 2308 09L Com 1H															
3. Address	LOGOS Operating, LLC Heros 2308 09L Com 1H 3. Address 3a. Phone No. (Include area code) 9. API Well No.															
	n Place, Fa	~	-			ordance with Fe		505-324-						045-35		Exploratory
4. Location						9, T23N, R8W		(remems)					Nag	eezi G	allup	1 2
At surfac	e		-, .										11.	Sec., T.,	R., M., on	Block and
,																ec 9, T23N, R8W
	od. interval														or Parish	13. State
		D' FNL 1				Sec 16, T23N								Juan		NM
14. Date S 1/21/2017				Date T. /2017	D. Reach	ned		Date Con						Elevatio	ons (DF, R	KB, RT, GL)*
	Depth: MD		2'	2011	19. Pl	ug Back T.D.:	MD 10532						lug Set:	MD		
21 Turne F		D 5275		Lass	(C. h.		TVD 5186'							TVD	7 Mag (Sul	wit analysis)
GR/CCL	lectric & O	ther Med	chanical	Logs R	un (Subn	nit copy of each)			22. Was		T run?				mit analysis) mit report)
OIVOUL] Yes (Sub	
23. Casing	and Liner I	Record (Report a	ll string	s set in v	vell)								_		1
Hole Size	Size/Gra	ade V	Vt. (#ft.)	To	p (MD)	Bottom (MD) Stage	Cementer epth	No. Type	of Sks. & of Cemer	t nt	Slur (B	ry Vol. BL)	Cem	ent Top*	Amount Pulled
12-1/4"	9-5/8" J-	55 36	6#	0'		329 GL	N/A		190 s	ks		40 bbl	S	0' CIF	२	6 bbls
8-3/4"	7" J-55		3#	0'		5840'	5100',	2440'	850 s			267 bł		O' CIF	-	50 bbls
6-1/8"	4-1/2" P	110 11	1.6#	5665		10582'	N/A		450 s	ks	_	109 bł	ols	5665'	CIR	20 bbls
											-					
24. Tubing									1							I
Size 2-3/8"		Set (MD) 54'	Pack	ker Dept	(MD)	Size 2-7/8"		Set (MD) 269'		Depth (M 5607'	1D)	S	ize	Dept	n Set (MD)	Packer Depth (MD)
	ing Interval					2-110		foration R		5007						
A) = "	Formation	1		To		Bottom		Perforated Interval Size					Holes		Perf. Status	
A) Gallup B))		4	852' V	D	5275' VD						768		open		
C)							5275-3	5275'-5186' VD								
D)																
27. Acid, F			Cement	Squeez	e, Post h	ydraulic fracturi								-		
5872'-105	Depth Interv	al	F	rac w/F	799050	Am # 20/40 Brady	Sand 31							FracFoc	aus.org	
0012-100	LE NID			100 00/0	, 00000	20140 Diady	Sund, ST	1010013	0701112	i oani,	74.1	i initia	01112	ACC	EPTED	FORRECORD
															OCT	0 5 2017
28. Produc Date First	tion - Interv Test Date	Hours	Test	1	Oil	Gas	Water	Oil Gr	avity	Gas		Pr	oduction	Method	MINICTO	REPOFFICE
Produced		Tested	Prod	uction	BBL	MCF	BBL	Corr. A		Grav			as Lift	FAT		
9/15/17	9/27/17	24			1038	461	304							01	U	
Choke Tbg. Press. Csg. 24 Hr. Oil Gas Water Gas/Oil Well Status Size Flwg. Press. Rate BBL MCF BBL Ratio Flowing																
N/2 SI 670 1038 461 304]							
	175 flwg action - Inter															
Date First	Test Date	Hours	Test		Oil	Gas	Water	Oil Gr		Gas		Pro	oduction	Method		
Produced		Tested		-	BBL	MCF	BBL	Corr. A	API.	Grav	vity					
Chalas	The D	Cra	24.11		03	0.00	Wata	0	.1	112-1	1.6	1				
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 H Rate		Oil BBL	Gas MCF	Water BBL	Gas/O Ratio	11	Wel	1 Sta	tus				
	SI															

*(See instructions and spaces for additional data on page 2)



CONFIDENTIAL



28b. Produ	iction - Inter	val							
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. APl.	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	
28c. Produ	ction - Inter	val 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	

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

Sold

.

			TC .			
	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.					
30.	Summary of Porous Zones (Include Aquifers):	31. Formation (Log) Markers				

	Тор Во	D		N	Top
Formation		Bottom	Descriptions, Contents, etc.	Name	Meas. Depth
Ojo Alamo Kirtland	0850 1055				
Fruitland Pictured Cliffs	1186 1540				
Lewis Cliff House	1650 3076				
Menefee Point Lookout	3101 4001				
Mancos Gallup	4177 4852				

32. Additional remarks (include plugging procedure).

33. Indicate which items have been attached by placing a ch	Indicate which items have been attached by placing a check in the appropriate boxes:										
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)*											
Name (please print) Tamra Sessions	Tit	tle Regulatory Specialist									
Signature Jam Jorem	te 10/04/2017										
Title 18 U.S C. Section 1001 and Title 43 U.S C. Section 1212, false, fictitious or fraudulent statements or representations as to			fully to make to any department or agency of the United States any								
(Continued on page 3)			(Form 3160-4, page 2)								