Form 3160-4 (June 2015)

24. Tubing Record

Producing Intervals

Depth Set (MD)

Size

2-3/8"

NMOCD

Packer Dept (MD)

UNITED STATES MAY 1 4 DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

AMENDED

FORM APPROVED OMB NO 1004-0137

Farmington Field Offerpires: January 31, 2018

WELLSCOMPLETION OR RECOMPLETION REPORT AND LOGUE au of Lar 5. Lease Serial No. NMNM18463 la. Type of Well ✓ Oil Well 6. If Indian, Allottee or Tribe Name Gas Well ☐ Dry Other b. Type of Competion ☑ New Well ☐ Work Over ☐ Deepen ☐ Plug Back Diff. Zones Hydraulic Fracturing 7. Unit or CA Agreement Name and No. 2. Name of Operator 8. Lease Name and Well No. LOGOS Operating, LLC Athena 2308 14L 2H 9. API Well No. 3. Address 3a. Phone No. (Include area code) 2010 Afton Place, Farmington, NM 87401 505-324-4145 30-045-35633 10. Field and Pool or Exploratory 4. Location of Well (Report location clearly and in accordance with Federal requirements)* Basin Mancos 2151' FSL 566' FWL, NW/SW, L Sec 14, T23N, R8W At surface Sec., T., R., M., on Block and Survey or Area Sec 14, T23N, R8W At top prod. interval reported below 13. State 12. County or Parish NM San Juan At total depth 376' FSL 279' FWL, SW/SW, M Sec 15, T23N, R8W 17. Elevations (DF, RKB, RT, GL)* 14. Date Spudded 15. Date T.D. Reached 16. Date Completed 04/05/2018 6878' GL 2/10/2018 2/28/2018 □D & A ☑ Ready to Prod. 18. Total Depth: MD 10869 MD 19. Plug Back T.D.: MD 20. Depth Bridge Plug Set: TVD 5105' TVD 5103 TVD 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) Was well cored? ✓ No ☐ Yes (Submit analysis) ☑ No ☐ Yes (Submit report) GR/CCI Was DST run? Directional Survey? No V Yes (Submit copy) 23. Casing and Liner Record (Report all strings set in well) Stage Cementer Depth No. of Sks. & Type of Cement Slurry Vol (BBL) Size/Grade Hole Size Wt. (#ft.) Top (MD) Bottom (MD) Cement Top* Amount Pulled 12-1/4" 9-5/8" J-55 36# 0' CIR 10 bbls 326 GL n/a 101 sks 29 bbls 7" J55 L80 P110 23#, 26# 8-3/4" 5923 0' CIR 50 bbls 0 739 sks 236 bbls n/a 6-1/8' 4-1/2" P110 11.6# 5764 10865 509 sks 123 bbls 5764' CIR 20 bbls n/a 6-1/8" 4-1/2" p-110 11.6# 4478 5764 0 0 n/a no cmt

A) Mancos 4375' VD 5192' VD 6571'-10813' MD 0.38" / 3spf open B) 6179'-6540' MD 0.38" / 2spf 48 open C) D) Acid, Fracture, Treatment, Cement Squeeze, Post hydraulic fracturing chemical disclosures on FracFocus.org CCFPTED FOR

Depth Set (MD) Packer Depth (MD)

Perforation Record

Perforated Interval

5712

Size

No. Holes

800

Depth Set (MD)

Packer Depth (MD)

Perf. Status

Depth Interval Amount, Type of Material and Date of Chemical Disclosure upload on FracFocus.org 6179-10813' MD Frac w/6,549,921# 20/40 Brady Sand, 1,371,792bbls 70% N2 Foam, 46.12 mmscf N2

Size

2-7/8"

Bottom

28. Production - Interval A Production Date First | Test Date Hours Oil Water Oil Gravity Test Gas Gas RRI Produced Tested Production MCF BBL Corr. API Gravity Gas Lift 5064 4/23/18 4/24/18 12 244 224 Choke Tbg. Press. Csg. 24 Hr Oil Gas Water Gas/Oil Well Status Rate BBL MCF BBL Size Flwg Ratio Flowing 44/64 5064 550 438 424 764 28a. Production - Interval B Date First Test Date Hours Test Oil Gas Water Oil Gravity Gas Production Method Produced Production BBL MCF BBL Corr. API. Tested Gravity Choke 24 Hr Water Well Status Tbg. Press. Oil Gas/Oil Csg. Gas Flwg. Size Press. Rate BBL MCF BBL Ratio

SI





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

201 D - 1	T	1.C		·									
Date First	Test Date	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method				
Produced	rest Date	Tested	Production	BBL	MCF	BBL	Corr. API.	Gravity	Troduction Medica				
Choke Size Tbg. Press. Csg. Rate Bl					Gas MCF				Well Status				
28c. Produ	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 Tbg. Press. Csg. 24 Hr. Rate Issue SI					Gas MCF	Water BBL	Gas/Oil Ratio	Well Status					
29. Dispos	sition of Gas	s (Solid, us	sed for fuel, ve	ented, etc	.)								
30. Summ	ary of Poro	us Zones (Include Aquif	ers):				31. Formatio	on (Log) Markers				
	ing depth int					intervals and a ving and shut-ir	ll drill-stem tests, pressures and						
				T						Тор			
Form	nation	Тор	Bottom		Descri	ptions, Conten	ts, etc.		Name	Meas. Depth	1		
Ojo Alam Kirtland	no	896 1053											
Fruitland Pictured		1154 1502											
Lewis Cliff Hous	se	1638 3009											
Menefee Point Loc		3102 4152											
Mancos Gallup	1	4375 5193											
Gallup		3193											
			<u> </u>										
32. Additio	onal remark	s (include	plugging proc	eedure).									
33. Indicate	e which iten	ns have be	en attached by	y placing	a check in the	ne appropriate	boxes:			NAME OF TAXABLE PARTY O			
Electrical/Mechanical Logs (1 full set req'd.)						eologic Report	☐ DST Rep	ort [✓ Directional Survey				
Sund	dry Notice for	plugging a	nd cement verifi	cation	С	ore Analysis	Other:						
			_		rmation is co	omplete and co	rrect as determine	d from all availa	able records (see attached in	nstructions)*			
Na	ame (please	print) Ma	rie E Florez	71.			Title Regulatory						
Sig	gnature	WW	MY	TLON	16		Date 04/27/2018	}					
Fitle 18 U.S	C. Section 1	1001 and T	itle 43 U.S.C.	Section 1:	212, make it	a crime for any ter within its jur	person knowingly a	and willfully to r	make to any department or ag	gency of the United State	s any		

(Continued on page 3) (Form 3160-4, page 2)

NMOCD

Form 3160-4 (June 2015)

MAY 1 4 2018 UNITED STATES

DEPARTMENT OF THE INTERIOR

DEPARTMENT OF LAND MANAGEMENT

APR 2 / 20'

AMENDED

FORM APPROVED OMB NO. 1004-0137

Farmington Field Offingers: January 31, 2018

	U	214	1 6 12	11				. 021.12			В	ure	au of I	and N	lange	ement		,	
	WE	LL CO	MPLE	TIO	N OR R	ECOMPLI	ET	ION RE	PORT	AND	LOG	ar c	ad Of E	5. I	ease So NM184	erial No.			
la. Type			l Well				Otl		□D:#:	7		1:	Г.,,		f Indian	, Allottee o	r Tri	be 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.							
	of Operator Operating,									-				100000000000000000000000000000000000000		ame and W		0.	
3. Addres			on NIM	8740	11				n. Phone		clude ar	еа со	ode)	9. A	PI Wel 045-35	l No.			
				-		ordance with F	ede							10.	Field ar	nd Pool or I	Explo	oratory	
At surfa	2151' ce	FSL 566	'FWL,	NW/S	W, L Sec	14, T23N, R8	3W							11.	Sec., T.	. R., M., or	Blo	ck and	
															Survey	or Area Se	ec 14	4, T23N, R8W	
At top prod. interval reported below													12. County or Parish 13. State San Juan NM						
	At total depth 370 1 3L 273 1 VVL, 3VV/3VV, W 3ec 13, 123N, NOV													17. Elevations (DF, RKB, RT, GL)*					
2/10/201	8		2/2	8/201	8				D & A	Z R	eady to	Prod		687	8' GL	olis (DF, K	ND, I	(1, (1))	
18. Total	Depth: MI TV	D 5105			19. Plu	ig Back T.D.:	MI TV	D 10836' 7D 5103'			20. Dep	pth B	ridge Plu	ig Set:	MD TVD				
	Electric & C	ther Mec	hanical	Logs I	Run (Subm	it copy of eacl	h)						l cored?			Yes (Sub			
GR/CCL Was DST run? Directional Survey												Yes (Sub Yes (Sub							
23. Casing	g and Liner	Record (Report a	ll strin	gs set in w	ell)		T											_
Hole Size	Size/Gr	ade V	Vt. (#ft.)	Te	op (MD)	Bottom (MD)		Stage Cementer Depth		No. Type	No. of Sks. & Type of Cement		Slurry (BB	Slurry Vol. (BBL)		Cement Top*		Amount Pulled	
12-1/4"	9-5/8" J				n/a					29 bbls			0' CIR		bbls				
8-3/4"		J55 L80 P110 23#, 26# 0' 5923'					739 sk			236 bbl					bbls				
6-1/8"	6-1/8" 4-1/2" P110 11.6# 4478 10865'							n/a 509 s		509 sk	S	123 bb		S	5764' CIR		201	obls	
	+	_		-								-					-		
												1							
24. Tubing																			
2-3/8"		Set (MD) 145'	Pack	er Dep	t (MD)	Size 2-7/8"	-	Depth Se	-		Depth (M 712'	(D)	Size	2	Depth	Set (MD)	+	Packer Depth (MD)
	ing Interva					2-110		26. Perfo			712								
4) 14	Formation	n			ор	Bottom			rforated li			_	ize	No. F	Holes		Per	rf. Status	
A) Manco	OS		4	375' V	5192' VD	VD 6571'-10813' N 6179'-6540' ME						800		open					
C)			_				-	6179-65	40' MD		- 10	0.38	/ 2spf	48	8 open				
D)			_		-		1				_	-	A.C.						
27. Acid, I	racture, Tre	eatment, (Cement	Squeez	ze, Post hyd	draulic fractur	ing	chemical	disclosur	es on Fi	racFocus	s.org	AL	-EP	LED	FOR	RE	CORD	
0.170 100	Depth Interv	val						t, Type of N								us.org			
6179-108	13' MD		FI	ac w/t	5,549,921	# 20/40 Brad	ly S	and, 1,3	/1,/92b	bis 70%	6 N2 F0	oam,	46.12 n	nmscf	AY	0.9 20	18		
															7	n			
													FAR	MINC	1	VEHICLE	0	FFICE	
	tion - Interv	T	Tast		Oil	Car	11/		IO:1 Cre		ICar		By:		\sim				
Date First Produced	Test Date	Hours Tested	Test Produ	etion	Oil BBL	Gas MCF	BE	ater BL	Oil Gra		Gas Grav	rity		uction N	vietnoa				
4/23/18	4/24/18	12	100000		244	5064	22	4					Cas	LIIL					
		24 Hi Rate	:	Oil BBL			ater Gas/Oil Ratio			Well Status		IS							
44/64	SI 764	550			438	5064 42					Flowing								
28a. Produ	ction - Inter	val B												Mary Control					
Date First Test Date Hours Test Oil Gas Water Produced Production BBL MCF BBL									Oil Gravity Corr. API.		Gas Grav	Gas Gravity Product		uction N	lethod				
Choke Tbg. Press. Csg. 24 Hr. Oil Bize Flwg. Press. Rate BBL						Gas MCF	Wa BB		Gas/Oil Ratio			Well Status							



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

201 2		1.0								
Date First	Test Date	Hours	Test	Oil	Gas	Water	Oil Gravity	Gas	Production Method	
Produced	lest Date	Tested	Production		MCF	BBL	Corr. API.	Gravity	1 Todaction 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	action - 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		
29. Dispos	sition of Ga	s (Solid, us	sed for fuel, v	ented, etc.)					
30. Summi	ary of Poro	us Zones (Include Aquif	ers):				31. Formatio	on (Log) Markers	
Show a	all important	zones of	orosity and co	ontents the			Il drill-stem tests, pressures and			
Form	ation	Тор	Bottom		Descript	tions, Content	te ate		Name	Тор
1 Onli	ation	тор	Bottom		Descript	tions, Contem	15, 610.		Name	Meas. Depth
Ojo Alam Kirtland	0	896 1053								
Fruitland Pictured (1154 1502								
Lewis Cliff Hous		1638 3009								
Menefee Point Lookout		3102 4152								
Mancos Gallup		4375 5193								
32. Additio	onal remark	s (include	plugging proc	cedure).						
33. Indicate	which iten	ns have be	en attached b	y placing	a check in the	appropriate	boxes:			
☐ Electrical/Mechanical Logs (1 full set req'd.) ☐ Geologic Report ☐ DST Report ☐ DST Report										
Sund	ry Notice for	plugging ar	nd cement verifi	cation	Cor	re Analysis	Other:			
34. I hereby	y certify tha	t the foreg	oing and atta	ched infor	mation is con	nplete and con	rrect as determined	from all availa	ble records (see attached in	nstructions)*
Na	me (please	print) Ma	rie E Florez				Title Regulatory	Specialist		
Sig	gnature	M	am &	12	ayor	/	Date 04/27/2018			
Title 18 U.S	C. Section	1001 and T	itle 43 U.S C.	Section 12	12, make it a	crime for any	person knowingly a	and willfully to n	nake to any department or as	gency of the United States any

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