RECEIVED

FORM APPROVED

(June 2015) DE	UNITED STATE PARTMENT OF THE I		SEP U	7 2017	Ex	OMB No. 1004-0 pires: January 31	
BUF	REAU OF LAND MAN	AGEMENT	F		5. Lease Serial No.	JIC 123	
SUNDRY	NOTICES AND REPO	ORTS ON V	recinington read of Land	neid Offid Maraoer	6. If Indian, Allottee	or Tribe Name	MANIGATION OF TRANSPORT AND ADMINISTRATION OF THE PROPERTY OF
20 1101 HOD 11110	Use Form 3160-3 (A		nio onten mi		Jicarilla Apache		
SUBMIT IN	TRIPLICATE - Other instru	uctions on pag	e 2		7. If Unit of CA/Agr	eement, Name an	id/or No.
1. Type of Well					0.11/11/1		
✓ Oil Well Gas	- Santana				8. Well Name and No. Jicarilla 123 C 27		
2. Name of Operator LOGOS Operating, LLC				9. API Well No. 30-039-22071			
3a, Address 2010 Afton Place	1	(include area code) 10. Field and Pool or Exploratory Area					
Farmington, NM 8740		(505) 324-41				h Gallup-Dakota	
 Location of Well (Footage, Sec., T., 1540' FNL 1670' FWL, SE/NW, F 	and the second s		11. Country or Parish, State				
			annina annina annina anni	Rio Arriba County, NM			
12. CH	ECK THE APPROPRIATE B	OX(ES) TO IN	DICATE NATUR	E OF NOTIO	CE, REPORT OR OT	HER DATA	
TYPE OF SUBMISSION			T	YPE OF ACT	TION		
▼ Notice of Intent	Acidize	Deep Deep	en	Produ	uction (Start/Resume)	-	hut-Off
	Alter Casing		aulic Fracturing	Recla	mation	Well Int	egrity
Subsequent Report	Casing Repair		Construction		mplete	✓ Other	
Final Abandonment Notice	Change Plans Convert to Injection		and Abandon Back	_	orarily Abandon Disposal	Bradenh	ead Repair
13. Describe Proposed or Completed of the proposal is to deepen direction the Bond under which the work we completion of the involved operatic completed. Final Abandonment Nois ready for final inspection.) LOGOS is submitting a plan of Reference: RBDMS MPK1715	ally or recomplete horizontall ill be perfonned or provide the ons. If the operation results in stices must be filed only after f action for remedial repair	y, give subsurfa e Bond No. on f a a multiple con all requirement due to Braden	ace locations and file with BLM/BL apletion or recom s, including recla	measured an A. Required a pletion in a r mation, have are. Please BLM ACT OPE AUT	d true vertical depths subsequent reports m new interval, a Form been completed and	of all pertinent nust be filed within 3160-4 must be filed within 3160-4 must be fit the operator has of action. RACCEPTANO RELIEVE THE BTAINING AMEQUIRED FOR	narkers and zones. Attac n 30 days following iled once testing has bee detennined that the site CE OF THIS LESSEE AND NY OTHER R OPERATIONS
14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) Tamra Sessions			Title Regulatory Specialist				
Signature and	Date		09/07/2	2017			
Assessed by A A	THE SPACE	FUR FEDI	EHAL OR ST	IAIE OF	CE USE		
Approved by	2		Title	PE		Date 9/4	8/17
Conditions of approval, if any, are after certify that the applicant holds legal or which would entitle the applicant to con		FFO		V			

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

(Instructions on page 2)







BRADENHEAD REPAIR PROCEDURE

Jicarilia 123 C 27 1540' FNL & 1670' FEL Section 06, T25N, R04W Rio Arriba County, New Mexico Lat 36.43157 Long -107.29585

PROJECT OBJECTIVE:

Pressure test casing. If leaks are present, isolate and repair to shut off bradenhead flow. Pressure test casing and return well to production.

WORKOVER PROCEDURE:

- 1. Hold safety meeting. MIRU workover rig. Place fire and safety equipment in strategic locations. Comply with all LOGOS, BLM and NMOCD rules and regulations.
- 2. Lay flow lines. Check and record bradenhead, casing and tubing pressures. RU blow lines from casing valves to rig pit. Blow casing pressure down and kill well if necessary.
- 5. ND wellhead. NU BOP's.
- 6. Drop standing valve, load tubing (~29 bbl) and pressure test to 1000 psig. Retrieve standing valve with sand line.
- 7. TOOH tubing, visually inspecting and laying down joints as needed per visual inspection. Note condition of tubing (presence of paraffin, scale, corrosion or evidence of sand). Current tubing configuration:

N	Ю.	DESCRIPTION
2	37	2-3/8" 4.7# J-55 EUE tubing joints
	1	Seating nipple
	1	2-3/8" x 8' tubing sub
	1	Mule shoe collar

- 8. PU 4" string mill and used bit, and cleanout to 5364' (50' above top MV perforation @ 5414'). TOOH and LD string mill and bit.
- 9. PU 4-1/2" 10.5# RBP and TIH to set @ RBP +/-5364'.
- PU packer and set same above RBP liner top and load hole with fresh water. PT casing to 600 psig for 30 mins.
- 11. If casing does not hold PT, release packer and isolate hole(s) in casing. Attempt to establish injection rate and pressure into hole(s).

Logos Operating, LLC Jicarilla 123 C 27 Bradenhead Repair Page 2 of 2

- 12. Contact engineer for cement squeeze instructions. Notify BLM, Jicarilla and NMOCD of upcoming remedial cement work.
- Conduct cement squeeze as per Logos engineer's instructions using either Class B or MicroMatrix cement. WOC.
- 14. Drill out and pressure test each leak zone to 500 psig. TOOH with bit.
- 15. Pressure test casing to 500 psig. Contact Logos engineer with results. If test passes, notify NMOCD and Jicarilla Tribe and pressure test the wellbore to 800 psig for 30 minutes on a 2hr chart with 1000# spring.
- 16. PU 4" used bit and string mill to cleanout out casing to RBP. Circulate well clean and swab well prior to releasing RBP. TOOH and LD RBP and retrieving head.
- 17. TIH to bail fill from lower perforations as needed.
- 18. Rig up hydro-tester and RIH testing tubing to 5500 psig (internal yield pressure of 2-3/8" 4.7# J-55 EUE tubing is 7700 psig, testing to ~70% of yield).
- 19. Run production tubing as follows:

NO.	DESCRIPTION
1	Mule Shoe Collar
1	Seating nipple
1 .	2-3/8" 4.7# J-55 EUE tubing joint
1	2-3/8" x 2' marker joint
236	2-3/8" 4.7# J-55 EUE tubing joint

- 20. Drop bumper spring and chase to bottom with rig sand line as needed.
- 21. Swab well in to unload and RTP.
- 22. Notify lease operator or lead that well is ready to return to plunger lift.



Wellbore Schematic

Well Name:	Jicarilla 123 C 27				Date Prepared: 1/14/2017			
Location:	Sec 06, T25N, R04W 1540' FNL & 1870' FEL) FEL	Last Updated:	1/14/2017		
County:	Rio Arriba				Spud Date:	6/22/1979		
API#:	30-039	-22071	-		Completion Date:	9/24/1979		
Co-ordinates:	Lat 36	.43157 L	ong -107.29585		Last Workover Date:	4/11/2016		
Elevations:	GF	ROUND:	6787'		Ξ			
		KB:	6799'					
Depths (KB):		PBTD:						
		TD:	7712'		•			
				· · · · · · · · · · · · · · · · · · ·				
	All de	pths KE		Surface Casing: (06/22/1979				
Surface Casing	1 1		13-3/4		to 233'. Set 5 its 9-5/8", 36#, K-5			
9-5/8", 36#, K-55	1 1		0-233'		ment, circulated cement to surfa-	CB		
Set at 223'			👠	Production Casing: (07/06/1		·		
223*	1 1	ı	TOC at surface (circ)		e to 5916, changed bit to 7-7/8° a	and drilled to 7712'.		
	1 1	ł		Set 243 jts 4-1/2", 10.5# and 1				
		1			7. Stage 1 cemented with lead 10	35 sxs Class B and 100 sxs		
	1 1				y CBL run 10/23/91 @ 6550'.			
	1 1				85 exs Class B, tailed with 100 a	xs Class B 50/50 poz, TOC		
	1 1		8-3/4"	by CBL run 10/23/91 @ 50		40100 M4 (C) 000 M: T		
	1 1	i	233'-5916'		97 cu ft cement, TOC by CBL ru	n 10/23/91 (g) 2360', Temp		
			TOC at 2360'	survey run 7/7/79 showed	10C 8t 2400.	1 11 16		
				Tubing: (04/13/2016)		Length (fl)		
	1		7 7101	KB		12.00		
	1 1	ı	7-7/8" 5916'-7712'	(237) 2-3/8°, 4.7#, J-55		7425.68		
	1 1		5910-7712	(1) SN (1.78" ID) (1) 2-3/8" pup jt	M. L	1.1 8,15		
	1 1			(1) mule shoe		:0.7		
	1 1	1	DV tool at 3447	11/11tale silve	Set at:	7447.63 ft		
	1 1		D1 1007 21 3447	Perforations:	OA al.	747.00 11		
	1 1				.34", 1SPF @ 7422', 28, 35, 43;	7542 48 54 73 87 96		
	1 1			Frac w/ 64000# 40/60 sans		1342,40, 09, 19, 01, 80		
	1 1				820, 24, 28, 32, 47, 50, 6712, 14	16 18 20 40 44 48 50		
	1 1				32, 86, 94; 6913, 17, 36, 37, 38, 4			
•					% HCL. Frac w/ 73620# 20/40 sa			
	1 1	-			', 1SPF @ 5414, 16, 18, 28, 30,			
Production Casing	1 1	ı			99, 5500, 12, 14, 19, 22, 32, 34, 4			
4-1/2", 10.5# & 11.6#,	1 1	ı	TOC at 5010'	84				
K-55	_			Acidized w/ 1000 gal 15%	HCL. Frac w/ 77985 gal slickwat	er and 86713# 20/40 sand		
Set at 7712'	o 1		o Point Lookout 5414'-					
DV tools at 3447' &	7 I		5584'	Formations:				
6034'	1 1	1		Ojo Alamo-				
Stage 1: 285 axa	1 1			Kirtland-				
TOC at 6550'	1 1			Pictured Cliffs- 319	91'			
Stage 2: 345 sxs	1 1	ŀ	DV tool at 6034'	Mesa Verde- 488	 			
TOC at 5010	1 1			Point Lookout- 541		·		
Stage 3: 397 cu ft	1 1	ı		Gallup- 644				
TOC at 2360'	1 1	- 1	TOC at 6550'	Greenhorn- 732				
	i 1	ı		Graneros 737 Dakota 753				
	⊣ I		——————————————————————————————————————		30			
<u>Tubino</u>	의 [O Gallup 6620'-6940'	Additional Notes:		500 5000 - fl - v		
2-3/8" 4.7# J-55					40-3450, 3881-3912, 4888-4919	. 5261-5292, all squeezed		
237 jts	<u> </u>	ı		(02/02/02) Casing leak 5376-				
SN @ 7437.68' (c)	믝		O Graneros/Dakota 7422'-7596'	(04/12/16) Small casing leak (04/11/16) Tagged fill 7669	380-432			
est it length 31.33'	ł		Tagged fill 7669'	104711716] Tadgeo IIII 7669				
est jt lengti 51.55	ł		1 agged im 1000	10/91 Squeeze detail notes:				
7712'			l .		19' w/ 50 sx class B neat disele	red V 4637'.		
PBTD - 7695'				- Pkr @ 4637' sqz'd 4888'-4919' vr/ 50 sx class B neat, displaced V 4637' Pkr @ 3630' sqz'd 3681-3912' vr/ 50 sx class B neat, left 2 bbl in csg & circ 8 bbl out				
				- Pkr @ 3194'-soz'd 3440'-3450' w/ 200 sk. Class B neal, displaced to 3319'.				
TD - 7712'				- PKr (gg 3194/5920 3440 -3430 Wr 200 8x Class is near, displaced to 3319. -D/O and PT to 3000#, upper squeezes, held and lower did not - found holes @ 5261'-				
					neat 5292'-5104'. D/o & PT t/ 30			
				02/20 Squeeze detail notes				
					6' 8 4586'. Squeezed vil 200 sk	Class B, 0.4% Hatad-9		
				(236 cf), Tagged @ 4486' &				

BLM CONDITION OF APPROVAL

CASING REPAIR, WORKOVER AND RECOMPLETION OPERATIONS:

- 1. If casing repair operations are needed, obtain prior approval from this office before commencing repairs. If a CBL or other logs are run, provide this office with a copy.
- 2. After any casing repair operations, test cement squeeze to a minimum of 500# for 30 minutes with no more than 10 % pressure fall off in the 30 minute test period. Provide test chart with your subsequent report of operations
- 3. A properly functioning BOP and related equipment must be installed prior to commencing workover, casing repair, and/or recompletion operations.
- 4. Contact this office at (505) 564-7750 prior to conducting any cementing operations

SPECIAL STIPULATIONS:

- 1. Pits will be fenced during work-over operation.
- 2. All disturbance will be kept on existing pad.
- 3. All pits will be pulled and closed immediately upon completion of the recompletion and work-over activities.
- 4. Pits will be lined with an impervious material at least 12 mils thick.