BI	UNITED STATE DEPARTMENT OF THE JREAU OF LAND MAN	INTERIOR IAGEMENT		5. Lease Serial No. SF-081334	ORM APPROVED DMB No. 1004-0137 pires: October 31, 2014	
Do not use thi abandoned wel	s form for proposals ( I.  Use Form 3160-3 (A	to drill or to[re-enter an NPD) for such proposal	Ficia Of s. Manan			
	MIT IN TRIPLICATE - Other	7. If Unit of CA/Agreement, Name and/or No.				
1. Type of Well	ıs Well 🗌 Other			8. Well Name and No. LEESON FEDERAL	42-27	
2. Name of Operator ENERDYNE LLC				9. API Well No. 30-039-24148	· · · · · · · · · · · · · · · · · · ·	
3a. Address P O BOX 502, ALBUQUERQUE, NM 87103	3	3b. Phone No. (include area cod 1-505-414-8548	de)	10. Field and Pool or E WEST LINDRITH G/	. 2	
4. Location of Well (Footage, Sec., 1650' FNL & 330' FEL SECTION 27, T25N,	<i>T.,R.,M., or Survey Description</i> R3W	j)		11. County or Parish, S RIO ARRIBA COUN		
12. CH	IECK THE APPROPRIATE BO	DX(ES) TO INDICATE NATURE	E OF NOTIC	E, REPORT OR OTHE	ER DATA	
TYPE OF SUBMISSION TYPE OF AC				fion		
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	<ul> <li>Deepen</li> <li>Fracture Treat</li> <li>New Construction</li> <li>Plug and Abandon</li> <li>Plug Back</li> </ul>	Recla	uction (Start/Resume) mation mplete porarily Abandon r Disposal	Water Shut-Off Well Integrity Other PUMP CHANGE	
the proposal is to deepen direct Attach the Bond under which the following completion of the inv	ionally or recomplete horizontal ne work will be performed or pro- volved operations. If the operati- nal Abandonment Notices must	lly, give subsurface locations and a ovide the Bond No. on file with B	measured an LM/BIA. R n or recompl	d true vertical depths of equired subsequent rep letion in a new interval,	orts must be filed within 30 days a Form 3160-4 must be filed once	
PLEASE SEE ATTACHED PRO	CEDURE.					
				OIL CONS. DIV DIST. 3 FEB 2 0 2014		

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) DON L. HANOSH	tie MANAGING MEMBER	
Signature JA Care Da	ate 02/14/2014	
THIS SPACE FOR FEDERA	L OR STATE OFFIC	
Approved by Original Signed: Stephen Mason	Title	FEB 1 9 2014
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certi that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	ly Office	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person fictitious or fraudulent statements or representations as to any matter within its jurisdiction.		ke to any department or agency of the United States any false





Leeson Federal 27 #042 Gallup/Dakota Cleanout and Pump Repair Township 025N Range 003W Section 27 1650' FNL & 330' FEL Rio Arriba County, NM

PBTD: 8180' (Note discrepancy in well records) KB: 12'

- 1. Hold safety meeting. Comply with all NMOCD, BLM and Company safety and environmental regulations. Test rig anchors prior to moving in rig (last rig date 12/2010).
- 2. MIRU. Check casing and tubing pressures and record. RU blow lines from casing valves and begin blowing down casing pressure. Pressure test the tubing to 500 psi.
- 3. TOOH with rods and pump configured as follows:
  - 1 POLISH ROD
  - 1 PONY ROD (4')
  - 93 7/8" GUIDED RODS
  - 19 7/8" PLAIN RODS
  - 208 3/4" GUIDED RODS
  - 1 –2-1/2" X 1-1/2" X 12' RWAC HRV PUMP
- ND wellhead NU BOP. Release tubing hanger to tag for fill, PU additional joints as needed to tag PBTD @ 8180' (EOT @ 8037.63' 8/22/2007). Record the fill depth. Last tagged depth was 8098' on 8/22/2007 – did not clean out.
- 5. TOOH with tubing (detail below, run 8/24/2007) Lay down TAC.
  - 220 2-7/8" 6.5# J-55 EUE TBG
  - 1 2-7/8" X 5-1/2" TAC @ 6955.9' (Note: set in Gallup perforations)
  - 33 2-7/8" 6.5# J-55 EUE TBG
  - 1 SEAT NIPPLE
  - 1 4' PERFORATED PUP JOINT (LAY DOWN)
  - 1 20' X 2-7/8" 6.5# J-55 EUE TBG OPEN ENDED MUD ANCHOR
- 6. Visually inspect tubing, record findings, make note of corrosion and/ or scale. Replace tubing as needed.
- TIH with tubing bailer, clean out to PBTD @ 8180'. Discrepancy with PBTD. Records indicate either at 8180' or 8130'. If PBTD is discovered to be 8130' notify engineer immediately for new BHA configuration.
- 8. If sand or scale is hard packed call engineer to discuss picking up air package or



nitrogen membrane unit to clean out to PBTD. If scale on tubing contact engineer for acid volume, concentration and displacement volume. TOOH.

9. Tally in the hole with tubing (detail below). Land tubing at +/- 8120'.

1 – 20' X 2-7/8" 6.5# J-55 EUE TBG OPEN ENDED MUD ANCHOR (USED)

1 – 2-7/8" SN (Set @ ~8100')

+/- 255 2-7/8" 6.5# J-55 EUE TBG

TUBING SUBS AS NECESSARY TO SPACE OUT

10. ND BOP, NU B-1 Adapter, rod rattigan, and flow tee (place rod rattigan below flow tee). RIH with rods.

1 – 2-1/2" X 1-1/2" X 12' TEXAS STRIPPER INSERT PUMP WITH A 6' PLUNGER WITH A TOTAL PLUNGER TO BARREL CLEARANCE OF -0.006" AND 1" X 12" LIFT SUB

- 1 <sup>3</sup>⁄<sub>4</sub>" X 8' GUIDED ROD SUB
- 1 26,000# SHEAR SUB
- 6 1-1/4" x 25' SINKER BARS
- 2 3/4" X 8' PONY ROD SUBS
- 206 ¾" PLAIN RODS
- 108 7/8" PLAIN/GUIDED RODS TO SURFACE
- ROD SUBS AS NECESSARY
- 1 1-1/4" POLISH ROD AND LINER
- ROD ROTATOR
- Space out and seat pump by lowering to a LIGHT tag, mark the position of the tag on the polished rod and lift the polished rod using 1.0"/1000' (One inch per 1000 ft) spacing (~8"). Do NOT set pump to tag.
- 12. Load tubing with water to pressure test tubing and pump to 500 psi. Test for good pump action.
- 13. Notify lease operator that well is ready to be returned to production. RDMO.

Recommended by

Krísta McWillíams

Krista McWilliams Production Engineer 505-419-1627



Wellbore Schematic

Well Name:	Leeson Federa		Date Prepared:	9/10/2013		
Location:		1650' FNL 330' FEL		Last Updated:		
County:	Rio Arriba		Spud Date:	8/22/1987		
API#:	30-039-24148		Completion Date:	10/31/1987		
Co-ordinates:		7265'	Last Workover Date:			
Elevations:	GROUND: KB:	7277'				
Depths (KB):	PBTD:	8130'				
Depuis (ND).	TD:	8204'				
	10.	0204		····		
	All depths KB	Hole Size	Surface Casing: (8/22/1987)			
Surf Csg		12-1/4"	Drilled 12-1/4" surface hole to 822'. Set 19 joints (805.36') of	of 9-5/8" casing at 817.36'.		
9-5/8" 36# K-55	1 111 1	0-822'	Cemented with 513 cuft Class "B" + 2% CaCl2 + 1/4" # cello			
Set at 817'			TOC circulated to surface			
513 cuft cement						
TOC: Surface						
by circulation			Production Casing: (9/06/1987)			
			Drilled 7-7/8" hole to 8204'. Set 62 joints 5-1/2", 17#, K-55 c	asing (2625.64') from		
	1 1 1 1		5574'-8204'. Set 134 joints 5-1/2" 15.5#, K-55 casing (5562	57') from 0-5574'		
817			Stage Tools at 3578' & 4947'			
		7-7/8"	Cemented in 3 stages: Stage 1 cemented with 691 cuft 50/5			
		817'-8204'	6-1/4#/sk gilsonite followed with 74 cuft Class B neat. TOC			
			Stage 2 cemented with 302 cuft 50/50 Poz + 2% gel + 6#/sk			
			6-1/4#/sk gilsonite followed with 74 cuft Class B neat. TOC	at stage tool by calculation.		
÷		TOC at 2815	Stage 3 cemented with 115 cuft 50/50 Poz + 2% gel + 6#/sk	<u>salt +</u>		
			6-1/4#/sk gilsonite followed with 74 cuft Class B neat. TOC	at 2815 by calculation.		
			Tubing: (8-24-2007)	Length (ft)		
			220 Joints 2-7/8" 6.5# J-55	6943.88		
			Tubing Anchor (set @ 6955.9')	2.75		
		Stage Tool at 3578	33 Joints 2-7/8" 6.5# J-55	1053.90		
		TOC at 3578'	SN (set @ 8012.5')	1.1		
			Perf Pup Joint	4.00		
() () () () () () () () () () () () () (			Tail Joint	20.00		
			Set at	8037.63 ft		
Production Csg			Rods: (10/08/2010)	Length (ft)		
5-1/2" 15.5/17#, K-55 🔅			1: 22' polish rod	22		
Set at 8204'			1: 4' pony rod	4		
Cemetned in 3 Stages			93: 7/8" rods guided	2325		
St 1:691 cuft & tail w/			19: 7/8" plain	475		
74 cuft Class B			208: 3/4" rods guided 2-1/2"x1-1/2"x12' RWAC HRV Pump w/ 2' lift rod	<u>5200</u> 12		
TOC at 5113' (calc 70%	참 []] [			8025 ft		
St 2:302 cuft & tail w/			Perforations: Set at	8025 ft		
74 cuft Class B						
TOC at 3428' (cacl 70%)			Perforated Gallup from 6982'- 7112' w/ 2 shots/ 4 ft. Fractured Gallup with 105,000 gal gel + 117,000# 20/40	sand		
St 3:115 cuft & tail w/			Perforated Dakota 8038', 41, 45, 74, 78, 82, 86, 90, 94, 98 v			
74 cuft Class B TOC at 2815' (Calc 70%			Fractured Dakota with 98,000 gal gel + 125,000# 20/40	sand		
			Initial Test:	·····		
		Stage Tool at 4947	(11/21/1987) Flowing 24 hour test: 43 bbls oil (24 hr), 250 m	icf gas (24 hr), 120 bbls water		
<i></i>			Oil Gravity- 40°			
t;		TOC at 5113	Formations:			
			Nacimiento 1638'			
			Ojo Alamo- 3212'			
8			Pictured Cliffs- 3670			
			Cliff House- 5329'			
÷			Menefee- 5440'			
Tubing			Point Lookout- 5840'			
2-7/8" 6.5#, J-55		> squeeze perfs 6830'	Mancos- 6053'			
		o Gallup 6982'-7112'	Gallup- 7000'			
8037.63		squeeze perfs 7262	Green Horn- 7826'			
···	X		Graneros- 7894			
	<u>-</u>	o Dakota 8038'-8098'	Dakota- 7932' Additional Notes:			
				Squeezo with 102 ov Class P		
000.0		CR @ 8180'	Squeeze jobs: 4 holes at 7262 and 6830. Retainer at 6930 Resqueeze with 50 sx Class B.	. oqueeze with toz SX Class B.		
8204' : :			Plug Back: Baker Model K cement retainer at 8180'			
	PBTD- 8180'		8-22-2007 tagged fill at 8098' (btm perf), scraped casing bu	t did not cleanout, set pkr @		
	TD- 8204'		7979' and pumped 750 gal solvent & 750 gal 15% HCL on I	· · · -		