

Conditions of approval, if any:

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A-PLUS WELL SERVICE, INC.  
P.O. BOX 1979  
Farmington, New Mexico 87499  
505-325-2627 \* fax: 505-325-1211

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Energen Resources Corporation

December 23, 2003

**Lindrith Unit #80**

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800' FSL & 1040' FWL, Section 11, T-24-N, R-3-W

Rio Arriba County, NM

**Plug & Abandonment Report**

Fee Lease, API #30-039-20939

**Cementing Summary:**

**Plug #1** with cement retainer at 2790' spot 16 sxs cement inside 2-7/8" casing from 2790' up to 2209' to cover the Pictured Cliffs through the Ojo Alamo tops.

**Plug #2** with cement retainer at 1182', mix and pump 47 sxs cement, squeeze 35 sxs outside 2-7/8" casing and place 12 sxs inside casing from 1260' to 817' to cover the Nacimiento top.

**Plug #3** with 86 sxs cement with 2%CaCl<sub>2</sub>, first pump 73 sxs cement down the 1-1/4" tubing and establish good cement returns out the bradenhead, second sting out of the retainer and spot 13 sxs inside the 2-7/8" casing and establish good cement returns at surface out casing valve.

**Plug and Abandonment Summary:**

Notified NMOCD on 12/08/03

- 11/17/03            MOL with rig and equipment. SDFD. **Note: MOL 11/18/03 to LU #84.**
- 12/08/03            MOL with rig and equipment. SDFD due to high winds.
- 12/10/03            Held JSA. Unable to start rig, service rig and SDFD.
- 12/11/03            Held JSA. RU rig, ND wellhead, and NU BOP. Function test BOP. Check well: casing and bradenhead 0#, no tubing in well. Line and fence pit. MU center spear and TIH while tally and PU 1-1/4", 2.3# A-Plus workstring. Tag TOF at 1305'. Work spear into fish and TOH, no recovery. TIH with center spear and tag TOF at 1283'. Work spear into fish to 1313'. PU 2K over string weight and POOH with pipe dragging. Recover 8" wad of sandline. TIH with center spear and tag TOF at 1313'. Work spear into fish to 1317'. POOH with no recovery. Secure well and SDFD.
- 12/15/03            Held JSA. TIH with 2 prong grapple and tag fish at 1317'. Work prong onto fish. POOH with tubing dragging. Recover 4" wad of sandline. TIH with center spear and tag TOF at 1319'. Work spear into fish at 1319'. POOH with no recovery. Secure well SDFN.

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**Plug & Abandonment Report Continued**

Fee Lease, API #30-039-20939

12/16/03      Held JSA. TIH with center spear and tag TOF at 1312'. Work spear into fish at 1312'. POOH with no recovery. RU pump and lines. Load hole with ½ bbls water and pump another ½ bbls and establish circulation out the bradenhead with 0#. TIH with center spear and tag fish at 1312'. Attempt to work spear into fish at 1312'. POOH with no recovery. Secure well and SDFN.

12/17/03      Held JSA. RU sinker bar and jars with 2-3/8" magnet. RIH with magnet on sandline to 25' and unable to go deeper. POOH and RD sandline. TIH with 2 prong spear to TOF at 1312'. Work prong into fish at 1312'. POOH with no recovery. TIH with center spear and tag fish at 1312'. Work spear into fish at 1312'. POOH dragging 12K over string weight. Recover 1' wad of sandline. TIH with center spear to TOF at 1325'. Work spear into fish at 1325'. POOH dragging 12K over string weight. Recover 2" wad of sandline. TIH with center spear to TOF at 1255'. Work spear into fish at 1255'. POOH and recover 3' long piece of sandline. Secure well and SDFN.

12/18/03      Held JSA. TIH with center spear to TOF at 1330'. Work spear into fish at 1330'. POOH dragging 9K over string weight. Recover 2' long piece of sandline. TIH with center spear to TOF at 1330'. Work spear into fish at 1330'. POOH dragging 11K over string weight. Recover 2' long piece of sandline. TIH with center spear to TOF at 1336'. Work spear into fish at 1336'. POOH dragging 12K over string weight. Recover 4' long piece of sandline. TIH with center spear to TOF at 1344'. Work spear into fish at 1344'. POOH dragging 12K over string weight. Recover approximately 1000' long piece of sandline. TIH with center spear to TOF at 2815'. POH with 2 stands, secure well, and SDFN.

12/19/03      Held JSA. POOH with center spear. RU wireline. GIH and set a 2-7/8" PlugWell cement retainer at 2790'. TIH with 1-1/4" workstring and sting into retainer at 2790'. Load tubing with ¼ bbls and attempt to establish injection below retainer with ¼ bbls and pressured up to 1800#. H. Villanueva with NMOCD approved procedure change to spot cement on top of cement retainer at 2790' without squeezing cement below. Plug #1 with cement retainer at 2790' spot 16 sxs cement inside 2-7/8" casing from 2790' up to 2209' to cover the Pictured Cliffs through the Ojo Alamo tops. POH to 1543', secure well, and SDFD.

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**Plug & Abandonment Report Continued**

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12/22/04        Held JSA. TIH and tag TOC at 2316'. LD tubing to 1182' and POOH. Load hole and attempt to pressure test 2-7/8" casing; establish circulation out bradenhead at 2 BPM and 200#. GIH and perforate 2 bi-wire holes at 1260'. GIH and set 2-7/8" PlugWell cement retainer at 1182'. TIH and sting into retainer at 1182'. Establish injection below retainer with 1-1/4 BPM and 600#. Establish circulation out casing after pumping 2 bbls below retainer. SI casing and establish circulation out bradenhead with 1 additional bbl. Plug #2 with cement retainer at 1182', mix and pump 47 sxs cement, squeeze 35 sxs outside 2-7/8" casing and place 12 sxs inside casing from 1260' to 817' to cover the Nacimiento top. POOH and LD remaining tubing. Secure well and SDFD.

<sup>12</sup>  
~~11~~12/23/03        Held JSA. GIH and tag TOC with perforating guns at 780'. Load hole and establish circulation out the bradenhead with 1-1/4 bbls. PUH and perforate 2 bi-wire holes at 174'. H. Villanueva with NMOCD requested a cement retainer be set above perforations at 174'. GIH and set 2-7/8" PlugWell cement retainer at 131'. TIH with 1-1/4" workstring to 131' and sting into retainer. Attempt to test casing and establish circulation out bradenhead with 1/2 bbls. Establish circulation down tubing and out bradenhead. Plug #3 with 86 sxs cement with 2%CaCl<sub>2</sub>, first pump 73 sxs cement down the 1-1/4" tubing and establish good cement returns out the bradenhead, second sting out of the retainer and spot 13 sxs inside the 2-7/8" casing and establish good cement returns at surface out casing valve. POOH and LD all tubing. SI well and WOC. Tag TOC at 12'. ND BOP and 2-7/8" wellhead. Cut off wellhead and install P&A marker with 10 sxs. RD rig and equipment and MOL.

H. Villanueva, NMOCD representative was on location.