

Submit 1 Copy To Appropriate District Office
 District I - (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II - (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III - (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV - (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-039-05546
5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name W O Hughes
8. Well Number 3
9. OGRID Number 289408
10. Pool name or Wildcat Blanco PC South
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6864' GL

SUNDRY NOTICES AND REPORTS ON WELLS
 (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well: Oil Well Gas Well Other

2. Name of Operator **LOGOS Operating, LLC**

3. Address of Operator **2010 Afton Place
Farmington, NM 87401**

4. Well Location
 Unit Letter L : 1650 feet from the S line and 990 feet from the W line
 Section 8 Township 24N Range 03W NMPM Rio Arriba County

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input checked="" type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
DOWNHOLE COMMINGLE <input type="checkbox"/>			
CLOSED-LOOP SYSTEM <input type="checkbox"/>			
OTHER: <input type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

LOGOS previously submitted a plan of action for remedial repair dated 8/7/17, after further analysis it has been determined this well should be plugged and abandoned. LOGOS is requesting permission to P&A the subject well per attached procedure, current and proposed wellbore schematics. A closed loop system will be used.

Reference: RBDMSMPK1715356469

*Bring the top of Plug #1 up to 2480 to cover the Ojo top
 # Surface plug will need to be a minimum of 100'

Spud Date: Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Tamra Sessions TITLE Regulatory Specialist DATE 09/05/2017

Type or print name Tamra Sessions E-mail address: tsessions@logosresourcesllc.com PHONE: 505-324-4145

For State Use Only

APPROVED BY: Bob Bell TITLE Deputy Oil & Gas Inspector, District #3 DATE 9/22/17
 Conditions of Approval (if any): AV

OIL CONS. DIV DIST. 3
 SEP 07 2017

Proposed Plug and Abandonment

August 17, 2017
Page 1

W O Hughes 03

1650' FSL and 990' FWL, Section 8, T-24-N, R-03-W
Rio Arriba County, NM, API 30-039-05546
Long: -107.1855164 / Lat: 36.3220863

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

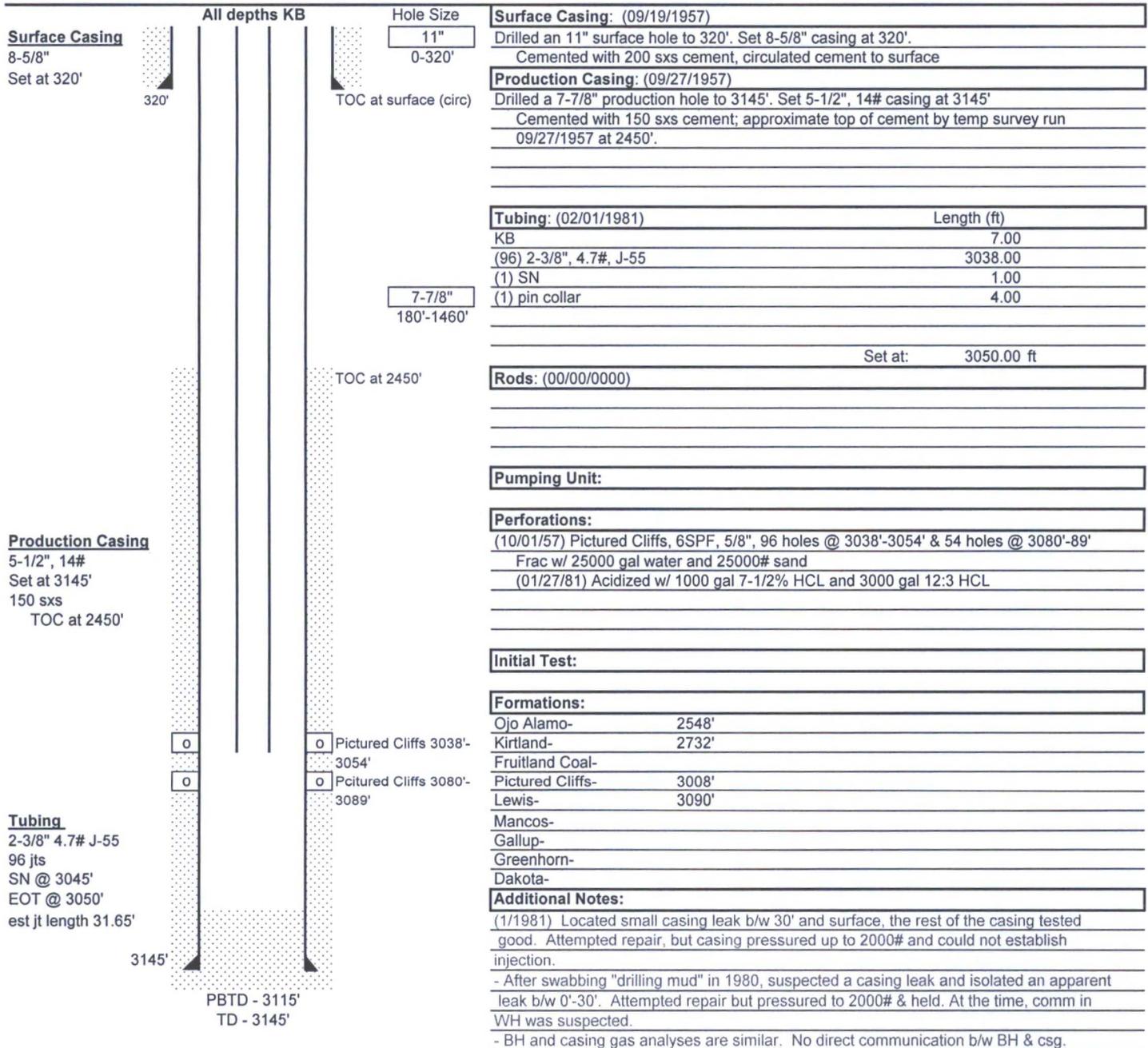
1. A-Plus will use a steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test rig anchors. Comply with all NMOCD, BLM and Williams safety rules and regulations. Prepare a lined waste fluid pit. Conduct safety meeting for all personnel on location. MOL and RU daylight pulling unit. NU relief line and blow well down; kill with water as necessary.
3. Rods: Yes No , Unknown ;
Tubing: Yes No , Unknown , Size 2-3/8" , Length 3050' ;
Packer: Yes No , Unknown , Type .
4. **Plug #1 (Pictured Cliffs perforations and Fruitland, Kirtland and Ojo Alamo tops, 2958' – 2498')**: RIH and set a 5.5" CR at 2958'. RU A-Plus wireline and run CBL. Note: cement plugs may change based on results of CBL.
5. **Pressure test bradenhead. Results may affect Plug #3 and #4.**
6. Pressure test tubing to 1000 PSI. Attempt to pressure test casing to 800#. If casing does not pressure test then spot or tag subsequent plugs as appropriate. Mix 58 sxs Class B cement and spot a balanced plug inside casing to isolate the PC interval and cover through the Ojo Alamo top. TOH.
7. **Plug #2 (water zone top, 1198' – 1098')**: Perforate squeeze holes at 1198'. Attempt to establish rate if the casing pressure tested. TIH and set 5.5" CR at 1148'. Mix and pump 47 sxs Class B cement, squeeze 30 sxs outside casing and leave 17 sxs inside casing, TOH.
8. **Plug #3 (Surface casing shoe, 370' – 270')**: Perforate squeeze holes at 370'. Attempt to establish rate if the casing pressure tested. TIH and set 5.5" CR at 320'. Mix and pump 49 sxs Class B cement, squeeze 32 sxs outside casing and leave 17 sxs inside casing to cover the casing shoe top. TOH.
9. **Plug #4 (Surface, 100' - 0')**: Perforate squeeze holes based on CBL and bradenhead test. Attempt to establish rate if the casing pressure tested. Mix and pump 100 sxs Class B cement. Note: based on CBL and bradenhead test may determine to set CR.
10. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. Record GPS coordinate for P&A marker on tower report. Photograph P&A marker in place. Cut off anchors and clean up location. Restore location per BLM stipulations.



Current Wellbore Schematic

Well Name: W O Hughes 3
 Location: Sec 08, T24N, R03W 1650' FSL & 990' FWL
 County: Rio Arriba
 API #: 30-039-05546
 Co-ordinates: Lat 36.3220863 Long -107.1855164
 Elevations: GROUND: 6864'
 KB: 6871'
 Depths (KB): PBTD: 3115'
 TD: 3145'

Date Prepared: 1/12/2017
 Last Updated: 1/12/2017
 Spud Date: 9/18/1957
 Completion Date: 10/1/1957
 Last Workover Date: 1/9/1981

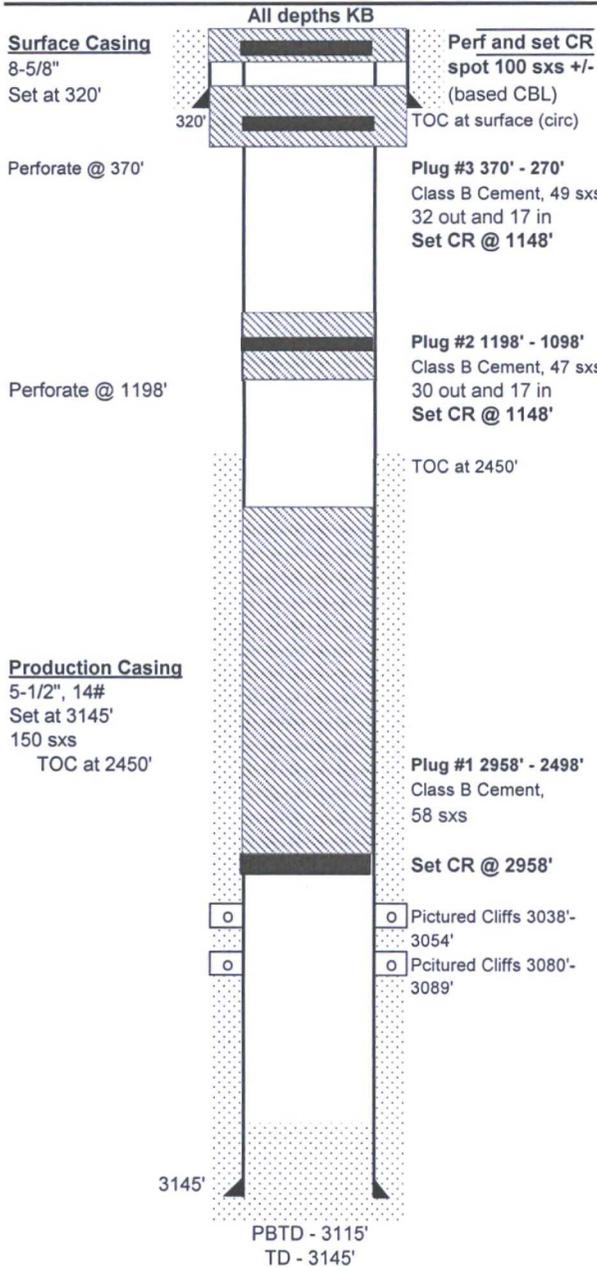




Proposed P&A Wellbore Schematic

Well Name: W O Hughes 3
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 Depths (KB): PBTD: 3115'
 TD: 3145'

Date Prepared: 1/12/2017
 Last Updated: 1/12/2017
 Spud Date: 9/18/1957
 Completion Date: 10/1/1957
 Last Workover Date: 1/9/1981



Surface Casing: (09/19/1957)
 Drilled an 11" surface hole to 320'. Set 8-5/8" casing at 320'.
 Cemented with 200 sxs cement, circulated cement to surface

Production Casing: (09/27/1957)
 Drilled a 7-7/8" production hole to 3145'. Set 5-1/2", 14# casing at 3145'.
 Cemented with 150 sxs cement; approximate top of cement by temp survey run
 09/27/1957 at 2450'.

Tubing: (02/01/1981)	Length (ft)
KB	7.00
(96) 2-3/8", 4.7#, J-55	3038.00
(1) SN	1.00
(1) pin collar	4.00
Set at: 3050.00 ft	

Rods: (00/00/0000)

Pumping Unit:

Perforations:
 (10/01/57) Pictured Cliffs, 6SPF, 5/8", 96 holes @ 3038'-3054' & 54 holes @ 3080'-89'
 Frac w/ 25000 gal water and 25000# sand
 (01/27/81) Acidized w/ 1000 gal 7-1/2% HCL and 3000 gal 12:3 HCL

Initial Test:

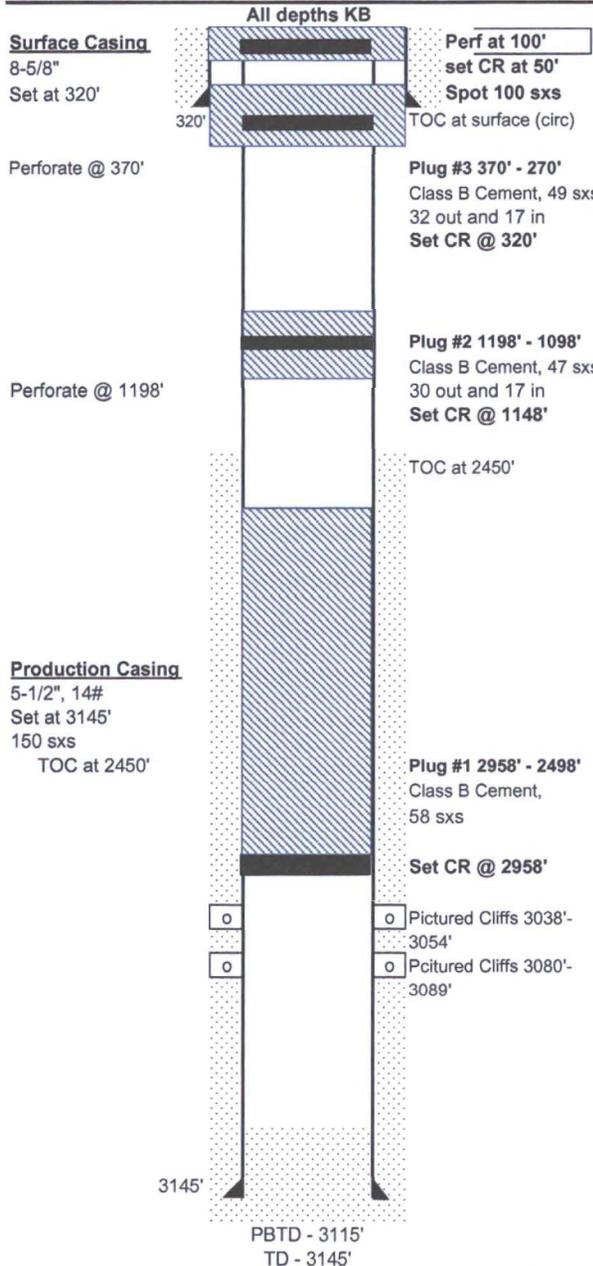
Formations:		
Ojo Alamo-	2548'	Nacimiento 1148'
Kirtland-	2732'	
Fruitland Coal-		
Pictured Cliffs-	3008'	
Lewis-	3090'	
Mancos-		
Gallup-		
Greenhorn-		
Dakota-		

Additional Notes:
 (1/1981) Located small casing leak b/w 30' and surface, the rest of the casing tested good. Attempted repair, but casing pressured up to 2000# and could not establish injection.
 - After swabbing "drilling mud" in 1980, suspected a casing leak and isolated an apparent leak b/w 0'-30'. Attempted repair but pressured to 2000# & held. At the time, comm in WH was suspected.
 - BH and casing gas analyses are similar. No direct communication b/w BH & csg.

See Revised Schematic

Well Name: W O Hughes 3
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Revised
OIL CONS. DIV DIST. 3
SEP 11 2017