		J'E	ECEW	
SUNDRY Do not use ti	UNITED STATE: DEPARTMENT OF THE BUREAU OF LAND MAN NOTICES AND REI his form for proposals t ell. Use Form 3160-3 (.	INTERIOR AGEMENT Fa PORTS ÔN <sup>T</sup> M to drill or to re	ELESLand Man enter an	OM B No. (004-0137 Expires: March 31, 2007
SUBMIT IN TRIPLICATE- Other instructions on rev			erse side.	7. If Unit or CA/Agreement, Name and/or No.
1. Type of Well Oil Well			<u></u>	aka North Kirtland Unit #1 8. Well Name and Na
2. Name of Operator BHP Billiton San Juan Coal				Humble Oil #1 22
3a         Address         3b.         Phone No. (inc.           PO Box 561, Water Flow, NM 87421         505-598-2000         505-598-2000			ude area code)	30-045-09404 10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)				Basin Dakota /Gallup
1230' FNL and 998' FEL, Sec. 19, T-30-N, R-14-W				11. County or Parish, State San Juan, NM
12. CHECK A	PPROPRIATE BOXIES) TO	INDICATE NAT	URE OF NOTICE R	LEPORT, OR OTHER DATA
TYPE OF SUBMISSION			YPE OF ACTION	
Notice of Intent	Acidize	Deepen	Production (Sta	
	Casing Repair	Fracture Treat	<b></b>	Well Integrity Other
Final Abandonment Notice	Change Plans	Plug and Abando		
BHP Billiton San Juan Co per the attached procedur	• • • • • • • • • • • • • • • • • • • •	ssee, desires to re-er	ter this well and plug it	t in accordance with MSHA regulations
Also request approval to s the underground coal min		ad of a 4"above gro	und marker to prevent	stray electrical currents from entering Notify NMOCD 24 hF5
A closed loop system will be utilized for waste Juid. RECEIVE			<b>\</b>	prior to beginning operations
SEE ATTAC CONDITIONS (	Ched For DF Approval	JAN <b>1 5</b> 201 NMOCD	5 ACTION OPERA AUTHO ON FEE	APPROVAL OR ACCEPTANCE OF THIS N DOES NOT RELIEVE THE LESSEE AND TOR FROM OBTAINING ANY OTHER RIZATION REQUIRED FOR OPERATIONS DERAL AND INDIAN LANDS
		VISTRIET I	11: 1	
<ol> <li>I hereby certify that the fore Name (Printed/Typed)</li> <li>Eric Herth</li> </ol>	going is true and correct	Title	Mine Geologist	
Signature	7.AL	Date	0	1/12/2015
	THIS SPACE FOR I	EDERAL OR	STATE OFFICE	USE
			05	
Approved by TROY Sea Conditions of approval, if any, are a certify that the applicant holds legal which would entitle the applicant to	attached. Approval of this notice of or equitable title to those rights in		Office FFO	Date 1/13/2015
	43 USC Section 1212 make it a	crime for any person as to any matter within	knowingly and willfully t its jurisdiction.	to make to any department or agency of the United
(Instructions on page 2)				
	NTIAL EXIST	: NA	-	

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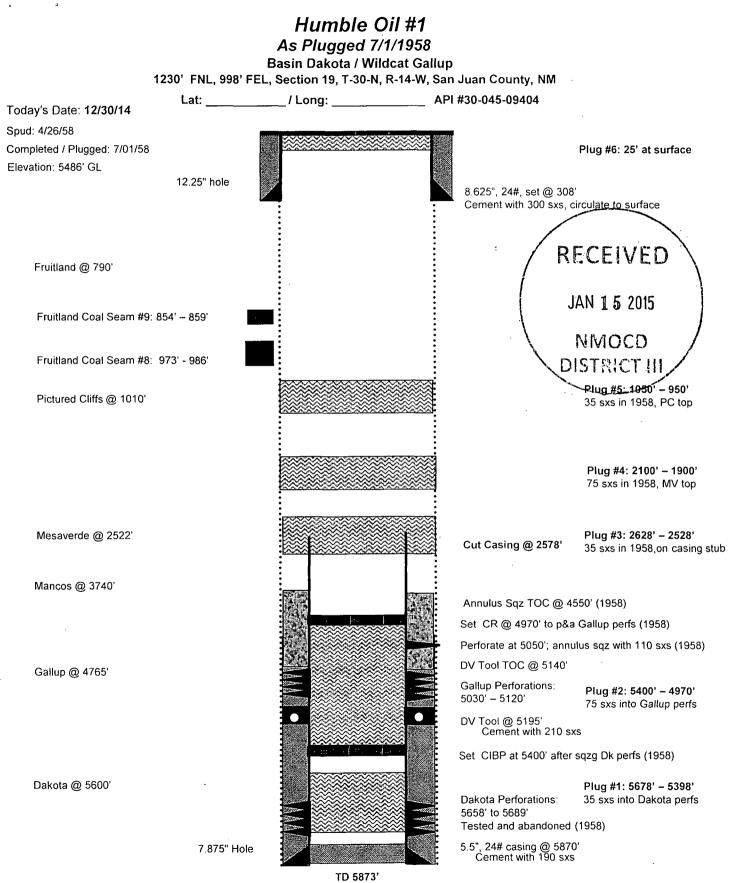
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# A-PLUS WELL SERVICE, INC.

#### PLUG AND ABANDONMENT PROCURE

## Humble Oil #1

December 30, 2014

	Basin Dakota / Wildcat Gallup
	1230' FNL and 998' FEL, Section 19, T30N, R14W
	San Juan County, New Mexico / API 30-045-09404
Lat:	/ Long:

Page 1 of 3

- Note: All cement volumes use 100% excess outside pipe and 50' excess inside.
  - The stabilizing wellbore fluid will be water or drilling mud with sufficient weight to balance all exposed formation pressures.
  - Cement is <u>Class B mixed at 15.6 ppg with 1.18 cf/sxs yield;</u>
  - or <u>Class B with 18% salt</u> by weight of water (for expansion, MSHA requirement through the Fruitland Coal zone).

## RE-ENTRY & PLUGGING PROCEDURE:

- 1. This project will use an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
- 2. Complete a hot work permit. Test the inside of the p&a marker for methane by hot tapping the 4.5" pipe approximately 12" above ground level. Then dig out and remove the p&a marker with a backhoe to uncover the 8.625" surface casing stub.

Note: No existing cement plugs are covering the Fruitland coal zones; gas may be present! Weld an extension onto the 8.625" surface casing stub to bring it to above ground level. Install a drilling spool or swedge (tubing head) with 2 outlets.

- 3. Comply with all applicable MSHA, NMOCD, BLM and San Juan Coal Mine safety regulations. Conduct safety meeting for all personnel on location. MOL and RU daylight pulling unit. Lay relief line to the waste pit; kill the well with water as necessary. NU a 9" or 11" 3M BOP on the drilling spool or tubing head. Function test the BOP operation.
- 4. Rig up a drilling system with a mud pit, mud pump and power swivel. Pick up a 7.875" mill tooth bit and a 3-1/2" drill collar with the power swivel. Drill out cement inside the 8.625" casing from surface to approximately 25' with water; use total of 4 drill collars and 2.375" tubing work string. TIH with this BHA and drill out the Pictured Cliffs plug reported to be from 950' to 1050' (set in 1958). Use EZ mud sweeps or a low solids bentonite mud to keep hole clean while drilling cement. After drilling through the cement at approximately 1050', then TIH with tubing and tag cement plug at approximately 1900'. Do not circulate the well; leave existing fluid in place. TOH with the BHA and LD the bit.

# PLUG AND ABANDONMENT PROCURE

# Humble Oil #1

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December 30, 2014

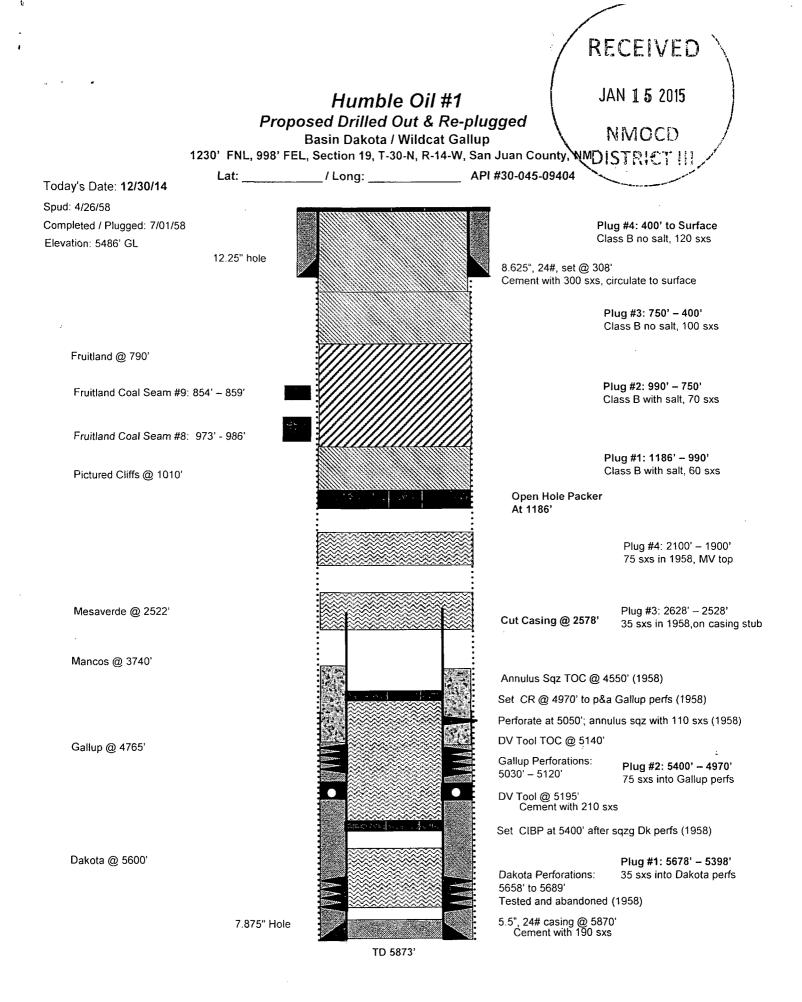
Page 2 of 3

## **Procedure Continued:**

 Rig up Jet West wireline and run a Gamma - Neutron log and a directional survey log through the coal interval. <u>Adjust the cement plug(s) depth as appropriate from these logs</u>. All reported depths should be from ground level.

## 6. Plug #1 (Pictured Cliffs interval, 1186' to 990'):

- Pick up a 5.5" open hole packer (inflates to 13") and TIH with tubing to 1190';
- Set the inflatable packer at 1186'. Release from packer and TOH with workstring;
- TIH with open ended tubing and tag the inflated packer, pull up 1 foot. Pump 10 bbls water ahead;
- Mix and spot 60 sxs Class B cement with 18% salt (by weight of water) from 1186' to 990';
- TOH and WOC overnight; TIH and tag cement.
- 7. Plug #2 (Fruitland Coal interval, 990' to 750'): TIH with workstring to approximately 990' and circulate the mud from the well. Then pump an additional 10 bbls fresh water spacer ahead of the cement. Mix 70 sxs cement with 18% salt (by weight of water) and spot a balanced plug to cover the coal zones. Displace cement with water. TOH with workstring and WOC overnight. Then TIH with tubing and tag cement.
- 8. Plug #3 (750' to 400'): TIH with workstring to approximately 750'. Pump 10 bbls fresh water spacer ahead of the cement. Mix 100 sxs cement and spot a balanced plug to fill the open-hole interval. PUH with workstring and WOC. Then TIH with tubing and tag cement.
- 9. Plug #4 (8.625" Surface casing shoe, 400' to Surface): Mix approximately 120 sxs cement and spot a balanced plug inside the well from 400' (or TOC) to surface to cover the 8.625" surface casing shoe. TOH and LD the tubing. Shut in well and WOC.
- 10. ND BOP and cut off wellhead below surface. Install an **underground P&A marker** with cement to comply with regulations. RD and MOL. Cut off anchors and clean up location.



## UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FARMINGTON DISTRICT OFFICE 6251 COLLEGE BLVD.

FARMINGTON, NEW MEXICO 87402

Attachment to notice of Intention to Abandon:

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Re: Permanent Abandonment Well: Humble Oil #1 (aka North Kirtland Unit #1)

#### CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Leases."

2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 564-7750.

BLM picks the top of the Fruitland Coal at 560 ft. Plug #3 from (750-400) ft. will ensure that the Fruitland top is properly isolated.

Note: H2S have been reported in this location; however, high to very high concentrations of H2S (100ppm-47,600pm GSV) have been reported in several wells within a 1 mile radius of this location. It is imperative that H2S monitoring and safety equipment be on location during the plugging operations at this wellsite.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.