PLUG AND ABANDONMENT PROCEDURE

4-30-98

Duff #4

Pictured Cliffs Well 1750' FNL and 1460' FEL / NE, Sec. 5, T29N, R11W San Juan County, New Mexico **DPNO 44204A**

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures.

- 1. Prepare blow pit. Comply with all NMOCD, BLM and Burlington safety regulations. Conduct safety meeting for all personnel on location. NU relief line. Blow down well and kill with water as necessary. ND wellhead and install cementing valve.
- 2. Open bradenhead valve. Establish rate down 2-7/8" casing with 20 bbls water, record pump rate and pressure. Monitor bradenhead for flow. If no flow or blow, then pump 8 frac balls in additional water and monitor pressure, rate and volumes pumped, to confirm perforations are taking water and there is not a casing leak. If bradenhead flows water or there are other indications of a casing leak, then MO and RU pulling unit to use 1-1/4" IJ tubing workstring to plug the well.
- 3. Plug #1 (Pictured Cliffs perforations, Fruitland, Kirtland and Ojo Alamo tops, 2024' 633'): Establish rate into Pictured Cliffs perforations. Mix and pump 59 sxs Class B cement (20% excess) and dcwn 2-7/8" casing, displace to 250' with water. Shut in well and WOC.
- 4. Rig up mast truck and RIH with wireline to tag cement. Pressure test casing to 1000#.
- 5. Plug #2 (8-5/8"Surface Casing at 126'): Perforate 2 squeeze holes at 176'. Establish circulation out bradenhead valve. Mix and pump approximately 58 sxs Class B cement down 2-7/8" casing, circulate good cement out bradenhead. Shut in well and WOC.
- 6. ND BOP and cut off wellhead below surface casing. Install P&A marker to comply with regulations. RD, MOL, cut off anchors, and restore location.

Approval:

Approval:

Operations Engineer

Bruce W. Borys 5-18-99

Drilling Superinterplent

State of New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division

•	Sundry Notices and F	Reports on Wells	
			# (assigned by OCD) 30-045-21670
1. Type of Well GAS		5.	Lease Number FEE
		6.	State Oil&Gas Lease #
2. Name of Operator		7.	Lease Name/Unit Name
BURLINGTON RESOURCES			
OIL & GAS COMPANY		0	Duff Well No.
3. Address & Phone No. of Operat	or	- 8.	#4
PO Box 4289, Farmington, NM	87499 (505) 326-9700	9.	
4. Location of Well, Footage, Se	P.C. T. R. M	- 10	Aztec Pictured Cliffs Elevation:
1750' FNL, 1460' FEL, Se&.5,			
Type of Submission			AT
X Notice of Intent	Type of A c X Abandonment	Change of Plans	
	Recompletion		
Subsequent Report	Plugging Back	Non-Routine	Fracturing
Final Abandonment		Water Shut o	
Final Abandonment	Altering Casing _ Other	Conversion to	o Injection
It is intended to plug and attached procedure.	-	vell according to	o the
		galan dagada managan dagada sang ila san - dagada san dagada sa dagada san dagada sa dagada sa dagada sa dagad	gar en
		DECEIN	IED)
		11 JUN 10	1398 –
		MIL SOM	(D) and
SIGNATURE MAGY SHAN ALL	(KLM) Regulato	ory Administrato:	rJune 5, 1998
(This space for State Use)		••••	vkh
ORIGINAL SIGNED BY SANE Approved by	E BUSC4 DEPUTY OIL & (GAS INSPECTOR, DIST. #	Date JUN 2 2 1998

P4A prior to 12-30-98