14. I hereby Signed (This space Approved	certify that the foregoing is true and ce for Federal or State office by s of approval, if any:	The Or Liverion		
14. I hereby	certify that the foregoing is true and	i correct Title OPERATION		
Attached				
Attached		·	70.	
Attached			78160	
Calpine	is proposing to abandon the existing to abands the proposed proceedure to abands is the proposed proceedure to abands.	g Dakota formation in the subject well a andon the existing zone and recomplete	1701/-0101111 011	
work. If w	rell is directionally drilled, give subs	ullace locations and me		
	1	Completion or Recompleti	etion Report and Log form.)	ting any propos
		(Note: Report results of m	nultiple completion on Well	
	Final Abandonment Notice	Altering Casing Other	Dispose Water	
	L	Casing Repair	Conversion to Injection	
~~	Subsequent Report	Plugging Back	Non-Routine Fracturing Water Shut-Off	•
M !	X Notice of Intent	x Recompletion	New Construction	
71-		Abandonment	Change of Plans	
	CHECK APPROPRIATE YPE OF SUBMISSION	BOX(es) TO INDIOATE TO	TYPE OF ACTION	
		BOY(06) TO INDICATE NATURE OF 1	NOTICE, REPORT, OR OTHER DATA	
1750' FNL	_ & 1030' FEL Sec. 23-30N-14W		San Juan County, New Mexico	
1200 17th	h St., Suite 770, Denver, CO 80202 Well (Footage, Sec., T., R., M., or S	Survey Description / 510 10 60		
Address and	Telephone No.		11. County or Parish, State	
Name of Ope		(a) 60 (a)	10. Field and Pool, or Exploratory Area Dakota Basin	
		0 3 3	30-045-25506	
Oil Well	X Well Other		Morton #1 9. API Well No.	
Type of Wel	l Gas		8. Well Name and No.	
	SUBMIT IN TR	IPLICATE NA 15 16 17		
			7. If Unit or CA, Agreement Designation	
Do not us	Use "APPLICATION FOR PER	RMIT -" for such proposals	i e e e e e e e e e e e e e e e e e e e	
. :	SUNDRY NOTICES AND REPORT	o deepen or reenter a different reservoir	oir. 6. If Indian, Allottee or Tribe Name	
		ZUUL HAL ZH ALL	NM 26357	
	BUREAU OF LAN		Expires: March 31, 1993 2: 3 15. Lease Designation and Senal No.	
ne 1990)	UNITED STATES DEPARTMENT OF THE INTERIOR		Budget Bureau No. 1004-0135	
RM 3160-5 ne 1990)				

*See Instructions on Reverse Side

Recompletion Procedure for

Calpine Natural Gas Company Morton #1

Date: May 17, 2001 Location: NE/4 Sec 23 T30N R14W

San Juan County, NM

Elev: GL 5825' Field: Basin Dakota

KB 5838' Recomplete in Twin Mounds PC 4-1/2" @ 6370'

Surface: BLM

DK Perfs 6134' - 6356' Minerals: BLM NM-26357

Plug Dakota Procedure:

1. Dig workover pit. Set and fill 2 frac tanks with city water and heat to 80 degrees. Check for anchors. Set pump jack. MOL and RU completion rig. Hold safety meeting.

- 2. NU 2-3/8" relief line. Blow well down and kill with water if necessary.
- 3. ND tubing head and pull tubing slips. NU BOP. Pick up an additional joints (198' - 6 jts) of 1-1/2" EUE tubing and TIH to approximately 6356' KB. The 1-1/2" tubing is currently landed at 6158' KB.
- 4. Pump Plug #1 Dakota. Spot 50 sx (59 cu.ft.) of Cl "B" neat cement from 6356' to approximately 6034'. Cement is designed to cover from the base of the Dakota perfs to 100' above the top Dakota perf with 100% excess.
- 5. TOH (standing back) 1-1/2" EUE tubing to approximately 5500' KB and WOC 4 hrs. TIH and verify cement top.
- 6. Load hole with water. TOH (laying down) to approximately 5363' KB.
- 7. Pump Plug #2 Gallup Spot 15 sx (18 cu.ft.) of Cl "B" neat cement from approximately 5363' KB to approximately 5163'. Cement is designed to cover 100' above and below the Gallup top.
- 8. TOH (laying down) to approximately 4309' KB.
- 9. Pump Plug #3 Mesa Verde. Spot 100 sx (118 cu.ft.) of Cl "B" neat cement from approximately 4309' KB to approximately 2942'. Cement is designed to cover 100' below the Point Lookout top and 100' above the Cliff House top.
- 10. TOH (laying down) the 1-1/2" tubing to approximately 2000'. Load hole with fresh water and pressure test the casing to 1500 psi. Finish TOH. Should have a total of 190 jts of 1-1/2" plus a seating nipple.

Complete Pictured Cliffs

Rig up Wireline truck and run GR/CCL from 1700' to 1000'. Perforate 4 spf (0.38" holes) from 1532' to 1546'. Total of 56 holes. Depths refer to the open-hole logs.

- 12. Rig up frac equipment and pressure test surface lines.
- 13. Fracture with 60,000# of 20/40 Brady sand in a 25#/1000 gal cross-linked gel fluid. Pump rate at 50 BPM and expected treating pressure is 2000 psig. Max treating pressure is 3500 psig. Treat with the following schedule if pressure permits: (would prefer to ramp sand)

Stage	Gel Vol. (Gals.)	Sand Vol. (lbs.)
Pad 1.0 ppg 20/40 2.0 ppg 20/40 3.0 ppg 20/40 4.0 ppg 20/40 4.0 ppg 20/40 Flush Total	7,000 3,000 5,000 5,000 5,000 Resin 3,000 997	0 3,000 10,000 15,000 20,000 12,000 0

- 14. Close BOPs. RD frac company and install flowline with 1/4" ceramic choke. Flow well back to pit overnight.
- 15. When well dies, TIH with sand bailer on 2-3/8" EUE tubing and clean out to PBTD or 300' below the lowest perf. TOH and lay down bailer.
- 16. TIH with tail joint, 4' perforated sub, and seating nipple, on 2-3/8", 4.7#, J-55, EUE 8rd tubing and set the seating nipple below the deepest perforation. ND BOP and NU tubinghead.
- 17. Run a 2" X 1-1/2" X 12' RWAC pump on %" rods. Space out the pump and hang off the rods. Start the pump jack and check for pump action.
- 18. Rig down and release rig. First deliver well.