

2003 APR -3 PM 2: 24

BUREAU OF LAN	deepen or reenter a different reservoir. MIT -" for such proposals APR 2003 IPLICATE 720-359-9144	FORM APPROVED Carning on, NI Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No. NM 20314 6. If Indian, Allottee or Tribe Name 7. If Unit or CA, Agreement Designation 8. Well Name and No. Roosevelt SWD #1. 9. API Well No. 30-045-31448 10. Field and Pool, or Exploratory Area
this form for proposals to drill or to Use "APPLICATION FOR PER SUBMIT IN TR S III Other as Company L.P. one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	deepen or reenter a different reservoir APR 2003 APR 2003 APR 2003 720-359-9144	5. Lease Designation and Serial No. NM 20314 6. If Indian, Allottee or Tribe Name 7. If Unit or CA, Agreement Designation 8. Well Name and No. Roosevelt SWD #1. 9. API Well No. 30-045-31448 10. Field and Pool, or Exploratory Area
this form for proposals to drill or to Use "APPLICATION FOR PER SUBMIT IN TR. S III Other as Company L.P. one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	deepen or reenter a different reservoir. MIT -" for such proposals APR 2003 IPLICATE 720-359-9144	NM 20314 6. If Indian, Allottee or Tribe Name 7. If Unit or CA, Agreement Designation 8. Well Name and No. Roosevelt SWD #1. 9. API Well No. 30-045-31448 10. Field and Pool, or Exploratory Area
this form for proposals to drill or to Use "APPLICATION FOR PER SUBMIT IN TR. S III Other as Company L.P. one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	deepen or reenter a different reservoir. MIT -" for such proposals APR 2003 IPLICATE 720-359-9144	6. If Indian, Allottee or Tribe Name 7. If Unit or CA, Agreement Designation 8. Well Name and No. Roosevelt SWD #1. 9. API Well No. 30-045-31448 10. Field and Pool, or Exploratory Area
Use "APPLICATION FOR PER SUBMIT IN TR. S as Company L.P. one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	APR 2003 IPLICATE APR 2003 720-359-9144	7. If Unit or CA, Agreement Designation 8. Well Name and No. Roosevelt SWD #1. 9. API Well No. 30-045-31448 10. Field and Pool, or Exploratory Area
Use "APPLICATION FOR PER SUBMIT IN TR. S as Company L.P. one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	APR 2003 IPLICATE APR 2003 720-359-9144	8. Well Name and No. Roosevelt SWD #1. 9. API Well No. 30-045-31448 10. Field and Pool, or Exploratory Area
SUBMIT IN TR. S as Company L.P. one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	APR 2003 IPLICATE C	8. Well Name and No. Roosevelt SWD #1. 9. API Well No. 30-045-31448 10. Field and Pool, or Exploratory Area
as Company L.P. one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	720-359-9144	8. Well Name and No. Roosevelt SWD #1. 9. API Well No. 30-045-31448 10. Field and Pool, or Exploratory Area
as Company L.P. one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	720-359-9144	9. API Well No. 30-045-31448 10. Field and Pool, or Exploratory Area
as Company L.P. one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	720-359-9144	9. API Well No. 30-045-31448 10. Field and Pool, or Exploratory Area
as Company L.P. one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	•	9. API Well No. 30-045-31448 10. Field and Pool, or Exploratory Area
one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	•	30-045-31448 10. Field and Pool, or Exploratory Area
one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	•	10. Field and Pool, or Exploratory Area
one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	•	
one No. Suite 770, Denver, CO 80202 otage, Sec., T., R., M., or Survey D	•	Piana Mass Varda
Suite 770, Denver, CO 80202 stage, Sec., T., R., M., or Survey D	escription)	Bianco Mesa Verde
otage, Sec., T., R., M., or Survey D	escription)	11. County or Parish, State
		San Juan County, New Mexico
FEL 360, 22-13014-1444	3337 p 11377 y	,
OUEOK ADDDOODIA	TE BOX(es) TO INDICATE NATURE OF NOTICE,	PERCET OF OTHER DATA
OF SUBMISSION	TYPE	E OF ACTION
tice of Intent	Abandonment	Change of Plans
uce of intern	Recompletion	New Construction
_		
bsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
al Abandonment Notice	Altering Casing	x Conversion to Injection
	Other	Dispose Water
		pletion on Well
or Completed Operations (Clearly		
ctionally drilled give subsurface in	cations and measured and true vertical deoths for	all markers and zones pertinent to this work.)*
cuonany united, give subsurface to	cations and incascind and ado volucindendoparo to	an manage and believe per miles to and seem,
Laurana de ampletion procedure		
proposed completion procaure.		
the oregoing is true and correct		
or Carta	ya Title Production Manager	Date03/31/03
Approxime of Beauty)		Date APR 1 5 2003
	Title	Date 7111 7 2000
val, if any:		
t t	ectionally drilled, give subsurface lo d proposed completion procdure.	t the foregoing is true and correct Hugo Cartaya Title Production Manager Title

*See Instructions on Reverse Side

Completion Prognosis for Calpine Natural Gas Roosevelt SWD #1

Location: SE/4 Sec 22 T30N R14W

Date: March 31, 2003

San Juan County, NM

Elev: 5657' GL

Field: Blanco Mesa Verde

KB: 5669'

Surface: BLM Minerals: BLM

PBTD: 3965' KB

Objective: Complete Blanco Mesa Verde as a SWD well.

Procedure:

 MIRU completion rig. PU and RIH with tubing and bit. Drill cement to PBTD at 3965' KB.

- 2. Pressure test casing to 2500#.
- 3. Set and fill eight frac tanks. Fill with City water.
- 4. Rig up Halliburton and pressure test casing to 2500 psi.
- 5. Rig up wireline truck. Run CBL and GR/CCL from PBTD to top of cement. Perforate Point Lookout (3735-3830). Depths refer to the open hole logs from Roosevelt #1 offset well. Total of 29 (0.36") holes.
- 6. Install 6" X 3000# flange to the top of the BOP and swedge back to a 4" 10-02 connection. Rig up Halliburton frac crew. Ball off Point Lookout with 1000 gal of 15% HCl and 50 ball sealers. Maximum pressure is 2500 psi. TIH with junk basket and retrieve balls.
- 7. Fracture with 50,000# of 20/40 Brady sand in slick water. Injection rate is 60 BPM and expected treating pressure is 2000 psig. Max treating pressure is 2500 psig. Treat with the following schedule if pressure permits:

Stage	Fluid Vol.	Sand Vol.
	(BBls.)	(lbs.)
Pad	300	¦ 0
0.5 ppg 20/40	238	5,000
1.0 ppg 20/40	238	10,000
1.5 ppg 20/40	238	15,000
2.0 ppg 20/40	238	20,000
Flush	60	0
Total	1,312	50,000
		l l

- 8. Rig up Wireline and set 4-1/2" CIBP at 3500'.
- 9. Perforate Cliff House with 29 (0.40") holes (2802-2895). Depths refer to the open hole logs from Roosevelt #1 offset well.
- 10. Ball off with 1000 gal of 15% HCl and 66 ball sealers. Maximum pressure is 2500 psi. TIH with junk basket and retrieve balls.
- 11. Fracture with 50,000# of 20/40 Brady sand in slick water. Injection rate is 60 BPM and expected treating pressure is 2000 psig. Max treating pressure is 2500 psig. Treat with the following schedule if pressure permits:

Stage	Fluid Vol. (BBls.)	Sand Vol. (lbs.)
Pad	300	o
0.5 ppg 20/40	238	5,000
1.0 ppg 20/40	238	10,000
1.5 ppg 20/40	238	15,000
2.0 ppg 20/40	238	20,000
Flush	44	0
Total	1,312	50,000

- 12. Close blind rams and rig down the frac crew. Flow well back to the pit through a %" choke.
- 13. TIH with 3-7/8" bit on 2-3/8" EUE work string tubing and reverse circulate out sand to CIBP at 3500'KB. Drill CIBP and reverse circulate out sand to PBTD or at least 4000'. TOH and lay down work string and bit.
- 14. Rig up wireline and perforate injection zones at 4 spf with (0.50") holes.
- 15. TIH with Weatherford 4-1/2" plastic lined packer with on/off tool and "F" profile nipple on 2-7/8" plastic lined tubing. Circulate annulus with packer fluid and biocide, prior to setting the packer. Set the packer at approximately 2760' or within 50' of the top perf.
- 16. ND BOP and install master valve. Rig down and release the rig.
- 17. Set injection facilities. Run MIT test witness by the NMOCD. Start injecting.