



Rosa Unit SWD #2 ESP Removal Procedure

ESP Removal Procedure

1. MIRU pulling unit. ND wellhead. NU BOP.
2. MIRU Schlumberger spooling unit for ESP cable. TOH with tubing, cable, ESP and Cavins Desander.
3. Transfer ESP cable to WPX yard. Send ESP to Schlumberger and Desander to Cavins in OKC for refurbishment. RDMO Schlumberger.
4. MU plastic-coated or nickel plated AS-1X retrievable packer BHA and TIH with same on 3-1/2" production tubing. Set packer @ $\pm 8,282'$.
5. Notify BLM/NMOCD of MIT schedule 24 hours in advance in the event they want to witness.
6. Load casing and perform MIT per BLM/NMOCD requirements. ND BOP. NU wellhead for injection. Return to injection. Turn well over to production. RDMO pulling unit.

ROSA UNIT SWD #002 ENTRADA

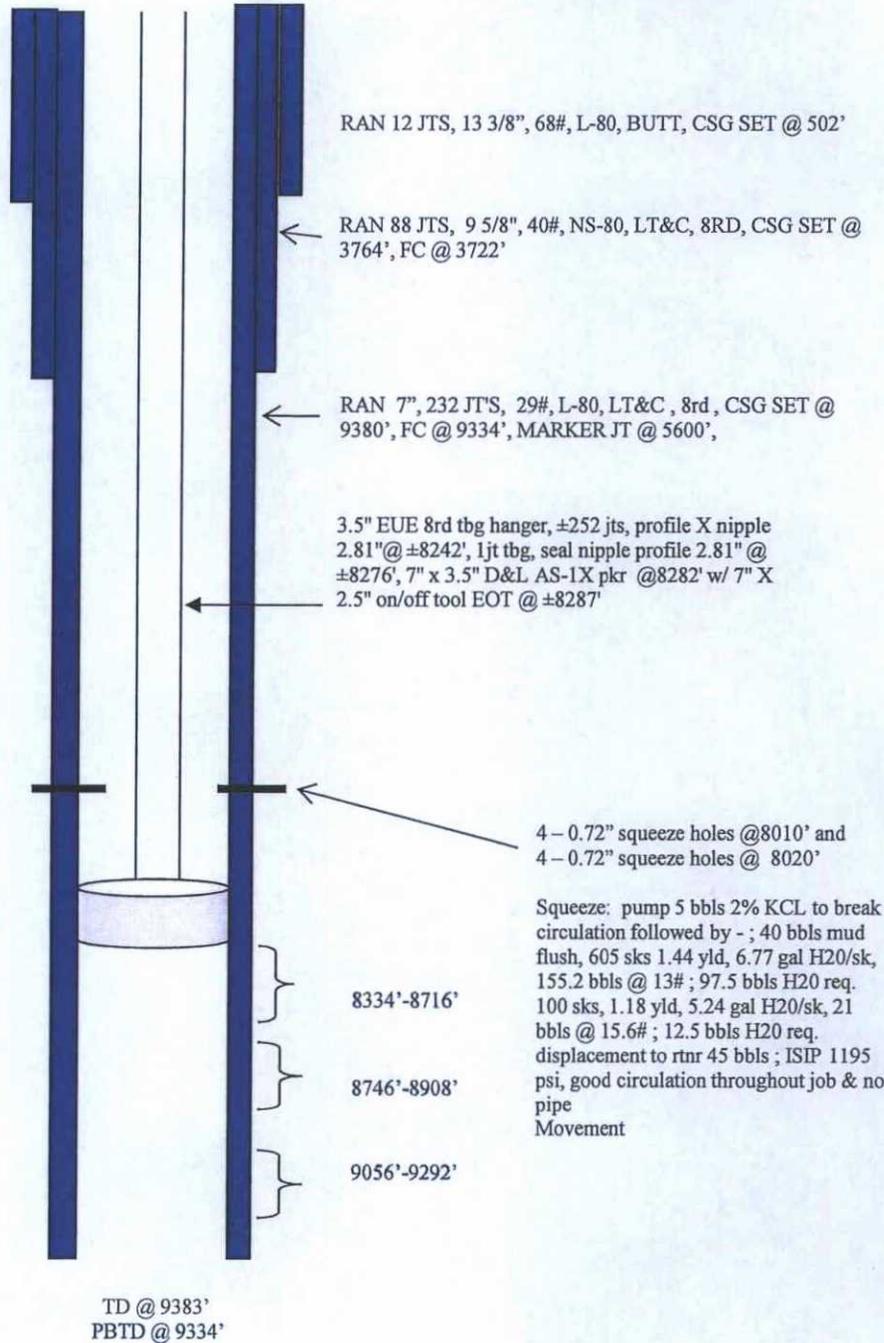
Spud Date 8/26/10
Completed 10/29/10

Surface Location:

Sur: 2460' FNL & 2095' FWL
BHL: 2414' FNL & 1951' FWL
Sec 25, 31N, 5W
Rio Arriba, NM

Elevation: 6447' GR
API #: 30-039-30812

<u>Tops</u>	<u>Depth</u>
Fruitland	3080'
Lewis	3607'
Cliff House	5521'
Point Lookout	5744'
Mancos	6204'
Graneros	7850'
Dakota	7992'
Morrison	8218'
Bluff	8736'
Entrada	9052'



3RD STAGE Morrison: 8334-8716' (432, 0.38" holes)
Frac with 183,336# 20/40 White Sand

2ND STAGE Bluff: 8746'-8908' (486, 0.38" holes)
Frac with 186,400# 20/40 Badger

1ST STAGE Entrada: 9056'-9292' (708, 0.38" holes)
Frac with 233,000# 20/40 Badger

4 - 0.72" squeeze holes @ 8010' and
4 - 0.72" squeeze holes @ 8020'

Squeeze: pump 5 bbls 2% KCL to break circulation followed by - ; 40 bbls mud flush, 605 sks 1.44 yld, 6.77 gal H2O/sk, 155.2 bbls @ 13# ; 97.5 bbls H2O req. 100 sks, 1.18 yld, 5.24 gal H2O/sk, 21 bbls @ 15.6# ; 12.5 bbls H2O req. displacement to rtnr 45 bbls ; ISIP 1195 psi, good circulation throughout job & no pipe Movement

TD @ 9383'
PSTD @ 9334'

<i>HOLE SIZE</i>	<i>CASING</i>	<i>CEMENT</i>	<i>CU. FT.</i>	<i>CMT TOP</i>
17 1/2"	13 3/8", 68#	690 s xs	792 cu.ft.	surface
12 1/4"	9 5/8", 40#	870 s xs	1783 cu.ft.	surface
8 3/4"	7", 29#	705 s xs	989 cu.ft.	3400' - CBL