

MADDOX ENERGY CORPORATION

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Malaga No. 1  
20" Surface Casing Installation

Spudded 26" surface hole at 12:15 AM on March 22, 1979. Began loosing fluid at 120'. Lost returns completely at 233'. Drilled 26" hole to TD of 425'.

Ran surface casing as follows:

Davis Lynch float shoe	2.15'
1 jt. of 20", 94#/ft., K-55 Buttress csg.	41.84'
Davis Lynch tag in float collar	2.20'
9 jts., 20", 94#/ft., K-55 Buttress csg.	<u>366.49'</u>
TOTAL STRING	412.68'
Casing set at	400' KB

Ran 12 joints of drill pipe and tagged into float collar.

Cemented through drill pipe with 200 sacks "thick-set" with 12 pounds gilsonite per sack, 1/4 pound flocele per sack and 2%  $\text{CaCl}_2$  and 1450 sacks Class "C" with 2%  $\text{CaCl}_2$ . Finished cementing at 9:45 AM on March 23, 1979. Did not have any returns while cementing.

WOC 4 1/4 hours. Ran 1" Kobe pipe outside of 20" casing to top of cement at 240' KB. Cemented with 150 sacks Class "C" with 3%  $\text{CaCl}_2$ .

WOC 2 1/2 hours. Ran 1" pipe to TOC at 220' KB. Cemented with 150 sacks Class "C" with 3%  $\text{CaCl}_2$ .

WOC and placed 10 yards of crushed rock on outside of 20" casing - 4 hours.

Ran 1" pipe to top of gravel at 110' KB. Cemented with 150 sacks thick-set with 10 pounds gilsonite per sack and 2%  $\text{CaCl}_2$ . Circulated 25 sacks of cement to surface. Cementing completed at 1:00 AM on March 24, 1979.

Installed well-head and nipped up 20" hydrill. Ran bit and drill pipe to top of cement in casing at 335'.

WOC 23 hours. Tested casing and BOP's to 800 psi for thirty minutes with no pressure loss.

BDB/lsg  
March 29, 1979

