

UNION OIL COMPANY OF CALIFORNIA
DISTRICT OFFICE - MIDLAND, TEXAS

DRILLING PROGRAM

Field: North Quail Ridge Location: 1980' FSL & 660' FWL, Section 7, T-19-S, R-34-E, Lea County, New Mexico
Well Name: PIPELINE DEEP UNIT FEDERAL WELL NO. 5

Estimated Total Depth: 13,600'

Drilling Data: 10' drlg time 1600'-TD

Samples: 10' samples 3000'-TD

Estimated Formation Tops:

Rustler	1600'	Bone Spring	7900'
Salt	1880'	Wolfcamp	10,740'
B/Salt	3060'	Strawn	12,050'
Yates	3300'	Atoka	12,330'
San Andres	5160'	Morrow	12,775'
Delaware	6050'	Lower Morrow	13,255'

Logs: CNL-FDC Dual Laterolog & Micro SFL 5250-13,600'

DSTs: None

Cores: None

Deviation: 4° Maximum, not to exceed 1°/100'

Casing & Mud Program:

Depth	Size Hole	Casing	Cement	W.O.C.	Mud		
					Wt.	Vis.	W.L.
0-500'	17-1/2"	13-3/8"	*600 sxs	24 hrs	As needed to spud		
500-5300'	12-1/4"	9-5/8"	**1900 sxs	24 hrs	10	Brine wtr	
5300-10,000'	7-7/8"	-	-	-	Fresh wtr		
10,000-12,500'	"	-	-	-	10	Brine wtr	
12,500-TD	"	5-1/2"	***1100 sxs	24 hrs	10.2	36-40	5

Rig to be released after nipping up 5-1/2" casing.

* Surface csg to be cmt'd w/400 sxs Class "C" w/4% gel & 2% CaCl₂, followed by 200 sxs

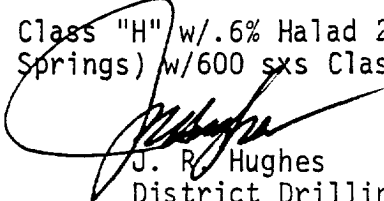
Class "C" neat w/2% CaCl₂. Calc to circ. ** Intermediate cmt'd w/600 sxs lite w/10#

gilsonite & 1/4# flocele & 200 sxs Class "C" neat. Cmt thru DV tool @ 1800' w/950 sxs

lite wate w/15# salt & 150 sxs Class "C" neat. Calc to circ.

NOTE: Changes in the above program will be at the direction of a qualified Union Oil Company of California representative and should be clearly indicated on the program posted at the rig.

*** Production csg to be cmt'd w/500 sxs Class "H" w/.6% Halad 22 0.5% CFR-2 & 5% KCL. Cmt thru DV tool @ 10,700' (for Bone Springs) w/600 sxs Class "H" w/.6% Halad 22 & 0.5% CFR-2.


J. R. Hughes
District Drilling Superintendent