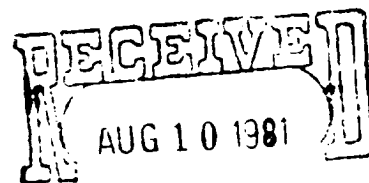


SUPPLEMENTAL DRILLING DATA

HCW EXPLORATION, INC.
WELL #1 CO-FED
760' FSL & 660' FWL Sec 26-22S-28E
EDDY COUNTY, NEW MEXICO



OIL & GAS
U.S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

1. SURFACE FORMATION: Quaternary.

2. ESTIMATED TOPS OF GEOLOGIC MARKERS:

Salt	500'	Bone Springs	6130'
Base Salt	2345'	1st BS Sand	7200'
Delaware	2610'	2nd BS Sand	7975'
Cherry Canyon	3725'	3rd BS Sand	9250'
Brushy Canyon	4720'	Wolfcamp	9790'

3. ANTICIPATED POROSITY ZONES:

Water: Above 200'

Oil: Delaware, Cherry Canyon, and Bone Springs

4. CHANGED CASING DESIGN:

<u>SIZE</u>	<u>INTERVAL</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>JOINT</u>	<u>CONDITION</u>
30"	0-30'	112	X-62	PE	New
20"	0-400'	52.73	B	PE	New
13 3/8"	0-2500'	54.50	K-55	ST&C	New
9 5/8"	0-1500'	47.0	S-95	LT&C	New
	0-2500'	43.5	S-95	LT&C	New
	2500-5000'	40.0	S-95	LT&C	New
	5000-7000'	43.5	S-95	LT&C	New
	7500-9750'	47.0	S-95	LT&C	New

5. SURFACE CONTROL EQUIPMENT: Two ram-type preventers (900 series).

6. DRILLING FLUID:

0 - 400' Fresh water with gel added if needed for viscosity.

400 - 2800' Salt water conditioned as necessary for control of viscosity, pH, and water-loss.

2800 - 8500' Cut brine conditioned as necessary for control of viscosity, pH, and water-loss.

7. AUXILIARY EQUIPMENT: Drill string safety valve.