

(See other instructions on reverse side)

~~RECEIVED~~

BUREAU OF LAND MANAGEMENT
FIRMINGTON RESOURCE AREA
Oil and Gas Lease Requirements)
APR 20 1967
OIL CON. DIV.

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):				38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP TRUE VERT. DEPTH
11/24/86			Cemented 1st stage as follows: 10 bbls. mud flush followed by 420 sx 50/50 poz with 2% gel, 6-1/4 #/sk Kolite & 1/4 #/sk celloflake (584 cu.ft.) Partial returns on 1st stage, but never lost circulation. Plug down at 2:51 am, 11/24/86. Float checked good. Continued with partial returns while circulating. Started 2nd stage at 3:51 am. & cemented as follows: 10 bbls. mud flush followed by 200 sx 65/35 poz with 12% gel & 1/4 #/sk celloflake & 200 sx 50/50 poz with 2% gel, 6-1/4 #/sk Kolite & 1/4 #/sk celloflake (881 cu.ft.) plug down at 4:55 am. Partial returns. Circulated 3 hrs. Lost small amount of mud. Cemented 3rd stage as follows: 10 bbls. mud flush followed by 720 sx 65/35 poz with 12% gel & 1/4 #/sk celloflake & 75 sx 50/50 poz with 2% gel, 6-1/4 #/sk Kolite & 1/4 #/sk celloflake (2069 cu. ft.) Bumped plug at 10:35 am. Lost circulation 160 bbls. into cement job. Slowed down rate to 2 bbls./min. Got partial returns and lost returns for good 211 bbls. into cement job. No cement circulated to surface. Total of 3534 cf in 3 stages. 12/5/86 Pumped 600 sx 65/35 poz down bradenhead w/ maximum pressure of 520 psi. (1572 cf) DV Tools at 6494' KB & 4172' KB.	Ojo Alamo Kirtland Fruitland Pictured Cliffs Lewis Cliff House Menefee Point Lookout Mancos Niobrara "A" "B" "C" Sanostee Carlile Greenhorn Graneros Dakota	3600' 3745 3820 3940 4065 5758 5895 6140 6330 7167 7371 7530 7785 7968 8150 8215 8315	