

ATTACHMENT FOR U.S.C.S. FORM 9-330
 SHELL OIL COMPANY
 MIDDLETON-FEDERAL A NO. 1
 SE/4 NE/4 SECTION 18-19S-32E
 LEA COUNTY, NEW MEXICO

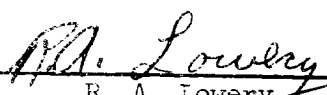
Deviation Record

1,522' = 1/4°	7,980' = 1 3/4°	10,598' = 1°
3,676' = 2 1/4°	8,300' = 3/4°	10,782' = 1 3/4°
4,584' = 1°	8,625' = 1°	10,898' = 1 3/4°
4,789' = 1°	8,835' = 1°	11,156' = 1 3/4°
5,150' = 1/4°	8,925' = 1 1/4°	11,306' = 1°
5,290' = 1/2°	9,147' = 1 1/4°	11,450' = 1 1/2°
5,400' = 3/4°	9,221' = 1/2°	11,606' = 1 3/4°
5,940' = 1/2°	9,765' = 3/4°	11,765' = 1 1/2°
7,410' = 3°	9,940' = 1°	11,950' = 1 1/4°
7,680' = 2°	10,071' = 1°	12,118' = 3/4°
7,750' = 2°	10,491' = 1 1/2°	12,455' = 1 1/4°

HISTORY OF OIL OR GAS WELL

Shell Middleton Federal A No. 1 was spudded at 7:00 PM, MST, 6-3-62. Drilled to 897'. Cemented 13 3/8" casing at 895' w/1250 sx. Drilled to 4715'. Ran logs. Cemented 9 5/8" casing at 4714' w/1050 sx. Drilled to 11,655'. Ran logs. Drilled to 12,515'. Ran logs. DST No. 1A: 12,168'-12,515', pkr. failed. DST No. 1: 12,130'-12,515' (385' Atoka). Tool open 3 hrs. thru 3/8" BC, 5/8" CC, 4" DP w/strong blow. GTS 15 minutes at stabilized rate 1 MMCFD. FSP 100 psi. Reversed out 1230' (13 bbls) GCM. Recovered 240' (1.2 bbls) GCM below circ. sub. No water. ISIBHP failed. FBHP 1135-1536 psi. 60 Minutes ESIBHP 4921 psi. HMP 7284 psi. Recovered mud titrate 1200 ppm Cl⁻. Pit mud 200 ppm Cl⁻. Conclusive Test. (Johnston).

Cemented 3 strings 2 7/8" casing w/2300 sx. Perforated Strawn 11,263'-11,283'. Treated w/2000 gallons 15% MCA. Recovered load. Oil OPI flowed 269 BOPD + 13 BWPD thru 18/64" choke. FMP 750 psi. Gr. 46.2° API.


 R. A. Lowery
 District Exploitation Engineer

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 SEP 13 1962
 GEOLOGICAL SURVEY
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