

ESTORIL PRODUCING CORPORATION

UNION FEDERAL #1  
Lea County, New Mexico

ADDITIONAL INFORMATION TO BE ATTACHED TO FORM 9-330 - SUMMARY OF POROUS ZONES:

DST #2: 9505-9662' Bone Springs Formation

Opn on 15 min pre flow, blow to btm of bucket in 5 mins. Put on 1/2" choke & turned to pit; 1 hr ISI; opn on final flow, 1/2" choke reduced to 1/4" ch to btm of bucket.

Tool opn with weak blow, inc. to strong blow, re-opn w/strong blow & decreased at end of test to very weak blow. Rec. 1395' gas in drill pipe, 5' oil, 80' drilling fluid. Chlorides 4000 ppm. Sample chamber recovery: .15 cf gas, 50 cc oil, 1250 cc drilling fld.

IHP	4237#
IFP	179-189# (15 mins)
ISIP	359# (60 mins)
FFP	189-189# (60 mins)
FSIP	1925# (120 mins)
FHP	4237#

DST #3: 10,808-10,983 3rd Bone Springs

880' water blanket, IF 30 mins, opn with weak blow, inc. to fair blow, 497# decreased to 482#. Rec. in drill pipe, 5' oil, 180' gas, 30' drlg fld, 880' gas cut water blanket. Top sample 1000 ppm chlorides. Center 1000 ppm chlorides. Temp: 150°. Sample chamber recovery: 1800 cc drlg fld, Chl. 3000 ppm, trace of oil, trace of gas.

ISIP	1024# (60 mins)
FFP	60 mins, weak blow inc. to fair blow
IFF	482#
FFFF	482#
FSIP	4073# - increasing (180 mins)
IHP	4798#
FHP	4767#

DST #4: 12,461'-12,713' Atoka

Tool opn w/weak blow, re-opn w/final flow, 4 or 5 bubbles decreased to no blow; 2500' water blanket. Rec. 2500' water blanket; 45' drlg mud; no show of oil or gas. Sampler chamber: 0 pressure, 1500 cc drlg mud, no oil or gas.

IFP	1391-1391 (30 mins)
FFP	1925# (60 mins)
ISIP	3191-1391# (60 mins)
FSIP	1747# (120 mins)