

Yates Petroleum Corporation  
South Alkahi "LK" Federal #1  
1980' FNL and 1980' FEL  
Section 12 - T6S - R25E  
Chaves County, New Mexico

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JUN 11 1979

U.S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

In conjunction with Form 9-331C, Application for Permit to Drill subject well, Yates Petroleum Corporation submits the following ten items of pertinent information in accordance with USGS requirements:

1. The geologic surface formation is sandy alluvium.
2. The estimate tops of geologic markers are as follows:

San Andres	616'
Glorieta	1461'
Abo	3580'
Wolfcamp	4350'
Penn	4890'
Granite Wash	5300'
T.D.	5700'

3. The estimated depths at which anticipated water, oil, or gas formations are expected to be encountered:

Water: Approximately 270' - 330'

Oil or Gas:	Wolfcamp	4375'
	Penn	4910'
	Granite Wash	5400'

4. Proposed Casing Program: See Form 9-331C.
5. Pressure Control Equipment: See Form 9-331C and Exhibit B.
6. Mud Program: See Form 9-331C.
7. Auxiliary Equipment: Kelly Cock; pit level indicators and flow sensor equipment; sub with full-opening valve on floor, drill pipe connection.
8. Testing, Logging and Coring Program:  
  
Samples: Surface casing to T.D.  
DST's: As Warranted  
Logging: Surface casing to T.D.  
Coring: CNL-FDC T.D. to casing with GR-CNL on to surface and DLL from T.D. to casing with R<sub>x</sub>O.
9. No abnormal pressures or temperatures are anticipated.
10. Anticipated starting date: As soon as possible after approval.  
Lease expires 7-1-79.