

CHESAPEAKE OPERATING, INC.

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GEOLOGICAL DEPARTMENT

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Final Staked Location
Orthodox Application
GEOLOGICAL PROGNOSIS
 11 April 2000

<u>Well Name:</u>	CHESAPEAKE Boyce 3-15	<i>Big Dog Prospect</i>
<u>Location:</u>	<u>Surface:</u> 2,310' FNL & 341' FEL <u>BHL:</u> Target 110' Radius <u>S-T-R:</u> S/2 NE/2 Section 15-16S-35E <u>County, State:</u> Lea County, New Mexico	X: 774,905 Y: 700,570 NW Shoebar Strawn

<u>Elevation:</u>	<u>GL:</u> 3984' <u>KB:</u> 4000'
<u>Casing:</u>	<u>Surface:</u> 13-3/8" @ 450' <u>Intermediate:</u> 8-5/8" @ 4,700' <u>T.D.:</u> 5-1/2" @ 11,575'

<u>Formation Tops:</u>	<u>Subsea</u>	<u>RKB</u>
San Andres	-700	4,701
Glorietta	-2,201	6,201
Paddock/Blinberry	-2,748	6,748
Tubb	-3,385	7,385
Abo	-4,069	8,069
Wolfcamp Limestone	-5,565	9,565
Townsend Shale	-6,587	10,587
Townsend Limestone	-6,627	10,627
Cisco Shale	-6,742	10,742
DST Strawn	-7,221	11,221
Strawn Clastics	-7,365	11,365
Atoka Shale	-7,427	11,427
Total Depth		11,575

Off-set Logs:	ARRINGTON'00 Mayfly 4-14 & CHESAPEAKE'00 Boyce 1-15
Mud Logging:	Two man on at 9,000'
Open Hole Logging:	Spectral GR, Density, Neutron & Pe from TD to intermediate, then Neutron & GR to 200'; High Resolution Induction & Micro + Compensated Sonic from TD to intermediate.