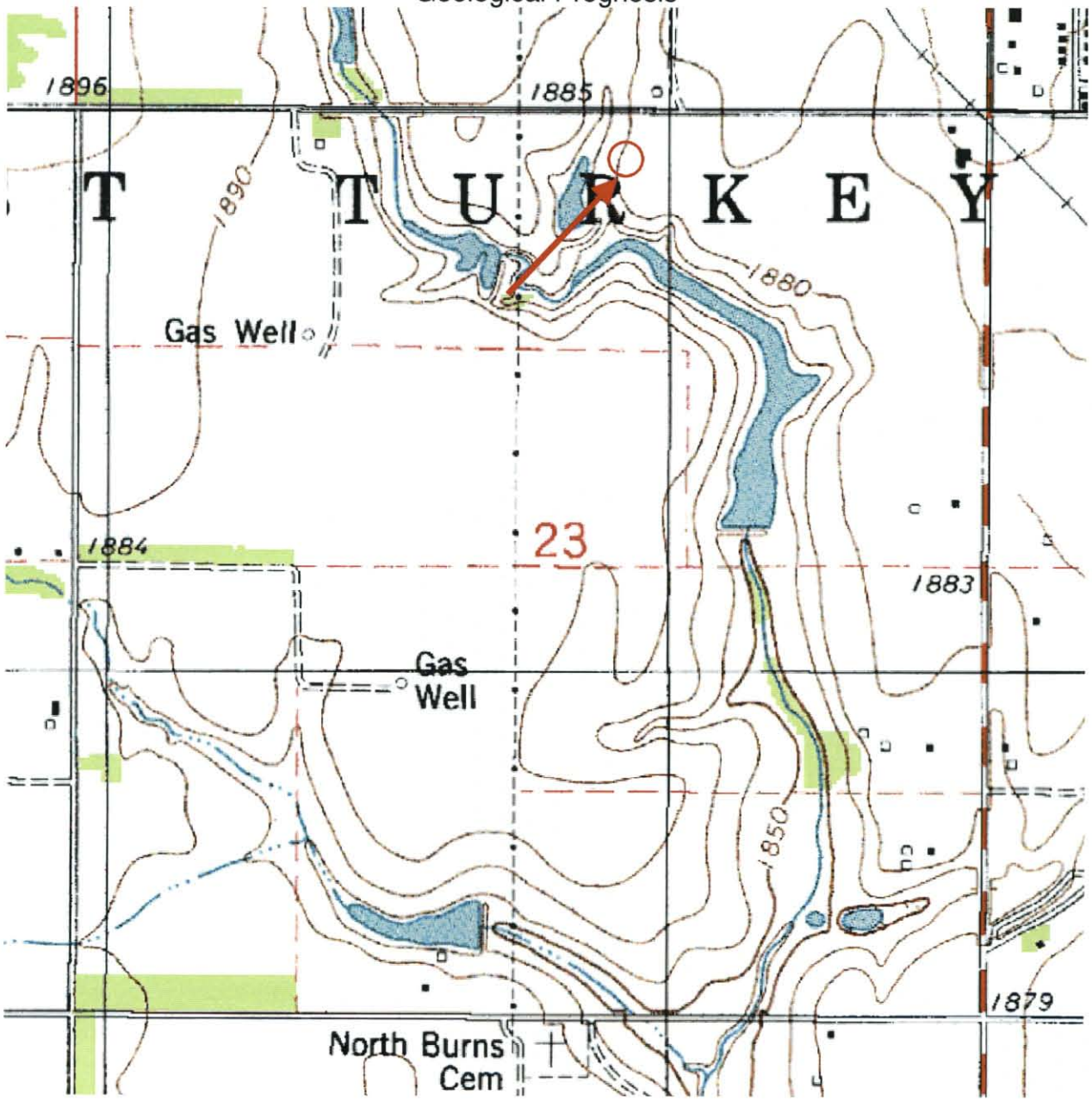
Chesapeake Operating, Inc.
Mountain Front Project
El Dorado Prospect
Reid McCarty – Geologist

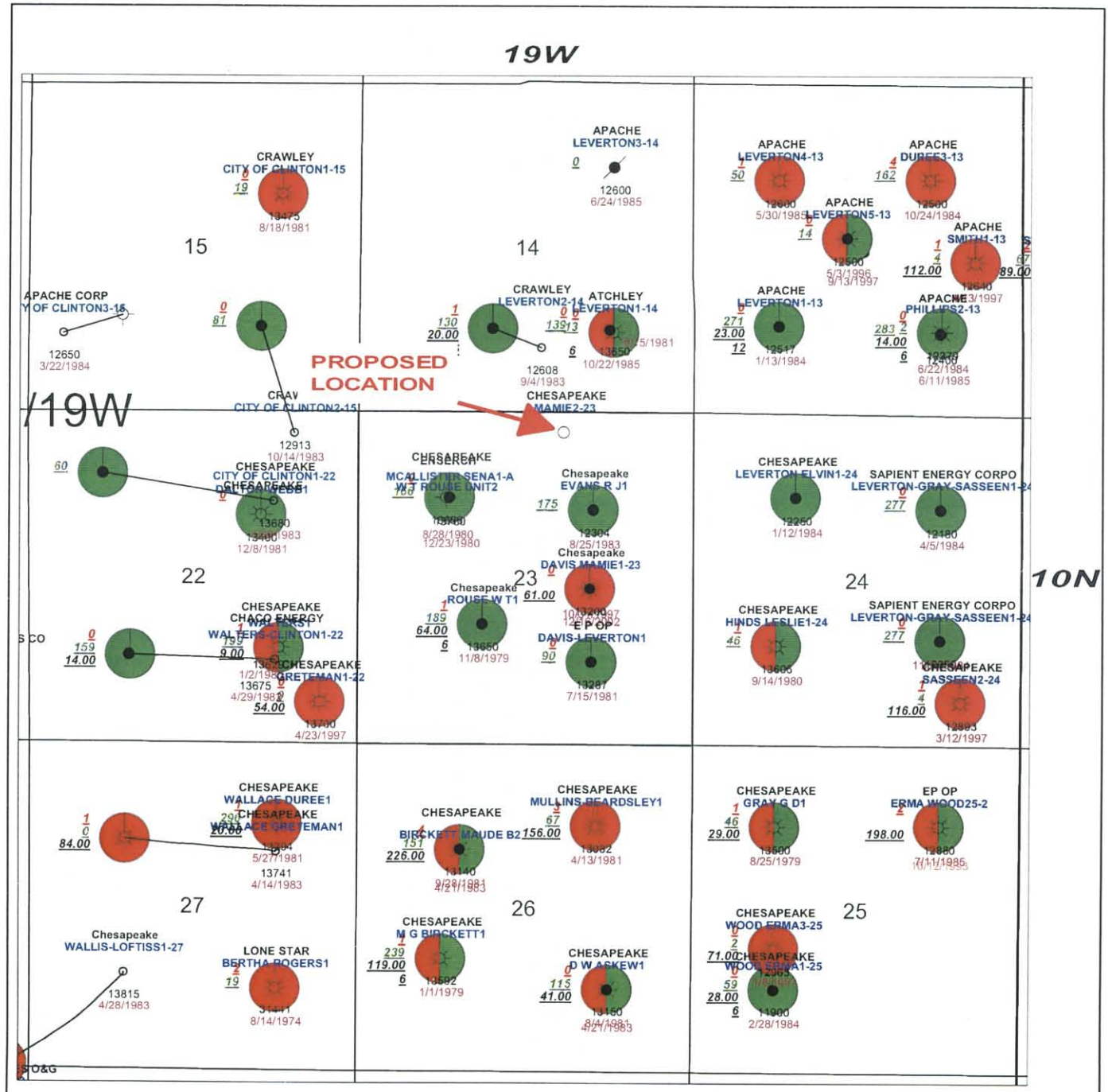
Geological Prognosis



CD 2005-5790
91

ROSE M. KIDDER
EXHIBIT
C.S.R.
OFFICIAL REPORTER

RM 04/13/05
Revised 6/16/05 RM modify LOC



LEGEND

- Permian
- Virgilian
- Tonkawa
- U. Missouri
- L.Missouri-Clev/March
- U. DesMoines-Oswego
- U. DesMoines-Skinner/Prue
- L. DesMoines
- Atoka
- U. Morrow
- L. Morrow
- Hunton
- Simpson-Viola
- Arbuckle

EXHIBIT 1G

WELL INFORMATION LEGEND

CURRENT OPERATOR
WELL NAME & NUMBER

Total Depth
Completion Date

Chesapeake
Natural Gas
Natural Advantages

CHESAPEAKE OPERATING, INC.

ID 200505790
LE 200505791

Washita Co., OK

Production Map

Eastern Mountain Front\Burns\BurnsFlat_GW Oil Zone.gmp

Date: 12 August, 2005 | **Geologist:** RMCCARTY

ROSE M. KIDDER
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EXHIBIT 3

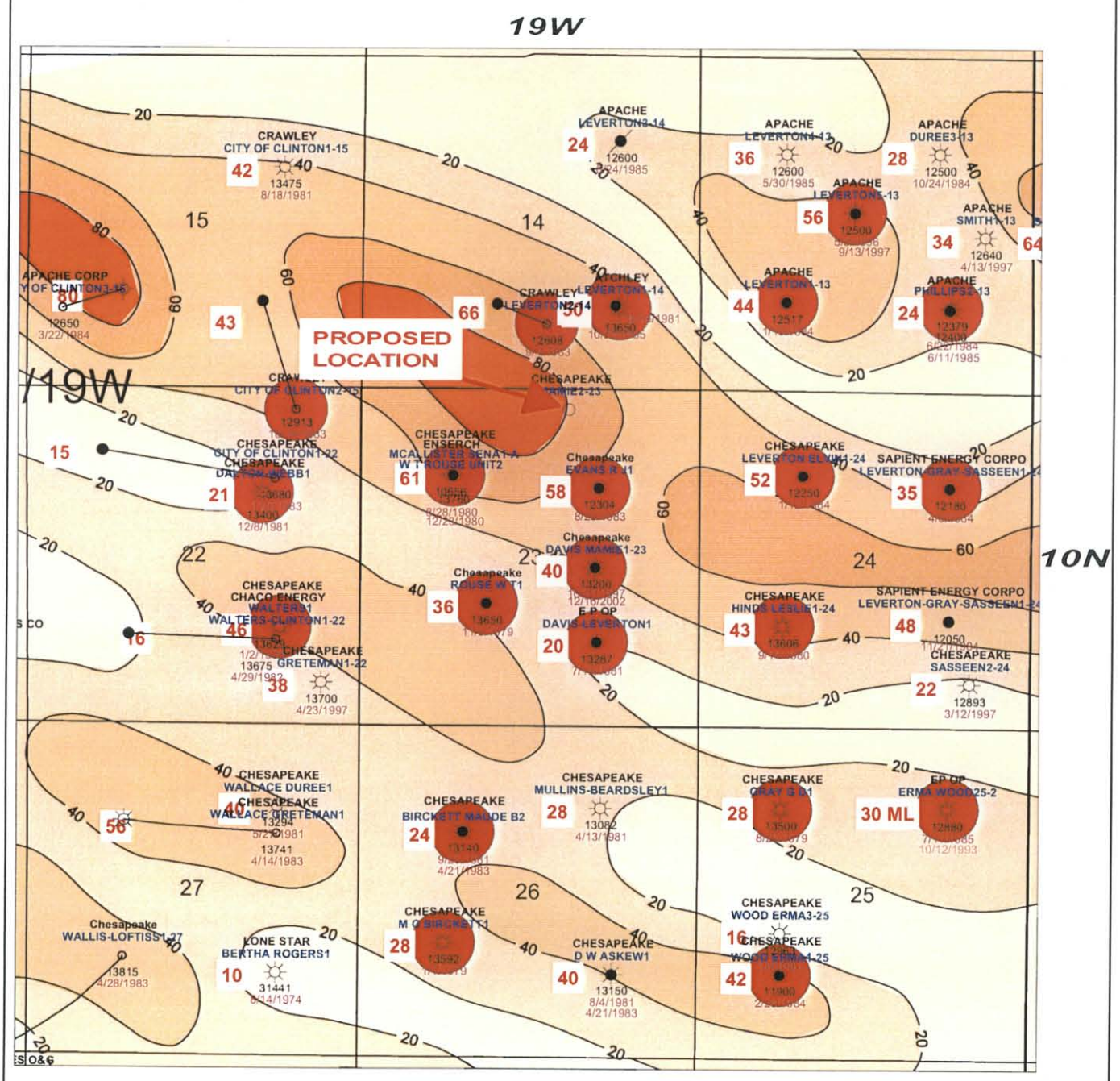

EXHIBIT 2G

Oil Zone Perf'd

WELL INFORMATION LEGEND

CURRENT OPERATOR
WELL NAME & NUMBER
Total Depth
Completion Date

Chesapeake Natural Gas Natural Advantages

CHESAPEAKE OPERATING, INC.

ID 200505790
LE 200505791

Washita Co., OK

GW Oil Zone Net Pay
(10% Density Porosity)

Eastern Mountain Front\Burns\BurnsFlat_GW_OilZone.gmp

Date: 12 August, 2005 | **Geologist:** RMCCARTY

ROSE M. KIDDER
EXHIBIT 24
C.S.R.
OFFICIAL REPORTER

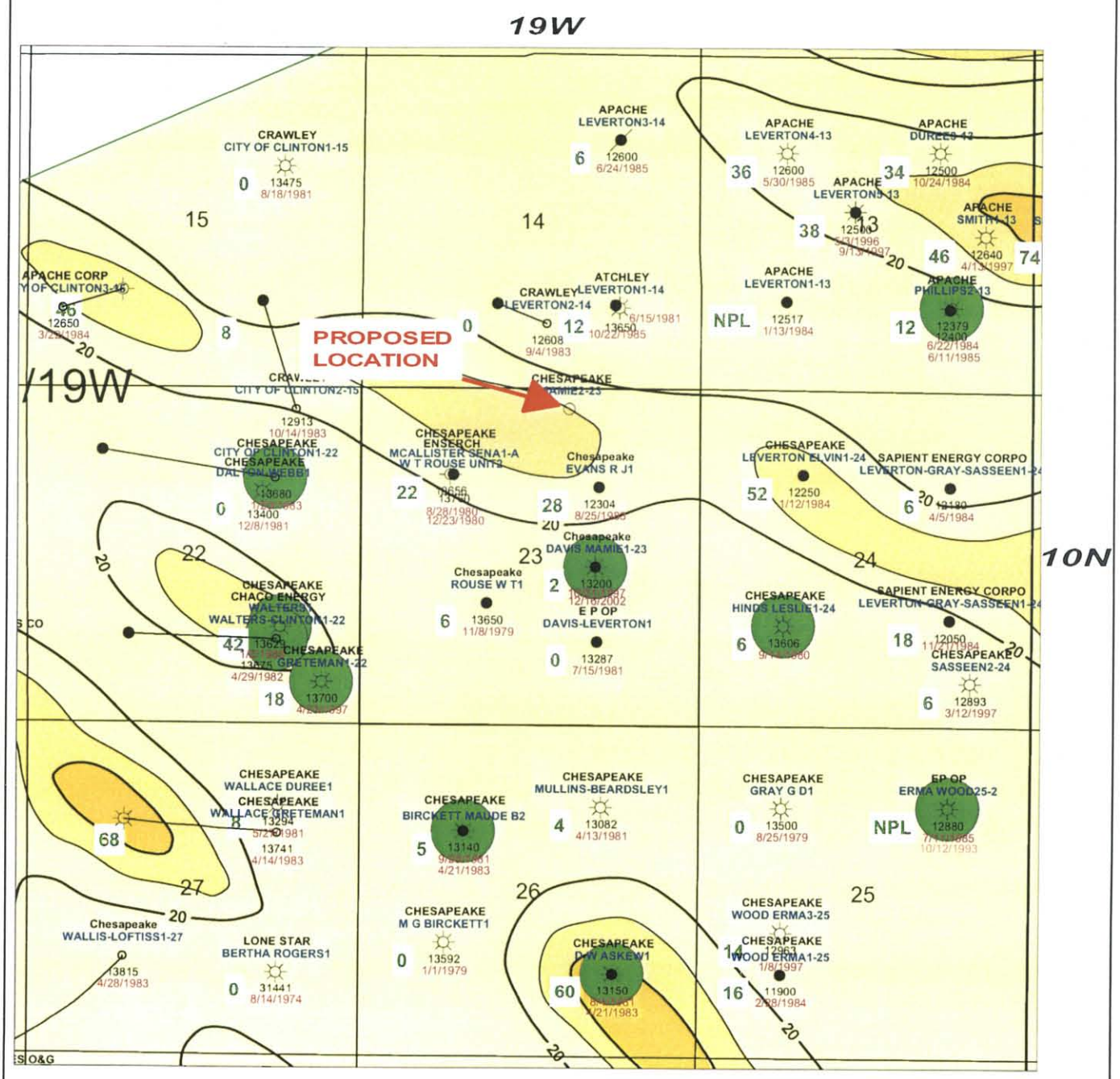

EXHIBIT 3G

WaltersZone Perf'd

WELL INFORMATION LEGEND

CURRENT OPERATOR
WELL NAME & NUMBER
○
Total Depth
Completion Date

Chesapeake Natural Gas Natural Advantages

CHESAPEAKE OPERATING, INC.

ID 200505790
LE 200505791

Washita Co., OK

GW Walters Zone Net Pay
(12% Density Porosity)

Eastern Mountain Front\Burns\BurnsFlat_GW Oil Zone.gmp

Date: 12 August, 2005 | **Geologist:** RMCCARTY

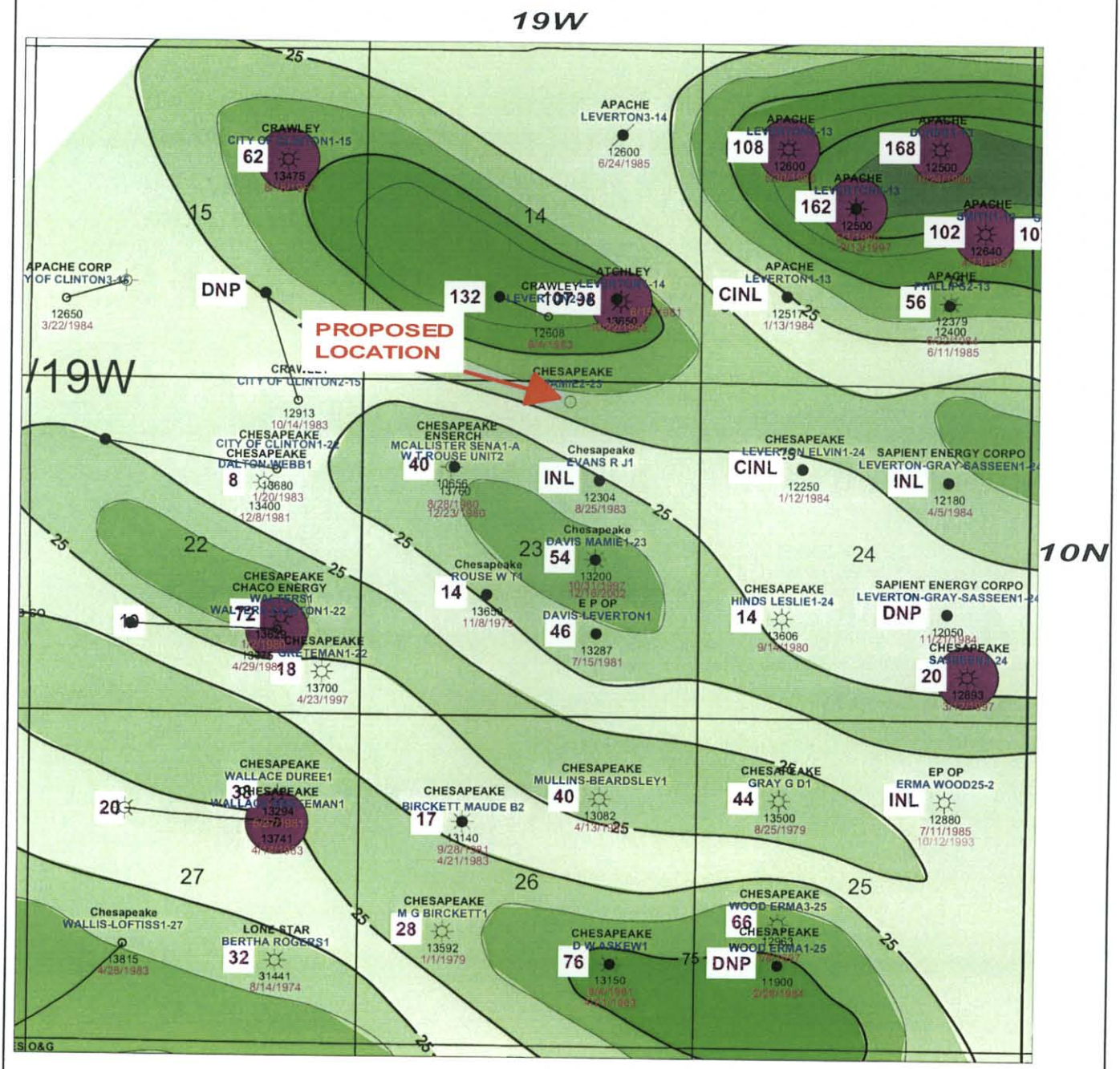

EXHIBIT 4G

A Zone Perf'd

WELL INFORMATION LEGEND

CURRENT OPERATOR
WELL NAME & NUMBER
○
Total Depth
Completion Date

Chesapeake Natural Gas

CHESAPEAKE OPERATING, INC.

ID 200505790
LE 200505791
Washita Co., OK
GW A Zone Net Pay
(10% Density Porosity)
Eastern Mountain Front\Burns\BurnsFlat_GW Oil Zone.grd

Date: 12 August, 2005 | **Geologist:** RMCCARTY

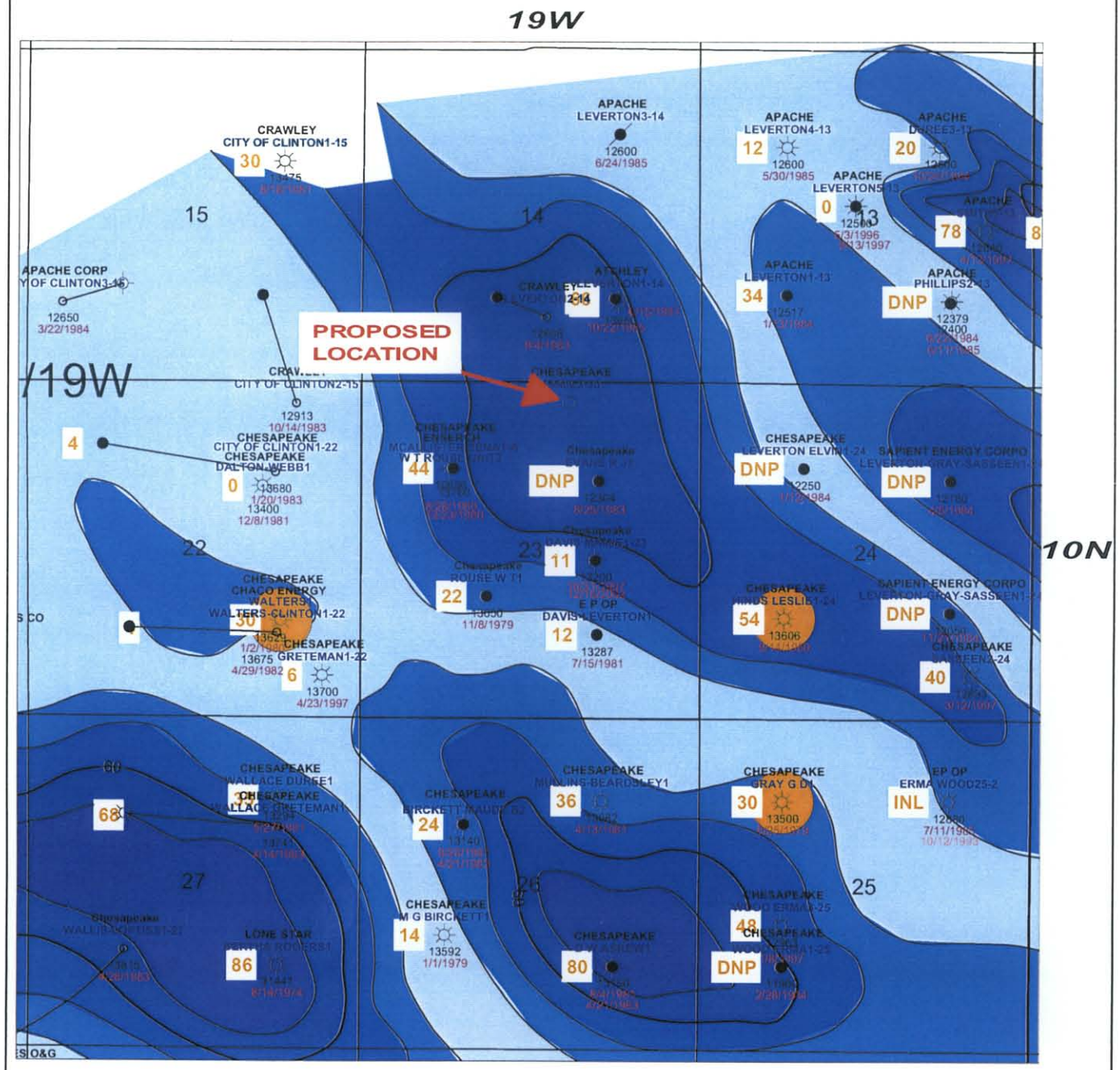

EXHIBIT 5G

B Zone Perf'd

WELL INFORMATION LEGEND

CURRENT OPERATOR
WELL NAME & NUMBER
Total Depth
Completion Date

Chesapeake Natural Gas Natural Advantages

CHESAPEAKE OPERATING, INC.

ID 200505790
LE 200505791

Washita Co., OK

GW B Zone Net Pay
(9% Density Porosity)

Eastern Mountain Front\Burns\BurnsFlat_GW Oil Zone.gmp

Date: 12 August, 2005 | **Geologist:** RMCCARTY

ROSE M. KIDDER CSR OFFICIAL REPORTER

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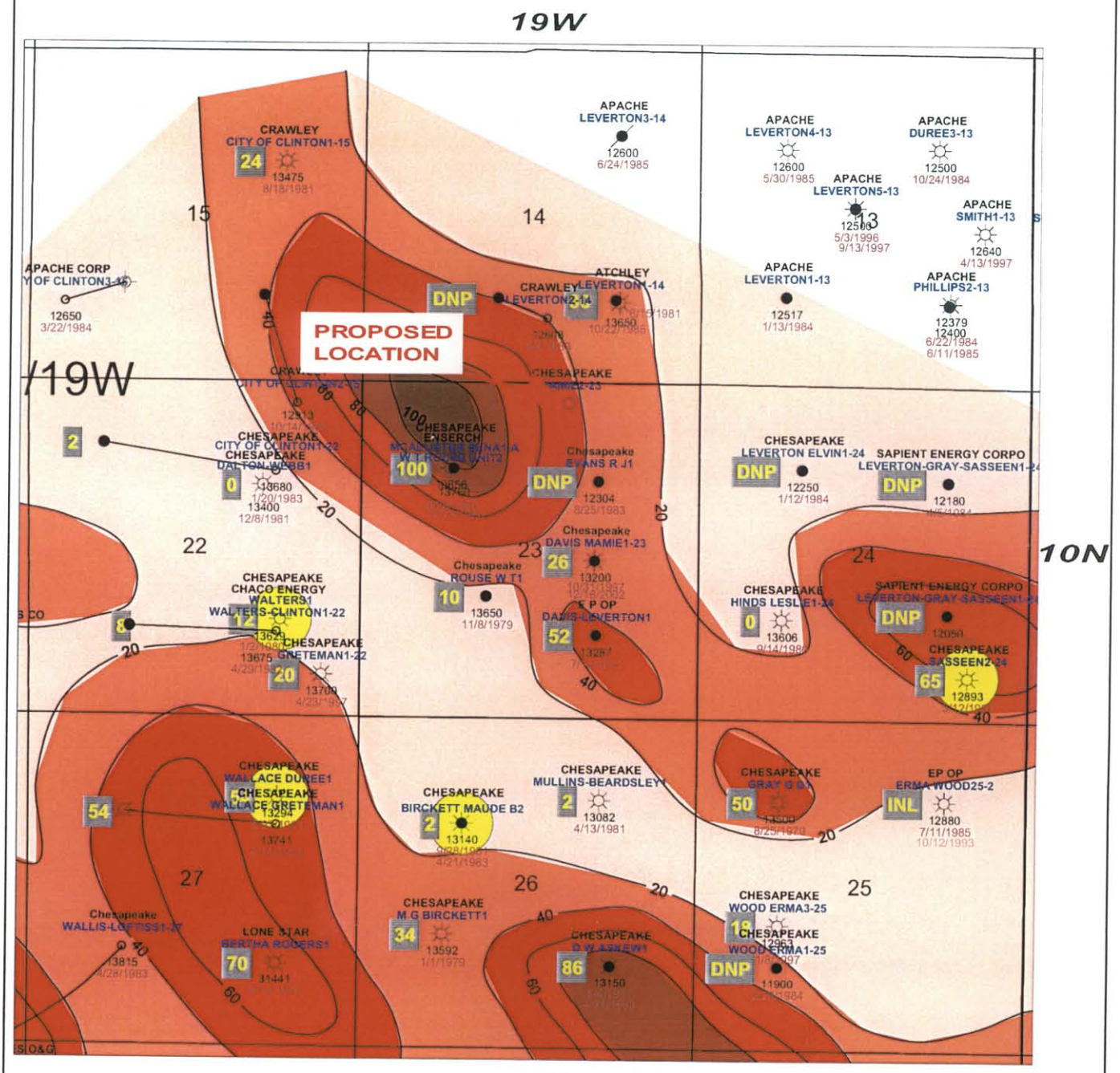

EXHIBIT 6G

C Zone Perf'd

WELL INFORMATION LEGEND

CURRENT OPERATOR
WELL NAME & NUMBER
Total Depth
Completion Date

Chesapeake Natural Gas Natural Advantages

CHESAPEAKE OPERATING, INC.

ID 200505790
LE 200505791
Washita Co., OK
GW C Zone Net Pay
(8% Density Porosity)
Eastern Mountain Front\Burns\BurnsFlat_GW Oil Zone.gmp

Date: 12 August, 2005 | **Geologist:** RMCCARTY

ROSE M. KOBER EXHIBIT C.S.R. OFFICIAL REPORTER

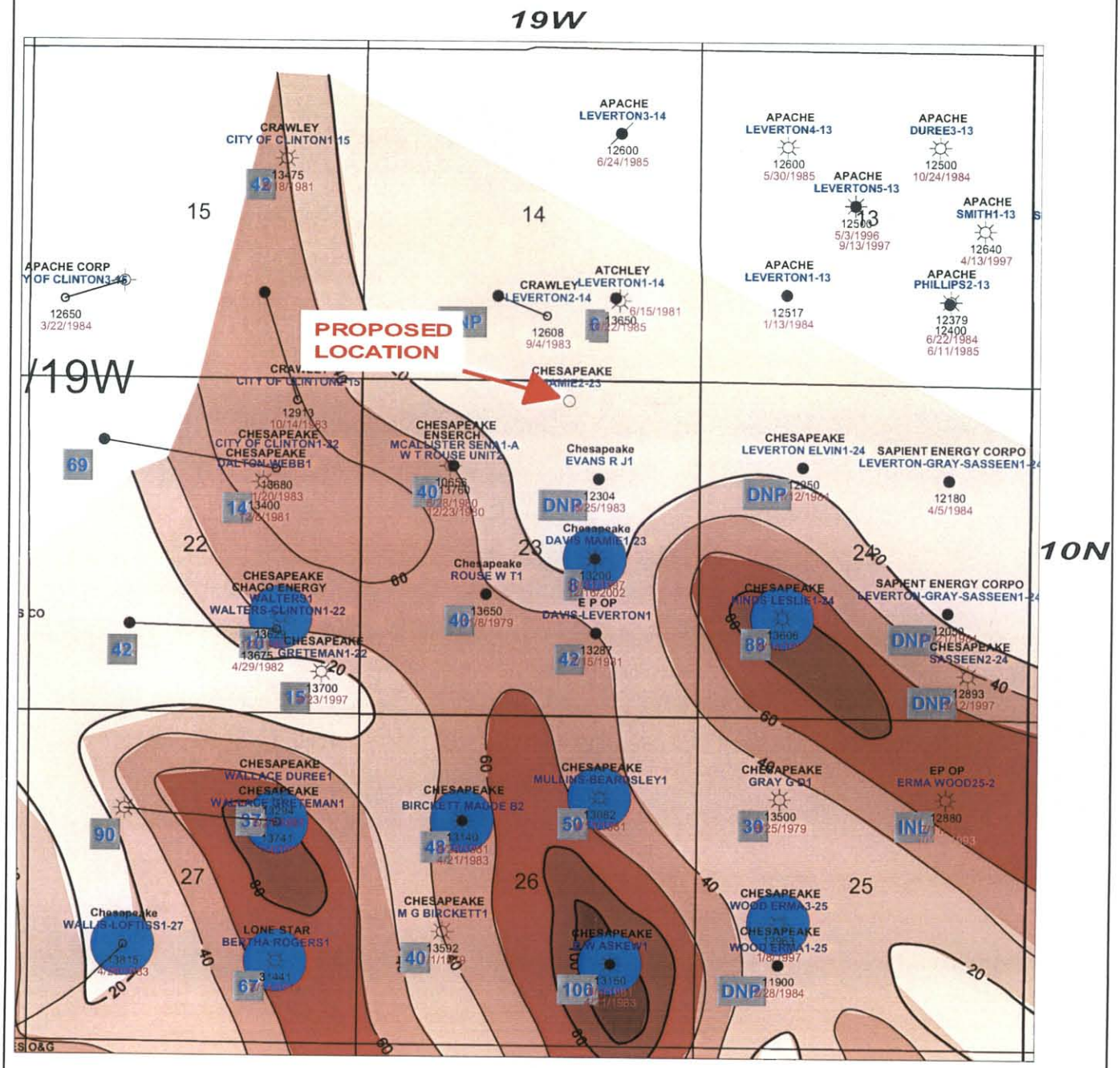

EXHIBIT 7G

D Zone Perf'd

WELL INFORMATION LEGEND

CURRENT OPERATOR
WELL NAME & NUMBER
Total Depth
Completion Date

Chesapeake Natural Gas

CHESAPEAKE OPERATING, INC.

ID 200505790
LE 200505791
Washita Co., OK
GW D Zone Net Pay
(8% Density Porosity)
Eastern Mountain Front\Burns\BurnsFlat_GW_Oil Zone.gmp

Date: 12 August, 2005 | **Geologist:** RMCCARTY

Volumetric Analysis
Granite Wash Common Source of Supply
Section 23-T10N-R19W
Wahsita County, Oklahoma

CD No. 200505790

Data

	"D" ZONE		OIL ZONE
Porosity (avg) =	0.08	Porosity (avg) =	0.12
Water Saturation (Sw) =	0.31	Water Saturation (Sw) =	0.36
Original BHP (psia) =	7,798	Original BHP (psia) =	7,060
Abandonment Pressure (psia) =	1,595	Boi (rbbl/stbbl) =	1.59
Bgi (cf/scf) =	0.00304	Rec Factor =	0.15
Bga (cf/scf) =	0.01107	Reservoir Temperature (degrees F) =	210
Reservoir Temperature (degrees F) =	225		

Bulk Reservoir Volume (BRV)

"D" ZONE	17,978 ac-ft
OIL ZONE	29,962 ac-ft

Original Recoverable Gas In Place = 0.04356 x BRV x Porosity x (1-Sw) x (1/Bgi - 1/Bga)
Original Recoverable Oil In Place = 7.758 x BRV x Porosity x (1-Sw) x (1/Boi) x Rec Fact

"D" ZONE	= 0.04356 x 17,978 ac-ft x 0.08 x (1 - 0.31) x (1/0.00304 - 1/0.01107) =	10,304 MMCF
OIL ZONE	= 7.758 x 29,962 ac-ft x 0.12 x (1 - 0.36) x (1/1.59) x 0.15 =	1,684 MBO

Production from Section 23	Ultimate Recovery
Davis-Leverton #1-23 (OIL ZONE)	215 MBO
Mamie Davis #1-23 (OIL ZONE)	18 MBO
R. J. Evans #1-23 (OIL ZONE)	187 MBO
Sena McAllister #1-23 (OIL ZONE)	173 MBO
Rouse #1-23 (OIL ZONE)	103 MBO
TOTAL (OIL ZONE)	696 MBO
Mamie Davis #1-23 ("D" ZONE)	335 MMCF

Volumes Not Recovered by Existing Well(s)

"D" ZONE	= (10,304 MMCF - 335 MMCF) =	9,969 MMCF
OIL ZONE	= (1,684 MMCF - 696 MMCF) =	988 MBO