

**VOLUMETRIC ANALYSIS  
SECTION 25-10N-19W  
WASHITA COUNTY, OK  
CD: 201801082-T**

1) Original Gas in Place Calculation

$$\text{Recoverable } OGIP = \frac{0.043560 \cdot A \cdot h_{net} \cdot \phi \cdot (1 - S_{wi})}{B_{gi}} \cdot RF$$

where:

$OGIP$  = Original Gas in Place (MMcf)  
 $A$  = Area being evaluated (acres)  
 $h_{net}$  = Average net pay thickness across area (ft)  
 $\phi$  = Average porosity  
 $S_{wi}$  = Initial water saturation  
 $B_{gi}$  = Initial gas formation volume factor (rcf/scf)  
 $RF$  = Recovery factor

Interval	A (acres)	h (ft)	$\phi$	$S_{wi}$	$B_{gi}$ (rcf/scf)	OGIP (MMcf)	RF	Recoverable Gas (MMcf)
Granite Wash	640	77	7.25%	46.00%	0.003076	27,321	75.00%	20,490

2) Estimated Ultimate Recovery in Section 25-10N-19W

Well Name	API	Cumulative Gas Production (MMcf)	Remaining Gas Reserves (MMcf)	Estimated Ultimate Recovery (MMcf)	Cumulative Production As of Date	Methodology for Estimating Reserves	Well Status
G D GRAY 1	35149200610000	826	0	758	Mar-18	N/A	Inactive
WOOD ERMA 2-25*	35149204170001	2,677	536	3,213	Mar-18	Arps Decline	Producing
WOOD ERMA A 1-25	35149203910000	0	0	0	Mar-18	N/A	P&A
WOOD ERMA 3-25	35149207650000	601	0	601	Mar-18	N/A	Inactive
FLORENCE 25-10-19 1HC	35149217320000	1,577	6,471	8,048	Mar-18	Arps Decline	Producing
Section Total:		5,681		12,620			
Percent Recovery:		20.79%		46.19%			

} Lease Production

\*WOOD ERMA 2-25 includes WOOD ERMA A 2-25

**Recoverable Gas Unavailable to Existing Wells MMcf = 7,870**

3) Assumptions

- Tight sand gas reservoir at or above dew point, no free oil
- Gas expansion drive
- $B_{gi}$  estimated using the real gas equation of state and the Standing & Katz Correlation:  
*"Computer Calculations of Natural Gas Compressibility Factors Using the Standing and Katz Correlation," Institute of Petroleum Technical Series, No. IP 74-008, 1974.*
- Cumulative and remaining gas volumes include estimated equivalent gas volume of produced condensate.
- OGIP conservatively based on GWG bench only of the Granite Wash common source of supply despite commingled production from multiple benches.







Sec. 25 & 36, T10N R19W

Increased Density

Florence 25X36-10-19 2HA & 3HB

Washita Co., OK



POSTED WELL DATA



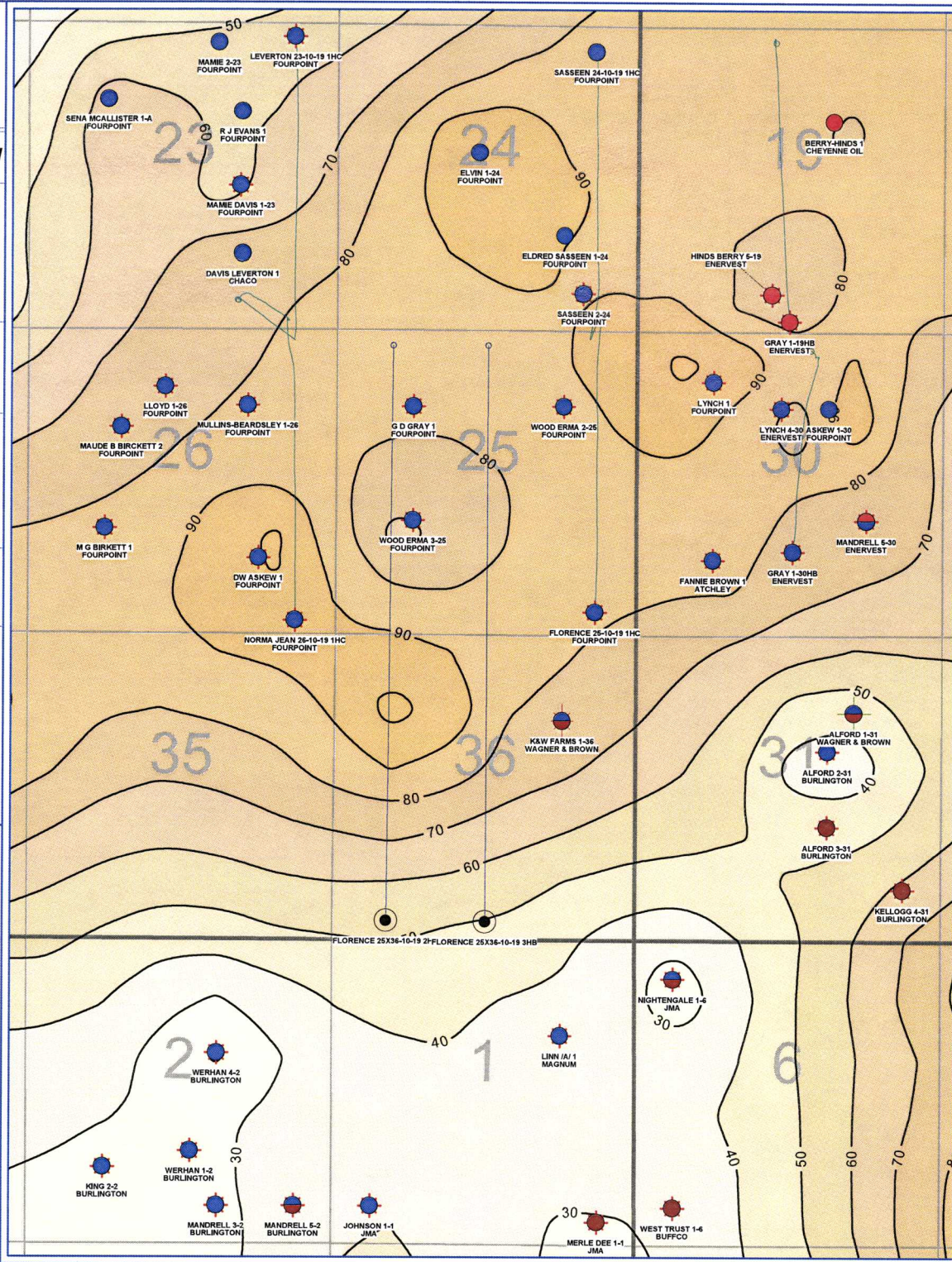
Well Label  
Operator

ATTRIBUTE MAP

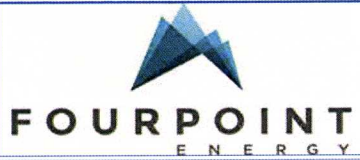


REMARKS

CD# 201801082-T  
GWG Net Sand  
C.I. = 10'







Sec. 25 & 36, T10N R19W

Increased Density

Florence 25X36-10-19 2HA & 3HB

Washita Co., OK

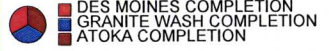


POSTED WELL DATA



Well Label Operator

ATTRIBUTE MAP



REMARKS

CD# 201801082-T  
Top of GWG Structure  
C.I. = 50'

