

Duplication of Exhibit 40

Virgin Reservoir Pressure in the Morrow Formation was Approximately 7000#

Initial Well	State WEK #1	1967 Sec 15 Good Reservoir, Good Rates 6.4 BCF 80% of Reserves in ~7 Years	> 7080 east of 7000 psi line only
No North South Communication Indication of North south and not East West	State W E L Com #1	Sec 10 2.9 BCF Production Characteristics Much Lower 7080# Initial BHP DST Pressure Data Shows No Communication with W E K #1	Initial BHP 7491 psi from DST ISIP.
East West Communication No East West correlation	Sec 15-16 POD State WEK #1 PQ Osudo State Com #1	Development of the East West Reservoir shows Evidence of Pressure PQ Osudo 1 came in lower pressure, dropped to WEK #1 profile.	Actually is indication of possible communication because of depletion from WEK 1 well to south, which is north south trend.
East West Communication North south communication	Osudo State 9 Com (1) Hunger Buster KF State 4 1	Came in with lower than virgin reservoir pressure.	No relationship to WEK #1. PQ 1 function of low perm. NO relationship to WEK #1. PQ 1 PBU data was not available to Chesapeake
No North South Communication No conclusion can be drawn	CC State #1 WEL Com #1 WEL Com #2	Apache dryhole negates North South Communication between CC 3 State #1 and WEL Com #1.	Possible north south communication between Osudo state 9 #1 and Hunger Buster. KF4 is considered virgin pressure and not in communication with any other well. Dry hole east of KF4 does not support east west.

Supports north south better than east
west. Possible communication
between WEL and WEK. CC and WEL
same initial pressure.

Reservoir Pressure Data Supports CHK's Geological Interpretation and the Published Literature

SAMSON COMMENTS

Samson Exhibit 52

NMOCD Case Nos. 13492/13493
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