Ultramar

Ultramar Oil and Gas Limited 16825 Northchase Drive, Suite 1200 Houston, Texas 77060 713-874-0700

Inter-Office Memorandum

Date:

June 27, 1990

To:

Jim Egger

Location:

Houston

From:

Brent Houser JBH

Subject:

P.Q. Osudo State Com No. 1

Reserves Estimate

The P.Q. Osudo #1 was recently drilled and completed in the Upper Morrow sand. The well had 24' of pay with a virgin pressure of 6400 psi, but build-up tests indicated that the sand had very low permeability. In May, 1990, a fracture stimulation was performed on the Morrow with approximately 40,200# of 20-40 Interprop. The well was then tested at a rate of 1046 MCFPD at 3222 psi and had a CAOF of 3375 MCFPD. The well has not been placed on production because it is awaiting a gas line hook-up.

The reserves for the Upper Morrow were determined volumetrically assuming a net pay of 24', a drainage area of 80 acres, and a recovery of 40% of the OGIP. The gross reserves are estimated to be 1115 MMCF and 22,300 BBLS of condensate. UOGL has a working interest of 50% (37.5% NRI) giving us net reserves of 418 MMCF and 8363 BBLS.

JBH/ba (0220K4) cc: Mitchell Veh Well File

> Samson Exhibit 49 NMOCD Case Nos. 13492/13493 Submitted 8/10/06



Company :- ULTRAMAR

Well # :- 1 Location :-

Lease :- P.Q. OSUDO Field :-

Reservoir :- MORROW Test date :- 2-2-90
County :- LEA COUNTY State :- NEW MEXICO

PRESSURE BUILD-UP TEST - HORNER ANALYSIS

RESERVOIR DATA Extrapolated pressure - P* Av. reservoir pressure - Pa One cycle pressure One hour pressure	6379.787 6379.787 5513.542 4925.994	psia. psia. psia. psia.	(Horner) (Muskat) (Horner) (Horner)
Av. TOTAL permeability Kt	.0222262	md.	
Skin factor Skin pressure drop	2.077992 1566.044	psia	
P/z - surface gas F/z - reservoir gas	5814.232 5814.232	psia psia	
Flow efficiency	68.96654	percent	
Radius of investigation Effective well bore rad.	122.8685 6.780652E-02	Feet Feet	

INPUT PARAMETERS

Well bore radius	6.5	inches
Formation porosity	12	percent
Net pay thickness	34	Feet
Water saturation	30	percent
Av. B.H. Temperature	158	Deg. F

File :- a:osudo

NOTE: Type curve ANALYSIS not viable due to lack of Acceptable curve match