HALLIBURTON

Zone of Interest Report

Report # 2

Well Name: OCS-Y-2321 BURGER J #001
Location: Posey 6912
Operator: Shell Gulf of Mexico Inc.
Report Prepared By: Jessica Moen
Report Delivered To: Shell Gulf of Mexico Inc.

Depth (MD) 5860 **to** 6050 **ft**
(TVD) 5857 **to** 6047 **ft**
Formation: Top Kuparuk C
Date: 9/20/2015

Zone Production Analysis (From Steam-Still PPM Ratios)

The production of this zone is deemed to be **Gas**. At approximately **5860** feet, there is a **N/A** / **N/A** contact (and a **NA** / **NA** contact at approximately **NA** feet) for a total of **190** feet of **Gas** show (and **NA** feet of **NA** show).

1

Depth **5924** ft Gas Units **47** Mud Chlorides (1000's) = **133000**

	Flowline ppm		Background ppm		Show ppm
C1	2877	-	774	=	2103
C2	186	-	40	=	146
C3	98	-	19	=	79
C4	41	-	0	=	41
C5	3	-	0	=	3

Hydrocarbon Ratios

C1/C2 =	14
C1/C3 =	27
C1/C4 =	51
C1/C5 =	701

Production Analysis [x] Gas [ ] Oil [ ] Water [ ] Non-Producible Hydrocarbons

2

Depth **6053** ft Gas Units **12** Mud Chlorides (1000's) = **133000**

	Flowline ppm		Background ppm		Show ppm
C1	656	-	588	=	68
C2	34	-	30	=	4
C3	15	-	14	=	1
C4	0	-	0	=	0
C5	0	-	0	=	0

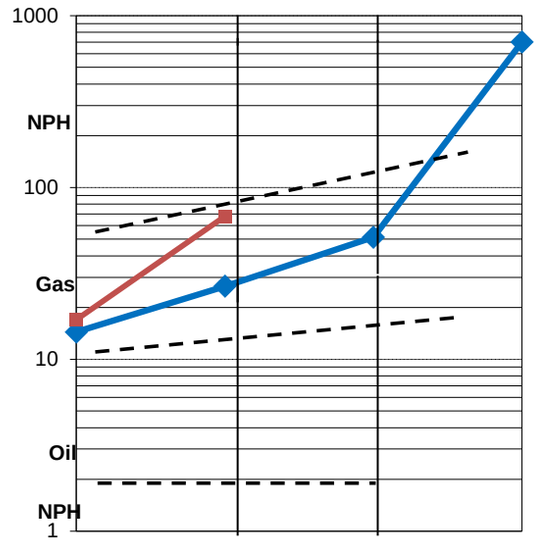
Hydrocarbon Ratios

C1/C2 =	17
C1/C3 =	68
C1/C4 =	#DIV/0!
C1/C5 =	#DIV/0!

Production Analysis [x] Gas [ ] Oil [ ] Water [ ] Non-Producible Hydrocarbons

Hydrocarbon Ratios

C1/C2 C1/C3 C1/C4 C1/C5



Formation Data

At *Max Gas,* the visual sample percentages were: **90** % **SST**, **10** % **CLYST**, ____ % ____, ____ % ____. The reservoir rock was a **transl to transp** -colored **sandstone**. The grain size was **very fine to fine** and the grain shape was **sub angular to round**. Approximate visual porosity was **N/A** % and the visual permeability was **N/A**. Grain sorting was **well** and the rock cement was **unconsolidated**. The porosity type was **N/A** and the secondary components in the rock fragments were: **glauc and carb materials**. The rock hardness was **N/A** and the sample contamination was **N/A**.

Liquid Hydrocarbon Data

The liquid hydrocarbon was first detected at **N/A** feet and continued through **N/A** feet. The liquid phase of the mud was **N/A**. The liquid hydrocarbon occurred in the form of N/A and was present in the **N/A**. When the **N/A** were studied in the UV box, the liquid hydrocarbon covered **N/A** % of the surface of the sample. The oil was **N/A** in color, exhibited a **N/A** fluorescence and had an approximate API gravity of **N/A**; odor was **NA** and staining was present. The cuttings exhibited a **N/A** cut that was **N/A** in color with a **N/A** fluorescence.

Logger's Opinion of the Show Interval

Gas climbed to a peak of 47 units at 5924' MD over 9 units of background gas at 5860' - 5885' MD Samples changed to sandstone. Lack of heavier hydrocarbons and flourensence indicating dry gas present with no associated liquid hydrocarbons.