

ASSESSMENT OF
POTENTIAL REMAINING
HYDROCARBON BEARING FORMATIONS

*Mississippi Canyon Block 20
Gulf of Mexico*

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Introduction

The Mississippi Canyon 20 (“MC20”) ‘A’ Platform operated by Taylor Energy in the Gulf of Mexico was toppled during Hurricane Ivan in September 2004. Twenty-eight wells had been drilled from the platform, of which eighteen were on production, seven were shut-in, and three were temporarily abandoned at the time of the Hurricane.

We have conducted a review of each wellbore to assess potential remaining hydrocarbon source zones encountered by the wellbore. Generally our review has been from the deepest open completion interval up to the surface casing shoe. The identified zones can be summarized as:

- Penetrations of reservoirs producing from offset wells,
- future recompletion target zones previously identified by Taylor Energy, and
- other potential hydrocarbon bearing zones.

Production from the MC20 field has occurred from the F Sand at a depth of approximately 5,700 feet subsea through the P Sand found at approximately 10,300 feet subsea. Potential hydrocarbon zones were identified both within this range and also above the F Sand, between the F Sand and the surface casing. Surface casing was generally set between 3,000 and 4,000 feet measured depth. Many of the shallow zones identified, although potentially hydrocarbon bearing, were thin (less than 10 feet thick) and may not have been viable economic completion targets.

This study is focused on identification of zones where hydrocarbons may be present; flow potential, flow rates and hydrocarbon volumes are not addressed in this report.

A-1 Well

The MC 20 A-1 well was flowing oil from the L R20-1 reservoir at the time of Hurricane Ivan in September 2004. The L sand completion was subsequently plugged by Taylor Energy. We have conducted a review of potential hydrocarbon bearing zones encountered in the wellbore from the L sand completion at 8,970’ MD up to the 10 ¾”

casing shoe at 4,095' MD. Six potential hydrocarbon source zones were encountered as summarized in **Table 1**. Cement bond quality across the zones of interest is presented based on information provided by Taylor Energy Company.

Table 1: Well A-1 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
8,952	L R20-1	Proved	Oil	8500-9100' Poss. MicroAnnulus	Open perms flowing Sept-2004; P&A'd
8,718	K RA	Proved	Gas		Producing from A-11 Sept-2004
8,286	J R20-1	Proved	Oil	4000-8500' Poor to Sporadic Bond	Open (S/l) in A-3, A-8 Sept-2004
6,820	H RA-2	Proved	Gas		Open (S/l) in A-13 Sept-2004
6,480	-	Possible	Oil/Gas		6 Feet
6,068	F R20-1	Proved	Gas		Producing from A-17ST Sept-2004

A-2 Well

The MC 20 A-2 well was producing oil on gas lift from the L-3 RA-2 reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the L-3 sand completion at 9,550' MD up to the 10 ¾" casing shoe at 4,092' MD. Ten potential hydrocarbon source zones were encountered as summarized in **Table 2**.

Table 2: Well A-2 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
9,548	L-3 RA-2	Proved	Oil	7590-10032' Partial Bond	Open perms on gas lift Sept-2004
9,465	L-1 RA	Proved	Oil		Not on Production 2004
9,265	L R20-1	Proved	Oil		Producing from A-1 Sept-2004
9,042	K RA	Proved	Gas		Producing from A-11 Sept-2004
8,549	J R20-1	Proved	Oil		Open (S/l) in A-3, A-8 Sept-2004
7,598	-	Probable	Oil		10 Feet
7,006	H RA-2	Proved	Gas	4000-7360' Poor Bond	Open (S/l) in A-13 Sept-2004
6,640	-	Possible	Gas		6 Feet
6,224	F R20-1	Proved	Gas		Producing from A-17ST Sept-2004
5,742	-	Probable	Gas		5 Feet

A-3 Well

The MC 20 A-3 well was shut in with open perforations in the J R20-1 reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the J sand completion at 8,348' MD up to the 10 ¾" casing shoe at 3,950' MD. Two potential hydrocarbon source zones were encountered as summarized in **Table 3**.

Table 3: Well A-3 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
8,320	J R20-1	Proved	Oil	7500-11120' Sporadic Bonding	Open perms (S/l) Sept-2004
7,280	-	Probable	Oil	4000-7500' Poor Bond	20+ Feet

A-4 Well

The MC 20 A-4 well was producing oil on gas lift from the M R20-1 reservoir at the time of Hurricane Ivan in September 2004. The M sand completion was subsequently plugged by Taylor Energy. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the M sand completion at 9,798' MD up to the 13 3/8" casing shoe at 3,500' MD. Six potential hydrocarbon source zones were encountered as summarized in **Table 4**.

Table 4: Well A-4 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
9,802	M R20-1	Proved	Oil	7270-11080' Good to Very Good Bonding	Open perms on gas lift Sept-2004; P&A'd
8,258	L-1 RA	Proved	Oil		Not on Production 2004
9,070	L R20-1	Proved	Oil		Producing from A-1 Sept-2004
8,693	K RA	Proved	Gas		Producing from A-11 Sept-2004
8,174	J R20-1	Proved	Oil		Open (S/l) in A-3, A-8 Sept-2004
4,288	-	Possible	Oil/Gas	3500-7270' Poor Bond	5 Feet

A-5ST Well

The MC 20 A-5ST well was temporarily abandoned at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from TD up to the 10 3/4" casing shoe at 3,687' MD. One potential hydrocarbon source zone was encountered as summarized in **Table 5**.

Table 5: Well A-5ST potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
7,642	H Sand	Possible	Oil/Gas	Unknown	4 Feet; no Φ log over this interval

A-6 Well

The MC 20 A-6 well was producing oil on gas lift from the N R20-1 reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the N sand completion at 10,770' MD up to the 10 ¾" casing shoe at 3,525' MD. Ten potential hydrocarbon source zones were encountered as summarized in **Table 6**.

Table 6: Well A-6 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
10,758	N R20-1	Proved	Oil	3500-12400' Moderate to Good Bonding	Open perms on gas lift Sept-2004
10,671	M-1 RA	Proved	Gas/Cond		Producing from A-23 Sept-2004
9,802	M R20-1	Proved	Oil		Producing from A-4, A-16D Sept-2004
9,818	L-3 RA-2	Proved	Oil		Producing from A-2, A-10 Sept-2004
9,700	L-1 RA	Proved	Cond/Oil		Not on Production 2004
9,510	L R20-1	Proved	Oil		Producing from A-1 Sept-2004
9,171	K RA	Proved	Gas /Cond		Producing from A-11 Sept-2004
8,638	J R20-1	Proved	Cond/Oil		Open (S/l) in A-3, A-8 Sept-2004
7,546	-	Probable	Oil		20+ Feet
6,836	H RA-2	Proved	Gas		Open (S/l) in A-13 Sept-2004

A-7ST Well

At the time of Hurricane Ivan in September 2004, the MC 20 A-7ST well was shut in with open perforations after watering out in the L-1 RC reservoir. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the L-1 sand completion at 9,008' MD up to the 10 ¾" casing shoe at 3,600' MD. Two potential hydrocarbon source zones were encountered as summarized in **Table 8**.

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
9,004	L-1 RC	Proved	Water	8000 - 10520' Poor Bond	Open perms (S/l) - Last Test - 100% wtr
8,306	J R20-1	Proved	Oil		Open (S/l) in A-3, A-8 Sept-2004

A-8 Well

The MC 20 A-8 well was shut in with open perforations in the J R20-1 reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the J sand completion at 8,220' MD up to the 10 ¾" casing shoe at 3,515' MD. Two potential hydrocarbon source zones were encountered as summarized in **Table 8**.

Table 8: Well A-8 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
8,219	J R20-1	Proved	Oil	7930-10750' Good Bond	Open perms (S/l) Sept-2004
4,290	-	Possible	Oil/Gas	4200-6035' Good Bond	4 Feet

A-9ST Well

The MC 20 A-9ST well was producing oil on gas lift from the J RA reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the J sand completion at 7,930' MD up to the 10 ¾" casing shoe at 3,620' MD. Eight potential hydrocarbon source zones were encountered as summarized in **Table 9**.

Table 9: Well A-9ST potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
7,933	J RA	Proved	Oil	5080-7940' Partial Bond	Open perms on gas lift Sept-2004
7,360	I RB	Proved	Oil		Producing from A-24 Sept-2004
7,280	-	Probable	Oil		20+ Feet
7,156	-	Probable	Oil		8 Feet
6,667	F R20-1	Proved	Gas/Cond		Producing from A-17ST Sept-2004
6,156	-	Possible	Oi/Cond	3620-4800' Partial to Good Bond	5 Feet
4,294	-	Probable	Gas/Cond		7 Feet
3,808	-	Probable	Gas/Cond		5 Feet

A-10 Well

The MC 20 A-10 well was producing oil on gas lift from the L-3 RA-2 reservoir at the time of Hurricane Ivan in September 2004. The L-3 sand completion was subsequently plugged by Taylor Energy. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the L-3 sand completion at 9,900' MD up to the 10 ¾" casing shoe at 3,782' MD. Five potential hydrocarbon source zones were encountered as summarized in **Table 10**.

Table 10: Well A-10 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
9,900	L-3 RA-2	Proved	Oil	Prod. Casing cemented to surface. Bond quality unknown	Open perms on gas lift Sept-2004; P&A'd
9,632	L R20-1	Proved	Oil		Producing from A-1 Sept-2004
8,943	J R20-1	Probable	Oil		Open (S/I) in A-3, A-8 Sept-2004
7,592	-	Possible	Oil/Gas		6 Feet
6,990	-	Possible	Oil/Gas		8 Feet

A-11 Well

The MC 20 A-11 well was flowing gas from the K RA reservoir at the time of Hurricane Ivan in September 2004. The K sand completion was subsequently plugged by Taylor Energy. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the K sand completion at 8,510' MD up to the 10 ¾" casing shoe at 3,610' MD. Five potential hydrocarbon source zones were encountered as summarized in **Table 11**.

Table 11: Well A-11 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
8,510	K RA	Proved	Gas	8000-8800' Poor Bonding	Open perms flowing Sept-2004; P&A'd
8,070	J R20-1	Proved	Oil		Open (S/I) in A-3, A-8 Sept-2004
7,390	-	Probable	Oil/Gas	Bond Quality Unknown	10 Feet
6,638	H RA-2	Probable	Gas		Open (S/I) in A-13 Sept-2004
4,294	-	Possible	Oil/Gas		4 Feet

A-12 Well

The MC 20 A-12 well was shut in with open perforations in the N R20-1 (long string) and the L R20-1 (short string) reservoirs at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the N sand completion at 10,642' MD up to the 10 ¾" casing shoe at 3,715' MD. Twelve potential hydrocarbon source zones were encountered as summarized in **Table 12**.

Table 12: Well A-12 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
10,640	N R20-1	Proved	Oil	Prod. Casing cemented to surface. Bond quality unknown	Open perfs (S/I) Sept-2004
10,580	M-1 RA	Proved	Gas/Cond		Producing from A-23 Sept-2004
10,280	M R20-1	Proved	Oil		Producing from A-4, A-16D Sept-2004
9,870	L-3 RA-2	Proved	Oil		Producing from A-2, A-10 Sept-2004
9,722	L-1 RA	Proved	Cond/Oil		Not on Production 2004
9,548	L R20-1	Proved	Oil		Open Perfs (S/I); Prod. from A-1 Sept-2004
9,260	K RA	Proved	Gas /Cond		Producing from A-11 Sept-2004
8,724	J R20-1	Proved	Oil/Gas		Open (S/I) in A-3, A-8 Sept-2004
7,932	-	Possible	Oil/Gas		8 Feet
7,020	H RA-2	Proved	Oil/Gas		Open (S/I) in A-13 Sept-2004
6,608	-	Probable	Gas		5 Feet
4,308	-	Probable	Gas		6 Feet

A-13 Well

The MC 20 A-13 well was shut in with sanded up open perforations in the H RA-2 reservoir at the time of Hurricane Ivan in September 2004. The H sand completion was subsequently plugged by Taylor Energy. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the H sand completion at 6,744' MD up to the 10 ¾" casing shoe at 3,592' MD. Four potential hydrocarbon source zones were encountered as summarized in **Table 13**.

Table 13: Well A-13 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
6,743	H RA-2	Proved	Oil/Gas	Prod. Casing cemented to surface. Bond quality unknown	Open (S/I) perforations Sept-2004; P&A'd
5,997	F R20-1	Proved	Oil/Gas		Producing from A-17ST Sept-2004
5,522	-	Probable	Oil		6 Feet
4,294	-	Probable	Gas		5 Feet

A-14ST Well

The MC 20 A-14ST well was producing oil on gas lift from the L RA reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered in the wellbore from the L sand completion at 8,546' MD up to the 10 ¾" casing shoe at 3,580' MD. Two potential hydrocarbon source zones were encountered as summarized in **Table 14**.

Table 14: Well A-14ST potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
8,545	L RA	Proved	Oil	Prod. Casing cemented to surface. Bond quality unknown	Open perms on gas lift Sept-2004
5,183	-	Possible	Oil/Gas		6 Feet

A-15 Well

The MC 20 A-15 well was temporarily abandoned at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered in the wellbore up to the 10 ¾" casing shoe at 3,725' MD. One potential hydrocarbon source zone was encountered as summarized in **Table 15**.

Table 15: Well A-15 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
4,420	-	Probable	Oil/Gas	Prod. Casing cemented to surface. Bond quality unknown	6 Feet

A-16 Well

The MC 20 A-16 well was producing oil on gas lift from the M R20-1 reservoir at the time of Hurricane Ivan in September 2004. The M sand completion was subsequently plugged by Taylor Energy. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the M sand completion at 9,810' MD up to the 10 ¾" casing shoe at 3,715' MD. Nine potential hydrocarbon source zones were encountered as summarized in **Table 16**.

Table 16: Well A-16 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
9,807	M R20-1	Proved	Oil	Planned TOC 3500'. Bond quality unknown	Open perms on gas lift Sept-2004. (P&A'd)
9,722	L-1 RA	Probable	Oil		Not on Production 2004
9,548	L R20-1	Proved	Oil		Producing from A-1 Sept-2004
9,260	K RA	Proved	Gas		Producing from A-11 Sept-2004
8,724	J R20-1	Proved	Oil		Open (S/I) in A-3, A-8 Sept-2004
7,610	H-3 Sand	Probable	Oil/Gas		20+ Feet
7,389	H-2 Sand	Possible	Oil/Gas		10 Feet
7,022	H RA-2	Probable	Gas		Open (S/I) in A-13 Sept-2004
7,610	G Sand	Possible	Oil/Gas		10 Feet

A-17ST Well

The MC 20 A-17ST well was flowing gas from the F R20-1 reservoir at the time of Hurricane Ivan in September 2004. The F sand completion was subsequently plugged by Taylor Energy. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the F sand completion at 7,259' MD up to the 10 ¾" casing shoe at 3,283' MD. Four potential hydrocarbon source zones were encountered as summarized in **Table 17**.

Table 17: Well A-17ST potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
7,256	F R20-1	Proved	Gas	Bond quality unknown	Open perms flowing Sept-2004; P&A'd
6,805	-	Probable	Oil/Cond		10 Feet
6,652	-	Probable	Oil		20+ Feet
4,126	-	Possible	Gas		4 Feet

A-18 Well

At the time of Hurricane Ivan in September 2004, the MC 20 A-7ST well was shut in with open perforations after watering out in the L-3 RA-2 reservoir. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the L-3 sand completion at 9,900' MD up to the 10 ¾" casing shoe at 3,782' MD. Seven potential hydrocarbon source zones were encountered as summarized in **Table 18**.

Table 18: Well A-18 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
9,932	L-1 RA	Probable	Oil	Prod. Casing cemented to surface. Bond quality unknown	Not on Production 2004
9,784	L R20-1	Proved	Oil		Producing from A-1 Sept-2004
9,109	J R20-1	Proved	Oil		Open (S/I) in A-3, A-8 Sept-2004
7,390	H RA-2	Proved	Gas		Open (S/I) in A-13 Sept-2004
6,990	-	Probable	Gas		6 Ft.
6,543	F R20-1	Proved	Gas		Producing from A-17ST Sept-2004
5,239	-	Probable	Oil/Gas		7 Ft.

A-19ST Well

At the time of Hurricane Ivan in September 2004, the MC 20 A-19ST was producing oil on gas lift from the I RE reservoir. We have conducted a review of potential

hydrocarbon bearing zones encountered by the wellbore from the I sand completion at 10,481' MD up to the top of the logged interval at 9,800' MD. One potential hydrocarbon source zone was encountered as summarized in **Table 19**. The interval from 9,800' MD up to the surface casing at 4,305' MD was not evaluated, as a log over this interval was not available.

Table 19: Well A-19ST potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
10,492	I RE	Proved	Oil	10360-10540' Very Good Bonding	Open perfs on gas lift Sept-2004; P&A'd

A-20 Well

The MC 20 A-20 well was producing oil on gas lift from the K RG reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the K sand completion at 14,156' MD up to the 10 3/4" casing shoe at 5,065' MD. Three potential hydrocarbon source zones were encountered as summarized in **Table 20**.

Table 20: Well A-20 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
14,153	K RG	Proved	Oil	Partial Bond 11469-14210'. Free Pipe above 9000'	Open perfs on gas lift Sept-2004
14,052	-	Possible	Oil/Gas		8 Feet
13,606	J Sand	Proved	Oil		Reservoir not on production Sept-2004

A-21 Well

The MC 20 A-21 well was producing oil on gas lift from the I RD reservoir at the time of Hurricane Ivan in September 2004. The I Sand completion was subsequently P&A'd by

Taylor Energy. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the I sand completion at 8,582' MD up to the 10 ¾" casing shoe at 3,825' MD. Two potential hydrocarbon source zones were encountered as summarized in **Table 21**.

Table 21: Well A-21 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
8,579	I RD	Proved	Oil	7922-8710' Excellent Bonding	Open perms on gas lift Sept-2004; P&A'd
7,942	H Sand	Proved	Gas		reservoir not on production Sept-2004

A-22 Well

The MC 20 A-22 well was producing oil on gas lift from the I RF reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the I sand completion at 9,622' MD up to the 10 ¾" casing shoe at 3,872' MD. One potential hydrocarbon source zone was encountered as summarized in **Table 22**.

Table 22: Well A-22 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
9,622	I RF	Proved	Oil	9566-9665' Good Bonding	Open perms on gas lift Sept-2004

A-23 Well

The MC 20 A-23 well was flowing gas from the M-1 RA reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered in the wellbore from the M-1 sand completion at 10,203' MD up to the top of the logged interval at 6,214' MD. Six potential

hydrocarbon source zones were encountered as summarized in **Table 23**. The interval from 6,214' MD up to the surface casing at 3,530' MD was not evaluated, as a log over this interval was not available.

Table 23: Well A-23 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
10202	M-1 RA	Proved	Gas	9810-10640' Good Bond	Open perms flowing Sept-2004
9,818	M R20-1	Proved	Oil		Producing from A-4, A-16D Sept-2004
9,267	L-1 Sand	Proved	Oil	9450-9810' Partial Bond	reservoir not on production Sept-2004
8,992	L R20-1	Proved	Oil	8750-9000' Partial Bond	Producing from A-1 Sept-2004
8,556	K RA	Proved	Gas	7230-8750' Good Bond	Producing from A-11 Sept-2004
8,016	J R20-1	Proved	Oil		Open (S/I) in A-3, A-8 Sept-2004

A-24 Well

The MC 20 A-24 well was producing oil on gas lift from the I RB reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the I sand completion at 8,150' MD up to the 10 ¾" casing shoe at 4,183' MD. Three potential hydrocarbon source zones were encountered as summarized in **Table 24**.

Table 24: Well A-24 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
8,144	I RB	Proved	Oil	7732-8240' Partial Bonding	Open perms on gas lift Sept-2004
7,762	H-2 Sand	Proved	Oil/Gas		reservoir not on production Sept-2004
4,451	-	Probable	Gas	3800-7732' Poor Bond	8 Feet

A-25 Well

The MC 20 A-25 well was producing oil on gas lift from the L RG reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the L sand at 11,580' MD up to the 10 ¾" casing shoe at 4,483' MD. Three potential hydrocarbon source zones were encountered as summarized in **Table 25**.

Table 25: Well A-25 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
11,580	L RG	Proved	Oil	11590-11678' Partial Bonding	Open perms on gas lift Sept-2004
11,346	K RG	Proved	Oil		Producing from A-20 Sept-2004
10,851	J Sand	Proved	Oil	10780-11190' Good Bonding	reservoir not on production Sept-2004

A-26 Well

The MC 20 A-26 well was producing oil on gas lift from the L RG reservoir at the time of Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the L sand at 11,069' MD up to the 10 ¾" casing shoe at 4,340' MD. Two potential hydrocarbon source zones were encountered as summarized in **Table 26**.

Table 26: Well A-26 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
11,001	L RG	Proved	Oil	8930-11006' Poor Bonding	Open perms on gas lift Sept-2004
9,093	H Sand	Possible	Oil/Gas		12 Feet

A-27ST Well

The MC 20 A-27ST well was temporarily abandoned as a dry hole with cement plugs in the 10 ¾" casing prior to Hurricane Ivan in September 2004. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from TD up to the 10 ¾" casing shoe at 4,392' MD. Two potential hydrocarbon source zones were encountered as summarized in **Table 27**.

Table 27: Well A-27ST potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
11,978	-	Possible	Oil/Gas	Cement Bond quality unknown	6 feet
10,080	-	Possible	Oil/Gas		12 feet

A-28 Well

At the time of Hurricane Ivan in September 2004, the MC 20 A-28 well was shut in with open perforations after watering out in the L-3 RH reservoir. We have conducted a review of potential hydrocarbon bearing zones encountered by the wellbore from the L-3 completion at 13,924' MD up to the 10 ¾" casing shoe at 5,993' MD. One potential hydrocarbon source zone was encountered as summarized in **Table 28**.

Table 28: Well A-28 potential hydrocarbon source zones

Measured Depth (Ft.)	Reservoir	Hydrocarbon Potential	Expected Fluid	Cement Bond	Notes
13,059	F Sand	Proved	Gas	Bond Quality Unknown	reservoir not on production Sept-2004