

**Sperry
Drilling Services
ZOI / Show
Report**

Well Name: OCS-G-32306 001 ST00BP01
Location: Mississippi Canyon 252 No1 ST00BP01
Operator: BP Exploration and Production
Report Prepared By: Joseph Keith
Report Delivered To: G. Bennett, J. Bellow

Depth (MD) 18,080 to 18,206 ft
(TVD) 18,069 to 18,195 ft
Zone Of Interest Report No. _____
Show Report No. 1
Date/Time: 4/4/2010 11:00

Hole Diameter: 9 7/8 inches Max ROP @ 18,177 ft Max Gas @ 18,180 ft Max CI @ N/A ft
Bit Type: ☐ Mill Tooth ☐ Diamond ☐ Insert Mud Type: MI-Rheliant
☒ PDC ☐ Other 8.5" bit with a 9.875" reamer

	MW In	MW Out	Avg. WOB	Avg. RPM	Avg. GPM	Avg. ROP ft/hr	Max ROP	Avg. Gas Units %	Max Gas	Avg. CI-	Max CI-	Avg. PPM (in 1000's)					PPM at Max Gas				
						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
Before	14.3	14.3	8.0	142	400	xx		45		NA		13.20	0.086	0.00	0.000	0.000					
During	14.3	14.2	5.0	142	400	xx	65	35	206	NA	NA	72.50	0.876	0.219	0.029	0.000	73.9	0.836	0.215	0.030	0.000
After	14.3	14.3	10.0	130	400	xx		55		NA		18.70	0.358	0.088	0.016	0.000					

Formation Data

At Max Gas, the visual sample percentages were: 70 % SST, 20 % SH, 10 % SLTST, _____ % _____
The reservoir rock was a WH, LT GY, GRY -colored SST / SLTST. The grain size was V F GR and
the grain shape was SUB ANG, SUB RND. Visual porosity was 25-30% and the visual permeability was
GOOD. Grain sorting was WELL SORTED and the rock cement was SILICA. The porosity type
was INTERGRANULAR and the secondary components in the rock fragments were: SILT.
The rock hardness was V SOFT / FRIABLE and the sample contamination was LCM.

Preliminary Gas-In-Air Show Data

Depth	Gas X units %	(PPM's in 1000's)					Oil Fluor? Y/N	Cut Fluor? Y/N	Depth	Gas X units %	(PPM's in 1000's)					Oil Fluor? Y/N	Cut Fluor? Y/N
		C1	C2	C3	C4	C5					C1	C2	C3	C4	C5		
18080	39	14.10	0.095	0.000	0.000	0.000	Y	Y	18150	74	26.3	0.449	0.106	0.016	0.000	Y	Y
18090	45	15.50	0.263	0.065	0.000	0.000	Y	Y	18160	91	36.3	0.559	0.135	0.018	0.000	Y	Y
18100	47	16.50	0.326	0.082	0.000	0.000	Y	Y	18170	#	60.4	0.521	0.132	0.018	0.000	Y	Y
18110	36	11.90	0.012	0.000	0.000	0.000	Y	Y	18180	#	72.3	0.836	0.213	0.045	0.000	Y	Y
18120	48	12.90	0.134	0.025	0.000	0.000	Y	Y	18190	#	64.7	0.876	0.214	0.046	0.000	Y	Y
18130	41	15.21	0.156	0.029	0.000	0.000	Y	Y	18200	65	27.9	0.429	0.105	0.015	0.000	Y	Y
18140	55	20.3	0.281	0.062	0.000	0.000	Y	Y	18206	41	26.5	0.412	0.095	0.000	0.000	Y	Y

Liquid Hydrocarbon Data

The liquid hydrocarbon was first detected at xxxxx feet and continued through xxxxx feet. The liquid phase of the mud was synthetic
The liquid hydrocarbon occurred in the form of OIL and was present in the WASHED CUTTINGS. When the
WASHED CUTTINGS were mixed with water and studied in the UV box, the liquid hydrocarbon covered xx % of the
surface of the water. The oil was LT BRN in color, exhibited a DUL WH, BRT YEL fluorescence and had an approximate
API gravity of 39; odor was N/A and staining was present. The cuttings exhibited a INSTANT, FAST, SLOW cut that was
LT BRN in color with a MKY BL, MKY WH fluorescence.

Logger's Opinion of the Show Interval

From 18080' to 18110' the samples show a very faint light tan stain.
From 18150' to 18206' the resistivity increased and the gas increased with the oil having a light tan to very light brown stain.
Resistivity from 18080'-18110' ranged from 1.59-7.63 ohms and gamma 82-15 api.
Resistivity from 18140'-18206' ranged from 1.24-34.96 ohms and gamma 35-28 api.
100% Gas-In-Air = 3000 units

6407

Exhibit No. _____
Worldwide Court
Reporters, Inc.

BP-HZN-2179MDL03775984-0001

Sperry Drilling Services Show Report

Well Name: OCS-G-32306 001 ST00BP01
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 Operator: BP Exploration and Production
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 Report Delivered To: G. Bennett, J. Bellow

Depth (MD) 18,080 to 18,206 ft
 (TVD) 18,069 to 18,195 ft
 Zone Of Interest Report No. 0
 Show Report No. 1
 Date/Time: 4/4/2010 11:00

Hole Diameter: 9 7/8 inches Max ROP @ 18,177 ft Max Gas @ 18,180 ft Max CI @ N/A ft
 Bit Type: ☐ Mill Tooth ☐ Diamond ☐ Insert Mud Type: RHELIANT SBM
☒ PDC ☐ Other: 8.5" bit with a 9.875" reamer

	MW In	MW Out	Avg. WOB	Avg. RPM	Avg. GPM	Avg. ROP ft/hr min/ft	Max ROP	Avg. Gas Units %	Max Gas	Avg. CI- Max	Max CI-	Avg. PPM (in 1000's)					PPM at Max Gas				
												C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
Before	14.3	14.3	8.0	142	400	45		45		NA	NA	13.2	0.086	0.000	0.000	0.000					
During	14.3	14.2	5.0	142	400	35	65	35	206	NA	NA	72.5	0.876	0.219	0.029	0.000	73.9	0.836	0.215	0.030	0.000
After	14.3	14.3	10.0	130	400	25		55		NA	NA	18.7	0.358	0.088	0.016	0.000					

Formation Data

At Max Gas, the visual sample percentages were: 70 % SST, 20 % SH, 10 % SLTST, 0 % 0.
 The reservoir rock was a WH, LT GY, GRY -colored SST / SLTST. The grain size was V F GR and
 the grain shape was SUB ANG, SUB RND. Approximate visual porosity was 25-30% and the visual permeability was
GOOD. Grain sorting was WELL SORTED and the rock cement was SILICA. The porosity type
 was INTERGRANULAR and the secondary components in the rock fragments were: SILT.
 The rock hardness was V SOFT / FRIABLE and the sample contamination was LCM.

Zone Production Analysis

The production of this zone is deemed to be GOOD. At approximately 18080 feet, there is a
GAS / NA contact (and a/an GAS / CONDENSATE contact at
 approximately 18190 feet) for a total of 10 feet of GAS show (and
116 feet of GAS / CONDENSATE show).

Liquid Hydrocarbon Data

The liquid hydrocarbon was first detected at 18080 feet and continued through 18206 feet. The liquid phase of the mud was synthetic.
 The liquid hydrocarbon occurred in the form of OIL and was present in the WASHED CUTTINGS. When the
WASHED CUTTINGS were mixed with water and studied in the UV box, the liquid hydrocarbon covered 40 % of the
 surface of the water. The oil was VLT TAN-CLR in color, exhibited a BRT WH, BLU WH, YEL fluorescence and had an approximate
 API gravity of 39; odor was N/A and staining (was) present. The cuttings exhibited a INST FAST cut that was
V LT BRN/TAN CLR in color with a BRT WH, BLU WH, YEL fluorescence.

Logger's Opinion of the Show Interval

From 18080' to 18110' the samples show a very faint light tan stain.

From 18150' to 18206' the resistivity increased and the gas increased with the oil having a light tan to very light brown stain.

Resistivity from 18080'-18110' ranged from 1.59-7.63 ohms and gamma 82-15 api.

Resistivity from 18140'-18206' ranged from 1.24-34.96 ohms and gamma 35-28 api.

100% Gas-In-Air = 3000 units

BP-HZN-2179MDL03775984-0002

Sperry Drilling Services Show Report

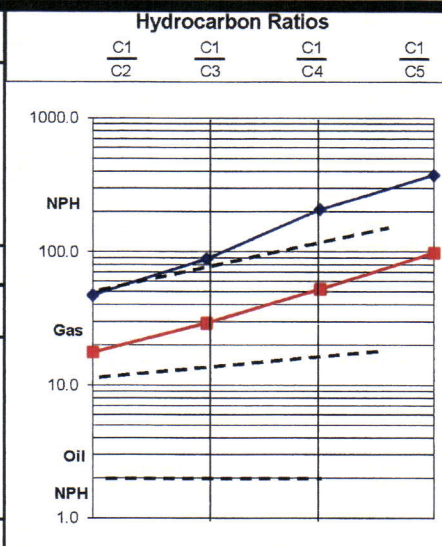
Well Name: OCS-G-32306 001 ST00BP01
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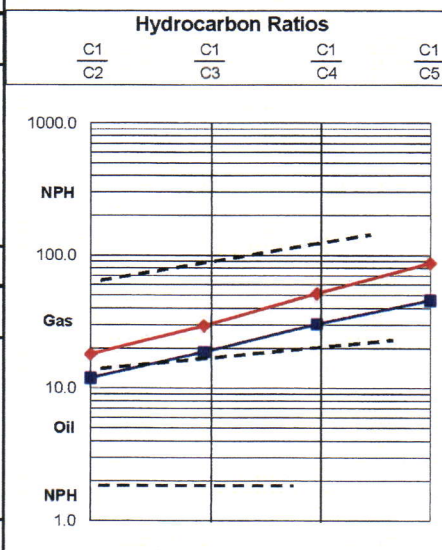
Zone Production Analysis (From Steam-Still PPM Ratios)

The production of this zone is deemed to be GOOD. At approximately 18080 feet, there is a GAS / NA contact (and a GAS / CONDENSATE contact at approximately 18090 feet) for a total of 10 feet of GAS show (and 116 feet of GAS / CONDENSATE show).

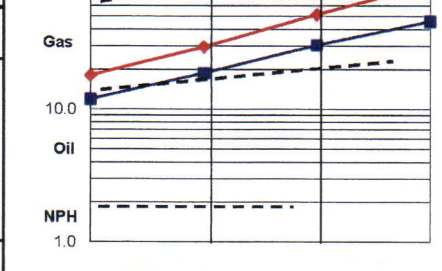
1	Depth	18080 ft	Gas	%	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
C1	13.17	3.382	= 9.79				Hydrocarbon Ratios	
C2	0.267	0.059	= 0.208				C1/C2 =	47.0
C3	0.138	0.027	= 0.111				C1/C3 =	88.2
C4	0.059	0.012	= 0.047				C1/C4 =	208.2
C5	0.026	0.000	= 0.026				C1/C5 =	376.4
Production Analysis <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Water <input type="checkbox"/> Non-Produicable Hydrocarbons								



2	Depth	18090 ft	Gas	%	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
C1	22.810	3.382	= 19.43				Hydrocarbon Ratios	
C2	1.163	0.059	= 1.104				C1/C2 =	17.6
C3	0.694	0.027	= 0.667				C1/C3 =	29.1
C4	0.385	0.012	= 0.373				C1/C4 =	52.1
C5	0.198	0.000	= 0.198				C1/C5 =	98.1
Production Analysis <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Water <input type="checkbox"/> Non-Produicable Hydrocarbons								



3	Depth	18100 ft	Gas	%	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
C1	6.64	3.382	= 3.26				Hydrocarbon Ratios	
C2	0.333	0.059	= 0.274				C1/C2 =	11.9
C3	0.201	0.027	= 0.174				C1/C3 =	18.7
C4	0.119	0.012	= 0.107				C1/C4 =	30.5
C5	0.071	0.000	= 0.071				C1/C5 =	45.9
Production Analysis <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Water <input type="checkbox"/> Non-Produicable Hydrocarbons								



4	Depth	18110 ft	Gas	%	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
C1	15.208	3.382	= 11.83				Hydrocarbon Ratios	
C2	0.717	0.059	= 0.658				C1/C2 =	18.0
C3	0.429	0.027	= 0.402				C1/C3 =	29.4
C4	0.242	0.012	= 0.230				C1/C4 =	51.4
C5	0.136	0.000	= 0.136				C1/C5 =	87.0
Production Analysis <input checked="" type="checkbox"/> Gas <input type="checkbox"/> Oil <input type="checkbox"/> Water <input type="checkbox"/> Non-Produicable Hydrocarbons								

**Sperry
Drilling Services
Show Report**

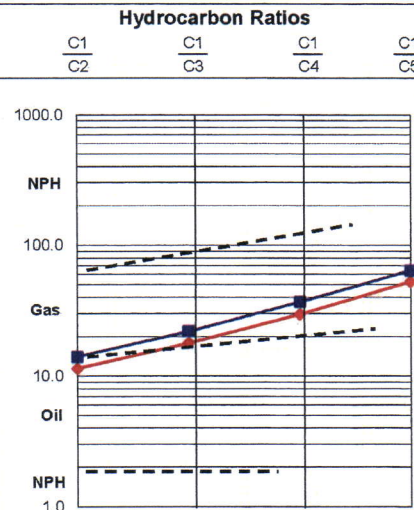
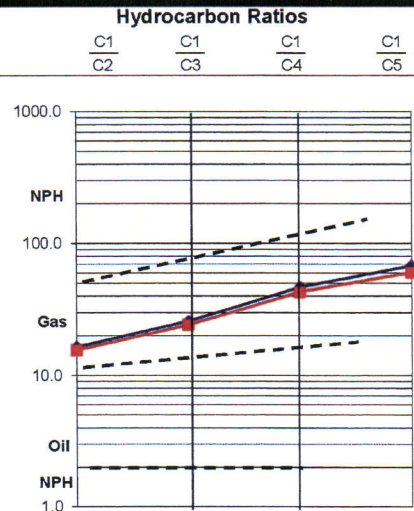
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Zone Production Analysis (From Steam-Still PPM Ratios)

The production of this zone is deemed to be GOOD. At approximately 18080 feet, there is a GAS / NA contact (and a GAS / CONDENSATE contact at approximately 18090 feet) for a total of 10 feet of GAS show (and 116 feet of GAS / CONDENSATE show).

1	Depth	18120 ft	Gas	<input checked="" type="checkbox"/> %	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
	C1 8.62	3.382	= 5.24				Hydrocarbon Ratios	
	C2 0.377	0.059	= 0.318				C1/C2 = 16.5	
	C3 0.230	0.027	= 0.203				C1/C3 = 25.8	
	C4 0.124	0.012	= 0.112				C1/C4 = 46.8	
	C5 0.077	0.000	= 0.077				C1/C5 = 68.1	
	Production Analysis	<input checked="" type="checkbox"/> Gas	<input type="checkbox"/> Oil	<input type="checkbox"/> Water	<input type="checkbox"/> Non-Produicable Hydrocarbons			
2	Depth	18130 ft	Gas	<input checked="" type="checkbox"/> %	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
	C1 8.281	3.382	= 4.90				Hydrocarbon Ratios	
	C2 0.374	0.059	= 0.315				C1/C2 = 15.6	
	C3 0.230	0.027	= 0.203				C1/C3 = 24.1	
	C4 0.126	0.012	= 0.114				C1/C4 = 43.0	
	C5 0.081	0.000	= 0.081				C1/C5 = 60.5	
	Production Analysis	<input checked="" type="checkbox"/> Gas	<input type="checkbox"/> Oil	<input type="checkbox"/> Water	<input type="checkbox"/> Non-Produicable Hydrocarbons			
3	Depth	18140 ft	Gas	<input checked="" type="checkbox"/> %	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
	C1 12.13	3.382	= 8.75				Hydrocarbon Ratios	
	C2 0.680	0.059	= 0.621				C1/C2 = 14.1	
	C3 0.425	0.027	= 0.398				C1/C3 = 22.0	
	C4 0.249	0.012	= 0.237				C1/C4 = 36.9	
	C5 0.136	0.000	= 0.136				C1/C5 = 64.3	
	Production Analysis	<input checked="" type="checkbox"/> Gas	<input type="checkbox"/> Oil	<input type="checkbox"/> Water	<input type="checkbox"/> Non-Produicable Hydrocarbons			
4	Depth	18150 ft	Gas	<input checked="" type="checkbox"/> %	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
	C1 10.522	3.382	= 7.14				Hydrocarbon Ratios	
	C2 0.684	0.059	= 0.625				C1/C2 = 11.4	
	C3 0.429	0.027	= 0.402				C1/C3 = 17.8	
	C4 0.254	0.012	= 0.242				C1/C4 = 29.5	
	C5 0.136	0.000	= 0.136				C1/C5 = 52.5	
	Production Analysis	<input checked="" type="checkbox"/> Gas	<input type="checkbox"/> Oil	<input type="checkbox"/> Water	<input type="checkbox"/> Non-Produicable Hydrocarbons			



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Zone Production Analysis (From Steam-Still PPM Ratios)

The production of this zone is deemed to be GOOD. At approximately 18080 feet, there is a GAS / NA contact (and a GAS / CONDENSATE contact at approximately 18090 feet) for a total of 10 feet of GAS show (and 116 feet of GAS / CONDENSATE show).

1	Depth	18160 ft	Gas	%	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
C1	9.35	3.382	5.97					
C2	0.492	0.059	0.433					
C3	0.313	0.027	0.286					
C4	0.182	0.012	0.170					
C5	0.100	0.000	0.100					

Production Analysis ☒ Gas ☐ Oil ☐ Water ☐ Non-Producing Hydrocarbons

2	Depth	18180 ft	Gas	%	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
C1	15.447	3.382	12.07					
C2	0.780	0.059	0.721					
C3	0.480	0.027	0.453					
C4	0.263	0.012	0.251					
C5	0.134	0.000	0.134					

Production Analysis ☒ Gas ☐ Oil ☐ Water ☐ Non-Producing Hydrocarbons

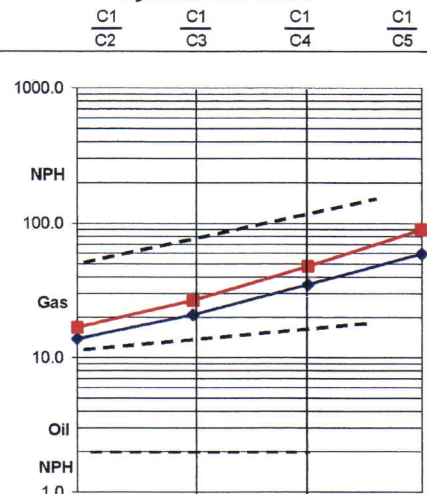
3	Depth	18190 ft	Gas	%	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
C1	23.84	3.382	20.46					
C2	1.517	0.059	1.458					
C3	0.973	0.027	0.946					
C4	0.560	0.012	0.548					
C5	0.281	0.000	0.281					

Production Analysis ☒ Gas ☐ Oil ☐ Water ☐ Non-Producing Hydrocarbons

4	Depth	18200 ft	Gas	%	Units	xx	Mud Chlorides (ppm) =	NA
	Flowline ppm	Suction ppm	Show ppm					
		(Steam Still PPM's in 1000's)						
C1	15.474	3.382	12.09					
C2	1.150	0.059	1.091					
C3	0.785	0.027	0.758					
C4	0.490	0.012	0.478					
C5	0.258	0.000	0.258					

Production Analysis ☒ Gas ☐ Oil ☐ Water ☐ Non-Producing Hydrocarbons

Hydrocarbon Ratios



Hydrocarbon Ratios

