

APPENDIX B

ANALOG INFORMATION

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Bahamas Petroleum
Potential Reservoirs - Characteristics
Doubloon Saxon Well

5490.5 - 6102.0

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
611.5	0.073	0.679	0.093	0.374	0.116	0.196	0.054	0.261	0.076	0.057	0.097	0.017

7175.5 - 7427.5

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
252.0	0.074	0.444	0.084	0.312	0.101	0.145	0.053	0.191	0.068	0.048	0.086	0.004

7503.5 - 7920.5

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
417.0	0.070	0.566	0.085	0.337	0.103	0.171	0.051	0.197	0.070	0.035	0.082	0.008

8145.5 - 8570.0

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
424.5	0.099	0.829	0.108	0.696	0.117	0.556	0.061	0.589	0.077	0.243	0.094	0.084

9084.0 - 9377.5

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
293.5	0.089	0.380	0.104	0.274	0.120	0.189	0.066	0.354	0.083	0.182	0.096	0.095

9489.5 - 9556.0

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
66.5	0.074	0.744	0.081	0.594	0.092	0.263	0.066	0.812	0.074	0.504	0.098	0.120

9722.5 - 9805.0

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
82.5	0.061	0.521	0.070	0.273	0.086	0.030	0.054	0.558	0.068	0.170	0.081	0.012

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10537.5 - 10700

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
162.5	0.071	0.763	0.082	0.502	0.102	0.209	0.057	0.760	0.076	0.225	0.113	0.055

10801.5 - 10932.0

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
130.5	0.082	0.793	0.090	0.617	0.101	0.418	0.058	0.579	0.068	0.234	0.083	0.023

11646.0 - 11767.0 Sonic log stops at 11668, deeper sonic porosity values are from correlation to N/D Porosity.

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
121.0	0.075	0.624	0.094	0.351	0.109	0.219	0.056	0.318	0.070	0.091		0.000

14373.0 - 14419.5

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
46.5	0.069	0.602	0.078	0.430	0.091	0.161	0.048	0.269	0.060	0.011		0.000

14528.5 - 14677.5

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
149.0	0.047	0.611	0.060	0.003		0.000		0.000		0.000		0.000

14805.0 - 15015.0

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
210.0	0.049	0.655	0.063	0.026		0.000		0.000		0.000		0.000

15139.0 - 15214.5

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
75.5	0.047	0.616		0.000		0.000		0.000		0.000		0.000

15765 - 15850

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
85.0	0.075	0.929	0.079	0.747	0.103	0.241	0.052	0.382	0.079	0.065	0.091	0.029

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15880 - 15942.5

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
62.5	0.079	0.832	0.095	0.528	0.115	0.288	0.058	0.408	0.094	0.088	0.135	0.032

16469 - 16620.5 Cased Hole DST

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
151.5	0.057	0.403	0.072	0.125	0.090	0.026	0.047	0.043	0.071	0.003		0.000

17514 - 17699.0

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
185.0	0.120	0.600	0.124	0.570	0.127	0.535	0.070	0.554	0.074	0.462	0.086	0.092

18258.0 - 18610.5

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
352.5	0.105	0.104	0.117	0.078	0.138	0.054	0.072	0.062	0.088	0.037	0.095	0.024

20513 - 20821.5 Open Hole DST

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
308.5	0.082	0.310	0.101	0.193	0.117	0.133	0.063	0.148	0.076	0.073	0.096	0.018

21297.5 - 21671.5

Gross	N/D Porosity Cutoff						Sonic Porosity Cutoff					
	4%		6%		8%		4%		6%		8%	
	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
374.0	0.086	0.095	0.099	0.071	0.109	0.052	0.058	0.060	0.069	0.029		0.000

Bahamas Petroleum
Potential Reservoirs - Characteristics
Great Isaac Well

6253.0 - 7145.5

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
892.5		0.140	0.942	0.146	0.890	0.154	0.798

7328.0 - 7726.5

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
398.5		0.150	0.814	0.160	0.742	0.171	0.660

7796.0 - 8309.5

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
513.5		0.150	0.846	0.154	0.813	0.159	0.764

8396.0 - 9067.0

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
671.0		0.112	0.896	0.117	0.832	0.124	0.721

9453.0 - 10228.0

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
775.0		0.111	0.807	0.119	0.708	0.129	0.595

10303.0 - 10793.5

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
490.5		0.149	0.854	0.156	0.803	0.161	0.752

10980.5 - 11070.5

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
90.0		0.135	1.000	0.135	0.989	0.138	0.944

11210.0 - 11508.5

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
298.5		0.116	0.784	0.127	0.665	0.136	0.575

12401.0 - 12510.0

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
109.0		0.140	0.766	0.145	0.725	0.148	0.697

12605.5 - 12703.0

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
97.5		0.148	0.621	0.152	0.600	0.161	0.538

13243.5 - 13611.0

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
367.5		0.105	0.744	0.114	0.635	0.123	0.527

14010.5 - 14150.0

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
139.5		0.096	0.978	0.101	0.875	0.114	0.606

14221.0 - 14459.5

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
238.5		0.081	0.920	0.091	0.694	0.104	0.411

14998.0 - 15240.0

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
242.0		0.070	0.527	0.087	0.291	0.107	0.136

15293.5 - 15446.5

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
153.0		0.078	0.634	0.090	0.441	0.104	0.255

15714.0 - 15888.0

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
174.0		0.074	0.532	0.096	0.284	0.112	0.175

16722.0 - 16872.5

		Porosity Cutoff					
		4%		6%		8%	
Gross		Avg. Phi	NTG	Avg. Phi	NTG	Avg. Phi	NTG
150.5		0.062	0.482	0.079	0.216	0.100	0.070

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MEXICAN FIELDS

FIELD	RESERVOIR	POROSITY	WATER SATURATION	API	EUR
Cantarell Complex	Up Cretaceous - Paleocene Dolomite Breccia 200 - 1000 m closure 70,400 acres Avg gross thickness 275 meters Avg. net pay 220 meters three related, highly faulted, salt cored structures	9 - 14% matrix with fracture enhancement	10 - 30%	20-24	8000 MMBO
Poza Rica	Albian Limestone breccias and debris with primarily moldic porosity. 300 meter column 30,000 acres 50 - 250 meters gross thickness 16 - 130 meters net pay primarily stratigraphic trap on east flank of anticline.	8 - 20%	10 - 19%	35	1600 MMBO

SOUTH FLORIDA SUNNILAND TREND FIELDS

FIELD	RESERVOIR	POROSITY	WATER SATURATION	API
Lehigh Park	partially dolomitized, fossiliferous limestone	19.7		27.6
Townsend Canal		13.7		28.4
West Felda		20.0	35.0	26.0
Mid-Felda	partially dolomitized, fossiliferous limestone	20.0		26.0
Sunoco-Felda		18.0	50.0	25.0
Corkscrew	partially dolomitized, fossiliferous limestone	15.3		26.0
Lake Trafford	fractured, burrowed limestone rubble	7.9		26.0
Seminole		14.1		25.4
Sunniland	leached, rudistid and algal mounds	15.0		26.0
Bear Island	dolomitized leached, rudistid and algal mounds	11.9		26.0
Pepper Hammock		15.3		27.0
Baxter Island		19.6		22.4
Raccoon Point		13.9		23.3
Forty Mile Bend	crystalline, pinpoint porous dolostone and lime	10.0		21.3

SOUTH TEXAS EDWARDS RESTRICTED PLATFORM CARBONATES

FIELD	RESERVOIR	POROSITY	WATER SATURATION	API
Darst Creek	Generally:	21.0	40.0	36.0
Jourdanton	Collapse breccias dissolved tidal flat evaporites	15.0	50.0	38.0
Luling-Branyon	leached dolomites, moldic porosity	28.0	25.0	36.0
Person	shallow marine deposits	12.0	20.0	40.0
Salt Flat	Extensive dolomitization, pinpoint to vuggy porosity	30.0		30.0

WEST TEXAS EASTERN SHELF PERMIAN CARBONATES

FIELD	RESERVOIR	POROSITY	WATER SATURATION	API
Dorward	Generally:	15.0	50.0	38.0
Garza	Porous dolomites, generally considered to	21.0	48.0	35.0
Howard-Glasscock Glorieta	have been deposited in deeper water as	11.0	30.0	27.0
Howard-Glasscock Permian	reef/platform debris.	12.0	30.0	32.0
Iatan-East Howard		11.0	30.0	30.0
Revido Glorieta		15.0	60.0	35.0
Sharon Ridge 1700		15.0	37.0	28.0
Sharon Ridge 2400		15.0	35.0	32.0
Snyder		10.0	25.0	30.0
Westbrook		6.0	27.0	24.0

WEST TEXAS CENTRAL BASIN PLATFORM PERMIAN CARBONATES

FIELD	RESERVOIR	POROSITY	WATER SATURATION	API
Cowden North	Generally:	10.0	29.0	35.0
Cowden South	Dolomitized carbonates deposited in open to	12.0	26.0	35.0
C-Bar	restricted-platforms and platform margins.	8.0	35.0	33.0
Dune	Depositional framework dominated by sponges	10.0	25.0	34.0
Foster	and algae with leached secondary porosity.	10.0	23.0	35.0
Goldsmith North		8.0	25.0	35.0
Goldsmith		11.0	15.0	36.0
Harper		10.0	35.0	36.0
Johnson		7.0	22.0	35.0
Jordan		15.0	25.0	35.0
Lawson		10.0	30.0	37.0
Mabee		11.0	29.0	32.0
McCamey		14.0	30.0	28.0
McElroy		16.0	20.0	32.0
Midland Farms North		12.0	19.0	29.0
Midland Farms		14.0	20.0	32.0
Penwell		10.0	35.0	33.0
Sand Hills McKnight		9.0	40.0	33.0
Waddell		11.0	40.0	34.0

WEST TEXAS N. CENTRAL BASIN PLATFORM PERMIAN CARBONATES

FIELD	RESERVOIR	POROSITY	WATER SATURATION	API
Emma	Generally:	7.0	20.0	33.0
Fuhrman-Mascho	Dolomitized carbonates deposited in shallow	13.0	30.0	32.0
Means	platform and marginal bank environments.	9.0	29.0	31.0
Seminole West	Best reservoir quality is secondary porosity	10.0	18.0	34.0
Seminole	in leached platform margin grainstones.	13.0	12.0	35.0
Shafter Lake		8.0	25.0	34.0

WEST TEXAS CLEAR FORK (LEONARDIAN) PLATFORM CARBONATES

FIELD	RESERVOIR	POROSITY	WATER SATURATION	API
Cowden North Deep	Generally:	8.0	20.0	37.0
Dollarhide	Grainstones deposited in high energy shallow	15.0	25.0	38.0
Flanagan Clear Fork	water environment. Selectively dolomitized by	13.0	27.0	32.0
Fullerton	meteoric waters during periods of emergence.	10.0	24.0	42.0
Goldsmith Clear Fork		12.0	25.0	40.0
Goldsmith 5600		15.0	30.0	38.0
Keystone Holt		18.0	29.0	40.0
Riley North Clear Fork		8.0	33.0	32.0
Robertson North Clear Fork		7.0	27.0	35.0
Sand Hills Tubb		12.0	40.0	35.0
TXL Tubb		9.0	38.0	35.0
Union		11.0	15.0	33.0

WEST TEXAS NORTHERN SHELF PERMIAN CARBONATES

FIELD	RESERVOIR	POROSITY	WATER SATURATION	API
Adair	Generally:	12.0	27.0	34.0
Anton-Irish	Interbedded dolomite, anhydrite, siltstone and salt deposited in a strandline sabkha.	9.0	22.0	31.0
Brahaney		9.0	27.0	32.0
Cedar Lake	Intercrystalline dolomite porosity preserved in mudstone and wackestone facies.	14.0	20.0	33.0
Levelland		11.0	26.0	30.0
Ownby	Widespread porous dolomites deposited under subtidal conditions.	9.0	17.0	31.0
Prentice 6700		6.0	31.0	28.0
Prentice		12.0	36.0	28.0
Reeves		12.0	36.0	32.0
Russell Clear Fork		5.0	25.0	35.0
Slaughter		12.0	20.0	30.0
Smyer		9.0	40.0	26.0
Wasson N.E.		5.0	30.0	30.0
Wasson 6600/7200		8.0	24.0	33.0
Wasson		10.0	20.0	33.0
Welch		10.0	24.0	33.0

CUBA NORTH COAST FIELDS

FIELD	RESERVOIR	POROSITY	WATER SATURATION	API
Cantel	Aptian-Albian Chert Limestone			15.0
Guasimas	Aptian-Albian Limestone			10.0
Varadero	Up Jurassic - Lwr K Limestone			12.0
Varadero Sur	Aptian-Albian Limestone			20.0
Boca de Jaruco	Up Jurassic - Lwr K Limestone			17.0
Litoral Piedra	Up Jurassic - Lwr K Limestone			27.0