

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY	Stream Code	Stream Name	Gravity	Sulfur
Abu Dhabi				
	UA008	Al Bunduq	38.5	1.1
	UA009	Mubarraz	38.1	0.9
	UA010	Murban	40.5	0.8
	UA011	Zakum (Lower Zakum/Abu Dhabi Marine)	40.6	1
	UA012	Umm Shaif (Abu Dhabi Marine)	37.4	1.5
	UA013	Arzanah	44	0
	UA018	Abu Al Bu Khoosh	31.6	2
	UA020	Murban Bottoms	21.4	NA
	UA021	Top Murban	21	NA
	UA022	Upper Zakum	34.4	1.7
	UA299	Abu Dhabi Miscellaneous	NA	NA
Algeria				
	AG020	Arzew	44.3	0.1
	AG021	Hassi Messaoud	42.8	0.2
	AG022	Zarzaitine	43	0.1
	AG023	Algerian	44	0.1
	AG024	Skikda	44.3	0.1
	AG025	Saharan Blend	45.5	0.1
	AG026	Hassi Ramal	60	0.1
	AG027	Algerian Condensate	64.5	NA
	AG028	Algerian Mix	45.6	0.2
	AG029	Algerian Condensate (Arzew)	65.8	0
	AG030	Algerian Condensate (Bejaia)	65.0	0
	AG034	Top Algerian	24.6	NA
	AG299	Algerian Miscellaneous	NA	NA
Angola				
	AO030	Cabinda	31.7	0.2
	AO031	Takula	33.7	0.1
	AO032	Soyo Blend	33.7	0.2
	AO035	Mandji	29.5	1.3
	AO036	Malongo (West)	26	NA
	AO037	Cavala-1	42.3	NA
	AO038	Sulele (South-1)	38.7	NA
	AO039	Palanca	40	0.14
	AO040	Malongo (North)	30	NA
	AO041	Malongo (South)	25	NA
	AO042	Nemba	38.5	0
	AO043	Girassol	31.3	NA
	AO044	Kuito	20	NA
	AO045	Hungo	28.8	NA
	AO046	Kissinje	30.5	0.37
	AO047	Dalia	23.6	1.48
	AO048	Gimboa	23.7	0.65

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY			
Stream Code	Stream Name	Gravity	Sulfur
Angola – Continued			
AO049	Mondo	28.8	0.44
AO050	Plutonio	33.2	0.036
AO051	Saxi Batuque Blend	33.2	0.36
AO052	Xikomba	34.4	0.41
AO299	Angolan Miscellaneous	NA	NA
Argentina			
AR010	Tierra del Fuego	42.4	NA
AR011	Santa Cruz	26.9	NA
AR012	Escalante	24	0.2
AR013	Canadon Seco	27	0.2
AR014	Hidra	51.7	0.05
AR015	Medanito	34.93	0.48
AR299	Argentinian Miscellaneous	NA	NA
Armenia			
AM299	Armenian Miscellaneous	NA	NA
Australia			
AS205	Jabiru	42.3	0.03
AS210	Kooroopa (Jurassic)	42	NA
AS220	Talgeberry (Jurassic)	43	NA
AS230	Talgeberry (Up Cretaceous)	51	NA
AS240	Woodside Condensate	51.8	NA
AS241	Saladin-3 (Top Barrow)	49	NA
AS242	Harriet	38	NA
AS243	Skua-3 (Challis Field)	43	NA
AS244	Barrow Island	36.8	0.1
AS245	Northwest Shelf Condensate	53.1	0
AS246	Jackson Blend	41.9	0
AS247	Cooper Basin	45.2	0.02
AS248	Griffin	55	0.03
AS251	Buffalo Crude	53	NA
AS252	Cossack	48.2	0.04
AS253	Elang	56.2	NA
AS254	Enfield	21.7	0.13
AS650	Gippsland (Bass Strait)	45.4	0.1
AS299	Australian Miscellaneous	NA	NA
Azerbaijan			
AJ100	Azeri Light	34.8	0.15
AJ299	Azerbaijan Miscellaneous	NA	NA
Bahrain			
BA299	Bahrain Miscellaneous	NA	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY	Stream Code	Stream Name	Gravity	Sulfur
Belarus	BO299	Belarus Miscellaneous	NA	NA
Benin	BN110	Seme	22.6	0.5
	BN299	Benin Miscellaneous	NA	NA
Belize	BH100	Belize Light Crude	40	NA
	BH299	Belize Miscellaneous	NA	NA
Bolivia	BL033	Bolivian Condensate	58.8	0.1
	BL299	Bolivian Miscellaneous	NA	NA
Brazil	BR620	Garoupa	30.5	0.1
	BR625	Sergipano	25.1	0.4
	BR626	Campos Basin	20	NA
	BR627	Urucu (Upper Amazon)	42	NA
	BR628	Marlim	20	NA
	BR629	Brazil Polvo	19.6	1.14
	BR630	Roncador	28.3	0.58
	BR631	Roncador Heavy	18	NA
	BR299	Brazilian Miscellaneous	NA	NA
Brunei	BX035	Seria Light	36.2	0.1
	BX036	Champion	24.4	0.1
	BX037	Champion Condensate	65	0.1
	BX038	Brunei LS Blend	32	0.1
	BX039	Brunei Condensate	65	NA
	BX040	Champion Export	23.9	0.12
	BX299	Brunei Miscellaneous	NA	NA
Cameroon*	CM031	Kole Marine Blend	34.9	0.3
	CM036	Lokele	21.5	0.5
	CM037	Moudi Light	40	NA
	CM038	Moudi Heavy	21.3	NA
	CM039	Ebome	32.1	0.35
	CM299	Cameroon Miscellaneous	NA	NA
Canada	CA210	Peace River Light	41	NA
	CA211	Peace River Medium	33	NA
	CA212	Peace River Heavy	23	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY			
Stream Code	Stream Name	Gravity	Sulfur
Canada – Continued			
CA213	Manyberries	36.5	NA
CA214	Rainbow Light and Medium	40.7	NA
CA215	Pembina	33	NA
CA216	Bells Hill Lake	32	NA
CA217	Fosterton Condensate	63	NA
CA218	Rangeland Condensate	67.3	NA
CA219	Redwater	35	NA
CA241	Lloydminster	20.7	2.8
CA243	Wainwright- Kinsella	23.1	2.3
CA244	Bow River Heavy	26.7	2.4
CA245	Fosterton	21.4	3
CA246	Smiley-Coleville	22.5	2.2
CA247	Midale	29	2.4
CA248	Milk River Pipeline	36	1.4
CA249	lpl-Mix Sweet	40	0.2
CA250	lpl-Mix Sour	38	0.5
CA251	lpl Condensate	55	0.3
CA252	Aurora Light	39.5	0.4
CA253	Aurora Condensate	65	0.3
CA255	Reagan Field	35	0.2
CA256	Synthetic Canada	30.3	1.7
CA257	Cold Lake	13.2	4.1
CA258	Cold Lake Blend	26.9	3
CA259	Canadian Federated	39.4	0.3
CA260	Chauvin	22	2.7
CA261	Gcos	23	NA
CA262	Gulf Alberta L & M	35.1	1
CA263	Light Sour Blend	35	1.2
CA264	Lloyd Blend	22	2.8
CA265	Peace River Condensate	54.9	NA
CA266	Sarnium Condensate	57.7	NA
CA267	Saskatchewan Light	32.9	NA
CA268	Sweet Mixed Blend	38	0.5
CA269	Syncrude	32	0.1
CA270	Rangeland – South L & M	39.5	0.5
CA271	Northblend Nevis	34	NA
CA272	Canadian Common Condensate	55	NA
CA273	Canadian Common	39	0.3
CA274	Waterton Condensate	65.1	NA
CA275	Panuke Condensate	56	NA
CA276	Federated Light and Medium	39.7	2
CA277	Wabasca	23	NA
CA278	Hibernia	37.3	0.37
CA279	BC Light	40	NA
CA280	Boundary	39	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY	Stream Code	Stream Name	Gravity	Sulfur
Canada – Continued				
	CA281	Albian Heavy	21	NA
	CA282	Koch Alberta	34	NA
	CA283	Terra Nova	32.3	NA
	CA284	Echo Blend	20.6	3.15
	CA285	Western Canadian Blend	19.8	3
	CA286	Western Canadian Select	20.5	3.33
	CA287	White Rose	31.0	0.31
	CA288	Access	22	NA
	CA289	Premium Albian Synthetic Heavy	20.9	NA
	CA290	Albian Residuum Blend (ARB)	20.03	2.62
	CA291	Christina Lake	20.5	3
	CA292	CNRL	34	NA
	CA293	Husky Synthetic Blend	31.91	0.11
	CA294	Premium Albian Synthetic (PAS)	35.5	0.04
	CA295	Seal Heavy(SH)	19.89	4.54
	CA296	Suncor Synthetic A (OSA)	33.61	0.178
	CA297	Suncor Synthetic H (OSH)	19.53	3.079
	CA300	Peace Sour	33	NA
	CA301	Western Canadian Resid	20.7	NA
	CA299	Canadian Miscellaneous	NA	NA
Chile*				
	CI299	Chile Miscellaneous	NA	NA
Chad				
	CD101	Doba Blend (Early Production)	24.8	0.14
	CD102	Doba Blend (Later Production)	20.8	0.17
	CD299	Chad Miscellaneous	NA	NA
China				
	CH470	Taching (Daqing)	33	0.1
	CH471	Shengli	24.2	1
	CH472	Beibu	NA	NA
	CH473	Chengbei	17	NA
	CH474	Lufeng	34.4	NA
	CH475	Xijiang	28	NA
	CH476	Wei Zhou	39.9	NA
	CH477	Liu Hua	21	NA
	CH478	Boz Hong	17	0.282
	CH479	Peng Lai	21.8	0.29
	CH480	Xi Xiang	32.18	0.09
	CH299	China Miscellaneous	NA	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY	Stream Code	Stream Name	Gravity	Sulfur
Colombia				
	CO040	Onto	35.3	0.5
	CO041	Putamayo	35	0.5
	CO042	Rio Zulia	40.4	0.3
	CO043	Orito	34.9	0.5
	CO044	Cano-Limon	30.8	0.5
	CO045	Lasmo	30	NA
	CO046	Cano Duya-1	28	NA
	CO047	Corocora-1	31.6	NA
	CO048	Suria Sur-1	32	NA
	CO049	Tunane-1	29	NA
	CO050	Casanare	23	NA
	CO051	Cusiana	44.4	0.2
	CO052	Vasconia	27.3	0.6
	CO053	Castilla Blend	20.8	1.72
	CO054	Cupiaga	43.11	0.082
	CO055	South Blend	28.6	0.72
	CO299	Colombian Miscellaneous	NA	NA
Congo (Brazzaville)				
	CF046	Emeraude	23.6	0.5
	CF047	Djeno Blend	26.9	0.3
	CF048	Viodo Marina-1	26.5	NA
	CF049	Nkossa	47	0.03
	CF299	Congo Miscellaneous	NA	NA
Congo (Kinshasa)				
	CG450	Muanda	34	0.1
	CG451	Congo/Zaire	31.7	0.1
	CG452	Coco	30.4	0.15
	CG299	Congo Miscellaneous	NA	NA
Denmark*				
	DA292	Dan	30.4	0.3
	DA293	Gorm	33.9	0.2
	DA294	Danish North Sea	34.5	0.26
	DA299	Denmark Miscellaneous	NA	NA
Dubai				
	UD015	Dubai (Fateh)	31.1	2
	UD017	Margham Light	50.3	0
	UD299	Dubai Miscellaneous	NA	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY			
Stream Code	Stream Name	Gravity	Sulfur
Ecuador			
EC050	Oriente	29.2	1
EC051	Quito	29.5	0.7
EC052	Santa Elena	35	0.1
EC053	Limoncoha-1	28	NA
EC054	Frontera-1	30.7	NA
EC055	Bogi-1	21.2	NA
EC056	Napo	19	2
EC057	Napo Light	19.3	NA
EC299	Ecuadorian Miscellaneous	NA	NA
Egypt			
EG055	Belayim	27.5	2.2
EG056	El Morgan	29.4	1.7
EG057	Rhas Gharib	24.3	3.3
EG058	Gulf of Suez Mix	31.9	1.5
EG059	Geysum	19.5	NA
EG060	East Gharib (J-1)	37.9	NA
EG061	Mango-1	35.1	NA
EG062	Rhas Budran	25	NA
EG063	Zeit Bay	34.1	0.1
EG064	East Zeit Mix	39	0.87
EG299	Egyptian Miscellaneous	NA	NA
Equatorial Guinea			
EK010	Zafiro	30.3	NA
EK011	Alba Condensate	55	NA
EK012	Ceiba	30.1	0.42
EK299	Equatorial Guinea Miscellaneous	NA	NA
Gabon			
GB060	Gamba	31.8	0.1
GB061	Mandji	30.5	1.1
GB062	Lucina Marine	39.5	0.1
GB063	Oguendjo	35	NA
GB065	Rabi-Kouanga	34	0.6
GB066	T'Catamba	44.3	0.21
GB067	Rabi	33.4	0.06
GB068	Rabi Blend	34	NA
GB069	Rabi Light	37.7	0.15
GB070	Etame Marin	36	NA
GB071	Olende	17.6	1.54
GB299	Gabonian Miscellaneous	NA	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY			
Stream Code	Stream Name	Gravity	Sulfur
Ghana			
GH044	Bonsu	32	0.1
GH045	Salt Pond	37.4	0.1
GH299	Ghana Miscellaneous	NA	NA
Guatemala			
GT240	Coban	27.7	NA
GT250	Rubelsanto	27	NA
GT299	Guatemala Miscellaneous	NA	NA
India			
IN601	Bombay High	39.4	0.2
IN299	Indian Miscellaneous	NA	NA
Indonesia			
ID070	Minas (Sumatron Light)	34.5	0.1
ID071	Ardjuna	35.2	0.1
ID072	Attaka	42.3	0.1
ID074	Suri	18.4	0.2
ID075	Sanga Sanga	25.7	0.2
ID076	Sepinggan	37.9	0.9
ID077	Walio	34.1	0.7
ID078	Arimbi	31.8	0.2
ID800	Poleng	43.2	0.2
ID801	Handil	32.8	0.1
ID802	Jatibarang	29	0.1
ID803	Cinta	33.4	0.1
ID804	Bekapai	40	0.1
ID805	Katapa	52	0.1
ID806	Salawati	38	0.5
ID807	Duri (Sumatran Heavy)	21.1	0.2
ID808	Sembakung	37.5	0.1
ID809	Badak	41.3	0.1
ID810	Arun Condensate	54.5	NA
ID811	Udang	38	0.1
ID812	Klamono	18.7	1
ID813	Bunya	31.7	0.1
ID814	Pamusian	18.1	0.2
ID815	Kerindigan	21.6	0.3
ID816	Melahin	24.7	0.3
ID817	Bunyu	31.7	0.1
ID818	Camar	36.3	NA
ID819	Cinta Heavy	27	NA
ID820	Lalang	40.4	NA
ID821	Kakap	46.6	NA
ID822	Sisi-1	40	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY			
Stream Code	Stream Name	Gravity	Sulfur
Indonesia - Continued			
ID823	Giti-1	33.6	NA
ID824	Ayu-1	34.3	NA
ID825	Bima	22.5	NA
ID826	Padang Isle	34.7	NA
ID827	Intan	32.8	NA
ID828	Sepingan - Yakin Mixed	31.7	0.1
ID829	Widuri	32	0.1
ID830	Belida	45.9	0
ID831	Senipah	51.9	0.03
ID299	Indonesian Miscellaneous	NA	NA
Iran			
IR080	Iranian Light	33.8	1.4
IR082	Iranian Heavy	31	1.7
IR084	Soroosh (Cyrus)	18.1	3.3
IR086	Dorood (Darius)	33.6	2.4
IR087	Rostam	35.9	1.55
IR088	Salmon (Sassan)	33.9	1.9
IR090	Foroozan (Fereidoon)	31.3	2.5
IR091	Aboozar (Ardeshir)	26.9	2.5
IR092	Sirri	30.9	2.3
IR093	Bahrgansar/Nowruz (SIRIP Blend)	27.1	2.5
IR094	Bahr/Nowruz	25.0	2.5
IR299	Iranian Miscellaneous	NA	NA
Iraq			
IZ100	Basrah Light (Pers. Gulf)	33.7	2
IZ101	Kirkuk (Pers. Gulf)	35.1	1.9
IZ102	Mishrif (Pers. Gulf)	28	NA
IZ103	Bai Hasson (Pers. Gulf)	34.1	2.4
IZ104	Basrah Medium (Pers. Gulf)	31.1	2.6
IZ105	Basrah Heavy (Pers. Gulf)	24.7	3.5
IZ106	Kirkuk Blend (Pers. Gulf)	35.1	2
IZ107	N. Rumalia (Pers. Gulf)	34.3	2
IZ108	Ras el Behar	33	NA
IZ200	Basrah Light (Red Sea)	33.7	2
IZ201	Kirkuk (Red Sea)	36.1	1.9
IZ202	Mishrif (Red Sea)	28	NA
IZ203	Bai Hasson (Red Sea)	34.1	2.4
IZ204	Basrah Medium (Red Sea)	31.1	2.6
IZ205	Basrah Heavy (Red Sea)	24.7	3.5
IZ206	Kirkuk Blend (Red Sea)	34	1.9
IZ207	N. Rumalia (Red Sea)	34.3	2
IZ208	Ratawi	23.5	4.1
IZ300	Basrah Light (Turkey)	33.7	2
IZ301	Kirkuk (Turkey)	36.1	1.9

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY			
Stream Code	Stream Name	Gravity	Sulfur
Iraq – Continued			
IZ302	Mishrif (Turkey)	28	NA
IZ303	Bai Hasson (Turkey)	34.1	2.4
IZ304	Basrah Medium (Turkey)	31.1	2.6
IZ305	Basrah Heavy (Turkey)	24.7	3.5
IZ306	Kirkuk Blend (Turkey)	34	1.9
IZ307	N. Rumalia (Turkey)	34.3	2
IZ308	FAO Blend	27.7	3.6
IZ299	Iraq Miscellaneous	NA	NA
Italy			
IT010	Rospo Mare	11	4.7
IT299	Italian Miscellaneous	NA	NA
Cote d'Ivoire (Ivory Coast)			
IV551	Espoir	31.4	0.3
IV552	Lion Cote	41.1	0.101
IV299	Ivory Coast Miscellaneous	NA	NA
Kazakhstan			
KZ110	Kumkol	42.5	0.07
KZ211	Tengiz	46.6	0.55
KZ212	CPC Blend	44.2	0.54
KZ299	Kazakhstan Miscellaneous	NA	NA
Kuwait			
KU110	Mina al Ahmadi (Kuwait Export)	31.4	2.5
KU112	Magwa (Lower Jurassic)	38	NA
KU133	Eocene	18.3	NA
KU137	Burgan (Wafra)	23.3	3.4
KU299	Kuwait Miscellaneous	NA	NA
Libya			
LY120	Bu Attifel	43.6	0
LY121	Amna (high pour)	36.1	0.2
LY122	Brega	40.4	0.2
LY123	Es Sider	36.7	0.4
LY125	Sirtica	43.3	0.43
LY126	Zueitina	41.3	0.3
LY127	Bunker Hunt	37.6	0.2
LY128	El Hofra	42.3	0.3
LY129	Dahra	41	0.4
LY130	Sarir	38.3	0.2
LY131	Zueitina Condensate	65	0.1
LY132	El Sharara	42.1	0.07
LY299	Libyan Miscellaneous	NA	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY			
Stream Code	Stream Name	Gravity	Sulfur
Malaysia			
MY270	Miri Light	36.3	0.1
MY272	Tembungo	37.5	NA
MY273	Labuan Blend	33.2	0.1
MY274	Tapis	44.3	0.1
MY275	Tembungo	37.4	0
MY276	Bintulu	26.5	0.1
MY277	Bekok	49	NA
MY278	Pulai	42.6	NA
MY279	Dulang	39	0.037
MY299	Malaysian Miscellaneous	NA	NA
Mauritania			
MR100	Chinguetti	28.2	0.51
MR299	Mauritania Miscellaneous	NA	NA
Mexico			
MX280	Isthmus	32.8	1.5
MX281	Maya	22	3.3
MX283	Olmeca	39	NA
MX284	Altamira	16	NA
MX285	Topped Isthmus	26.1	1.72
MX299	Mexican Miscellaneous	NA	NA
Netherlands			
NL100	Alba	19.59	NA
NL299	Netherlands Miscellaneous	NA	NA
Neutral Zone			
IY133	Eocene (Wafra)	18.6	4.6
IY135	Hout	32.8	1.9
IY136	Khafji	28.5	2.9
IY137	Burgan (Wafra)	23.3	3.4
IY138	Ratawi	23.5	4.1
IY139	Neutral Zone Mix	23.1	NA
IY140	Khafji Blend	23.4	3.8
IY299	Neutral Zone Miscellaneous	NA	NA
Nigeria			
NI141	Forcados Blend	29.7	0.3
NI142	Escravos	36.2	0.1
NI143	Brass River	40.9	0.1
NI144	Qua Iboe	35.8	0.1
NI145	Bonny Medium	25.2	0.2
NI148	Pennington	36.6	0.1
NI149	Bomu	33	0.2
NI150	Bonny Light	36.7	0.1

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY	Stream Code	Stream Name	Gravity	Sulfur
Nigeria – Continued				
	NI151	Brass Blend	40.9	0.1
	NI152	Gilli Gilli	47.3	NA
	NI155	Adanga	35.1	NA
	NI156	Iyak-3	36	NA
	NI157	Antan	35.2	NA
	NI158	OSO	47	0.06
	NI159	Ukpokiti	42.3	0.01
	NI160	Yoho	39.6	NA
	NI161	Okwori	36.9	NA
	NI162	Bonga	28.1	NA
	NI163	ERHA	31.7	0.21
	NI164	Amenam Blend	39	0.09
	NI165	Akpo	45.17	0.06
	NI166	EA	38	NA
	NI167	Agbami	47.2	0.044
	NI299	Nigerian Miscellaneous	NA	NA
Norway				
	NO158	Ekofisk	43.4	0.2
	NO159	Tor	42	0.1
	NO161	Statfjord	38.4	0.3
	NO165	Heidrun	29	NA
	NO166	Norwegian Forties	37.1	NA
	NO167	Gullfaks	28.6	0.4
	NO168	Oseberg	32.5	0.2
	NO169	Norne	33.1	0.19
	NO170	Troll	28.3	0.31
	NO171	Draugen	39.6	NA
	NO172	Sleipner Condensate	62	0.02
	NO299	Norwegian Miscellaneous	NA	NA
Oman				
	MU160	Oman Export	36.3	0.8
	MU299	Omanian Miscellaneous	NA	NA
Papua New Guinea				
	PP110	Kutubu	44	0.04
	PP299	Papua New Guinea Miscellaneous	NA	NA
Peru				
	PE501	Loreto	34	0.3
	PE502	Talara	32.7	0.1
	PE505	High Cold Test	37.5	NA
	PE506	Bayovar	22.6	NA
	PE507	Low Cold Test	34.3	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY	Stream Code	Stream Name	Gravity	Sulfur
Peru - Continued				
	PE508	Carmen Central-5	20.7	NA
	PE509	Shiviyacu-23	20.8	NA
	PE510	Mayna	25.7	NA
	PE299	Peruvian Miscellaneous	NA	NA
Philippines*				
	RP480	Nido	26.5	NA
	RP299	Philippines Miscellaneous	NA	NA
Qatar				
	QA170	Dukhan	41.7	1.3
	QA171	Qatar Marine	35.3	1.6
	QA176	Qatar Land	41.4	NA
	QA299	Qatar Miscellaneous	NA	NA
Ras Al Khaimah				
	UJ010	Rak Condensate	54.1	NA
	UJ299	Ras Al Khaimah Miscellaneous	NA	NA
Russia				
	RS290	Urals	31	2
	RS292	Russian Export Blend	32.5	1.4
	RS293	M100	17.6	2.02
	RS294	M100 Heavy	16.67	2.09
	RS295	Siberian Light	37.8	0.4
	RS296	E4 (Gravenshon)	19.84	1.95
	RS297	E4 Heavy	18	2.35
	RS300	Purovsky Condensate	64.1	0.01
	RS301	Sokol	39.7	0.18
	RS299	Russian Miscellaneous	NA	NA
Saudi Arabia				
	SA180	Light (Pers. Gulf)	33.4	1.8
	SA181	Heavy (Pers. Gulf) (Safaniya)	27.9	2.8
	SA182	Medium (Pers. Gulf) (Khursaniyah)	30.8	2.4
	SA183	Extra Light (Pers. Gulf) (Berri)	37.8	1.1
	SA280	Light (Yanbu)	33.4	1.2
	SA281	Heavy (Yanbu)	27.9	2.8
	SA282	Medium (Yanbu)	30.8	2.4
	SA283	Berri (Yanbu)	37.8	1.1
	SA382	Medium (Zuluf/Marjan)	31.1	2.5
	SA299	Saudi Arabian Miscellaneous	NA	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY	Stream Code	Stream Name	Gravity	Sulfur
Sharjah				
	UH016	Mubarek, Sharjah	37	0.6
	UH018	Sharjah Condensate	49.7	0.1
	UH299	Sharjah Miscellaneous	NA	NA
Singapore*				
	SN420	Rantau	50.5	0.1
	SN299	Singapore Miscellaneous	NA	NA
Spain				
	SP110	Amposta Marina North	37	NA
	SP120	Casablanca	34	NA
	SP490	El Dorado	26.6	NA
	SP299	Spanish Miscellaneous	NA	NA
Syria				
	SY010	Syrian Straight	15	NA
	SY011	Thayyem	35	NA
	SY012	Omar Blend	38	NA
	SY013	Omar	36.5	0.1
	SY014	Syrian Light	36	0.6
	SY430	Souedie	24.9	3.8
	SY299	Syrian Miscellaneous	NA	NA
Thailand				
	TH350	Erawan Condensate	54.1	NA
	TH355	Sirikit	41	NA
	TH356	Nang Nuan	30	NA
	TH357	Bualuang	27	NA
	TH358	Benchamas	42.4	0.12
	TH299	Thailand Miscellaneous	NA	NA
Trinidad and Tobago				
	TD194	Galeota Mix	32.8	0.3
	TD195	Trintopec	24.8	NA
	TD196	Land/Trinmar	23.4	1.2
	TD197	Calypso	30.84	0.59
	TD299	Miscellaneous	NA	NA
Tunisia				
	TS022	Zarzaitine	41.9	0.1
	TS197	Ashtart	29	1
	TS199	El Borma	43.3	0.1
	TS200	Ezzaouia-2	41.5	NA
	TS299	Tunisian Miscellaneous	NA	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY			
Stream Code	Stream Name	Gravity	Sulfur
Turkey*			
TU299	Turkish Miscellaneous	NA	NA
Ukraine			
UP299	Ukraine Miscellaneous	NA	NA
United Kingdom			
UK379	Auk	37.2	0.5
UK380	Beatrice	38.7	0.05
UK381	Brae	33.6	0.7
UK382	Buchan	33.7	0.8
UK383	Claymore	30.5	1.6
UK384	S.V. (Brent)	36.7	0.3
UK385	Tartan	41.7	0.6
UK386	Tern	35	0.7
UK387	Magnus	39.3	0.3
UK388	Dunlin	34.9	0.4
UK390	Fulmar	40	0.3
UK391	Hutton	30.5	0.7
UK392	N.W. Hutton	36.2	0.3
UK393	Maureen	35.5	0.6
UK394	Murchison	38.8	0.3
UK395	Ninian Blend	35.6	0.4
UK400	Montrose	40.1	0.2
UK401	Beryl	36.5	0.4
UK402	Piper	35.6	0.9
UK403	Forties	36.6	0.3
UK404	Brent Blend	38	0.4
UK405	Flotta	35.7	1.1
UK406	Thistle	37	0.3
UK408	S.V. (Ninian)	38	0.3
UK409	Argyle	38.6	0.2
UK410	Heather	33.8	0.7
UK415	South Birch	38.6	NA
UK416	Wytch Farm	41.5	NA
UK417	Cormorant, North	34.9	0.7
UK418	Cormorant, South (Cormorant "A")	35.7	0.6
UK419	Alba	19.2	NA
UK420	Foinhaven	26.3	0.38
UK421	Schiehallion	25.8	NA
UK422	Captain	19.1	0.7
UK423	Harding	20.7	0.59
UK299	United Kingdom Miscellaneous	NA	NA
Uzbekistan			
UZ299	Uzbekistan Miscellaneous	NA	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY	Stream Code	Stream Name	Gravity	Sulfur
Venezuela				
	VE201	Jobo (Monagas)	12.6	2
	VE202	Lama Lamar	36.7	1
	VE203	Mariago	27	1.5
	VE204	Ruiz	32.4	1.3
	VE205	Tucipido	36	0.3
	VE206	Venez Lot 17	36.3	0.9
	VE207	Mara 16/18	16.5	3.5
	VE210	Tia Juana Light	32.1	1.1
	VE211	Tia Juana Med 26	24.8	1.6
	VE212	Officina	35.1	0.7
	VE213	Bachaquero	16.8	2.4
	VE214	Cento Lago	36.9	1.1
	VE215	Lagunillas	17.8	2.2
	VE216	La Rosa Medium	25.3	1.7
	VE217	San Joaquin	42	0.2
	VE218	Lagotreco	29.5	1.3
	VE219	Lagocinco	36	1.1
	VE220	Boscan	10.1	5.5
	VE221	Leona	24.1	1.5
	VE222	Barinas	26.2	1.8
	VE223	Sylvestre	28.4	1
	VE224	Mesa	29.2	1.2
	VE225	Ceuta	31.8	1.2
	VE226	Lago Medio	31.5	1.2
	VE227	Tigre	24.5	NA
	VE228	Anaco Wax	41.5	0.2
	VE229	Santa Rosa	49	0.1
	VE230	Bombai	19.6	1.6
	VE301	Aguasay	41.1	0.3
	VE302	Anaco	43.4	0.1
	VE305	BCF-Bach/Lag17	16.8	2.4
	VE306	BCF-Bach/Lag21	20.4	2.1
	VE307	BCF-21.9	21.9	NA
	VE308	BCF-24	23.5	1.9
	VE309	BCF-31	31	1.2
	VE310	BCF Blend	34	1
	VE312	Bolival Coast	23.5	1.8
	VE313	Ceuta/Bach 18	18.5	2.3
	VE315	Corridor Block	26.9	1.6
	VE316	Cretaceous	42	0.4
	VE317	Guanipa	30	0.7
	VE319	Lago Mix Med.	23.4	1.9
	VE320	Larosa/Lagun	23.8	1.8
	VE321	Menemoto	19.3	2.2
	VE322	Cabimas	20.8	1.8

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY			
Stream Code	Stream Name	Gravity	Sulfur
Venezuela – Continued			
VE323	BCF-23	23	1.9
VE324	Oficina/Mesa	32.2	0.9
VE326	Pilon	13.8	2
VE327	Recon (Venez)	34	NA
VE330	102 Tj (25)	25	1.6
VE331	Tjl Cretaceous	39	0.6
VE332	Tia Juana Pesado (Heavy)	12.1	2.7
VE334	Mesa-Recon	28.4	1.3
VE337	Oritupano	19	2
VE338	Hombre Pintado	29.7	0.3
VE339	Merey	17.4	2.2
VE340	Lago Light	41.2	0.4
VE341	Laguna	11.2	0.3
VE342	Bach/Cueta Mix	24	1.2
VE344	Bachaquero 13	13	2.7
VE346	Ceuta – 28	28	1.6
VE348	Temblador	23.1	0.8
VE349	Lagomar	32	1.2
VE350	Taparito	17	NA
VE361	BCF-Heavy	16.7	NA
VE362	BCF-Medium	22	NA
VE364	Caripito Blend	17.8	NA
VE365	Laguna/Ceuta Mix	18.1	NA
VE369	Morichal	10.6	NA
VE370	Pedenales	20.1	NA
VE372	Quiriquire	16.3	NA
VE373	Tucupita	17	NA
VE374	Furrial-2 (E. Venezuela)	27	NA
VE375	Curazao Blend	18	NA
VE377	Santa Barbara	36.5	NA
VE378	Cerro Negro	15	NA
VE379	BCF22	21.1	2.11
VE380	Hamaca	26	1.55
VE381	Zuata 10	15	NA
VE382	Zuata 20	25	NA
VE383	Zuata 30	35	NA
VE384	Monogas	15.9	3.3
VE385	Corocoro	24	NA
VE386	Petrozuata	19.5	2.69
VE387	Morichal 16	16	NA
VE388	Guafita	28.6	0.73
VE299	Venezuelan Miscellaneous	NA	NA

**APPENDIX A
CRUDE STREAM CODES**

COUNTRY			
Stream Code	Stream Name	Gravity	Sulfur
Vietnam			
VM010	Bach Ho (White Tiger)	38.6	0
VM011	Dai Hung (Big Bear)	36.9	0.1
VM012	Rang Dong	37.7	0.5
VM013	Ruby	35.6	0.08
VM014	Su Tu Den (Black Lion)	36.8	0.05
VM299	Vietnam Miscellaneous	NA	NA
Yemen			
YM010	North Yemeni Blend	40.5	NA
YM011	Alif	40.4	0.1
YM012	Maarib Lt.	49	0.2
YM013	Masila Blend	30-31	0.6
YM101	Shabwa Blend	34.6	0.6
YM299	Yemeni Miscellaneous	NA	NA
Undefined			
ZZ299	Undefined Miscellaneous	NA	NA