

## HEAVY EXPORT CRUDE OIL

TABLE 1: GENERAL DATA

SPECIFICATION	RESULT	TEST METHOD
SPECIFIC GRAVITY @ 15.56 /15.56 °C	0.8755	ASTM D 4052
API	30.1	ASTM D 1298
API (DEBUTANIZED)	29.5	ASTM D 1298
SULPHUR CONTENT (Total)            Wt.%	1.97	ASTM D 4294
* H <sub>2</sub> S CONTENT                            ppm	100	-----
MERCAPTAN CONTENT                    ppm	120	UOP 163
NITROGEN CONTENT (Total)            Wt.%	0.17	ASTM D5762
BASE SEDIMENT & WATER            Vol.%	0.10	ASTM D 1796
WATER CONTENT                        Vol.%	0.05	ASTM D 4006
SALT CONTENT                            P.T.B	8	ASTM D 3230
KINEMATIC VISCOSITY @10 ° C    mm <sup>2</sup> /Sec	30.59	ASTM D 445
"    @ 20 ° C    mm <sup>2</sup> /Sec	19.16	ASTM D 445
"    @ 40 ° C    mm <sup>2</sup> /Sec	10.60	ASTM D 445
POUR POINT                               ° C	-18	ASTM D 5853
*R.V.P.                                    PSI	7.20	ASTM D 323
ASPHALTENES                            Wt.%	3.06	IP 143
WAX CONTENT                            Wt.%	4.9	BP 237
DROP MELTING POINT OF WAX       ° C	54	IP 133
CARBON RESIDUE CONRADSON       Wt.%	5.80	ASTM D 189
ACIDITY , TOTAL                        mgKOH/gr	0.15	UOP 565
NICKEL CONTENT                        PPm	21.0	ASTM D 5863
VANADIUM CONTENT                    PPm	84.0	ASTM D 5863
IRON CONTENT                            PPm	<1	ASTM D 5863
LEAD CONTENT                            PPm	<1	ASTM D 5863
SODIUM CONTENT                        PPm	2.7	ASTM D 5863
ZINC CONTENT                            PPm	<1	ASTM D 5863
COPPER CONTENT                        PPm	<1	ASTM D 5863

\* Tested on site

Sampling date: (January 2, 2014)  
Report Date: (February 16, 2014)