



November 2019

REPORT – VOLUME 1, APPENDIX 1

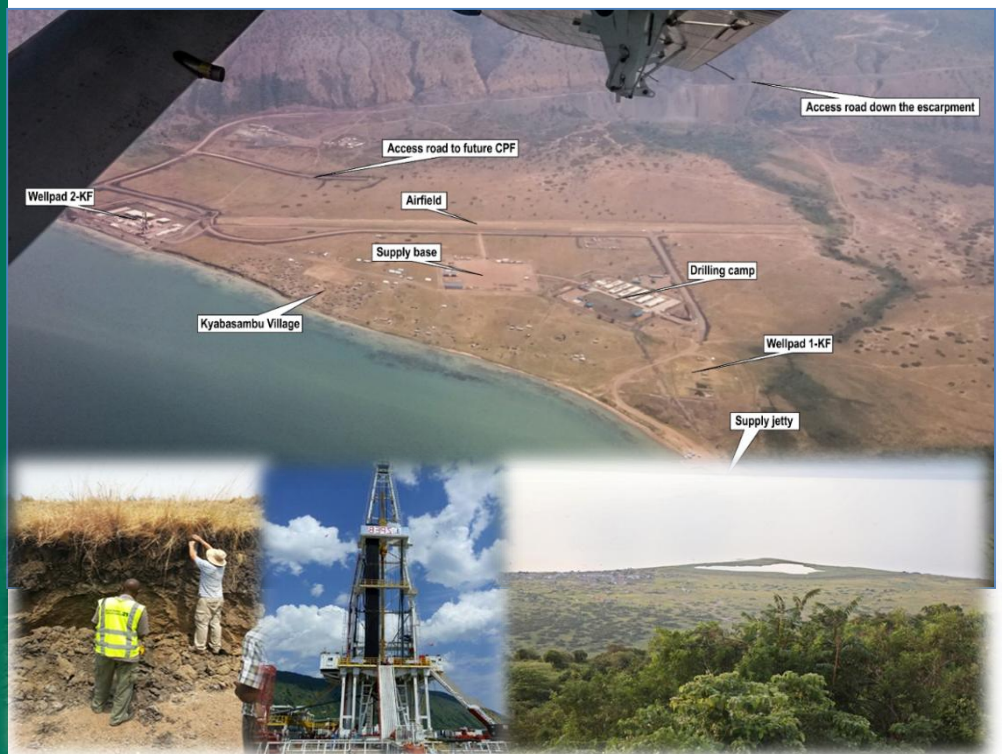
CNOOC UGANDA LIMITED

# Environmental and Social Impact Assessment for the Kingfisher Field Development Area in Kikuube & Hoima Districts, Uganda

Operation - Environmental Management Plans: CPF, Wells and Ancillary Infrastructure

Submitted to:

The Executive National Environmental Management Authority  
NEMA House, Plot 17/19/21 Jinja Road  
P.O. Box 22255 Kampala, Uganda





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KYABASAMBU

Pad 4a

Lake water intake station

Pad 2

Export pipeline (June 2017)

Temporary Camp (West)

Temporary Camp (East)

Material Yard

Drilling Camp



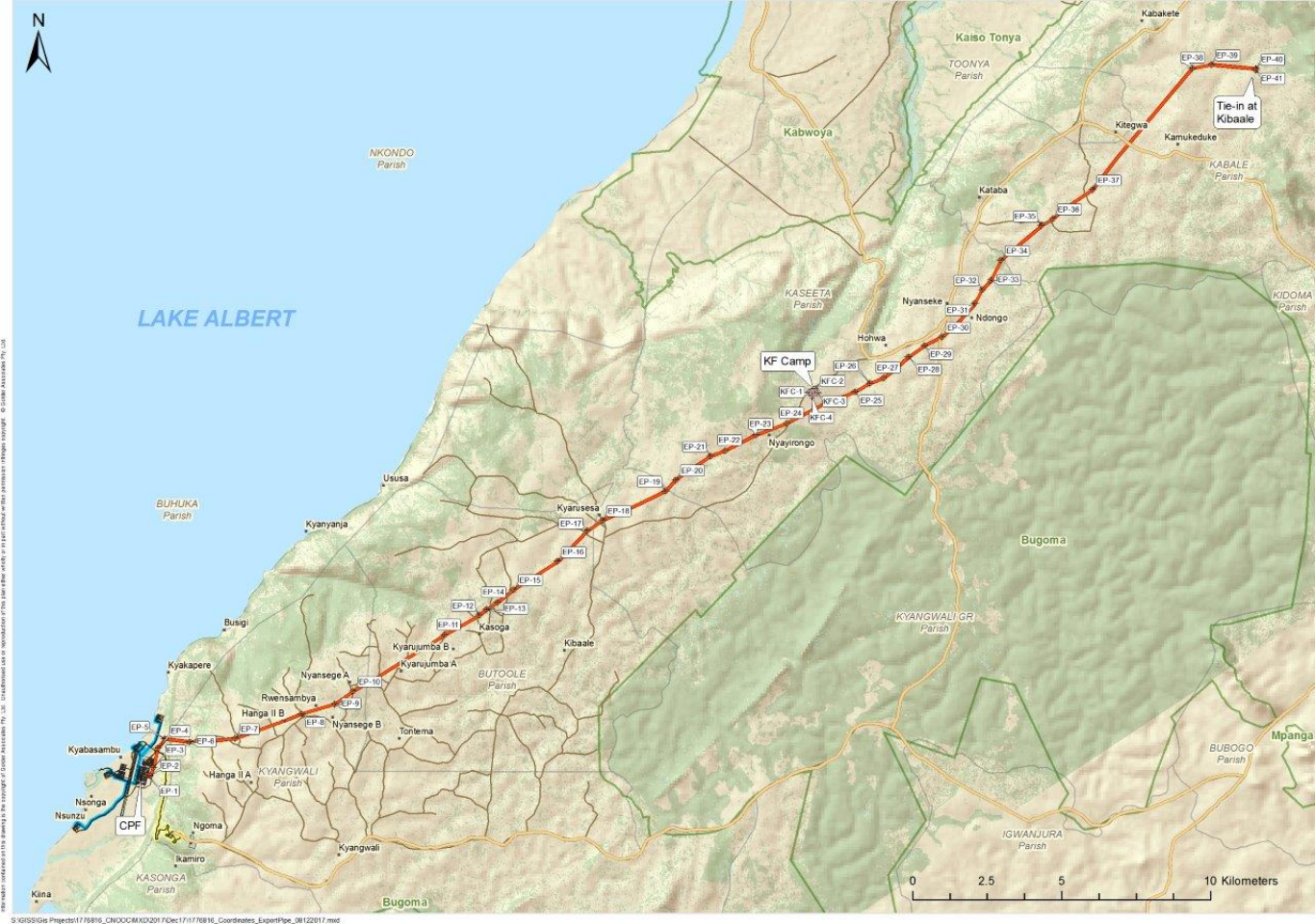
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LAKE ALBERT



Tie-in at Kibaale

KF Camp

CPF



Infrastructure	Label	UTM 36N (meters)		Decimal degrees	
		X	Y	North	East
Airstrip	A-1	249626	138627	1.25322	30.75000
Airstrip	A-2	249559	138643	1.25337	30.74939
Airstrip	A-3	249220	137165	1.24001	30.74636
Airstrip	A-4	249280	137145	1.23983	30.74690
CPF	CPF-1	249692	138157	1.24898	30.75060
CPF	CPF-2	250029	138076	1.24825	30.75362
CPF	CPF-3	249893	137511	1.24314	30.75241
CPF	CPF-4	249645	137571	1.24368	30.75018
CPF	CPF-5	249635	137527	1.24328	30.75009
CPF	CPF-6	249547	137550	1.24349	30.74930
Drilling camp	DC-1	249002	138021	1.24775	30.74440
Drilling camp	DC-2	249088	137854	1.24623	30.74518
Drilling camp	DC-3	248945	137781	1.24557	30.74389
Drilling camp	DC-4	248909	137790	1.24565	30.74357
Drilling camp	DC-5	248834	137934	1.24696	30.74289
Export pipeline	EP-1	249972	137841	1.24612	30.75311
Export pipeline	EP-2	250054	137824	1.24597	30.75385
Export pipeline	EP-3	250165	138096	1.24843	30.75485
Export pipeline	EP-4	250318	138737	1.25423	30.75621
Export pipeline	EP-5	250564	139053	1.25708	30.75843
Export pipeline	EP-6	251397	138956	1.25621	30.76590
Export pipeline	EP-7	252918	139072	1.25727	30.77956
Export pipeline	EP-8	255133	139897	1.26475	30.79945
Export pipeline	EP-9	256260	140229	1.26776	30.80958
Export pipeline	EP-10	256878	140656	1.27163	30.81512
Export pipeline	EP-11	259938	142548	1.28875	30.84260
Export pipeline	EP-12	261100	143218	1.29482	30.85303
Export pipeline	EP-13	261340	143410	1.29656	30.85518
Export pipeline	EP-14	261728	143645	1.29869	30.85866
Export pipeline	EP-15	262268	144079	1.30262	30.86351
Export pipeline	EP-16	263726	145018	1.31111	30.87660
Export pipeline	EP-17	264733	146050	1.32045	30.88564
Export pipeline	EP-18	265243	146401	1.32363	30.89022
Export pipeline	EP-19	267358	147387	1.33256	30.90921
Export pipeline	EP-20	267701	147762	1.33595	30.91229
Export pipeline	EP-21	268859	148559	1.34317	30.92268
Export pipeline	EP-22	269363	148746	1.34486	30.92722
Export pipeline	EP-23	270393	149267	1.34958	30.93646
Export pipeline	EP-24	271426	149662	1.35316	30.94573
Export pipeline	EP-25	273714	150714	1.36269	30.96628
Export pipeline	EP-26	274211	151003	1.36531	30.97075
Export pipeline	EP-27	274673	151187	1.36697	30.97489
Export pipeline	EP-28	275512	151893	1.37336	30.98243
Export pipeline	EP-29	276047	152266	1.37674	30.98723
Export pipeline	EP-30	276624	152559	1.37939	30.99242
Export pipeline	EP-31	277731	153686	1.38959	31.00234
Export pipeline	EP-32	277980	154142	1.39372	31.00458
Export pipeline	EP-33	278269	154470	1.39669	31.00717

Infrastructure	Label	UTM 36N (meters)		Decimal degrees	
		X	Y	North	East
Export pipeline	EP-34	278611	155140	1.40274	31.01024
Export pipeline	EP-35	279961	156301	1.41325	31.02236
Export pipeline	EP-36	280351	156537	1.41539	31.02587
Export pipeline	EP-37	281683	157515	1.42424	31.03783
Export pipeline	EP-38	285037	161588	1.46110	31.06792
Export pipeline	EP-39	285668	161716	1.46226	31.07359
Export pipeline	EP-40	287174	161571	1.46096	31.08713
Export pipeline	EP-41	287175	161533	1.46061	31.08713
Infield pipeline	IP-1	247535	136173	1.23102	30.73124
Infield pipeline	IP-2	247533	136175	1.23104	30.73122
Infield pipeline	IP-3	247615	136273	1.23193	30.73196
Infield pipeline	IP-4	247878	136054	1.22995	30.73432
Infield pipeline	IP-5	247996	136194	1.23122	30.73538
Infield pipeline	IP-6	248078	136319	1.23235	30.73612
Infield pipeline	IP-7	248139	136362	1.23274	30.73666
Infield pipeline	IP-8	248360	136478	1.23379	30.73865
Infield pipeline	IP-9	248502	136518	1.23415	30.73992
Infield pipeline	IP-10	248796	136753	1.23628	30.74256
Infield pipeline	IP-11	248929	136948	1.23804	30.74375
Infield pipeline	IP-12	249126	137112	1.23953	30.74552
Infield pipeline	IP-13	249171	137175	1.24010	30.74592
Infield pipeline	IP-14	249286	137623	1.24415	30.74695
Infield pipeline	IP-15	249516	137550	1.24349	30.74902
Infield pipeline	IP-16	249578	137797	1.24572	30.74958
Infield pipeline	IP-17	249618	137787	1.24564	30.74993
Infield pipeline	IP-18	249625	137997	1.24753	30.75000
Infield pipeline	IP-19	249666	137987	1.24744	30.75037
Infield pipeline	IP-20	249663	138159	1.24900	30.75034
Infield pipeline	IP-21	249735	138463	1.25175	30.75098
Infield pipeline	IP-22	250196	138959	1.25623	30.75512
Infield pipeline	IP-23	250251	139070	1.25724	30.75561
Infield pipeline	IP-24	250402	139588	1.26192	30.75696
Infield pipeline	IP-25	250217	139643	1.26241	30.75530
Infield pipeline	IP-26	250261	139797	1.26381	30.75569
Infield pipeline	IP-27	249700	138617	1.25314	30.75066
Infield pipeline	IP-28	249512	138692	1.25381	30.74898
Infield pipeline	IP-29	249450	138770	1.25452	30.74842
Infield pipeline	IP-30	249547	138846	1.25520	30.74929
Infield pipeline	IP-31	249557	138840	1.25515	30.74938
Infield pipeline	IP-32	249699	138632	1.25327	30.75065
Infield pipeline	IP-33	249830	138762	1.25445	30.75183
Infield pipeline	IP-34	249695	138941	1.25607	30.75062
Infield pipeline	IP-35	248858	137764	1.24542	30.74311
Infield pipeline	IP-36	248733	138010	1.24764	30.74198
Infield pipeline	IP-37	248723	138005	1.24760	30.74189
Infield roads	RD-1	247461	136032	1.22975	30.73057
Infield roads	RD-2	247455	136024	1.22968	30.73052
Infield roads	RD-3	247581	135918	1.22872	30.73165

Infrastructure	Label	UTM 36N (meters)		Decimal degrees	
		X	Y	North	East
Infield roads	RD-4	247614	135948	1.22899	30.73195
Infield roads	RD-5	247704	135988	1.22935	30.73276
Infield roads	RD-6	247804	136002	1.22948	30.73366
Infield roads	RD-7	247889	136026	1.22970	30.73441
Infield roads	RD-8	247634	136238	1.23161	30.73213
Infield roads	RD-9	247628	136232	1.23156	30.73207
Infield roads	RD-10	247966	136103	1.23040	30.73511
Infield roads	RD-11	248073	136272	1.23193	30.73607
Infield roads	RD-12	248146	136340	1.23254	30.73672
Infield roads	RD-13	248379	136461	1.23363	30.73882
Infield roads	RD-14	248512	136498	1.23397	30.74001
Infield roads	RD-15	248836	136768	1.23641	30.74292
Infield roads	RD-16	248959	136938	1.23795	30.74402
Infield roads	RD-17	249139	137088	1.23931	30.74564
Infield roads	RD-18	249192	137169	1.24005	30.74612
Infield roads	RD-19	249270	137111	1.23952	30.74682
Infield roads	RD-20	249415	137212	1.24043	30.74812
Infield roads	RD-21	249562	137473	1.24280	30.74943
Infield roads	RD-22	249579	137542	1.24341	30.74958
Infield roads	RD-23	249571	137509	1.24312	30.74951
Infield roads	RD-24	249604	137535	1.24336	30.74981
Infield roads	RD-25	249834	137408	1.24221	30.75188
Infield roads	RD-26	249862	137521	1.24323	30.75213
Infield roads	RD-27	249306	137636	1.24427	30.74713
Infield roads	RD-28	249036	137725	1.24507	30.74470
Infield roads	RD-29	248873	137783	1.24560	30.74325
Infield roads	RD-30	248847	137829	1.24601	30.74301
Infield roads	RD-31	248882	137846	1.24616	30.74333
Infield roads	RD-32	248835	137853	1.24622	30.74290
Infield roads	RD-33	248567	137718	1.24500	30.74050
Infield roads	RD-34	248500	137850	1.24619	30.73989
Infield roads	RD-35	248509	137853	1.24622	30.73997
Infield roads	RD-36	248767	137986	1.24742	30.74229
Infield roads	RD-37	248731	137967	1.24725	30.74197
Infield roads	RD-38	248730	138039	1.24790	30.74196
Infield roads	RD-39	248641	138079	1.24827	30.74115
Infield roads	RD-40	248470	138040	1.24791	30.73962
Infield roads	RD-41	249403	138035	1.24788	30.74800
Infield roads	RD-42	249231	138081	1.24829	30.74646
Infield roads	RD-43	249459	138271	1.25001	30.74851
Infield roads	RD-44	249463	138370	1.25090	30.74853
Infield roads	RD-45	249432	138506	1.25213	30.74825
Infield roads	RD-46	249457	138598	1.25296	30.74848
Infield roads	RD-47	249538	138651	1.25344	30.74921
Infield roads	RD-48	249469	138741	1.25425	30.74858
Infield roads	RD-49	249488	138760	1.25443	30.74876
Infield roads	RD-50	249652	138651	1.25345	30.75024
Infield roads	RD-51	249710	138676	1.25367	30.75076



Infrastructure	Label	UTM 36N (meters)		Decimal degrees	
		X	Y	North	East
Infield roads	RD-52	249933	138896	1.25566	30.75275
Infield roads	RD-53	249868	138952	1.25617	30.75217
Infield roads	RD-54	249781	138972	1.25635	30.75139
Infield roads	RD-55	249719	138947	1.25612	30.75083
Infield roads	RD-56	249685	138917	1.25585	30.75052
Infield roads	RD-57	250075	138767	1.25450	30.75403
Infield roads	RD-58	250200	138927	1.25594	30.75515
Infield roads	RD-59	250249	139011	1.25671	30.75559
Infield roads	RD-60	250426	139596	1.26199	30.75718
Infield roads	RD-61	250255	139648	1.26246	30.75564
Infield roads	RD-62	250258	139659	1.26256	30.75567
Infield roads	RD-63	250495	139835	1.26415	30.75780
Infield roads	RD-64	250327	139893	1.26467	30.75629
Infield roads	RD-65	250324	139882	1.26458	30.75626
Infield roads	RD-66	250245	138658	1.25352	30.75556
Infield roads	RD-67	250190	138572	1.25274	30.75507
Infield roads	RD-68	250120	138505	1.25213	30.75443
Infield roads	RD-69	249999	138402	1.25120	30.75335
Infield roads	RD-70	249938	138308	1.25035	30.75281
Infield roads	RD-71	249896	138157	1.24898	30.75243
Infield roads	RD-72	249833	138173	1.24912	30.75186
Infield roads	RD-73	249821	138125	1.24869	30.75176
Infield roads	RD-74	249867	138114	1.24859	30.75217
Infield roads	RD-75	249885	138111	1.24856	30.75233
Infield roads	RD-76	249888	138125	1.24869	30.75236
Infield roads	RD-77	250400	138595	1.25294	30.75696
Infield roads	RD-78	250487	138547	1.25251	30.75774
Infield roads	RD-79	250550	138469	1.25181	30.75830
Jetty	J-1	248388	138042	1.24793	30.73889
Jetty	J-2	248400	138044	1.24794	30.73900
Jetty	J-3	248403	138029	1.24782	30.73902
Jetty	J-4	248412	138031	1.24783	30.73910
Jetty	J-5	248407	138069	1.24817	30.73906
Jetty	J-6	248422	138071	1.24819	30.73919
Jetty	J-7	248424	138060	1.24809	30.73920
Jetty	J-8	248436	138062	1.24811	30.73932
Jetty	J-9	248440	138043	1.24794	30.73935
Jetty	J-10	248426	138040	1.24791	30.73923
Jetty	J-11	248429	138034	1.24786	30.73925
Jetty	J-12	248468	138044	1.24795	30.73961
Jetty	J-13	248471	138037	1.24788	30.73963
Jetty	J-14	248339	138009	1.24763	30.73845
Jetty	J-15	248338	138017	1.24771	30.73843
Jetty	J-16	248390	138027	1.24780	30.73890
KF Camp (pipeline construction camp)	KFC-1	272183	150707	1.36262	30.95253
KF Camp (pipeline construction camp)	KFC-2	272367	150828	1.36371	30.95418
KF Camp (pipeline construction camp)	KFC-3	272461	150684	1.36241	30.95502
KF Camp (pipeline construction camp)	KFC-4	272276	150566	1.36134	30.95337

Infrastructure	Label	UTM 36N (meters)		Decimal degrees	
		X	Y	North	East
Lake water intake station	WI-1	249661	138947	1.25612	30.75031
Lake water intake station	WI-2	249705	138947	1.25612	30.75071
Lake water intake station	WI-3	249677	138927	1.25594	30.75046
Lake water intake station	WI-4	249688	138968	1.25631	30.75056
Material yard	MY-1	249080	138228	1.24961	30.74510
Material yard	MY-2	249259	138179	1.24917	30.74671
Material yard	MY-3	249206	137985	1.24742	30.74623
Material yard	MY-4	249029	138035	1.24787	30.74464
Pad 1	P1-1	248490	137892	1.24657	30.73980
Pad 1	P1-2	248721	138009	1.24763	30.74187
Pad 1	P1-3	248802	137850	1.24620	30.74260
Pad 1	P1-4	248571	137732	1.24513	30.74053
Pad 2	P2-1	249672	138933	1.25600	30.75041
Pad 2	P2-2	249769	138811	1.25489	30.75128
Pad 2	P2-3	249605	138681	1.25371	30.74981
Pad 2	P2-4	249528	138709	1.25397	30.74912
Pad 2	P2-5	249474	138776	1.25458	30.74864
Pad 3	P3-1	247595	136257	1.23179	30.73178
Pad 3	P3-2	247732	136142	1.23075	30.73301
Pad 3	P3-3	247566	135944	1.22895	30.73152
Pad 3	P3-4	247429	136059	1.22999	30.73029
Pad 4a	P4-1	250284	139893	1.26468	30.75590
Pad 4a	P4-2	250455	139843	1.26423	30.75744
Pad 4a	P4-3	250389	139620	1.26221	30.75684
Pad 4a	P4-4	250217	139671	1.26267	30.75530
Permanent camp	PC-1	249014	138000	1.24755	30.74450
Permanent camp	PC-2	249215	137935	1.24697	30.74631
Permanent camp	PC-3	249142	137711	1.24495	30.74566
Permanent camp	PC-4	248945	137781	1.24557	30.74389
Permanent camp	PC-5	249088	137854	1.24623	30.74518
Safety check station	CS-1	251402	135848	1.22812	30.76597
Safety check station	CS-2	251532	135766	1.22737	30.76714
Safety check station	CS-3	251476	135649	1.22632	30.76664
Safety check station	CS-4	251380	135675	1.22655	30.76578
Safety check station	CS-5	251424	135776	1.22747	30.76617
Safety check station	CS-6	251409	135636	1.22620	30.76604
Safety check station	CS-7	251508	135605	1.22592	30.76693
Safety check station	CS-8	251613	135599	1.22587	30.76787
Safety check station	CS-9	251548	135370	1.22380	30.76729
Safety check station	CS-10	251343	135443	1.22446	30.76545
Safety check station	CS-11	251376	135800	1.22768	30.76574
Security camp	SC-1	249150	137708	1.24491	30.74573
Security camp	SC-2	249176	137782	1.24559	30.74596
Security camp	SC-3	249318	137737	1.24518	30.74724
Security camp	SC-4	249293	137661	1.24449	30.74701
Temporary camp East	TCe-1	250048	138426	1.25141	30.75379
Temporary camp East	TCe-2	250184	138393	1.25111	30.75502
Temporary camp East	TCe-3	250117	138114	1.24859	30.75442

Infrastructure	Label	UTM 36N (meters)		Decimal degrees	
		X	Y	North	East
Temporary camp East	TCe-4	249911	138163	1.24904	30.75256
Temporary camp East	TCe-5	249944	138291	1.25019	30.75286
Temporary camp East	TCe-6	249995	138376	1.25096	30.75331
Temporary camp West	TCw-1	249824	138387	1.25106	30.75178
Temporary camp West	TCw-2	249950	138357	1.25079	30.75292
Temporary camp West	TCw-3	249924	138301	1.25028	30.75268
Temporary camp West	TCw-4	249887	138169	1.24909	30.75234
Temporary camp West	TCw-5	249778	138195	1.24933	30.75137