Memorandum to the Board of Royal Dutch Shell plc **Group Investment Proposal**

Summary Information

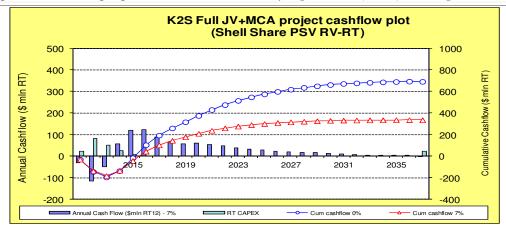
Business unit and

company	Shell Petroleum	Develop	oment Co	ompany	of Nige	ria Lim	ited (SI	PDC)		
Group equity interest	100% in SPDC, JV with a 30% in		s SPDC is	s the Joi	nt Vent	ture (JV) opera	tor of an	uninco	rporated
Other shareholders / partners	Nigeria Nation Production Com				•		, -		1	
Amount	US\$461mln Shel 100% JV estimat FID proposal. 'Shell's MCA con	te of US This pro	\$733.4ml oposal in	ln. US\$9 cludes \$	0.0mln 1 Shell e	100% JV quity sh	V has be	een appr	oved in	the Pre-
Project	Kolo Creek Dee	p Devel	opment a	ınd Eva	cuation	to Soku	ı gas pla	ant.		
Main commitments		Previously approved	Previously approved Pre- FID		Complete	Complete Budget	This Proposal	NNPC MCA	Total Shell Share	Total Shell Share (Equity + Carry)
		Pre-FID	(30% Shell	Requested	Budget	(30% Shell		(36.67% Shell		This
	Description	(100% JV)	Share)	Budget	(100%)	Share)	Share)	Share)	Carry)	Proposal
	NAG Wells			275.1	275.1	82.5	82.5	100.9	183.4	183.4
	Facilities and Pipelines	9.0	2.7	447.2	456.2	136.9	134.2	140.1	276.9	274.2
	Total CAPEX (\$ mln)			722.2	731.2	219.4	216.7	240.9	460.3	457.6
	SCD			11.2	11.2	3.4	3.4		3.4	3.4
	Total OPEX (\$ mln)			11.2	11.2	3.4	3.4		3.4	3.4
	Total Project (\$ mln)			733.4	742.4	222.7	220.0	240.9	463.7	461.0

financing

Source and form of The source of funding for the project is being discussed with the JV partners; the proposal is for this investment to be financed via Alternative Funding (AF). The premise for this proposal is the Modified Carry Agreement (MCA) funding vehicle.

Summary cash flow (Shell Share)



Summary economics (Shell Share)

Summary Economics	NPV7	RTEP (%)	VIR7
(RV-RT12)	(USD mln)		
Base case	336.4	33	0.84
High Capex	327.9	29	0.74

Section 1: The Proposal (Management Summary)

1.1 <u>Management Summary</u>

This Group Investment Proposal requests approval for funding of US461mln Shell Share (\$220mln Equity & \$240.95mln Carry) to progress the execution of the Kolo Creek Deep field development Project. The approval is being sought based on conclusion of the commercial round of the contracting process with the eventual contractor already identified. The wells (Appraisal, F2 & F1) are on the approved Apr 2012 STDWS to be spudded by Mar 2013 and drilled back-to-back ending Dec 2014 on the HPEB129/Replacement rigs. The HPEB129 rig is currently on a contract which will expire in Sep 2012. A one-year extension (till Sep 2013) is planned for HPEB129 while a replacement rig (Hilong19) has already been contracted. The existing contract rates (with escalation) have been used in estimating the well costs.

The Project will develop 1.5Tscf of gas from Kolo Creek Deep to the Soku Gas Plant for processing and sales to NLNG Trains 1 to 6. The project scope includes the drilling/completion of four (4) NAG wells into the F2 reservoir, an additional three (3) NAG wells into the F1 reservoir as well as 1F1 appraisal well. A 20-inch x 40 km pipeline would be installed for evacuation of the production to the Soku gas plant. Peak production is planned at 400 MMscf/d and 40,000 bbl/day of liquid. Production from the F1 and F2 reservoirs will start in Apr 2015.

The project is in the Alternative Funding (AF) tranche in BP11. The JV Partners (NAPIMS & IOCs) have been engaged regarding the cost estimates (facilities, wells and owners cost) and alignment reached. Proposed funding vehicle is the Modified Carry Agreement (MCA).

Considering the strict fiscal and governance regimes surrounding MCA, further review of the project costs and schedule were carried out. The revised costs (post-BP11) are as outlined in Table 1 below.

Table 1: Yearly estimated expenditure (FUS\$ mln)

				COST PI	HASING			
	Previously approved Pre-							
Description	FID	2012	2013	2014	2015	2016	2017	Total
Facilities Capex 100% JV (FUS\$mln) - less PMT& SCD	6.4	50.0	177.7	85.2	55.5	13.6		388.4
Wells Capex 100% JV (FUS\$mln)		0.0	114.1	160.9	0.0	0.0		275.1
Total Capex 100% JV (FUS\$mln) - less PMT&SCD	6.4	50.0	291.8	246.1	55.5	13.6		663.
PMT 100% JV (FUS\$mln)	2.6	12.2	16.0	16.6	14.8	5.5		67.8
Opex 100% JV (FUS\$mln)		2.0	4.4	2.5	1.8	0.5		11.2
Total 100% JV (FUS\$ mln)	9.0	64.2	312.3	265.2	72.1	19.6		742.4
Shell Share Equity (30%)	2.7	19.2	93.7	79.6	21.6	5.9		222.
MCA Carry Shell Share (36.67%)		18.3	107.0	90.3	20.4	5.0		240.9
Total Shell Share (FUS\$ mln)	2.7	37.6	200.7	169.8	42.0	10.9		463.
This proposal Total Shell Share excluding Pre	-FID (FUS\$ mln)						461.0

1.2 <u>Project Background</u>

In 2009 the Gbaran-Ubie Phase 2 project was re-framed and a number of alternative concepts evaluated for the evacuation of the Kolo Creek Deep gas. Taking into consideration the declining Soku production, the resource base in the Soku and Gbaran Nodes, the need to minimize capital investment and optimize SPDC's infrastructure usage, the approved concept is to process the Kolo Creek Deep gas at the existing

Soku gas plant rather than at a new, third gas treatment train at the Gbaran CPF. This option has been presented and agreed by the DRB. The detailed scope and full life cycle costing for the full project work scopes can be found in Appendix 1.

1.3 <u>Previous proposals</u>

In April 2010, a pre-FID investment proposal of \$ 2.7mln (Shell Share) was approved for the Front End Engineering Design, Survey, Land acquisition, and for conducting Environmental Impact Assessment studies for the Kolo Creek Deep to Soku Project.

Section 2: Value proposition and strategic and financial context

Project proposal remains consistent with Shell's strategy of sharper delivery and profitable upstream growth. The proposal also aligns with SPDC JV contractual commitment to supply gas to NLNG.

2.1 <u>Justification for Expenditure</u>

The proposed expenditures are required for the drilling/completion of four (4) gas wells into the F2 reservoir, an additional three (3) NAG wells and one (1) appraisal well into the F1 reservoir as well as the infrastructure for evacuation of the production to the Soku gas plant. These activities must be pursued to enable the start of drilling of the Kolo Creek F2 wells in 2013 and therefore prevent the risk of shortfall of gas supplies to the Soku gas plant and the risk of not being able to maintain SPDC JV gas contractual commitments to NLNG Trains 1 to 6 (Figures 1).

2.2 Production and Reserves

The Kolo Creek Deep development to Soku will develop 1.5 Tscf of gas and 52 MMSTB of condensate from the Kolo Creek F1 and the F2 reservoirs to sustain gas supplies to the Soku gas plant and meet SPDC JV gas supply commitments to NLNG Trains 1 to 6.

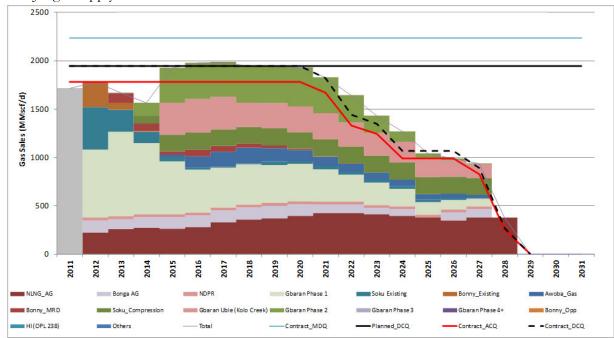


Figure 1: NLNG Trains 1 to 6 supply plot with the optimized 400 MMscf/d Kolo Creek to Soku option

2.3 Summary Economics

The FID economics evaluation was carried out on a forward-looking basis using production forecast and contractors cost provided by the project team. Sensitivity analysis was carried out to determine the values of the project at different production volumes and high CAPEX. Additional risk and uncertainty analysis was also carried out and shows a 100% chance of the project returning a positive NPV. The evaluation assumed funding under the 2008 Modified Carry Arrangement (MCA) terms.

A sensitivity analysis of the current view of the PIB is also included. Results show that the project is still robust (passes the VIR hurdle) even without inclusion of production allowances

The details of the results are in Table 2 and the Tornado Plot and Profitability Plot are shown in Figures 2 & 3 below.

Table 2a: Summary economics grid for Kolo Creek deep to Soku

Table 2a: Summary economi	cs gria ic	or Kolo C	reek dee	ep to So	оки				
Cash flow forward from: 1/1/2012	NPV (S	/S \$ mln)	VIR	RTEP	VTE	UTC \$/b	•	Payout-Time (RT)	Maximum Exposure (RT-AT)
Cash flow forward from: 1/1/2012	0%	7%	7%	0/0		0%	7%	(уууу)	\$mln (yyyy)
Base Case	•	•	•					•	
SV (\$50/bbl & \$1.31/mmbtu RT12)	505.8	234.7	0.59						
RV (\$70/bbl & \$1.74/mmbtu RT12)	692.2	336.4	0.84	31	2.88	2.70	4.05	2015	114.5(2013)
HV (\$90/bbl & \$2.10/mmbtu RT12)	851.4	423.5	1.06						
Oil BEP (RT \$/bbl)		.1	.8		8	8	8	.£	
Sensitivities (using RV)									
High CAPEX (P90)		327.9	0.74	100000					
High Volumes		421.4	1.05	### ### ### ### ######################					
Low Volumes	~	207.1	0.52	-9					
1.5% BVA		326.6	0.80						
1 year Schedule Delay	*	309.6	0.77	~q					
Full Life Cycle	*	335.2	0.83						
PIB	~	111.4	0.28						
JV Funding		339.7	1.79						
Additional Uncertainty and Risk Analysis - using RV									
NPV(P10)		494.1	1.26						
NPV(P90)		246.3	0.63						
EMV at RV		377.7							
Probability of NPV > 0 at RV		100%							
Dispersion = EMV / (NPVP10-NPVP90) at RV		1.3							

Key project Parameters (Shell share)

Parameter	Unit	BP11 Provision	Low	Mid	High	Comments
Capex (MOD)	US\$ mln	209.7	416.5	457.6	502.2	JV +MCA
Opex (MOD)_Project	US\$ mln	NA	NA	40.37	NA	ABC + SCD
Production Volume	mln boe	87.31	42.10	96.80	121.91	improved deferments
Start Up Date	mm/yy	Oct-15		Apr-15		mitigate NLNG gas supply
Production in first 12 months	mln boe			8.8		

Figure 2: Tornado Chart

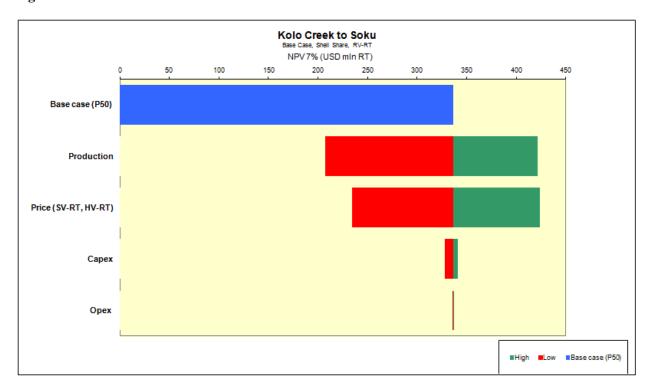
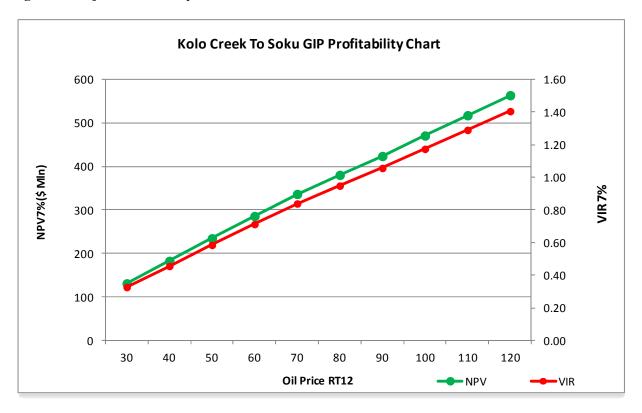


Figure 3: Project Profitability Plot



Economics Assumptions

- Oil price at the three Project Screening Values (PSVs): SV, RV and HV (\$50/bbl, \$70/bbl and \$90/bbl respectively) with applicable offsets.
- NLNG Gas PSV
- Gas taxed under Company Income Tax Act (CITA) with Associated Gas Framework Agreement (AGFA) incentive.
- Education Tax of 2% assessable profit
- NDDC levy of 3% total expenditure
- Gas Heating Value (GHV) of 1150btu/scf for Export gas
- Flare Penalty of \$3.5/Mscf was applied and is not tax deductible
- Abandonment estimated as 10% of total RT CAPEX
- No facility upgrade/replacement required for the project until economic limit.
- SCD Cost was provided by project team
- Activity Based Cost (ABC) Opex provided by project team
- Condensate taxed under Petroleum Profit Tax PPT (PPT tax rate of 85%)

MCA Assumptions

- Profit gas ceiling of 8% IRR on carried costs
- All costs on the MCA would be recovered through cost gas and condensate.
- Current agreement for recovery of carry costs is maintained
- \$70.22/bbl Condensate at PSV RV-RT in 2012
- OPEX and PMT not carried under current MCA arrangement.

PIB Assumptions

- May 2012 version (Technical Committee draft)
- Production Royalty based on Company production rates
 SPDC Oil & Condensate 22% Gas 12.5%
- Price Royalty 4% for Oil/Condensate RV, 0% for Gas RV
- Nigerian Hydrocarbon Tax 50%; Corporate Income Tax 30%
- Community Fund (PHCF) treated as Tax Credit
- No Production Allowances granted for this development.

Section 3: Risks, Opportunities and alternatives

Risks and Mitigation Plans

The project employs a comprehensive Risk and Opportunity Management system, with Risks affecting the Cost and schedule analyzed and worked into the project cost and schedule accordingly. The top project risks and mitigation plans are described below

Funding risks (C, E)

The proposal is for this project to be financed via Alternative Funding (AF) as it is currently not carried on the JV base budget. However delays to conclusion of funding discussions with JV partners could cost additional money and time as project bid validity is due to expire in August 2012

Mitigation: A contingency of 3mths delay to FID and contract award have been included in Schedule Risk analysis (cost within this GIP). Efforts have been intensified at all levels to ensure that the funding discussions are concluded timely

Delay in obtaining NCDMB waiver for Line pipe procurement (E, C, P)

The Nigerian Content Directive (NCD) Act requires that a waiver be obtained for out of country procurement of line pipes less than 24". SPDC has an existing Corporate Line pipe procurement waiver based on the Corporate Line pipe procurement call off contract. However based on NAPIMS directive, line pipe procurement strategy for the project is for EPC contractor to procure. There is therefore the need for the project to obtain the required waiver from NCDMB

Mitigation: Time lost to Contractor ordering of line pipes has been included in the project schedule, to further mitigate the risk; the plan is for Contractor to place the order for the line pipes as soon as EPC contract is awarded. Project is also investigating the possibility of extending SPDC's waiver to cover 3rd party procurement.

Security Risks (P)

The project is located in the Niger Delta, where security issues are particularly significant. This is highlighted by cases of hostage taking, armed attacks and sabotage of, especially, pipeline systems. Additionally, deteriorating Security situation in the Northern part of the Country, in the form of targeted bombing, could migrate down south and requires that this risk be carefully monitored

Mitigation: The amnesty programme of the federal government has helped to calm the security situation although uncertainty still pervades. Detailed project security plan for the project dovetails into relevant operations security plans and would continue to be improved as necessary

Community related Risks (P)

The project straddles 2 states and over 14 main communities, hence the community stakeholder base is large and diverse. Legacy issues from the EGGS2 project have also been identified as the project pipeline largely follows the same RoW. This may lead to community agitations, work stoppages and reputational damage.

Mitigation: Community interfaces will be managed through the Global Memorandum of Understanding (GMoU) mechanism (as detailed in the project SP Plan); this will be deployed in alignment with the project schedule. The Soku end of the project has an existing steady state GMoU and the KoloCreek GMoU is being negotiated. The project will leverage on these. Also an allowance has been made in the project budget for funding of social investment programmes

Project works in Live plant (T)

Project involves work at Soku gas plant and Kolocreek Oil/ NAG manifold. Therefore risks associated with working in and around hydrocarbon and Concurrent operations (COP) work would require careful and focused consideration

Mitigation: COP Requirements included in technical ITT. Also Concurrent operations management plan to be included in the project construction HSE case e.g. tie-in/interface meetings, JHA and PTW etc.

Pressure on Contractor Capacity due to Workload (T,O)

EPC Contractor has multiple worksites and might be over-stretched, leading to possibility of poor performance and slow work progress with attendant impact on cost and schedule

Mitigation: Contractor's capacity and competence to be reviewed during mobilization to site. Also, adequate project management and record keeping during construction will be enforced. In addition, regular updates will be sent to NAPIMS on contractor performance to enable rapid intervention on appearance of any red flags

Changes to drilling sequence for F1 wells (T, P)

Based on the directive from DPR, there is a requirement to drill an appraisal well prior to drilling the F1 wells. However, during BP11, the F1 wells were accelerated to fill gaps in the drilling sequence, in essence, the F2 and F1 wells will now be drilled back-to-back

Mitigation: The appraisal well has now been sequenced for drilling before the F2 wells. The results will be available and presented to DPR before the F1 wells are spudded, following completion of the F2 wells

Alternatives

A. Processing Facility

Following the reframing workshop of Mar 2009, a decision was taken to process the Kolo Creek Deep gas at the existing Soku gas plant rather than at a new, third gas treatment train at the Gbaran CPF as originally conceptualized, for the following reasons

- 1. Declining Soku production
- 2. Resource base in the Soku and Gbaran Nodes
- 3. Need to minimize capital investment and optimize SPDC's infrastructure usage

B. Production Rate

Production rates of 500, 400 and 300 MMscf/d from Kolo Creek to Soku were considered.

The 500 MMscf/d Kolo Creek to Soku option would require a finger type slug catcher and additional condensate stabilization capacity at the Soku CPF since it would be competing with the Awoba NAG project for liquid handling space.

The 300 MMscf/d Kolo Creek Deep to Soku option results in minimum CAPEX, but will not fulfill SPDC supply obligations to the NLNG Trains 1 to 6 in the short term.

Short/Medium term supply obligations can be met with the 400 MMscf/d Kolo Creek to Soku as an optimum production rate.

Section 4: Carbon Management

GHG Emissions for the Kolo Creek Deep Well Development Project over the 10 year forecast period are estimated at 35,510 tonnes of CO2eq, when average production is about 24,000 stbpd (net condensate) and 400 MMSCFD. Fuel gas combustion by the gas engines for electricity generation accounts for 90.8 % of the total emissions, and is the major source of emission in the project. Fugitive emissions from valves and flanges account for 8.95 % of the total GHG emissions. Venting at Kolo Creek RFM due to routine maintenance depressuring accounts less than 0.3 % of the total GHG emissions, while Flaring emissions at Soku LGSP due to pig trap depressuring is insignificant.

Over the forecast period, the total emissions and energy intensities are 0.8 kg CO2 equiv. and 0.013 GJ per Tonne of hydrocarbon produced respectively. Also the SCEI and UEEI are 43 and 0.52 respectively. These are generally low compared to peer facilities in the group. Regarding GHG emissions and energy consumption therefore, this project is considered ALARP.

In addition there are other design considerations or elements, which either have direct impact on emissions or are implemented in order to enable accurate measurement and analysis of energy use and GHG emissions. These include;

- Use of HIPPS instead of relief valve as ultimate safeguard for overpressure protection of downstream facility to avoid relief vent load at Kolo Creek Depressuring philosophy to depressurise the Kolo Creek flowlines at Soku where it will be flared
- 2. Installation of pressure protection on the slug catcher at Soku to reduce demand on installed relief valve. This reduces relief events and consequently reduces flaring emissions at the Soku.
- 3. Provide Vent and Flare Gas Meter respectively to measure and Monitor venting/flaring incidents, frequency and flow rates
- 4. Provide individual fuel gas meters for each gas engine power generator to measure the fuel gas consumed by individual gas engines.
- 5. Provide individual electricity meters for each gas engine power generator to measure the power produced by individual gas engines.

Section 5: Corporate structure, and governance

The existing corporate structure and governance arrangements of SPDC-JV with SPDC as operator still subsist for this investment.

Section 6: Functional Support and consistency with Group and Business Standards

This proposal complies with Shell Group Business Principles, policies and standards. Functional support for this proposal is provided by Projects & Technology (P&T), Finance, Social Performance, Supply Chain Management, HSE, Operations, Legal, Security, Treasury and Tax functions.

Section 7: Project management, monitoring and review

This is a "P&T executed" project delivered by the UIG/T/PD Major Projects team. The ORP compliant governance structure is in place, including a project specific DRB, DE and BOM. A Project Control and Assurance Plan (PCAP) has been approved to define the applicable controls for the EXECUTE phase.

Section 8: Budget Provision

It is proposed that at FID, the project budget requirement will be from the alternative funding tranche. In line with current AF agreements, it is expected that project FID OPEX and project management costs will continue to be funded via the regular JV budgetary process.

Section 9: Group Financial Reporting Impact

The estimated yearly expenditure phasing for the full project work scopes is indicated in Table 1.

US\$ mln	Prior Years	2012	2013	2014	2015	2016	Post 2016
Total Commitment	+0.0	+40.3	+200.7	+169.8	+42.0	+10.9	+0.0
SCD OPEX	+0.0	+0.6	+1.3	+0.8	+0.5	+0.1	+0.0
Pre-FID	+0.0	+2.7	+0.0	+0.0	+0.0	+0.0	+0.0
Cash Flow							
Capital expenditure	+0.0	+37.0	+199.4	+169.1	+41.5	+10.7	+0.0
Cash Flow from Operations	+0.0	+4.5	+72.3	+112.2	+122.5	+152.9	+927.7
Cash Surplus/(Deficit)*	+0.0	-32.4	-127.1	-56.8	+81.0	+142.2	+927.7
Profit and Loss							
NIBIAT +/-	+0.0	-0.1	+8.8	+7.8	+73.3	+106.9	+756.3
Balance Sheet							
Average Capital Employed	+0.0	+16.2	+100.3	+200.5	+229.0	+207.5	+49.7
Impact on ROACE (EP)	+0.0	-0.04%	0.19%	0.09%	2.01%	3.31%	n/a

Section 10: Disclosure

Material disclosure, if any, will be done in line with the Group Disclosure Guidelines.

Section 11: Financing

The pre-FID portion of this investment has been financed with JV funding. It is expected that financing for the main project scopes shall be through the MCA funding mechanism. Formal sign-off is being finalized with JV partners. However, it is planned to make commitments upon NAPIMS approval of MCA figures.

Section 12: Taxation

There are no unusual taxation features.

Section 13: Key Parameters

Approval is sought for additional US\$461mln (Shell Share), to progress Engineering, Procurement and Construction works, drilling/completion of 7 NAG and 1 appraisal wells and the infrastructure for evacuation of production to the Soku gas plant from the Kolo Creek Deep field.

Section 14: Signatures

This Proposal is submitted to the Board of Royal Dutch Shell plc for shareholder approval.

Supported by:		For Submission:
Simon Henry		Peter Voser
Chief Financial Officer		Chief Executive Officer
Date://		Date:/
Supported		
•		
Andrew Brown	Mathias Bischel	
ECAB	ECMBi	
Date:/	Date://	

Appendix 1: Details and Cost Estimate (MOD 100% JV) for the Kolo Creek Deep Field Development to Soku

The scope of the Kolo Creek Deep field development consists of the following:

- 1. Drilling and completing of four NAG wells to develop 0.92Tscf from the Kolo Creek Deep F2 reservoir.
- 2. Drilling of one appraisal well into the F1 reservoir
- 3. Drilling and completing of three NAG wells to develop 0.54Tscf from the Kolo Creek Deep F1 reservoir.
- 4. Construct a remote field manifold at the Kolo Creek Oil and NAG Manifold Location
- 5. Install (on-plot) flowlines from the wells to the Kolo Creek NAG manifold
- 6. Install a 20-inch diameter, 40 km long carbon steel pipeline from the Kolo Creek Manifold to the Soku gas plant designed to evacuate 400 MMscf/d of gas and 40,000 bbl/d of condensate from Kolo Creek NAG Manifold.
- 7. Installation of a slug catcher at the Soku gas plant and connection to existing production, control and safeguarding systems.

Details of the cost estimate (MOD 100% JV) for the full scope of the Kolo Creek Deep Field Development to Soku Project can be found below.

50/50 MOD Cost Estimate (US\$ mlr	1)
Description	
Location Preparation	35.8
Drilling and Completion	239.3
Pipeline and Hook-up	104.2
NAG Facilities* (inclusive of PMT, VAT & Owners Cost)	352.0
Total CAPEX (100% JV)	731.2
SCD	11.2
Total OPEX (100% JV)	11.2
Total (100% JV)	742.4
Total (Shell Share)	463.7

Thingency 01 12.29%, (ii) 0% Feel linies: 17% 4 wells: 0% 6 with profile of the califines of the calification contracts. Civil instructive estimates were based on ongoing as well as recently completed pipeline of the californius of	Project Popular & Control Applied & Verified, Not Applied & Verified & V	The first of the f	Duplex flowlines & monitoria, slug cardner, plg trop systems and fie-in estimates have been built using CRPCOST based on my monitorial translations on the EED deliverables. Pipeline estimates were based on ongoing as well as recently completed plpeline and the plants of the CS 2013 Latest latest and plants of the CS 2014 Latest latest latest and personal translations of the Late 2014 Completed to the CS 2014 Completed for the CS 2014 Completed broad to the CS 2014 Completed for the CS 2015 CS	Duplex flowlines & monitolds, slug cardners, pig trop systems and fie-in estimates have been built using GPROST based on many monitolds. Subjective estimates were based on ongoing as well as recently completed puppling the description contracts. Civil instructive estimates were based on ongoing as vol 21 Ceptal for 50 To 10 Library installation contracts. Civil instructive estimates were based on ongoing profile. Well contract packed brotest among the state of calculate project confingencies. Owners costs were deviced brotest many genits with entire contractived brotest many establishes and the series and ongoing projects with similar activities. Probabilistics task analysis using etter dark ongoing projects with similar activities. Probabilistics are developed to in the with provision of the task of contract package will be used for pipelines, facilities and their works. She preparation required for well drilling operations will be used for pipelines, facilities and their works. She preparation required for well drilling operations will be used to provide quality establishes and the schedule durations are used to provide quality establishes. Probabilistics for the schedule contract package have been negotated in them prices for taking the contract package have been negotated on impaint prices for calculations revises in the design, procurement, between the contract package have been negotated on impaint protes for calculations revises in the design, procurement, between the contract package have been negotated as unpaint protes for calculations revises in the design, procurement, between the contraction required and unpaint protes for taking the project states. Profect Strategies to used to provide quality establishes, contract and preferment short and provided and unpaint protests. Extractly communities is tested to unique states and the certification revises in the design, procurement, and the contract package have been negotated on impaint projects. The project states are contracted with temperation of th	Duplex flowlines & manifolds, slug cardner, plig trop systems and tie-in estimates there been built using GAPCOST based on more information of the complex flown that PEED (seeked) in the most of the complex flown to the complex flown to the complex flown to make the complex flown to the complex flown t	initial Schedule and ongoing as were breased on when better down compresses. The OZ SOTS (Lenst Trial Informative EV) and when the South of the Case OLIVIO Compresses of the South of the OZ SOTS (Lenst Trial Information contracts.) The OZ SOTS (Lenst Trial Information contracts.) The OZ SOTS (Lenst Trial Information when the South of South Contract which services the Case of the South of South Compresses of the South OC So
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-Ket Escalation & EPC Premium (ii)	ilities 296 ells> 296 ells> 296 reprise Framework Agreements (EFA's): Project Applied \ Verified, Not Applied \ Verified, Not Paplied \ (int. Insurance, pre-780, Taxes & Capitalized interest) feet Escalation & EPC Premium (ii) 49	94 (ii) muimarq 3q3 & noitalazaza fəyl	090 019 090 090 090 090 090 090 090 090	noine and a noine	004 070 070 004 070 843	000 020 01d 000 000 000 000 000 000 000 000 00
-Ket Escalation & EPC Premium (ii)	ilities 296 ells> 296 ells> 296 reprise Framework Agreements (EFA's): Project Applied \ Verified, Not Applied \ Verified, Not Paplied \ Verified (i)	94 (ii) muimarq 3q3 & noitalazaza fəyl	090 019 090 090 090 090 090 090 090 090	noine and a noine	004 070 070 004 070 843	000 020 01d 000 000 000 000 000 000 000 000 00
-Ket Escalation & EPC Premium (ii)	ilities 296 296 296 296 296 296 296 296 296 296	94 (ii) muimarq 3q3 & noitalazaza fəyl	090 019 090 090 090 090 090 090 090 090	noine and a noine	004 070 070 004 070 843	000 020 01d 000 000 000 000 000 000 000 000 00
-Ket Escalation & EPC Premium (ii)	ilities 296 296 296 296 296 296 296 296 296 296	94 (ii) muimarq 3q3 & noitalazaza fəyl	090 019 090 090 090 090 090 090 090 090	noine and a noine	004 070 070 004 070 843	000 020 01d 000 000 000 000 000 000 000 000 00
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rket Escalation & EPC Premium (ii)	ilities 2966 ells> 2967 ells> 2967 riprise Framework Agreements (EFA's) : Project Applied \ Verified, Not Applied \ 244 Nets Cost (i) (incl. Insurance, pre-RID, Taxes & Capitalized interest) 62 49	Pket Escalation & EPC Premium (ii)	010 psq 014	noine and noine	010 PSO	000 020 01d 090 000 000 000 000 000 000 000 000 00
rket Escalation & EPC Premium (ii)	ilities 296 296 296 296 296 296 207 208	(ii) muimerq 2q3 & noitalasa 2 red	090 019 090 090 090 090 090 090 090 090	noine and a noine	004 070 070 004 070 843	000 020 01d 000 000 000 000 000 000 000 000 00
(ii) muimarg 293 & noitalassation (ii)	ilities 296 296 296 296 296 296 296 296 207	(ii) muimərq 2q3 & noinələs 3 red	090 019 090 090 090 090 090 090 090 090	noine and a noine	004 070 070 004 070 843	000 020 01d 000 000 000 000 000 000 000 000 00
(ii) muimarg 293 & noitalassation (ii)	ilities 296 296 296 296 296 296 207 208	(ii) muimərq 2q3 & noinələs 3 red	090 019 090 090 090 090 090 090 090 090	noine and a noine	004 070 070 004 070 843	000 020 01d 000 000 000 000 000 000 000 000 00
(ii) muimarg 293 & noitalassation (ii)	ilities 296 296 296 296 296 296 207 208	(ii) muimərq 2q3 & noinələs 3 red	010 P50 P90	100 P50 P90 P90	069 019 019 843	090 010 090 010 050 043 043
rket Escalation & EPC Premium (ii)	1940 Cost (i) (incl. inverses, pre-19b) taxes & capitalized interest) 1960 296 2044 2044 2045 2046 2046 2046 2046 2046 2046 2046 2046	7ket Escalation & EPC Premium (ii)	O6d O5d O1d	O6d OSd Old	06q 02d 01d	090 029 019
rket Escalation & EPC Premium (ii)	ilities 296 [15] 296	Pket Escalation & EPC Premium (ii)	06d 05d 01d	06d 05d 01d	069 019 019 843	090 029 019
rket Escalation & EPC Premium (ii) thingency (i) 17.28%, (ii) 0% Facilities: 17% <wells>: 0% 58</wells>	ilities ells> 296 ells> 200 clines Framework Agreements (EFA's) : Project Applied / Verified, Not Applied ners Cost (i) (incl. Insurance, pre-RD, Taxes & capitalized interest) fixed Escalation & EPC Premium (ii) 49 40 40 40 40 51 40 62 40 63 63	rket Escalation & EPC Premium (ii) (49 (ii) (ii) (iii) (iii) (49 (iii)	06d 05d 01d	06d 05d 01d	06d 05d 01d	090 029 019
rket Escalation & EPC Premium (ii) thingency (i) 17.28%, (ii) 0% Facilities: 17% <wells>: 0% 58</wells>	1940 cells 2940 cells	rket Escalation & EPC Premium (ii) (49 (ii) (ii) (iii) (iii) (49 (iii)	O6d O5d O1d	O6d OSd Old	06q 02d 01d	090 029 019
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rket Escalation & EPC Premium (ii) that Escalation & Epc Premium (iii) that Escalation & Ep	1940 Cost (i) (incl. Incurance, pre-7fl), Taxas & Capitalized interest) West Excalation & EPC Premium (ii) Applied (ii) (iii) (iver) Whingency (i) 17.28%, (ii) 0% Facilities: 17% < Wells>: 0% (Wells>: 0% (Wells>: 0%) (Wells	rket Escalation & EPC Premium (ii) 49 white the facilities 17% Wells>: 0% S8	06d 05d 01d	O6d OSd Old	06q 02d 01d	090 029 019
rket Escalation & EPC Premium (ii) 94 82	1948 cells 1949 center 1949 cells 1949	rket Escalation & EPC Premium (ii) (ii) (ii) Receilities: 17% (iii) (iii	06d 05d 01d	O6d OSd Old	06d 08d 01d	069 019 019 054 019 019 019 019 019 019 019 019 019 019
rket Escalation & EPC Premium (ii) 49 40 40 40 40 40 40 40 40 40	ilities 296 ells> sperise Framework Agreements (EFA's): Project Applied / Verified, Mot Applied vers Cost (i) (incl. Insurance, pre-740, Taxas & capitalized interest) viest Excalation & EPC Premium (ii) 49 49 49 49 49 49	rket Escalation & EPC Premium (ii) (ii) (ii) (و4) (اii) (ii) (اii) (اiii) (اii) (اiii) (06q 02q 01q	06d OSq Old	069 059 019	06q 02q 01q
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rket Escalation & EPC Premium (ii) thet Escalation & EPC Premium (ii) thingency (i) 17.28%, (ii) 0% Facilities: 17% < Wells>: 0% 58	1940 cells 2940 cells	rket Escalation & EPC Premium (ii) (ii) (ii) (49 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	06q 02q 01q	06d 05d 01d	06q OSq O1q	06d 05d 01d
'ket Escalation & EPC Premium (ii) (ii) (49 الاعتداد) المنافعة ال	itities 1940	(ii) Minimium & EPC Premium (ii) 49 49 15.0% (ii) Minimium (iii) 49 49 15.0% (iii) Minimium (iii) 49 49 49 49 49 49 49 49 49 49 49 49 49	06d 05d 01d	06d 05d 01d	06q 08q 01q	06d 05d 01d
**************************************	ilities 296 ells> 296 riprise Framework Agreements (EFA's) : Project Applied / Verified, Not Applied (incl. incurrence, pre-Rio, Taxas & Capitalized interest) Vest Escalation & EPC Premium (ii) 49 49 49 49 49 49 49	*Net Escalation & EPC Premium (ii) (ii) (ii) (49) (iii) (ii) (49) (iii)			670 742 843	670 742 843
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rket Escalation & EPC Premium (ii) that Escalation & Epc Premium (iii) that Escalation & Ep	1 States of the	rket Escalation & EPC Premium (ii) 49 white the facilities 17% Wells>: 0% S8			670 742 843	670 742 843
rket Escalation & EPC Premium (ii) 49 (40 (ii) 17.28%, (ii) 60 (iii) 60 (ii	1000 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest) 100 Cost (1) (mcl. Insurance, pre-18), Taxas & Capitalized interest (1) (mcl. Insurance, pre-18), Taxas	rket Escalation & EPC Premium (ii) 49 thingency (i) 77.28%, (ii) 76.28%, (iii) 77.28%, (iii) 77.28%, (iii) 77.28%, (iii) 77.28%, (iii) 77.28%, (iii) 77.28%, (iiii) 77.28%, (iiiiii) 77.28%, (iiiiii) 77.28%, (iiiiii) 77.28%, (iiiiii) 77.28%, (iiiiii) 77.28%, (iiiiiii) 77.28%, (iiiiiiii) 77.28%, (iiiiiiii) 77.28%, (iiiiiiiii) 77.28%, (iiiiiiiiiii) 77.28%, (iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii			910 142 843	910 142 843
rket Escalation & EPC Premium (ii) thingency (i) 77.28%, (ii) 0% Facilities: 17% < Wells>: 0% anion 33	silities 296 195 196 197 296 197 296 296 296 297 296 297 298 29	rket Escalation & EPC Premium (ii) 49 thingency (i) 7.28%, (ii) 7.28%, (iii) 65 thingency (iii) 7.28%, (iii) 65 thingency (iv) 7.28%, (iii) 65 after Escalation & Examina (iii) 65 and after Examina (iii) 64 and 64 and 65	CAT OTA	CAT OTA	700	700
*Net Escalation & EPC Premium (ii) (ii) (ii) (ii) (iii) (iiii) (iii) (ii	read Cost (i) 72.25%, (ii) 0% Feelintiens: 17% < Wells>: 0.90	*Net Escalation & EPC Premium (ii) 49 أمانية الموامدي المرابعة ال			700	7,000
**Cet Escalation & EPC Premium (ii) **Collines: 17% **Wells>: 0% **All Tables (ii) **All Tables (iii) **All Tables (iii) **All T	ilities ells> 296 stronework Agreements (EFA's): Project Applied / Verified, Not Applied vert Scot (i) (incl. Internet, pre-780, Taxas & Capitalized Internet) vert Escalation & EPC Premium (ii) dingency (i) 17.28%, (ii) ox Facilities: 17% < Wells>: 0% anion PSO PSO PSO PSO PSO PSO PSO PSO PSO PS	1/6et Escalation & EPC Premium (ii) 49 49 49 40 58 40 58 40 58 40 50 40 60 60 60 70	7,01	7,000		-14%

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Project Completion

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Kretzers, Rob

EVP Projects

Project Manager

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Name:

Date:

Mes, Hans

VP Project Services

DCAF TA 1

Version 2.0 Confidential

Project No.: 06629

Lifecycle HCM Forecast Sheet Gbaran Ubie Phase 2B (KoloCreek to Soku) Project Obaran Nigeria

ory for Upstream and mandatory for Exploration, Development and NBD projects ≥ US\$ 100 min SS,

but strongly	recommended	for all proje	cts < 10	0 mln US\$

OIL/NGL	Date		ospective es Additions			2C Conting	ent Resource	es Additions			PRI	MS 2P Resen Additions	/es		roved Additions	
[min bbl]	(Play and/or	Prospect	Dev. Not	Dev. Und	larified Hold	Dev. Pending	Dev. Pending	Dev. Pending	Dev. Pending	Undev	eloped	Developed	Undev	Developed	Annual Production
DG/Key event	(mm)-yy	Lead	Prospect	Viable	Unclarified	On Hold	Pre-DG1	Post-DG1	Post-DG2	Post-DG3	Post DG3	Post-DG4	Developed	Undev	Developed	
IP a event	Pa dale	tPa Flatigati Ado	of the Propert Add	IFa NV Ndt	Shar Distribution As	Fr. H25 141	## Predent No.	So Posición Ad	(F) POMOVE AN	(Fe PWDD) Ad	Pa Pts(0/33 Un	Pa Post0/54 Un	IFz De Add	IPa SEC Under	IPa_SEC_Dev_Add	Fa_Arm_Pron
DG1	Jun-05															
DG2	Jun-06															
DG3	Aug-09										16.8			4.4		
FID	Nov-12															
OSD	Oct-15															
				_												
	-		-													
			-													
			-													
	2013												-			0.0
	2014															0.0
	2015	0.0	0.0	0.0		0.0	0,0	0.0	0.0	0.0	-10.9		10.9	-3.0	3.0	1.0
	2016	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	-5.9		5,7	-1.4	1.7	2.1
	2017	0.0	0.0	0.0	-	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	3.4	2.0
	2018	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	5.0	1.6
	2019	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	2.6	1.6
	2020	0.0											0.0		1.0	1.4
	2021												0.3		0,3	1.4
	2022															1.2
	2023															0.9
	2024															0.7
	2025															0.6
	2026															0.5
	2027															0.4
	2028															0.3
	2029															0.2
	2030															0.2
	2031															0.1
	2032															0.1
	2033	_														0.1
	2034			-												0.1
	2035	-				-										0.0
	2036				-											0.0
-	2037		_													0.0
	2039		_													0.0
	2040															0.0
	2041			1												0.0
	2042															0.0
-	2043															0.0
	2044															0.0
	2045															0.0
	2046															0.0
later years																0.0
Total		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	0.0	16.8	16.8

			spective ources			2C Co	ntingent Res	ources			PR	MS 2P Reser	ves		roved erves
OIL/NO		Play	Dunament	Dev. Not	Dev. Unc	larified Hold	Dev.	Dev. Pending	Dev. Pending	Dev. Pending	Undev	eloped	Davidanad	Undev	Davidanad
		and/or Lead	Prospect	Viable	Unclarified	On Hold	Pending Pre-DG1	Post-DG1	Post-DG2	Post-DG3	Post DG3	Post-DG4	Developed	Ondev	Developed
ARPR 1.1.2011	before last	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.6	0.0	0.0	4.4	0.0
ARRR 1 1 2012	lost	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	0.0	0.0	4.4	0.0

GAS	Date		2U Prospective sources Additions	2C Contingent Resources Additions						PRMS 2P Reserves Additions			SEC Proved Reserves Additions				
[bln sm3]	(mm)-yy	Play and/or	Prospect	Dev. Not	Dev. Unclarified or On Hold		Dev. Dev. Pending Pending	Dev. Pending	Dev. Pending	Dev. Pending	Undeveloped		Developed	Undev	Developed	Annual Production	
DG/Key event	(111117-33	Lead	Flospect	Viable	Unclarified	On Hold	Pre-DG1	Post-DG1	Post-DG2	Post-DG3	Post DG3	Post-DG4	Developed	Developed	Ondev	Developed	
DG1	Jun-05																
DG2	Jun-06															1 1	
DG3	Aug-09										12.63			3.76		1 1	
FID	Nov-12															1 1	
OSD	Oct-15															1 1	
										29						1 1	
																1 1	
																I I	
																1 1	
										- 0						1 1	
																1 1	
	2013	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00						0.00	
	2014	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00						0.00	
	2015	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	-8.28		8.28	-2.67	2.67	0.50	
	2016	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	-4.35		4.35	-1.09	1.15	1.09	
	2017	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00	1.09	
	2018	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	2.07	0.97	
	2019	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	3.86	1.03	
	2020	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.50	0.00	1.87	1.00	
	2021												0.50		1.07	1.07	
	2022														0.00	1.02	
	2022														0.00	0.88	
	2023														0.00	0.75	
	2024																
					_										1.00	0.65	
	2026														0.50	0.56	
	2027															0.48	
	2028				-											0.41	
	2029															0.36	
	2030															0.31	
	2031															0.26	
	2032															0.21	
	2033															0.12	
	2034											*				0.11	
	2035															0.09	
	2036															0.08	
	2037															0.07	
	2038															0.03	
	2039																
	2040																
	2041																
	2042			2							100	100					
	2043																
	2044																
Per de la companya del companya de la companya del companya de la	2045				8 2					\$			1				
	2046																
later years		0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	0.00		
Total		0,0	0.0	0.0	0,0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13.1	0.0	13.1	13,13	

Gas [bln sm3]		2U Prospective Resources		2C Contingent Resources							PRMS 2P Reserves			SEC Proved Reserves Additions	
		Play and/or Lead	Prospect	Dev. Not Viable	Dev. Unclarified or On Hold		Dev. Pending	Dev. Pending	Dev. Pending	Dev. Pending	Undeveloped		Developed	Undev	Developed
					Unclarified	On Hold	22-23-23-23-24	Post-DG1	Post-DG2	Post-DG3	Post DG3	Post-DG4		Ondev	Developed
ARPR 1.1.2011	before last	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.89	0.00	0.00	3.83	0.00
ARPR 1.1.2012	last	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.13	0.00	0.00	3.76	0.00

	VP Technoical (or VP-X)
Date :	
Name:	

Date: Name: Signature : RDL-RE (RXC or RXHM) 21-June-2012 Osayanda Igielian Singuelia

СН	ECK
additions	d reserves minus cum uciton
2P Reserves Developed	SEC Proved Developed

0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
9.8	1.9
13.4	
11.4	2.8
9.7	6.2
8.1	7.1 6.7
6.7	6.7
5.5	5.5
4.3 3.4	4.3
	3.4
2.6	2.6
2.1	2.1
1.6	1.6
1.2	1.2
1.0	1.0
0.7	0.7
0.5	0.5
0.4	0.4
0.3	0.3
0.3	0.2
0.1	0.1
0.1	0.1
0.1	0.1
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	0.0
0.0	
0.0	0.0
0.0	0.0
	0.0 numbers are

developed reserves additions minus cum produciton						
2P Reserves Developed	SEC Proved Developed					
0.00	0.00					
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0.00	0.00					
0.00	0.00					
7.78	2.17					
11.04	2.23					
9.94	1.14					
8,97	2.24					
7.94	5.07					
7.44 6.37	5.94					
5.35	4.87					
	3.85					
4.48	2.98					
3.72	2.22					
3.08	2.58					
2.52	2.52					
2,04	2.04					
1,63	1.63					
1.27	1,27					
0.97	0.97					
0.71	0.71					
0.50	0.50					
0.38	0.38					
0.27	0.27					
0,18	0.18					
0.10	0.10					
0.03	0.03					
0.00	0,00					
0.00	0,00					
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