PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LTD
DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED
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FACSIMILE TRANSMISSION

To: **BIDDER**

Attn: **To Whom it may Concern**

Ref.: 2334/**PVEPPOC-PPM** Date 10th Nov., 2025

No. of page(s) *(including this cover sheet):* 26

SUBJECT: **BID BULLETIN #02 – IMPORTANT NOTICE**

TENDER TITLE: **PROVISION OF ELECTRICAL LOGGING SERVICES FOR DRILLING & COMPLETION PROGRAM FOR DAI HUNG NAM FIELD DEVELOPMENT, BLOCK 05-1(A), OFFSHORE VIETNAM**

TENDER No.: **PVEPPOC-DRL-2025-025**

If you have not received the full text of this letter, please call (84-28) 3776 2222

Dear Sir/Madam,

Reference is made to the above-mentioned Tender, DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED (hereinafter referred to as "CLIENT") hereby would like to provide you the Bid Bulletin #02 – Important Notice as per the attachment enclosed herewith.

Thank you very much for your attention.

Yours faithfully,

For and On Behalf of CLIENT

TRUONG TUAN ANH
Deputy Director
Cc: BOM, PPM, SSF

Visa:
- *SSF:* .....
- *PPM:* .....

ATTACHMENT OF BULLETIN #02
TENDER No.: PVEPPOC-DRL-2025-025

Item No.	ITB Section/Reference	CLIENT's update
1	ITB CONTRACT FORM: EXHIBIT I - SPECIAL PROVISION AND SCOPE OF WORKS	At the place wherein mentioned suitable, the Drilling Program is updated as follows: In the event that the CLIENT requires the **Provision of Electrical Logging Services** on 10th August 2026, the CONTRACTOR is kindly requested to confirm the service availability at the Mobilization Site at that time., 1st Period (Phase 1): is divided to two options: Option 1A: tentatively start on 15th October 2026 Option 1B: tentatively start on 10 August 2026
2	All other remaining ITB documents	All other remaining ITB documents remain in full effect

APPENDIX I (OPTION 1B)

PROVISION OF ELECTRICAL LOGGING SERVICES FOR DRILLING & COMPLETION PROGRAM FOR DAI HUNG NAM FIELD DEVELOPMENT, BLOCK 05-1(A), OFFSHORE VIETNAM

TABLE OF CONTENTS

I GENERAL INFORMATION

- ✓ AREA OF OPERATIONS: WHP-DHN, Block 05.1a; Offshore Vietnam.
- ✓ 1st Period WELL NAME:
  - **Firm:** DHN-1X, DHN-2X, DHN-4X, DHN-1P, DHN-2P.
  - **Optional:** 1 Workover and 1 Exploration wells.
- ✓ 2nd Period WELL NAME:
  - **Firm:** DHN-3P, DHN-4PI, DHN-5PI, DHN-6PI.
  - **Optional**: 1 Exploration well.
- ✓ WELL TYPE:
  - Tie-back + Production + Production/Injection wells for Firm wells.
  - Exploration for Optional wells.
- ✓ START TIME:

  + 1st Period: Tentative on 15 August 2026.

  + 2nd Period: Tentative on 9 July 2027.
- ✓ ESTIMATED TIME:
  - **1st Period:** 177 days for Firm wells + 92 days for Optional wells.
  - **2nd Period:** 92 days for Optional wells + 171 days for Firm wells + 61 days for Optional wells.
- ✓ WATER DEPTH: +/-109m.
- ✓ RIG TYPE: Jack up 400ft WD.
- ✓ DELIVERY MODE: "Call-out" basis.

1. Well information

1.1. Information for the Firm wells

Total of 9 Wells: 3 tie-back/production, 3 production and 3 injection/production wells with well Targets are at Thông – Mang Cau formation (Carbonate) from H44 – H76.2.

WHP	Well name / Type		Slot	Note
DHN	DHN-1X	Production	#5	Block A7 (H44-H95)
	DHN-2X		#9	Block A8 (H44-H80)
	DHN-4X		#6	Block A7.2 (H44-H76.2)
	DHN-1P		#1	Sidetrack from DHN-3X (H44-H76-2) Block A7.2
	DHN-2P		#2	Block A8 (H46-H76.1.3)
	DHN-3P		#3	Block A7.1 (H50-H76.1)
	Total: 6			
	DHN-4PI	Production/ Injection	#4	Block A7.2 (H44-H76.2)
	DHN-5PI		#7	Block A8 (H50-H76.1.3)
	DHN-6PI		#8	Block A7.1 (H46-H76.1)
	Total: 3			

1.2. Information for the Optional wells

Well Classification	Location	Well Quantity	Period	Note
Exploration	Open Water - DH Field	2	1 well at 1st Period 1 well at 2nd Period	Drill & DST
Workover	WHP-DH02 - DH Field	1	at 1st Period	Re-completion

2. Well Structure

2.1. Well Structure for Production/Injection Well

26" hole/20" conductor x 16" hole/13-3/8" casing x 12-1/4" hole/9-5/8" casing.

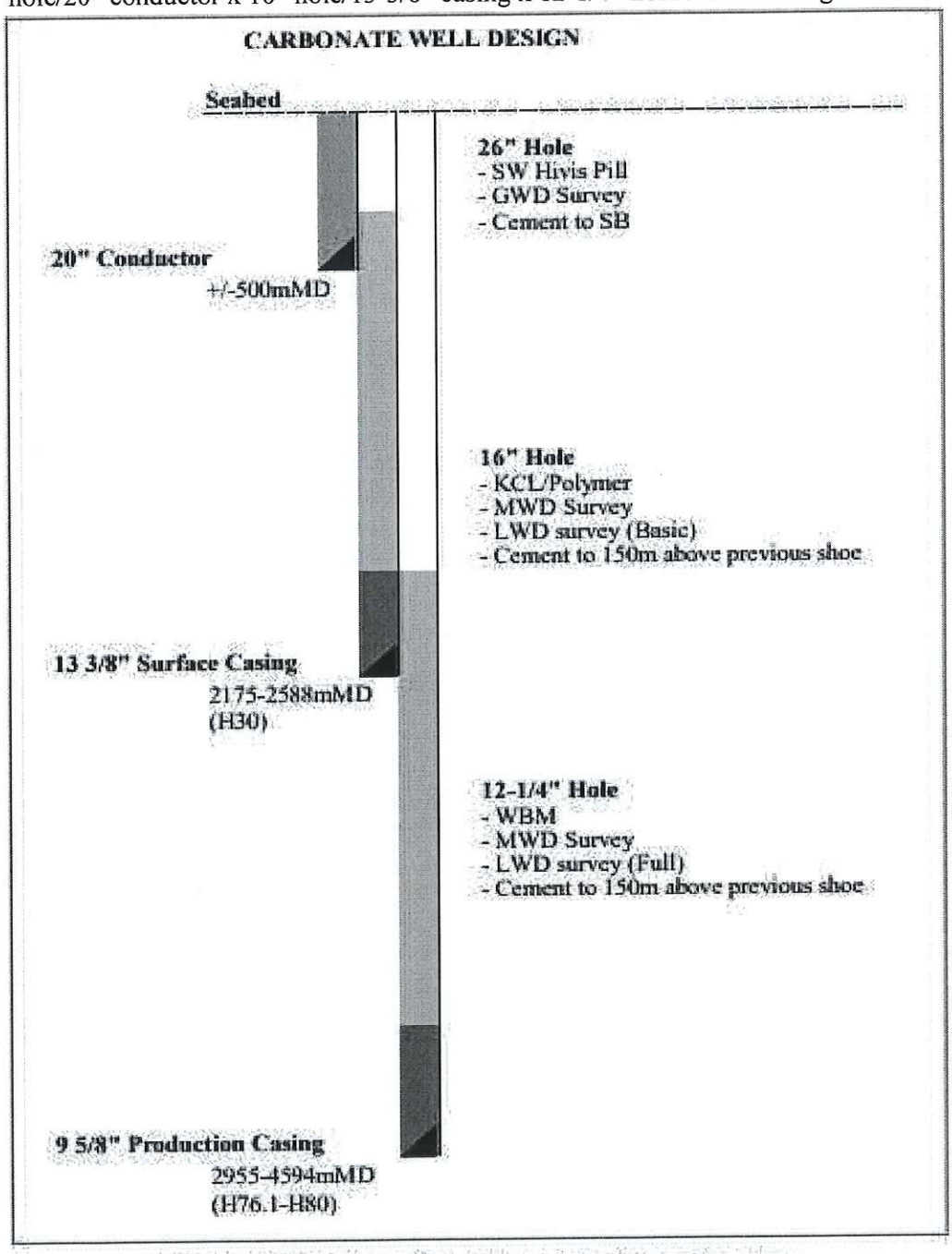
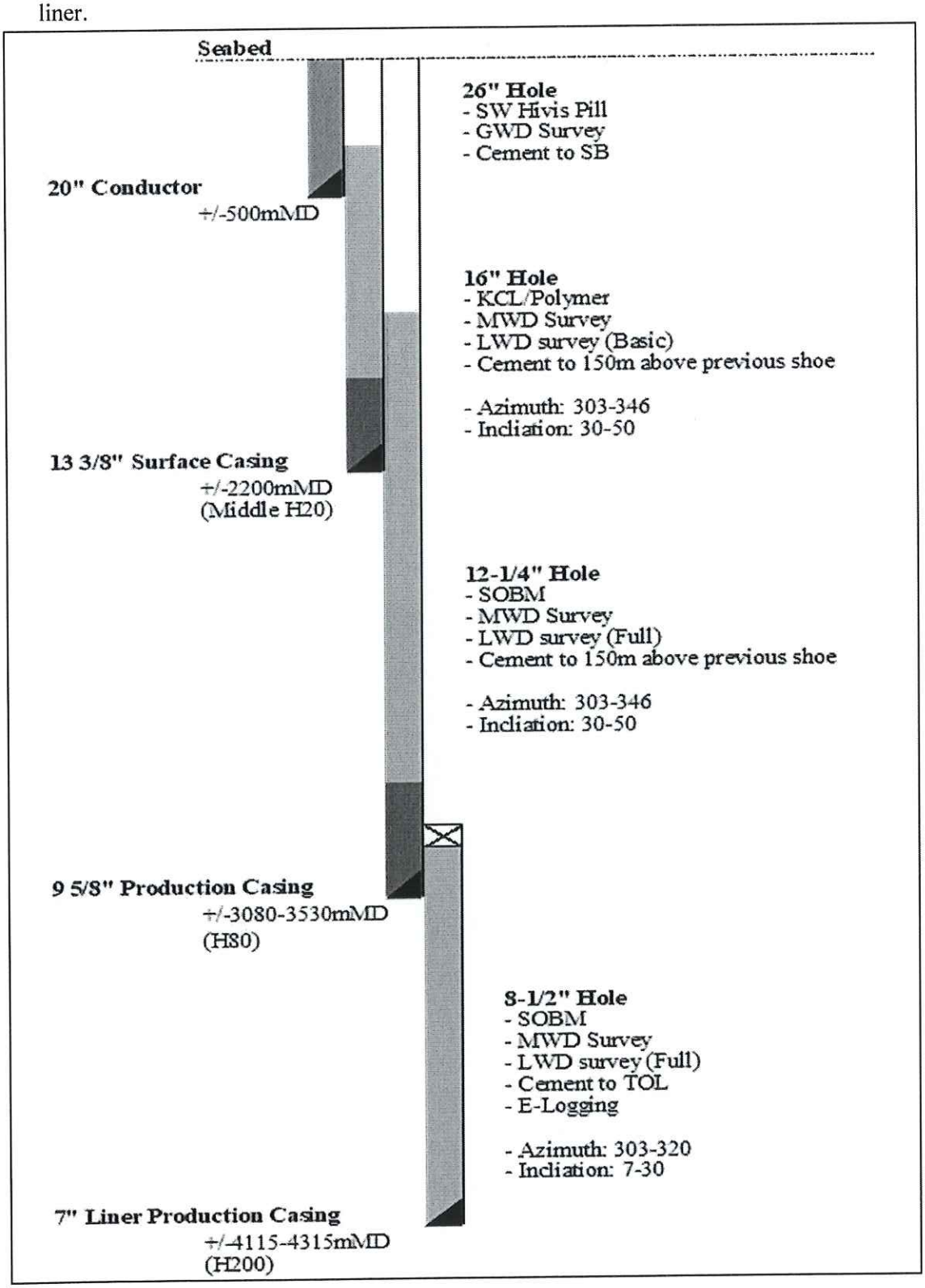


Figure 1: Typical well Structure for Production/Injection

2.2.Exploration Well Structure

26" hole/20" conductor x 16" hole/13-3/8" casing x 12-1/4" hole/9-5/8" casing x 8-1/2" hole/7" liner.



2.3. Well Structure for Sidetrack wells

Tie-back 20" Conductor & 13-3/8" Casing. Cut 9-5/8" casing & Sidetrack 12-1/4" hole/9-5/8" casing x 8-1/2" hole/7" liner.

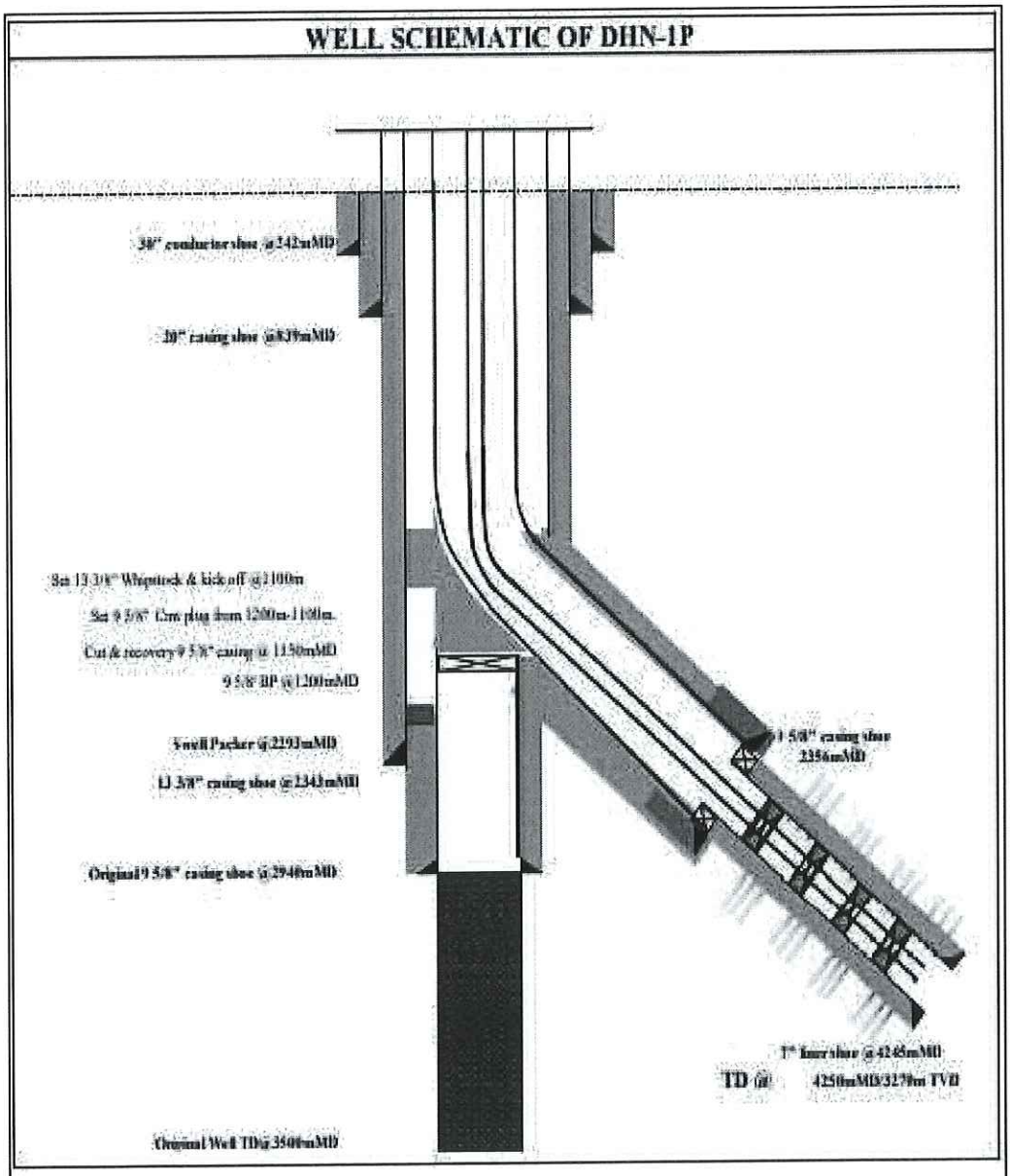


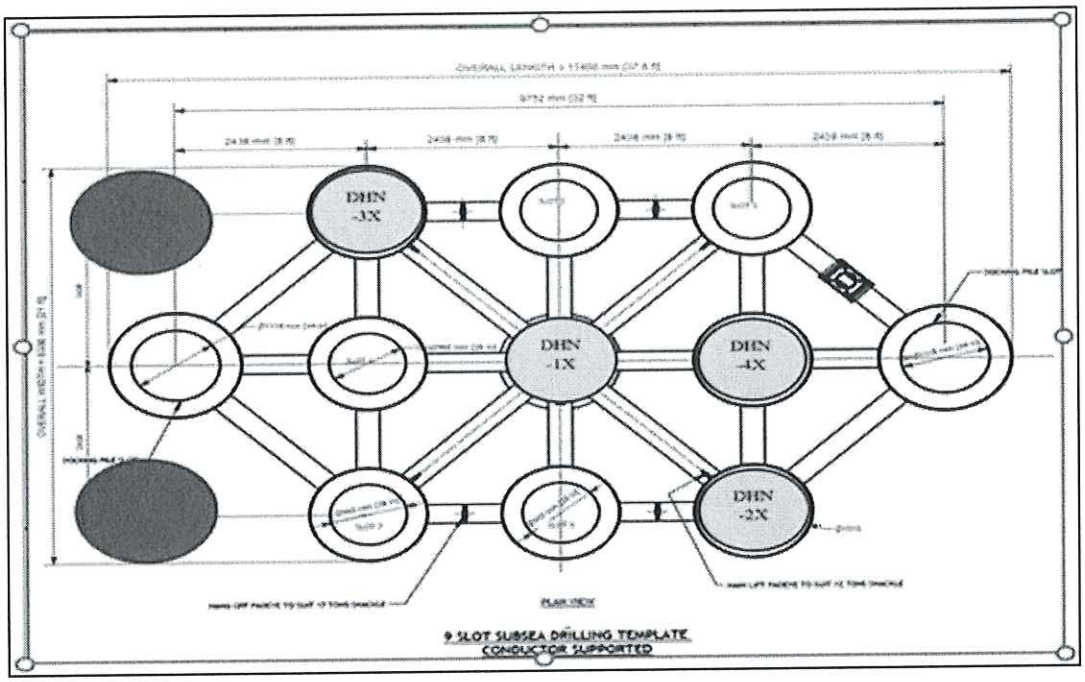
Figure 2: Well Structure (Sidetrack) for DHN-1P

2.4.Structure for Tie-back Wells

- ✓ DHN-4X and DHN-2X: Tie-back 20" Conductor, 13-3/8" Casing, 9-5/8" Casing from seabed to surface.
- ✓ DHN-1X: Tie-back 20" Conductor, 9-5/8" Casing from seabed to surface. Tie-back 7" from +/-3,257m to surface.

3. Well lay out and drilling schedule

11 Slots: 2 slots (Dual for future wells – Blue color) + 9 slots x 20" Conductor.



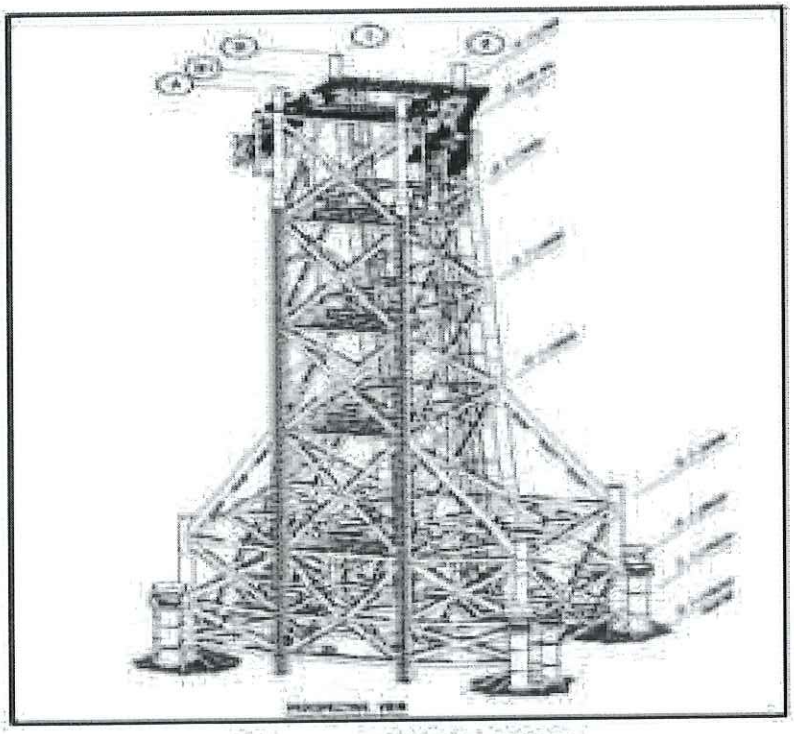
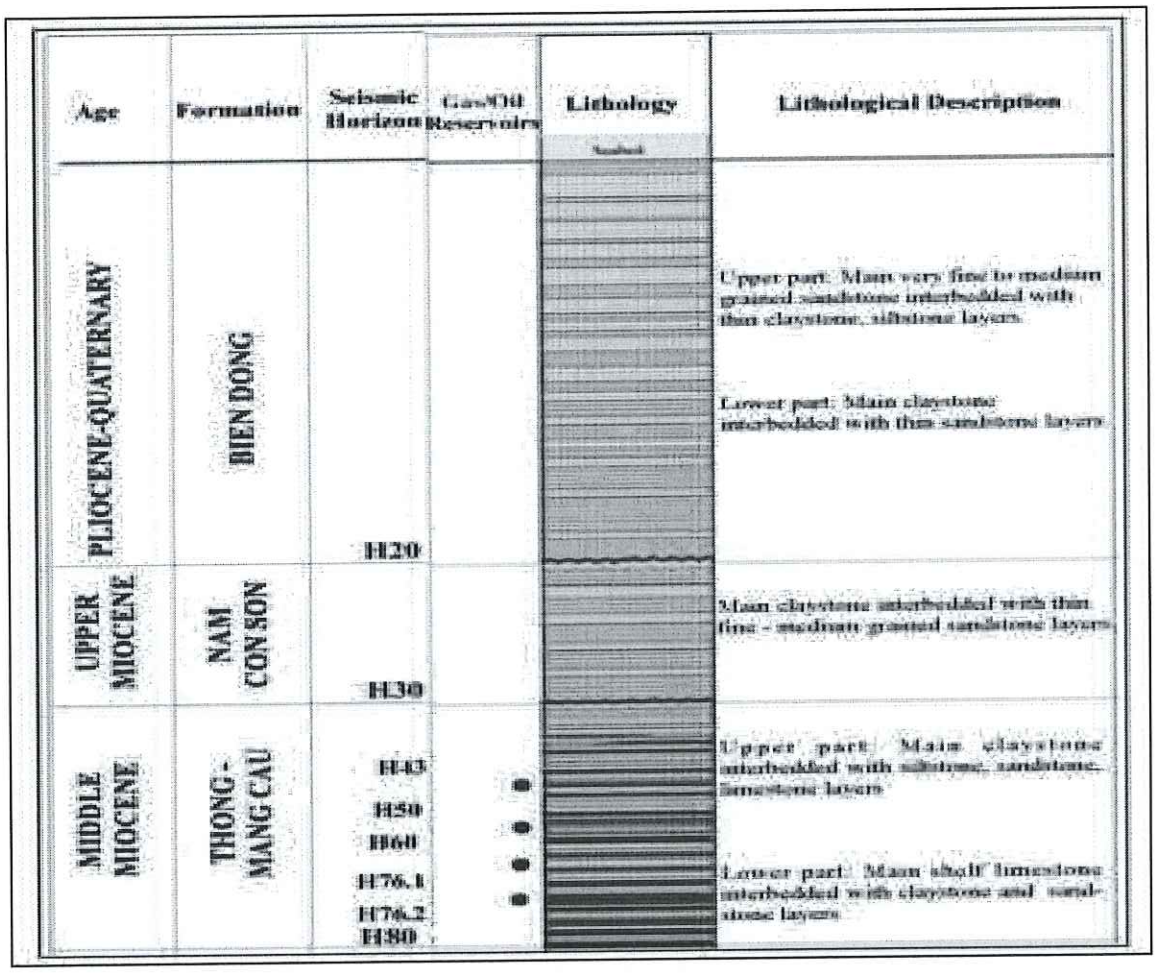


Figure 6: WHP-DHN

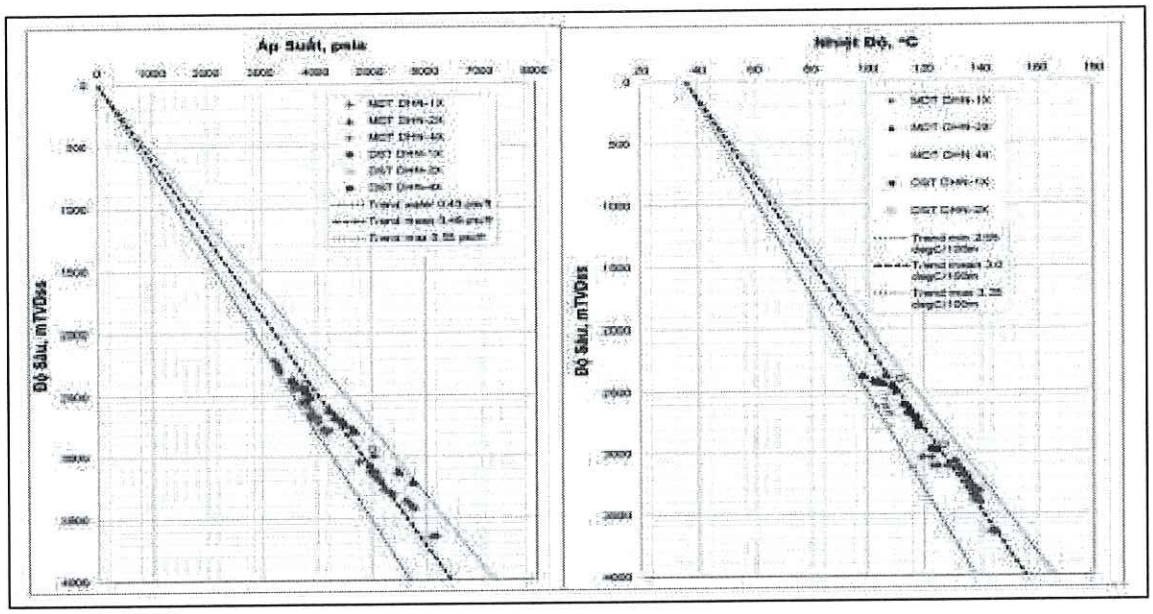
4. Basic Geological well information

The well is expected normal temperature and normal pore pressure.

4.1. Lithology



4.2.Pressure, Temperature Profiles



5. Well Design

5.1. Casing program

5.1.1. Casing program for Production/injection wells

20" conductor x 13 3/8" casing x 9 5/8" casing

Hole Size (in)	Depth (mMD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
26	400-600	20	X-56	133/169	Quick Connection	Conductor 169ppf from seabed to surface
16	2,050-2,600	13-3/8	L80/N80	68	BTC Connection	Casing shoe at top of H30
12 1/4	2,900-4,600	9-5/8	L80	47	Premium Connection	Casing shoe at top of H80

Figure 7: Casing Specification for Production/Injection Well

5.1.2. Casing program for Exploration wells

Hole size (in)	Depth (MD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
26	500	20	X-56	133	Quick connection	
16	500-2,200	13 3/8	L80/L80	68	BTC Connection	Casing shoe at Middle H20
12 ¼	2,200 3,530	9 5/8	L80	47	Premium Connection	H-80
8 1/2	3,530 4,315	7"	L80	29	Premium Connection	7" Liner (H200)

5.1.3. Casing program for Sidetrack well

Tie-back 20" Conductor & 13-3/8" Casing. Cut 9-5/8" casing & Sidetrack 12-1/4" hole/9-5/8" casing x 8-1/2" hole/7" liner.

Hole Size (in)	Depth (mMD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
	160	20	X-56	169	Quick Connection	Tie-back
	160	13-3/8	L80/N80	68	BTC	Tie-back
12-1/4	2,360	9-5/8	L80	47	Premium	Casing shoe set at Top of H30
8-1/2	4,250	7	L80	29	Premium	7" liner

Figure 8: Casing Specification for Sidetrack Well

5.1.4. Casing program for tie back wells

Hole Size (in)	Depth (mMD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
	160	20	X-56	169	Quick Connection	Tie-back
	160	13-3/8	L80/N80	68	BTC	Tie-back
	160	9-5/8	L80	47	Premium	Tie-back
	4,250	7	L80	29	Premium	7" liner (DHN-1X only)

6. Drilling Fluid Program

Depth (mMD)	Hole Size(in)	Mud Type	Mud Weight (ppg)	FV sec	PV cps	YP lb/100ft²	API FL (cc)
400 – 600	26	SW/Hi-vis Sweep	8.8 – 9.2	>80	ALAP	>35	
2,175-2,588	16	SW/Hivis –Sweep/ KCL/Gel/Polymer	8.8 – 9.7	45-65	ALAP	20-35	<8
2,356-4,594	12-1/4	SBM/OBM	9.5-10.5	45 - 70	ALAP	25 - 40	<3
4,250	8-1/2	SBM/OBM (DHN-1P only)	9.5 – 10.5	45 - 70	ALAP	25 - 40	<3
Completion		Cacl2/NaCl	10-11				

Figure 9: Drilling Fluid Program

7. Cementing Program

Hole size – Casing size	Setting depth	Cement interval		Slurry		Remark
	mMD/	Top (m)	Bottom (m)	Density (ppg)	Recipe	
26"x20"	400-600	Seabed	Shoe	14.0	Single G cement	150% excess in OH or lead up to seabed.
16" – 13-3/8"	2,170-2,580	150-200 inside previous shoe	Top tail	12.8	Lead G cement	Excess: 50% in OH or 15% Carbide bomb
		+/- 250 above shoe	shoe	15.8	Tail G cement	
12-1/4" – 9-5/8"	2,350-4,590	150-200 inside previous shoe	Top tail	12.8	Lead Blended/LW cement	Excess: 25% in OH or 10% Caliper.
		+/- 250 above shoe	shoe	14.5	Tail Blended/LW cement	
8 ½" – 7" liner (DHN-1P only)	4,250	Top of Liner	Liner shoe	14.5	Single Blended/LW cement	Excess: 25% in OH or 10% Caliper.

Figure 10: Cementing Program

8. Bit Program

Hole size (in)	Bit Type/IADC	Nozzle /32"	Bit Performance					
			From (m)	To (m)	Interval (m)	WOB (kips)	RPM	GPM
26	Mill tooth (1.1.5)	3x18, 1x22, 3x16	110	500	390	5-15	80- 100	500-950
16	PDC (M423)	9x12	500	2,175/ 2,588	± 2,000	15-35	80-150	950-1050
	TCI (1.1.5)							
12-1/4	PDC (M223/M323)	7x14	2,175/ 2,388	2,955/4,594	+ 2,000	15-25	60-150	640-1050
	TCI (519/215)							
8-1/2 DHN-1P	PDC (M223/M323)	5x14/ 6x13	2,356	4,250	± 1,900	10-30	80-150	400-600
	TCI (447/215/519)							

Figure 10: Bit Program

9. BHA Program

Hole size (in)	Interval (mMD)	BHA Program
26	0 – 500	26" Bit + 9-1/2'' Mud Motor + 9-1/2'' Stab + 9-1/2'' MWD (GWD) + 9-1/2" DC + X/O + 8-1/4'' DC + X/O + 8" Jar + X/O + 15x5-1/2" HWDP
16	500 – 2,175/2,588	16" Bit + 9-1/2" Mud Motor + 16" Stab + 9-1/2'' MWD + 9-1/2'' LWD + X/O + 9-1/2'' MWD + X/O + 6x8-1/4" DC + 8" Jar + 2x8-1/4" DC + X-Over + 15x5-1/2" HWDP
12-1/4	2,175/2,588 – 2,955/4,594	12-1/4" Bit + RSS + 12-1/8" Stab +9-1/2'' MWD + 9-1/2'' LWD (Full Option) + X/O + 11-3/4'' Stab + 6x8-1/4" DC + 8" Jar + 2x8-1/4" DC + X/O + 15x5-1/2" HWDP
8-1/2 DHN-1P	2,365–4,250	8-1/2" Bit + RSS + 8-3/8" Stab + 7'' MWD + 7'' LWD (Full Option) + X/O + 3x6-1/2'' DC + X/O + 12x5-1/2" HWDP + X/O + 6-1/2" Jar + X/O + 5x5-1/2" HWDP

Figure 12: BHA Program for Development Campaign

10. Drilling and Completion Schedule

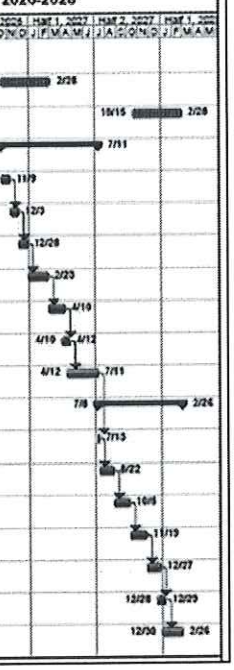
For 1st Period: Tentatively start in Oct 2026 & Complete in Apr 2027.

For 2nd Period: Tentatively start in July 2027 & Complete in Dec 2027.

In the event that the CLIENT requires the ***Provision of Electrical Logging Services*** on 10th August 2026, the CONTRACTOR is kindly requested to confirm the service availability at the Mobilization Site at that time.

PVEP-POC (Block 05-1(a))-DRILLING, DST, COMPLETION & WO WELLS SCHEDULE IN 2026-2028

ID	Task Name	Duration	Start	Finish
1	**Block 05-1(a) Drilling Schedule**	**500 days**	**Oct 15 '26**	**Feb 26 '28**
2	Moonson Season in 2026-2027	137 days	Oct 15 '26	Feb 28 '27
3	Moonson Season in 2027-2028	137 days	Oct 15 '27	Feb 28 '28
4	**Development & WO and Exploration Wells (1st Period)**	**269.5 days**	**Oct 15 '26**	**Jul 11 '27**
5	Tie-back & Completion DHN-4X	26 days	Oct 15 '26	Nov 9 '26
6	Tie-back & Completion DHN-2X	23.5 days	Nov 10 '26	Dec 3 '26
7	Tie-back & Completion DHN-1X	25 days	Dec 3 '26	Dec 28 '26
8	DHN-1P (Tie-back, Sidetrack Drilling & Completion)	56.5 days	Dec 29 '26	Feb 23 '27
9	DHN-2P (Drilling & Completion)	46 days	Feb 23 '27	Apr 10 '27
10	Infill Rig move	2 days	Apr 10 '27	Apr 12 '27
11	Workover and Drill Exploration well	90 days	Apr 12 '27	Jul 11 '27
12	**Development & WO and exploration wells (2nd Period)**	**233.5 days**	**Jul 8 '27**	**Feb 26 '28**
13	Rig approach WHP-DHN & Prepare for Operation	5 days	Jul 8 '27	Jul 13 '27
14	DHN-3P (Drilling & Completion)	39.5 days	Jul 14 '27	Aug 22 '27
15	DHN-4PI (Drilling & Completion)	43.5 days	Aug 23 '27	Oct 5 '27
16	DHN-5PI (Drilling & Completion)	45 days	Oct 6 '27	Nov 19 '27
17	DHN-6PI (Drilling & Completion)	38 days	Nov 20 '27	Dec 27 '27
18	Infill Rig move	2 days	Dec 28 '27	Dec 29 '27
19	Exploration well (Drill & DST)	59 days	Dec 30 '27	Feb 26 '28



II SPECIAL PROVISIONS

II.1 Work Site(s)

The Work Site(s) shall be the Drilling Rig(s) at the well location designated by CLIENT.

II.2 Mobilization Date

CLIENT shall give CONTRACTOR at least seven (7) days advance notice for the initial mobilization for CONTRACTOR designated "Call-out" Equipment and CONTRACTOR designated "Call-out" Personnel. The subsequent mobilization throughout the duration of CONTRACT will be on twenty-four (24) hours on a "call-out" basis.

II.3 CONTRACTOR Contract Administrator

CONTRACTOR hereby appoints, as CONTRACTOR's Contract Administrator ***<<To be provided and specified by CONTRACTOR>>*** or his appointee designated by him in writing.

II.4 CLIENT Contract Administrator

CLIENT hereby appoints, as CLIENT Contract Administrator, the **Director** or his appointee designated by him in writing.

II.5 CLIENT Representative(s)

CLIENT hereby designates the **Director, Drilling Manager, Drilling Superintendent, Senior Drilling Engineers and Drilling Supervisors** as CLIENT Representatives.

II.6 **Mobilization Site for CONTRACTOR Equipment**

The Mobilization Site for CONTRACTOR Equipment shall be the CLIENT's Warehouse at PTSC Supply Base, Vungtau, S.R. Vietnam or any other mutually agreed location.

II.7 **Demobilization Site for CONTRACTOR Equipment**

The Demobilization Site for CONTRACTOR Equipment shall be at CLIENT Warehouse at PTSC Supply Base, Vungtau, S.R. Vietnam or any other mutually agreed location.

II.8 **Mustering Point for CONTRACTOR Personnel**

Southern Vietnam Helicopter Company's Helibase in Vung Tau or Ho Chi Minh City (if required by CLIENT) or PTSC Supply Base, Vungtau for all CONTRACTOR's Personnel.

II.9 **CLIENT Warehouse and Base Facility**

Vungtau, S.R. Vietnam.

II.10 **CONTRACTOR Warehouse and Base Facility**

<<To be provided and specified by CONTRACTOR>>

II.11 **CLIENT Operations Office**

15th Floor, Victory Tower, 12 Tan Trao Street, Tan Phu Ward, Ho Chi Minh City, S.R. Vietnam.

II.12 **CONTRACTOR Operations Office**

<<To be provided and specified by CONTRACTOR>>

II.13 **Commencement Date of CONTRACT**

The time and date when CONTRACTOR mobilize the first CONTRACTOR Equipment to the Mobilization Site or the first Personnel at the Mustering Point.

II.14 **Commencement of Rates**

The applicable rates as defined in **EXHIBIT IV** hereof shall commence on the Commencement Date of CONTRACT. No payable rates shall be payable throughout mobilization and demobilization of CONTRACTOR Equipment or CONTRACTOR Personnel.

The applicable rates as defined in **EXHIBIT IV** hereof shall commence upon physical mobilization.

II.15 **Point of Origin**

CONTRACTOR Point of Origin is at Vung Tau or other location designated by CLIENT for CONTRACTOR's Personnel that are to be furnished under this CONTRACT.

II.16 **Delivery Schedule**

Initial delivery date and the following time CONTRACTOR shall deliver CONTRACTOR Equipment and Products at the designated Mobilization Site on the date stipulated in the Request for EQUIPMENT/MATERIALS/SERVICES issued by CLIENT.

CONTRACTOR agrees that CLIENT shall have the right to change or to amend the quantity of the CONTRACTOR Equipment. Any increase in quantity shall be subject to CONTRACTOR's agreement in advance.

If other means of transportation are required due to failure of CONTRACTOR to meet committed delivery period, additional costs to be incurred shall be to CONTRACTOR's account.

Delivery schedule for Contractor's equipment and personnel to be available in Mob/Demobilization Site upon receipt of Client's EQUIPMENT/ MATERIALS/ SERVICES REQUISITION under DAP Vung Tau base Incoterm 2010 upon requested WORK ORDER.
Lead time for delivery of CONTRACTOR's equipment and personnels is required as follows:

- Unit & equipment 04 weeks
- Purchase GOODS 8-10 weeks
- "Call out" equipment 14 days
- Personnel 7 days

II.17 **Request for WORKS**

A request for Provision of the electrical logging services shall be either via telex, facsimile, telephone or verbal instructions to be followed by telex or facsimile from CLIENT's Contract Administrator.

II.18 **Duration of CONTRACT**

The duration of the CONTRACT shall be as per **ARTICLE 3.**

II.19 **"Call-Out" of CONTRACTOR Personnel**

As and when directed by CLIENT on " Call-out" basis.

II.20 **"Call-Out" of CONTRACTOR Equipment**

CONTRACTOR shall make available CONTRACTOR Equipment at CONTRACTOR Warehouse in Vung Tau, Vietnam for delivery to the Work Site as requested by CLIENT on "Call-out" basis.

II.21 **Completion of WORKS**

Completion of WORKS shall be achieved when the operations described in **EXHIBIT I-2.0** on the last well designated by CLIENT has been completed and CONTRACTOR has been notified in writing by CLIENT.

II.22 **Demobilization of CONTRACTOR Equipment**

Upon completion of WORKS on the last well designated by CLIENT, CONTRACTOR shall make ready all Equipment for offloading onto the supply vessel(s). CONTRACTOR shall be responsible for the removal of CONTRACTOR's Equipment from the designated Demobilization Site. Rental shall cease when CONTRACTOR Equipment reaches the Demobilization Site.

II.23 **Release of CONTRACTOR Equipment**

CLIENT shall have the right to release any of the CONTRACTOR Equipment for any reason whatsoever within twenty-four (24) hours. CLIENT shall endeavor to notify CONTRACTOR of its intent to release any of CONTRACTOR Equipment as soon as such decision is known. However, CLIENT shall continue to pay the applicable rental rates until the CONTRACTOR Equipment has been delivered and reached to the Demobilization Site. CONTRACTOR shall promptly prepare for demobilization whatever portion of CONTRACTOR Equipment that is to be released and shall assist CLIENT in the loading-out of the said equipment. CONTRACTOR shall be on hand at the Demobilization Site to take delivery of such equipment.

II.24 **Re-engagement of CONTRACTOR Equipment**

CLIENT shall have the option to re-engage any released CONTRACTOR's Equipment.

II.25 **Release of CONTRACTOR Personnel**

CLIENT shall give CONTRACTOR at least five (5) days advance notice of release of any designated personnel. However, subject to terms and conditions of main contact body hereto, CLIENT shall have the right to release without prior notice any of CONTRACTOR Personnel, who, in CLIENT's opinion, are or could be detrimental to the performance of the WORKS or interest of CLIENT.

II.26 CONTRACT Closure

CONTRACTOR shall submit to CLIENT a "CONTRACT CLOSURE LETTER" and "CONTRACT CLOSURE CERTIFICATE" as per format shown in **APPENDIX X-6** and **APPENDIX X-7** respectively.

II.27 Health, Safety and Environment Requirement

CONTRACTOR shall provide necessary tools, equipment and written procedure to make sure all hazards listed in **APPENDIX VI-5** are addressed.

CONTRACTOR is required to develop the action plan (or written procedure) for each hazard listed in **APPENDIX VI-5** (where and when applicable) prior to the commencement of WORKS.

II.28 Changes

II.28.1 Should CLIENT desire any change to the CONTRACTOR's Equipment, it shall advise CONTRACTOR of said request. CONTRACTOR shall, upon request from CLIENT, provide CLIENT within fourteen (14) days a CHANGE PROPOSAL defining the terms and conditions shall include but not limited to price, method of payment, earliest commencement date and any other information deemed necessary.

II.28.2 When and if CLIENT approves the CHANGE PROPOSAL, CLIENT will issue to CONTRACTOR a written CHANGE ORDER in duplicate originals in the form shown in **APPENDIX IX-2** herein, CONTRACTOR shall sign both duplicate originals of the CHANGE ORDER to indicate its receipt, understanding and acceptance of it. Execution by CLIENT, one duplicate original will be returned to CONTRACTOR.

II.28.3 Should the Parties agree to the terms and conditions, including but not limited the Price, and Method of payment, the change shall be made.

III REQUEST OF SERVICES

A request for ***Provision of Electrical Logging Services*** shall be in the form of EQUIPMENT/MATERIALS/SERVICES REQUISITION provided in EXHIBIT X-INVOICING PROCEDURES & ADMINISTRATION GUIDELINES and duly signed by COMPANY's Representative(s) who are specified in Item II.5 above.

Technology Transfer Incentive (TTI)

CONTRACTOR is encouraged to submit to CLIENT a TECHNOLOGY TRANSFER INCENTIVE (TTI) plan, it also will be a consideration in the bid evaluation exercise. This shall include but not limited to Manufacturing site visits, technology training for CLIENT's personnel, technical workshops.

Work Order Request

Work Order Request applicable for requesting additional Equipment/ Materials/ Services to be furnished pursuant to this CONTRACT but the rates have not been specified in EXHIBIT IV – CONTRACT PRICE AND PRICE LIST.

Any request for Equipment/ Materials/ Services under Work Order Request category shall within the scope of this CONTRACT and shall be made in writing using WORK ORDER REQUEST format shown in EXHIBIT IX.

The Work Order Request shall state the scope of each "Equipment/ Materials/ Services" Work Site, commencement date, applicable rates, reimbursable cost to CONTRACTOR by CLIENT and other details with respect to the Work Order Request and should there be a conflict, the CONTRACT shall prevail.

IV SCOPE OF WORKS

The equipment listed is proposals only for this operation and do not constitute a commitment by CLIENT to rent or purchase all items. The actual quantities and equipment to be supplied will be detailed in a Call-out instruction issued by CLIENT.

The WORKS is defined and described by, but not necessarily limited to any or all of the following:

IV.1 Equipment and Personnel

IV.1.1 CONTRACTOR shall provide and deliver a well maintained and in good operating condition of equipment as listed in technical specification or elsewhere in the Published Price List, to designated Mobilization Site upon request by CLIENT.

IV.1.2 CONTRACTOR shall ensure that all CONTRACTOR's Equipment is in good working condition prior to the mobilization to the Work Site.

IV.1.3 Equipment shall be inspected and stacked up to CLIENT's satisfaction before sending to offshore for installation.

IV.1.4 CONTRACTOR shall service, and function test all Equipment prior to the mobilization to Work Site.

IV.1.5 CONTRACTOR shall provide sufficient spare parts at the Work Site to maintain the Equipment in good working order.

IV.1.6 CONTRACTOR shall provide Hardware & Explosive include Transportation for drilling support (estimate 03 wells) with the requirement of utilizing Company's Hardware & Explosive available in stock (All Company's Hardware & Explosive available in stock detail as table below). Store and handling the explosive inventory as per the authority regulations

Item	Description	P/N	Unit	Quantity for 03 wells
	Shaped Charges / Cutter			
1	CHARGE ASSEMBLY 4539 PREDATOR XP HMX	F190680604	EA	96
2	CHARGE JRC 2003026 2.0" TP TBG SLIMKONE	F233939000	EA	150
3	CHARGE, ASSEMBLY 2007 PREDATOR ZX HMX	F154910704		180
	Detonating Cord / Booster			
4	CORD DETNTR "REPKD F/AIR" 80grHMX/XHV PS	F180600113	FT	500
5	CORD DETNTR "REPKD F/AIR" 40gr HMX RBBN	F180600700	FT	500
6	HMX B/DRCT BSTR	H067592400	EA	200
	Plug Setting			
7	PWR CHRG, SLOW SET 20	H437660020	EA	10
8	FRNG HD IGNTR, SCNDY	H437431000	EA	40
	Detonator			
9	FRNG HD IGNTR, PRIM 5	H437440001	EA	40
10	DETNTR DYNAWELL 0026 FD HNS 2313290	A2000543000	EA	25
11	DETNTRTOP FIRING JETRCD-1208 MOD EB161 H	F248961000	EA	20
12	DYNAWELL 1020 HNS DETONATOR	A2006996000	EA	0
13	DETONATOR ASSY RP-800 EBW	F180375000		25
	Tubing Cutter			
14	CUTTER 3 5/8" NT CASING CTR CUT3625062NT	A2004820000		1
15	CUTTER,STANDARD TUBING 2500T001	A2006968010		1
	DCST explosives			
16	MDF ASSY, DCST-A, S274-5 JRC SEVERING	F269073001	KIT	3
17	KIT PELLET/CRTG, HMX 1.75 DCST 1-3/8 MDF	A2004269000	KIT	1
18	KIT EXPLSV HMX 2" OD. DCST 101293168	A2003552000	KIT	1
19	KIT EXPLSV HMX 2-5/8" OD. DCST 101293152	A2003550000	KIT	1
	Hardwares			
20	KIT,EHC,2007,2.00" HP,4/0,WL-T,40S	A5000205707	KIT	3
21	KIT EHC 4539 4-1/2" SP 5/60 TCP-T 30S	A5000510107	KIT	3

22	HARDWARE KIT 1 3/4" DCST 1-3/8 MDF JRC SEVERING 101292915	A2004268000	KIT	1
23	KIT HARDWARE 2" OD DCST JRC SEVERING 101292956	A2003551000	KIT	1
24	KIT HARDWARE 2-5/8" O.D. DCST JRC SEVERING 101292957	A2003548000	KIT	1
25	MODULE, PX-1 FIRESET EBW/EFI SOCKET OUT	F267539000	KIT	3

IV.1.7 CONTRACTOR shall provide adequate number of highly competent personnel as specified in technical specifications for the performance of the WORKS at the Work Site.

IV.1.8 CONTRACTOR shall furnish the inspection reports/ certificates of CONTRACTOR's Equipment upon request by CLIENT before delivering to Mobilization Site.

IV.1.9 CONTRACTOR shall be responsible for the installation, maintenance, repair or replacement and removal of CONTRACTOR's Equipment furnished pursuant to this CONTRACT. CONTRACTOR shall always maintain adequate facilities, equipment, supplies and spare parts to ensure that CONTRACTOR's Equipment is in good working condition at all times.

IV.1.10 Upon delivery of Equipment and Tools to the Platform/ Work Site, the Equipment and Tools shall be inspected by CLIENT's Representative to CLIENT's satisfaction and all deficiencies that could prevent the Equipment and Tools from being used for its intended services and shall be corrected to CLIENT's satisfaction at CONTRACTOR's sole cost.

IV.1.11 Upon completion of WORKS, CONTRACTOR's Personnel shall make ready all CONTRACTOR's Equipment for offloading onto the supply vessel(s).

IV.1.12 CONTRACTOR shall be responsible for the removal of CONTRACTOR's Equipment from the designated Demobilization Site. Rental shall cease when CONTRACTOR's Equipment reaches the Demobilization Site.

IV.1.13 In the event that the work is interrupted or retarded for lack of equipment, accessories or spare parts which would normally be carried as routine, the relevant rates of service charges shall cease to apply and shall not resume until such lack has been remove.

IV.1.14 CLIENT shall not, without CONTRACTOR's consent, authorize any person other than CONTRACTOR Personnel to operate CONTRACTOR Equipment, except in an emergency, in which case, CLIENT may utilize CONTRACTOR Equipment in an appropriate manner.

IV.1.15 CONTRACTOR shall prepare Equipment Rental Report (ERR) or CONTARCTOR's Completion job/ job log/services ticket with similar information, listing all equipment on rental to CLIENT.

These sheets, duly signed by the CLIENT's Representative shall be presented with the invoice as part of the supporting document.

CLIENT's Representative will provide all assistance to ensure these records are accurate and reflect the exact amount of CONTRACTOR's Equipment at the Work Site.

IV.1.16 CONTRACTOR shall maintain an inventory of available stock of Products onboard the rig. CONTRACTOR shall furnish CLIENT's Representative with a clean, legible copy of the Monthly Inventory Report and make the necessary arrangements for shipment of Products to ensure efficient operation.

IV.1.17 CONTRACTOR shall be using CONTRACTOR Equipment and CONTRACTOR Personnel, perform the WORKS in accordance with CLIENT Drilling Program.

The Electric Wireline Logging, VSP, cut SWC and Perforation Services required by CLIENT in the performance of this CONTRACT shall be, but are not limited, to the following:

a) CONTRACTOR to supply 04 copies each of 1:200, 1:500 scale log paper prints for each logging run.

b) CONTRACTOR to supply 04 completed set of log data in Flash drive in any format specified by CLIENT for each logging run.

IV.2 Operation Requirements

The CONTRACTOR will demonstrate that he is capable of supplying all equipment necessary for these logging programs with 100% back-up for downhole tools. The CONTRACTOR will demonstrate a sufficient level of surface equipment redundancy for acquisition, processing, and display functions that ensure a continuous series of logging operations.

IV.2.1 Tool Preparation, Calibration & Monitoring

- CONTRACTOR shall prepare and operationally check all logging tools, in accordance with its standard preparation procedures, prior to mobilization of such equipment to the rig. Documented evidence of such preparation and checking shall be maintained by CONTRACTOR and shall be made available to CLIENT on request. CLIENT may at its option observe such preparation and operational checks.
- CONTRACTOR shall maintain for downhole logging tools, a detailed

record of operational checks covering the period from tool preparation, as detailed above, until termination of the rental period for such tool.

IV.2.2 Third Party Operations

Where Third Party downhole equipment and recording systems are employed, both CONTRACTOR and Third Party will be responsible for ensuring, prior to mobilization, that all necessary interconnecting cabling, plugs and sockets are available, and tested, in order that the Third-Party equipment can be recorded through CONTRACTOR's wireline. This will also apply when the CONTRACTOR is acting as the Third Party.

IV.2.3 Planning, Co-Ordination, Scheduling and Execution of Activities

- CONTRACTOR shall schedule the provision of the CONTRACTOR EQUIPMENT required to perform the SERVICES (including the materials and equipment of SUBCONTRACTORS) to ensure availability to meet the requirements of CLIENT.
- The nature and criticality of certain operations may require CLIENT to instruct CONTRACTOR to immediately reorganize its resources and respond to unforeseen priorities. CONTRACTOR shall have ongoing communications with CLIENT to ensure that it can and will take all possible measures to accommodate all operational requirements of CLIENT and prevent disruptions to drilling and related operations.
- CONTRACTOR shall ensure that its scheduling of the CONTRACTOR EQUIPMENT is sufficiently detailed such that any change is identified at an early stage.
- Deviations from the agreed schedule and well plans shall be reported immediately by either party or CONTRACTOR shall thereupon proceed with the development of a mutually agreed recovery plan.
- Delivery dates shall not be amended without the prior written authorization of CLIENT REPRESENTATIVE.
- CONTRACTOR shall attend regular planning/progress meetings at CLIENT's offices at CLIENT's request.
- CONTRACTOR shall plan to minimize the offshore rental period for all rental equipment and identify the optimum maintenance schedule.

IV.2.4 Performance Review

CONTRACTOR shall review the quality of the activities related to the SERVICES and standard of performance provided to CLIENT on a well-by-well basis or as otherwise required. This review shall take the form of a management presentation, describing successful operations, equipment, material and/or failures, investigation and procedures resulting from the activities related to the SERVICES, movements of CONTRACTOR PERSONNEL and other relevant information that CONTRACTOR wishes to describe. CONTRACTOR shall participate in CLIENT performance monitoring requirements and reporting.

IV.2.5 Records and Reports

- CONTRACTOR shall supply data from conventional logs on Flash drive in ASCII format within 1 hour of logging. CONTRACTOR shall provide edited DLIS format on Flash drive and a minimum of one paper print of such data to CLIENT twelve (12) hours of successful transmission from the Rig.
- All CONTRACTOR generated reports (unless otherwise specified) shall be submitted to CLIENT REPRESENTATIVE. CONTRACTOR shall plan, monitor, control and report the operational progress of any activities related to the SERVICES as a total project, regularly and at agreed frequency.
- CONTRACTOR shall provide operational information to assist in the compilation of the daily morning report as requested by CLIENT REPRESENTATIVE or the Drilling CONTRACTOR.
- CONTRACTOR shall prepare and present an end of operations report submitted within seven (7) days of the end of the well.
- CONTRACTOR shall maintain a written log of all events arising during performance of activities related to the SERVICES. This log may be subject to a CLIENT / CONTRACTOR end-of-operation de-brief.

IV.3 Data Management

The following data management, processing and interpretation can be split between that can be performed at the wellsite and the advanced processing along with interpretation that is performed at a Geoscience Centre. Both the advanced processing and interpretation elements may be performed by the CONTRACTOR, in-house by the CLIENT or assigned to a third party.

IV.3.1 Data QC/Processing/Interpretation

- Wellsite QC is the processing of field data at the wellsite so that it is in a useful format to the CLIENT.
- Advanced Processing is the processing of field data that cannot be performed at the wellsite to get it into a form useable by the CLIENT, CONTRACTOR or THIRD-PARTY Geoscience groups.
- Interpretation is defined as interpretation, studies and reports based on the processed data.
- The CONTRACTOR is expected to clearly state which processing can be performed at the wellsite and which needs to be performed at the CONTRACTOR Geoscience Centre.

IV.3.2 Data Management – Standard Services

IV.3.2.1 Real-Time Data Transfer

If requested by asset the CONTRACTOR shall provide a secure, real-time data transfer and storage system, which shall be web-

based. This system allows for real-time onshore analysis of all logging data.

IV.3.2.2 Data Delivery - Wellsite

- Rush data is to be delivered at the wellsite in ASCII or LAS format on a flash storage device for transmission to the CLIENT. The log picture files shall be delivered in a PDS/Meta file or equivalent format also for transmission. A set of field log prints will be made available at the wellsite.
- For all services, the CONTRACTOR is expected to deliver data usable by the CLIENT to the CLIENT representative at the wellsite before the CONTRACTOR PERSONNEL leave the wellsite as part of the survey charge. For the newer technology, imaging tools and seismic services, the CONTRACTOR must clearly state the format of the deliverable data.

IV.3.2.3 Data Delivery – Final package

It is the CONTRACTOR's responsibility to deliver the final data package to the CLIENT regional office. The final data package is to consist of complete sets of color prints and Flash drives of digital data (ASCII/LAS, DLIS or equivalent, PDS/Metafile or equivalent) of the whole series of operations. The actual numbers required will be specific to each asset. The actual data requirements will be specific to each asset.

IV.3.2.4 Data Delivery – Processing

If the data needs further processing by the CONTRACTOR onshore in order to reach the level specified by the service, then this will be at no extra charge. For the newer technology, imaging tools and seismic services, the CONTRACTOR must clearly state the format of the deliverable data.

Further processing in order to recover/compensate data from the effects of a tool failure, shall be performed by the CONTRACTOR and incorporated in the survey charge.

IV.3.2.5 Data Delivery – Advanced Processing

CONTRACTOR shall, if requested, perform advanced processing (or pre-modelling), in house, using its own staff and equipment for resistivity, VSP, dipole sonic, formation tester and nuclear magnetic resonance data. The CONTRACTOR must clearly state the format of the delivery data and the costs of the advanced processing or pre-modelling.

CLIENT reserves the right to perform all or any of the data processing in-house or use the services of a Third Party. The CONTRACTOR will provide all the useable data for this

undertaking as part of the survey charge.

V. CONTRACTOR WORK PERFORMANCE EVALUATION

CLIENT shall continuously evaluate the work performance of CONTRACTOR pursuant to the requirement of the CONTRACT throughout the term of the CONTRACT.

END OF EXHIBIT

PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LTD
DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED
Head Office: 15th Floor, Victory Tower, 12 Tan Trao Str., Tan My Ward, Ho Chi Minh City, S.R. Vietnam.
Tel: (84-28) 3776 2222
Fax: (84-28) 3872 1079/3872 1088
Email: pvep.poc@pvep.com.vn

FACSIMILE TRANSMISSION

To: **BIDDER**

Attn: **To Whom it may Concern**

Ref.: 2456 **/PVEPPOC-PPM** Date 25th Nov. 2025

No. of page(s) *(including this cover sheet):* 02

SUBJECT: **BID BULLETIN #03 – IMPORTANT NOTICE**

TENDER TITLE: PROVISION OF ELECTRICAL LOGGING SERVICES FOR DRILLING & COMPLETION PROGRAM FOR DAI HUNG NAM FIELD DEVELOPMENT, BLOCK 05-1(A), OFFSHORE VIETNAM

TENDER No.: PVEPPOC-DRL-2025-025

If you have not received the full text of this letter, please call (84-28) 3776 2222

Dear Sir/Madam,

Reference is made to the above-mentioned Tender, DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED (hereinafter referred to as "CLIENT") hereby would like to provide you the Bid Bulletin #03 – Important Notice as per the attachment enclosed herewith.

Thank you very much for your attention.

Yours faithfully,

For and On Behalf of CLIENT

TRUONG TUAN ANH
Deputy Director
Cc: BOM, PPM, SSF

Visa:
- *SSF:* .....
- *PPM:* .....

ATTACHMENT OF BULLETIN #03
TENDER No.: PVEPPOC-DRL-2025-025

Item No.	ITB Section/Reference	CLIENT's update
1		PVEP-POC would like to extend the Bid Closing Time till **10:00 AM on 12 December 2025.** Your proposal for the above package shall be submitted to office of PVEP-POC in Ho Chi Minh City, S.R. Vietnam on/before **10:00 hours (Vietnam Standard Time) on 12 December 2025 ("Bid Closing Time")**. PVEP-POC shall have the right to disqualify should any quotation/offer be received later than the above Bid Closing Time. It is kindly noted that the Bid Bond validity shall be extended corresponding to the new Bid Closing Time mentioned above.

PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LTD
DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED
Head Office: 15th Floor, Victory Tower, 12 Tan Trao Str., Tan My Ward, Ho Chi Minh City, S.R. Vietnam.
Tel: (84-28) 3776 2222
Fax: (84-28) 3872 1079/3872 1088
Email: pvep.poc@pvep.com.vn

FACSIMILE TRANSMISSION

To: **BIDDER**

Attn: **To Whom it may Concern**

Ref.: 2586 **/PVEPPOC-PPM** Date 10th Dec., 2025

No. of page(s) *(including this cover sheet):* 35

SUBJECT: **BID BULLETIN #04 – IMPORTANT NOTICE**

TENDER TITLE: PROVISION OF ELECTRICAL LOGGING SERVICES FOR DRILLING & COMPLETION PROGRAM FOR DAI HUNG NAM FIELD DEVELOPMENT, BLOCK 05-1(A), OFFSHORE VIETNAM

TENDER No.: PVEPPOC-DRL-2025-025

If you have not received the full text of this letter, please call (84-28) 3776 2222

Dear Sir/Madam,

Reference is made to the above-mentioned Tender, DOMESTIC PETROLEUM OPERATING BRANCH - PETROVIETNAM EXPLORATION PRODUCTION CORPORATION LIMITED (hereinafter referred to as "CLIENT") hereby would like to provide you the Bid Bulletin #04 – Important Notice as per the attachment enclosed herewith.

Thank you very much for your attention.

Yours faithfully,

For and On Behalf of CLIENT

TRUONG TUAN ANH
Deputy Director
Cc: BOM, PPM, SSF

Visa:
- *SSF:* .....
- *PPM:* .....

ATTACHMENT OF BULLETIN #04
TENDER No.: PVEPPOC-DRL-2025-025

Item No.	ITB Section/Reference	CLIENT's update
1	To be updated "Section I "GENERAL INFORMATION" as per attachment enclosed herewith.	
2	To be updated "ECV DH-18X" for Price schedule as per attachment enclosed herewith.	
3	PVEP-POC would like to extend the Bid Closing Time till **10:00 AM on 19 December 2025.** Your proposal for the above package shall be submitted to office of PVEP-POC in Ho Chi Minh City, S.R. Vietnam on/before **10:00 hours (Vietnam Standard Time) on 19 December 2025 ("Bid Closing Time")**. PVEP-POC shall have the right to disqualify should any quotation/offer be received later than the above Bid Closing Time. It is kindly noted that the Bid Bond validity shall be extended corresponding to the new Bid Closing Time mentioned above.	

APPENDIX I

PROVISION OF ELECTRICAL LOGGING SERVICES FOR DAI HUNG NAM DRILLING CAMPAIGN, BLOCK 05-1(a)

TABLE OF CONTENTS

I GENERAL INFORMATION

- ✓ AREA OF OPERATIONS: WHP-DHN, Block 05.1a; Offshore Vietnam.
- ✓ 1st Period WELL NAME:
  - **Firm:** DHN-1X, DHN-2X, DHN-4X, DHN-1P, DHN-2P.
  - **Optional:** 2 Exploration wells (DH-18X & DH-19X).
- ✓ 2nd Period WELL NAME:
  - **Firm:** DHN-3P, DHN-4PI, DHN-5PI, DHN-6PI.
  - **Optional**: 2 Exploration wells (DH-20X & DH-21X).
- ✓ WELL TYPE:
  - Tie-back + Production + Production/Injection wells for Firm wells.
  - Exploration for Optional wells.
- ✓ START TIME:
  - o **1st Period:** Tentative on 15 October 2026.
  - o **2nd Period:** Tentative on 9 July 2027.
- ✓ ESTIMATED TIME:
  - **1st Period:** 177 days for Firm wells + 127 days for Optional wells.
  - **2nd Period:** 171 days for Firm wells + 112 days for Optional wells.
- ✓ WATER DEPTH: +/-109m.
- ✓ RIG TYPE: Jack up 400ft WD.
- ✓ DELIVERY MODE: "Call-out" basis.

1. Well information

1.1. Information for the Firm wells

Total of 9 Wells: 3 tie-back/production, 3 production and 3 injection/production wells with well Targets are at Thông – Mang Cau formation (Carbonate) from H44 – H76.2.

WHP	Well name / Type		Slot	Note
DHN	DHN-1X	Production	#5	Block A7 (H44-H95)
	DHN-2X		#9	Block A8 (H44-H80)
	DHN-4X		#6	Block A7.2 (H44-H76.2)
	DHN-1P		#1	Sidetrack from DHN-3X (H44-H76-2) Block A7.2
	DHN-2P		#2	Block A8 (H46-H76.1.3)
	DHN-3P		#3	Block A7.1 (H50-H76.1)
	Total: 6			
	DHN-4PI	Production/ Injection	#4	Block A7.2 (H44-H76.2)
	DHN-5PI		#7	Block A8 (H50-H76.1.3)
	DHN-6PI		#8	Block A7.1 (H46-H76.1)
	Total: 3			

1.2. Information for the Optional wells

Well Classification	Location	Well Quantity	Period	Note
Exploration	Open Water – DH Field	4	2 wells at 1st Period 2 wells at 2nd Period	Drill & DST

DH-18X (1st Period)

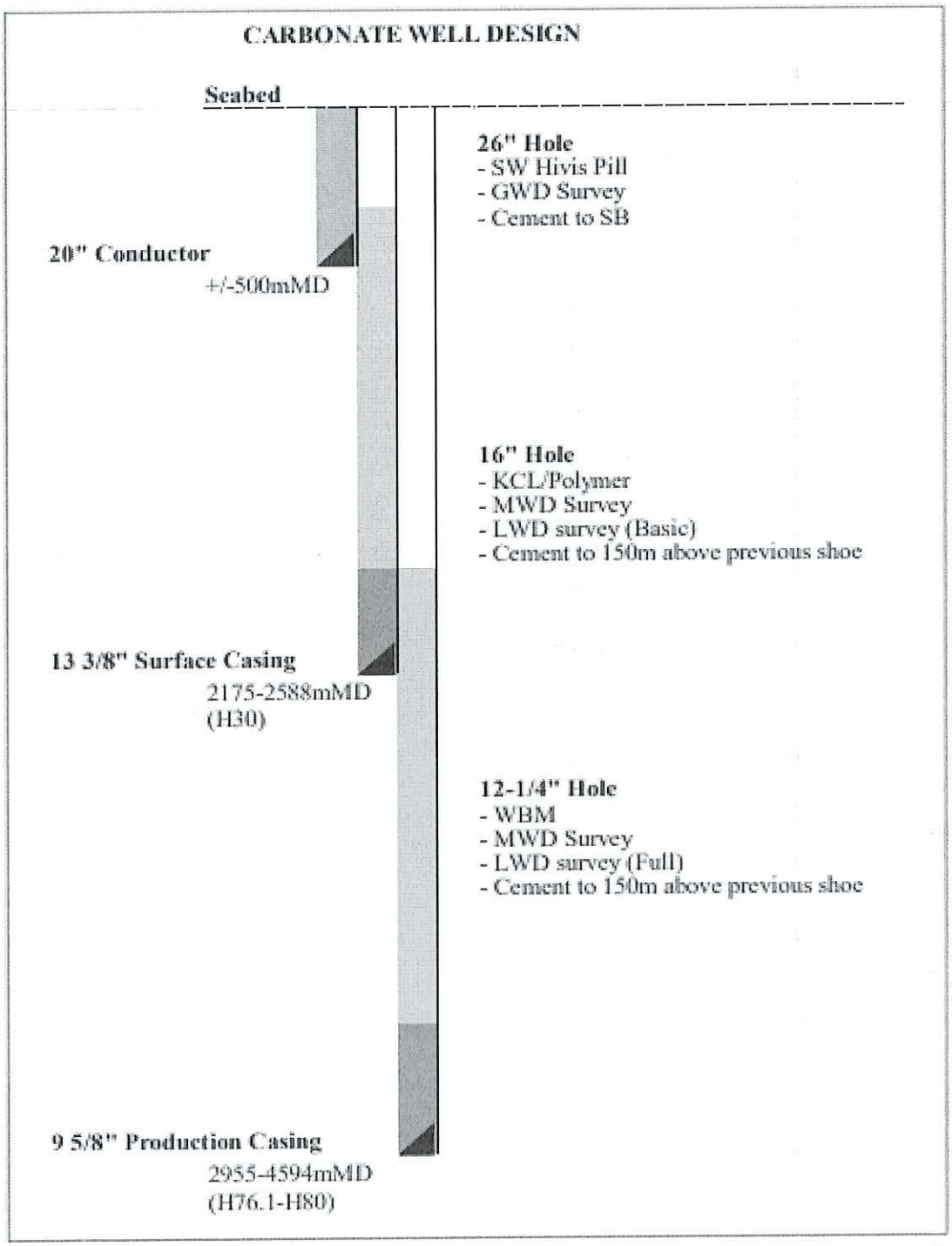
Exploration well with Targets are at Thong – Mang Cau formation (Carbonate) and Dua formation (Clastic).

Location	Well name / Type		Slot	Note
Block 05-1(a)	DH-18X	Exploration	Open Water	Drill & DST for Clastic reservoir

2. Well Structure

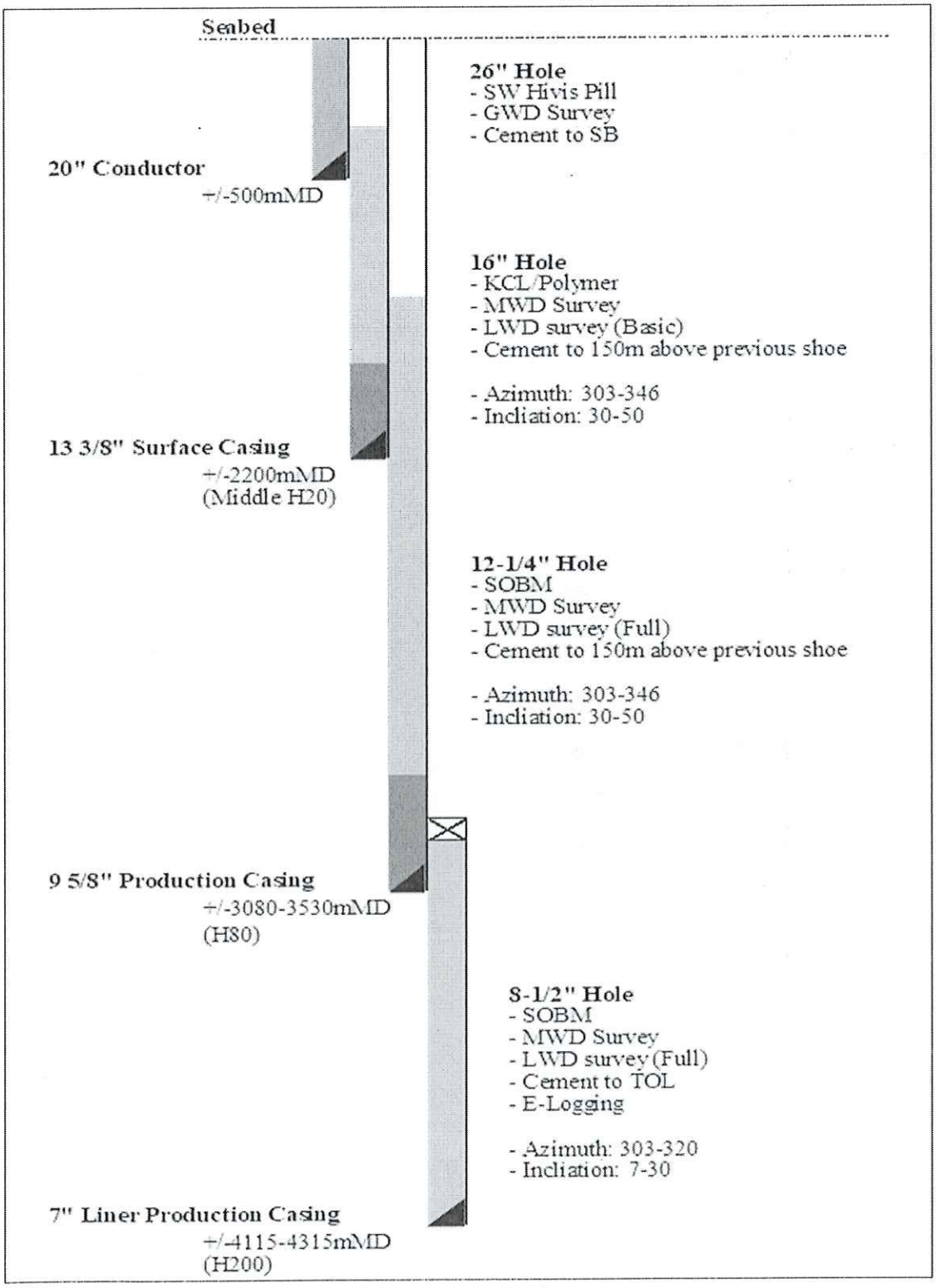
2.1. Well Structure for Production/Injection Well

26" hole/20" conductor x 16" hole/13-3/8" casing x 12-1/4" hole/9-5/8" casing.



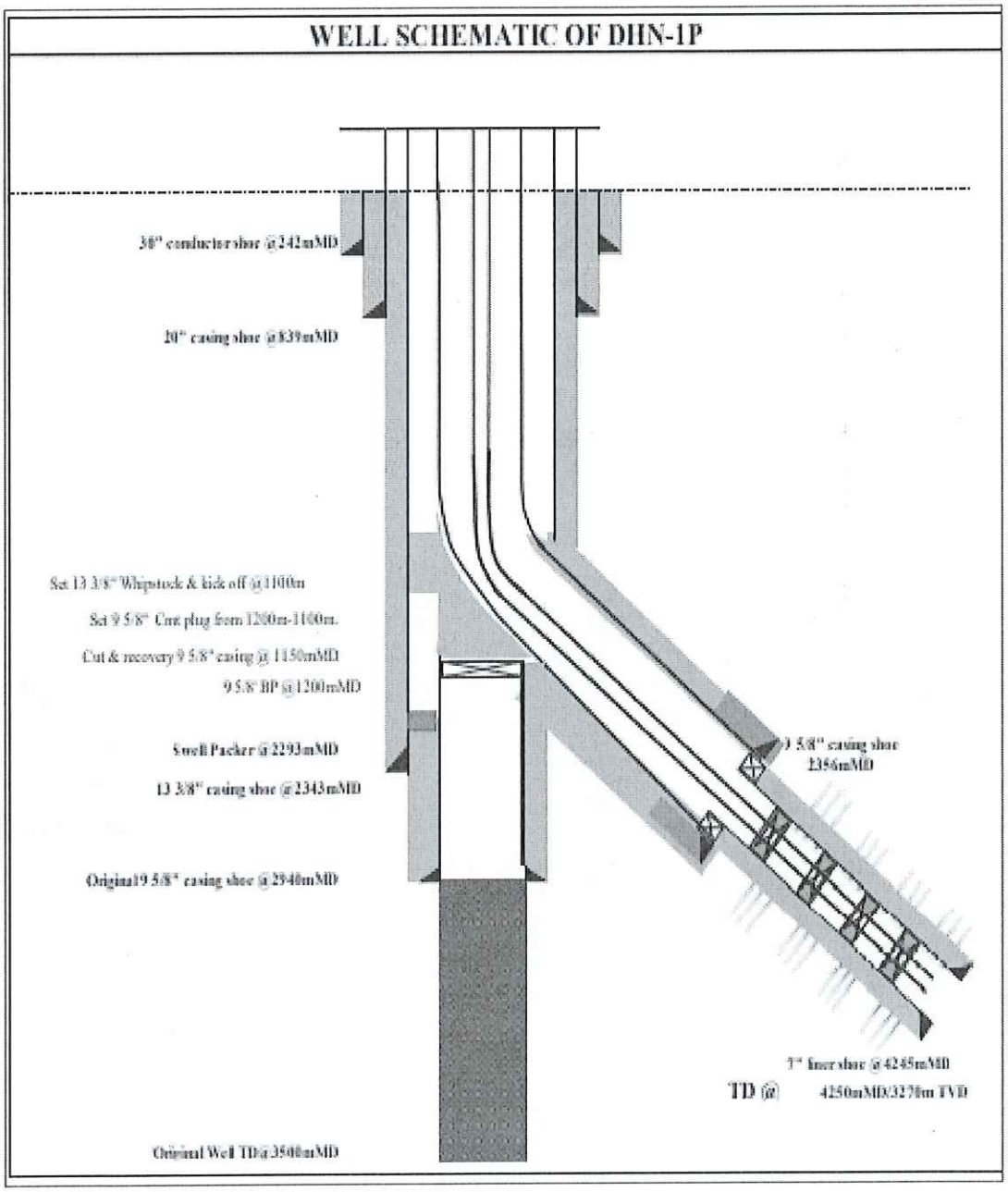
2.2.Exploration Well Structure

26" hole/20" conductor x 16" hole/13-3/8" casing x 12-1/4" hole/9-5/8" casing x 8-1/2" hole/7" liner.



2.3. Well Structure for Sidetrack wells

Tie-back 20" Conductor & 13-3/8" Casing. Cut 9-5/8" casing & Sidetrack 12-1/4" hole/9-5/8" casing x 8-1/2" hole/7" liner.

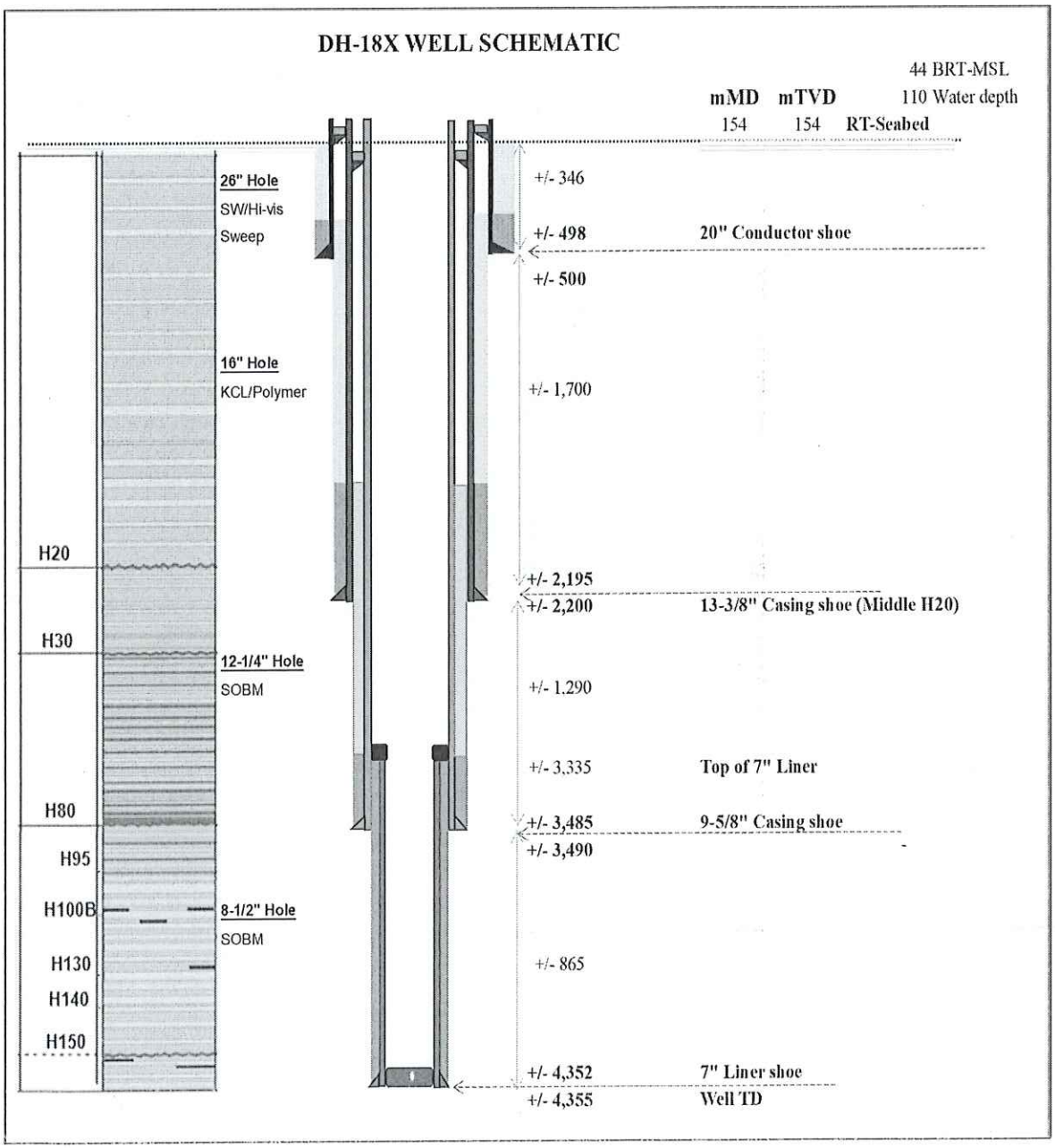


2.4.Structure for Tie-back Wells

- ✓ DHN-4X and DHN-2X: Tie-back 20" Conductor, 13-3/8" Casing, 9-5/8" Casing from seabed to surface.
- ✓ DHN-1X: Tie-back 20" Conductor, 9-5/8" Casing from seabed to surface. Tie-back 7" from +/-3,257m to surface.

2.5 Structure for DH-18X

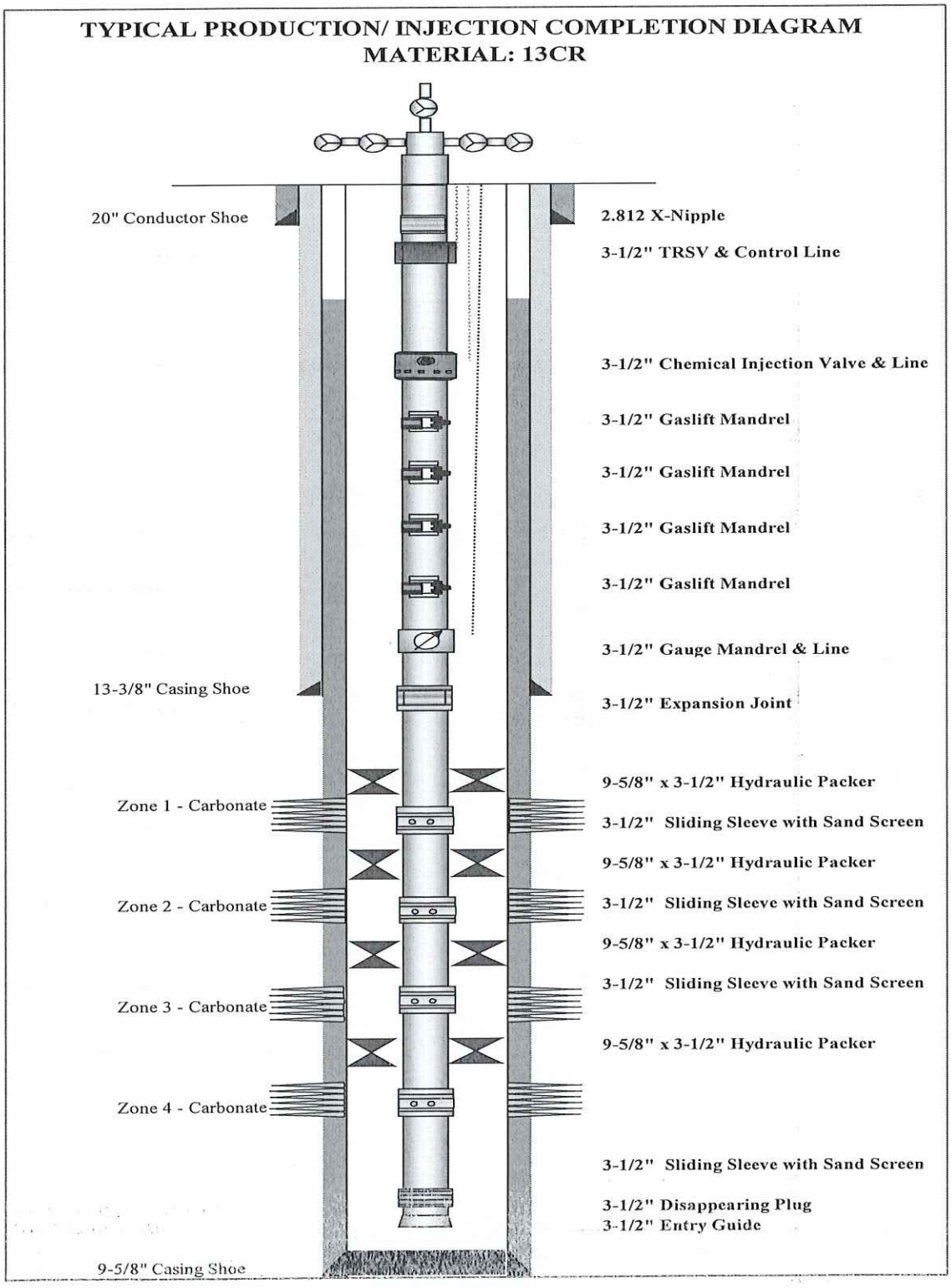
- ✓ 26" hole/20" conductor x 16" hole/13-3/8" casing x 12-1/4" hole/9-5/8" casing x 8-1/2" hole/7" liner casing



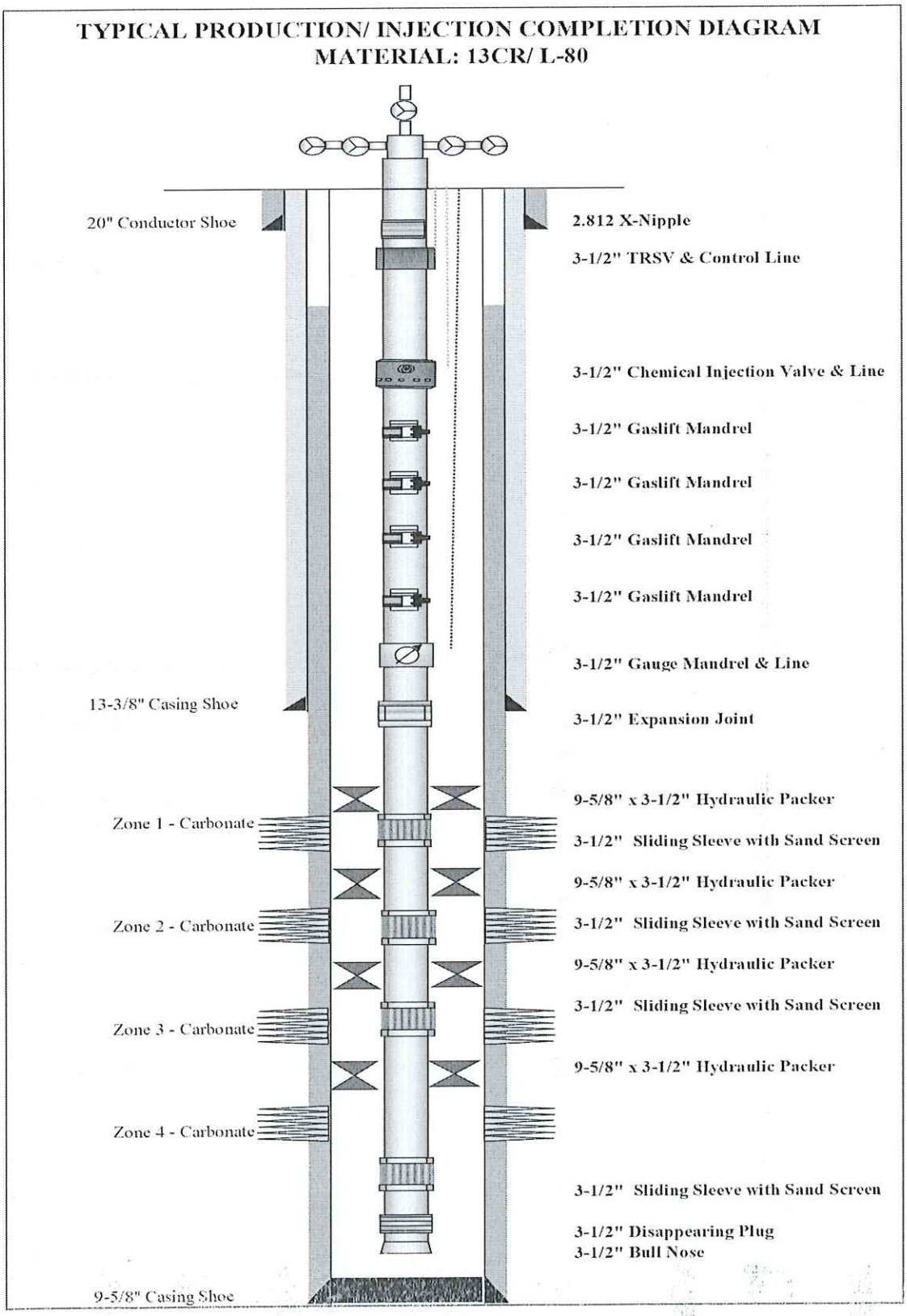
3. **DST Schematic (TBA)**

4. **Completion Schematic**

Completion Diagram for Production Well

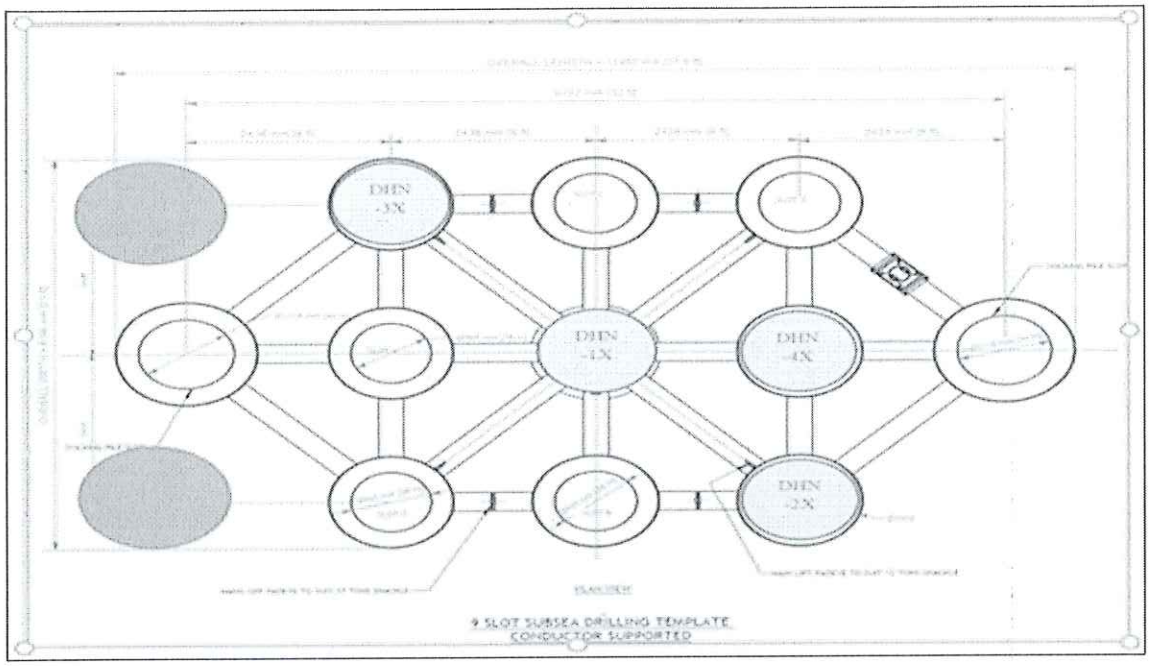


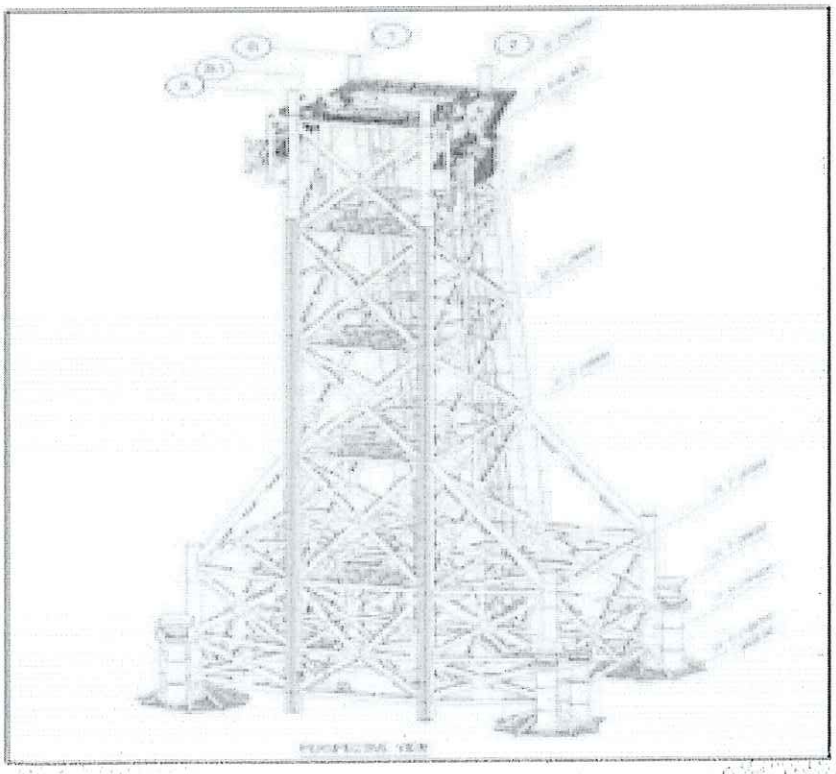
Production/Injection Well



5. Well lay out and drilling schedule

11 Slots: 2 slots (Dual for future wells – Blue color) + 9 slots x 20" Conductor.





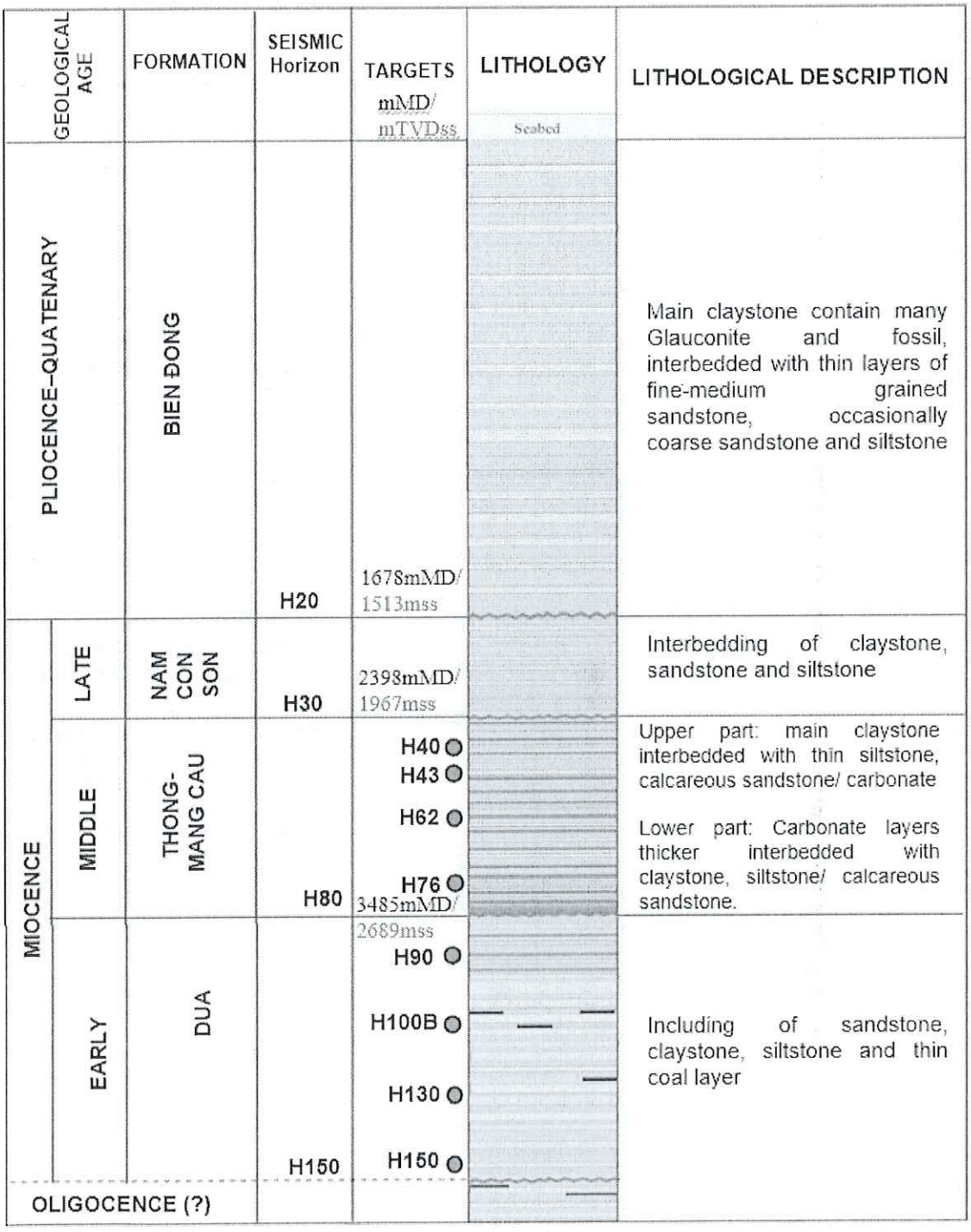
6. Basic Geological well information

The well is expected normal temperature and normal pore pressure.

6.1. Lithology DHN

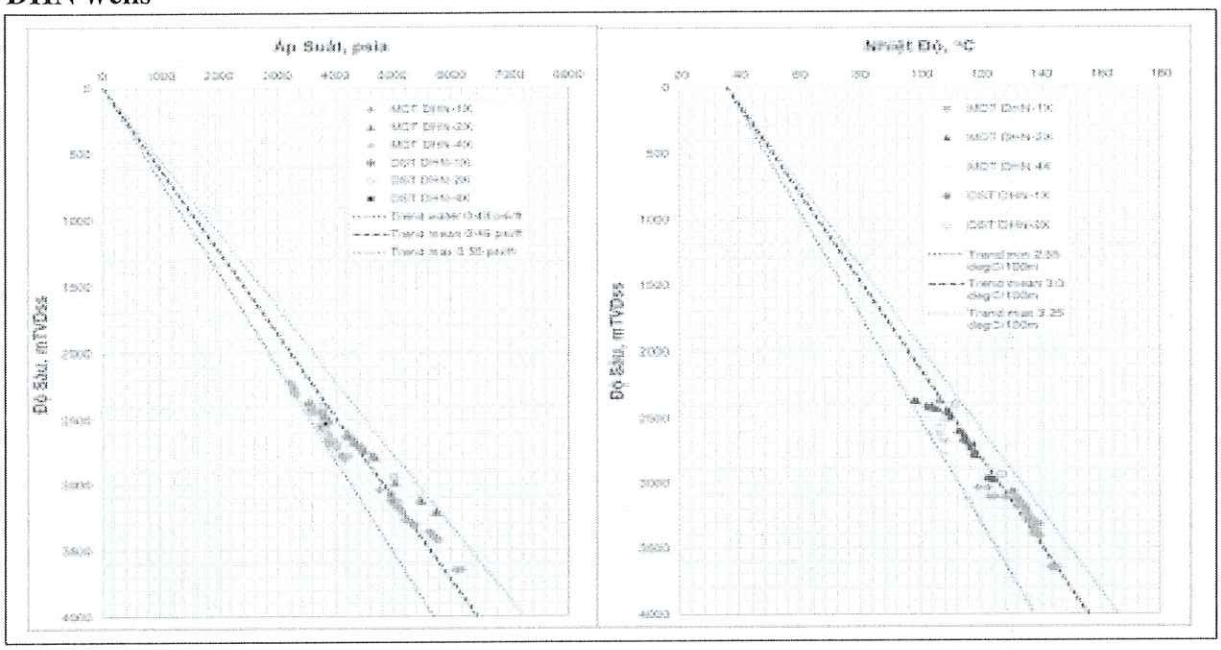
Age	Formation	Seismic Horizon	Gas/Oil Reservoirs	Lithology	Lithological Description
				Seabed	
PLIOCENE-QUATERNARY	BIEN DONG	H20			Upper part: Main very fine to medium grained sandstone interbedded with thin claystone, siltstone layers. Lower part: Main claystone interbedded with thin sandstone layers.
UPPER MIOCENE	NAM CON SON	H30			Main claystone interbedded with thin fine - medium grained sandstone layers.
MIDDLE MIOCENE	THONG - MANG CAU	H43 H50 H60 H76.1 H76.2 H80	● ● ● ●		Upper part: Main claystone interbedded with siltstone, sandstone, limestone layers Lower part: Main shelf limestone interbedded with claystone and sandstone layers

6.2.Lithology DH-18X

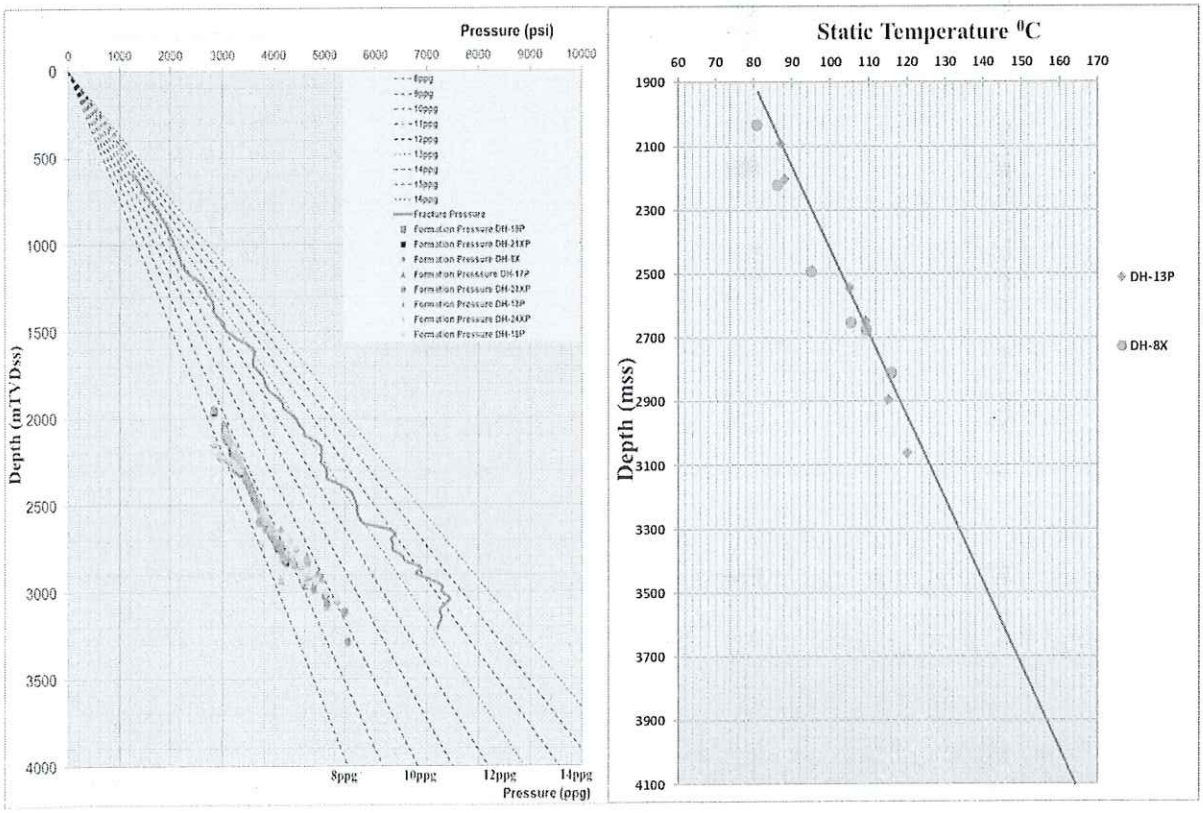


6.3.Pressure, Temperature Profiles

DHN wells



DH-18X



7. Well Design

7.3. Casing program

7.3.1. Casing program for Production/injection wells

Hole Size (in)	Depth (mMD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
26	400-600	20	X-56	133/169	Quick Connection	Conductor 169ppf from seabed to surface
16	2,050-2,600	13-3/8	L80/N80	68	BTC Connection	Casing shoe at top of H30
12 1/4	2,900-4,600	9-5/8	L80	47	Premium Connection	Casing shoe at top of H80

7.3.2. Casing program for Exploration wells

Hole size (in)	Depth (MD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
26	500	20	X-56	133	Quick connection	
16	500-2,200	13 3/8	L80/L80	68	BTC Connection	Casing shoe at Middle H20
12 ¼	2,200 3,530	9 5/8	L80	47	Premium Connection	H-80
8 1/2	3,530 4,315	7"	L80	29	Premium Connection	7" Liner (H200)

DH-18X

Hole Size (in)	Depth (mMD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
26	+/- 500	20	X-56	133/169	Quick Connection	Conductor 169ppf from seabed to surface
16	+/- 2,200	13-3/8	L80/N80	68	BTC Connection	Casing shoe at middle of H20
12 1/4	+/- 3,490	9-5/8	L80	47	Premium Connection	Casing shoe at top of H80
8 1/2	+/- 4,355	7	L80	29	Premium Connection	Well TD

7.3.3. Casing program for Sidetrack well

Tie-back 20" Conductor & 13-3/8" Casing. Cut 9-5/8" casing & Sidetrack 12-1/4" hole/9-5/8" casing x 8-1/2" hole/7" liner.

Hole Size (in)	Depth (mMD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
	160	20	X-56	169	Quick Connection	Tie-back
	160	13-3/8	L80/N80	68	BTC	Tie-back
12-1/4	2,360	9-5/8	L80	47	Premium	Casing shoe set at Top of H30
8-1/2	4,250	7	L80	29	Premium	7" liner

7.3.4. Casing program for tie back wells

Hole Size (in)	Depth (mMD)	Casing Specification				Remarks
		Size (in)	Grade	Weight (ppf)	Connection Type	
	160	20	X-56	169	Quick Connection	Tie-back
	160	13-3/8	L80/N80	68	BTC	Tie-back
	160	9-5/8	L80	47	Premium	Tie-back
	4,250	7	L80	29	Premium	7" liner (DHN-1X only)

8. Drilling Fluid Program

Depth (mMD)	Hole Size(in)	Mud Type	Mud Weight (ppg)	FV sec	PV cps	YP lb/100ft²	API FL (cc)
400 – 600	26	SW/Hi-vis Sweep	8.8 – 9.2	>80	ALAP	>35	
2,175-2,588	16	SW/Hivis –Sweep/ KCL/Gel/Polymer	8.8 – 9.7	45-65	ALAP	20-35	<8
2,356-4,594	12-1/4	SBM/OBM	9.5-10.5	45 - 70	ALAP	25 - 40	<3
4,250	8-1/2	SBM/OBM (DHN-1P only)	9.5 – 10.5	45 - 70	ALAP	25 - 40	<3
Completion		Cacl2/NaCl	10-11				

DH-18X

Depth (mMD)	Hole Size (in)	Mud Type	Mud Weight (ppg)	FV sec	PV cps	YP lb/100ft²	API FL (cc)
0 – 500	26	SW/Hi-vis Sweep	8.8 – 9.2	>80	ALAP	>35	
500-2,200	16	SW/Hivis –Sweep/ KCL/Gel/Polymer	8.8 – 9.7	45-65	ALAP	20-35	<8
2,200-3,490	12-1/4	SBM/OBM	9.5-10.5	45 - 70	ALAP	25 - 40	<3
3,490-4,355	8-1/2	SBM/OBM	9.5 – 11	45 - 70	ALAP	25 - 40	<3
DST		CaCl2/NaCl	10-11				

9. Cementing Program

Hole size - Casing size	Setting depth	Cement interval		Slurry		Remark
	mMD/	Top (m)	Bottom (m)	Density (ppg)	Recipe	
26"x20"	400-600	Seabed	Shoe	14.0	Single G cement	150% excess in OH or lead up to seabed.
16" - 13-3/8"	2,170-2,580	150-200 inside previous shoe	Top tail	12.8	Lead G cement	Excess: 50% in OH or 15% Carbide bomb
		+/- 250 above shoe	shoe	15.8	Tail G cement	
12-1/4" - 9-5/8"	2,350-4,590	150-200 inside previous shoe	Top tail	12.8	Lead Blended/LW cement	Excess: 25% in OH or 10% Caliper.
		+/- 250 above shoe	shoe	14.5	Tail Blended/LW cement	
8 ½" – 7" liner (DHN-1P only)	4,250	Top of Liner	Liner shoe	14.5	Single Blended/LW cement	Excess: 25% in OH or 10% Caliper.

DH-18X

Hole size - Casing size	Setting depth	Cement interval		Slurry		Remark
	mMD/	Top (m)	Bottom (m)	Density (ppg)	Recipe	
26"x20"	+/-498	Seabed	Shoe	15.8	Single G cement	150% excess in OH or lead up to seabed.
16" - 13-3/8"	+/-2,195	150-200 inside previous shoe	Top tail	12.8	Lead G cement	Excess: 50% in OH or 15% Carbide bomb
		+/- 250 above shoe	Shoe	15.8	Tail G cement	
12-1/4" - 9-5/8"	+/-3,485	150-200 inside previous shoe	Top tail	12.8	Lead Blended/LW cement	Excess: 25% in OH or 10% Caliper.
		+/- 250 above shoe	Shoe	14.5	Tail Blended/LW cement	
8 ½" – 7" liner	+/-4,352	Top of Liner	Liner shoe	14.5	Single Blended/LW cement	Excess: 25% in OH or 10% Caliper.

10. Bit Program

Hole size (in)	Bit Type/IADC	Nozzle /32"	Bit Performance					
			From (m)	To (m)	Interval (m)	WOB (kips)	RPM	GPM
26	Mill tooth (1.1.5)	3x18, 1x22, 3x16	110	500	390	5-15	80- 100	500-950
16	PDC (M423)	9x12	500	2,175/ 2,588	± 2,000	15-35	80-150	950-1050
	TCI (1.1.5)							
12-1/4	PDC (M223/M323)	7x14	2,175/ 2,588	2,955/4,594	+ 2,000	15-25	60-150	640-1050
	TCI (519/215)							
8-1/2 DHN-1P	PDC (M223/M323)	5x14/ 6x13	2,356	4,250	± 1,900	10-30	80-150	400-600
	TCI (447/215/519)							

DH-18X

Hole size (in)	Bit Type/IADC	Nozzle /32"	Parameters					
			From (m)	*To (m)*	*Interval (m)*	*WOB (kips)*	*RPM*	*GPM*
26	Mill tooth (1.1.5)	3x18, 1x22, 3x16	110	500	390	5-15	80- 100	500-950
16	PDC (M423)	9x12	500	2,200	± 1,700	15-35	80-150	950-1050
	TCI (1.1.5)							
12-1/4	PDC (M223/M323)	7x14	2,200	3,490	± 1,290	15-25	60-150	640-1050
	TCI (519/215)							
8-1/2 DHN-1P	PDC (M223/M323)	5x14/ 6x13	3,490	4,355	± 865	10-30	80-150	400-600

11. BHA Program

Hole size (in)	Interval (mMD)	BHA Program
26	0 – 500	26" Bit + 9-1/2'' Mud Motor + 9-1/2'' Stab + 9-1/2'' MWD (GWD) + 9-1/2" DC + X/O + 8-1/4'' DC + X/O + 8" Jar + X/O + 15x5-1/2" HWDP
16	500 – 2,175/2,588	16" Bit + 9-1/2" Mud Motor + 16" Stab + 9-1/2'' MWD + 9-1/2'' LWD + X/O + 9-1/2'' MWD + X/O + 6x8-1/4" DC + 8" Jar + 2x8-1/4" DC + X-Over + 15x5-1/2" HWDP
12-1/4	2,175/2,588 – 2,955/4,594	12-1/4" Bit + RSS + 12-1/8" Stab +9-1/2'' MWD + 9-1/2'' LWD (Full Option) + X/O + 11-3/4'' Stab + 6x8-1/4" DC + 8" Jar + 2x8-1/4" DC + X/O + 15x5-1/2" HWDP
8-1/2 DHN-1P	2,365–4,250	8-1/2" Bit + RSS + 8-3/8" Stab + 7'' MWD + 7'' LWD (Full Option) + X/O + 3x6-1/2'' DC + X/O + 12x5-1/2" HWDP + X/O + 6-1/2" Jar + X/O + 5x5-1/2" HWDP

DH-18X

Hole size (in)	Interval (mMD)	BHA Program
26	0 – 500	26" Bit + 9-1/2'' Mud Motor + 9-1/2'' Stab + 9-1/2'' MWD (GWD) + 9-1/2" DC + X/O + 8-1/4'' DC + X/O + 8" Jar + X/O + 15x5-1/2" HWDP
16	500 – 2,200	16" Bit + 9-1/2" Mud Motor / RSS + 16" Stab + 9-1/2'' MWD + 9-1/2'' LWD + X/O + 9-1/2'' MWD + X/O + 6x8-1/4" DC + 8" Jar + 2x8-1/4" DC + X-Over + 15x5-1/2" HWDP
12-1/4	2,200 – 3,490	12-1/4" Bit + RSS + 12-1/8" Stab +9-1/2'' MWD + 9-1/2'' LWD (Full Option) + FAS/TES TRAK + X/O + 12-1/8'' Stab + 6x8-1/4" DC + 8" Jar + 2x8-1/4" DC + X/O + 15x5-1/2" HWDP
8-1/2	3,490 – 4,355	8-1/2" Bit + RSS + 8-3/8" Stab + 7'' MWD + 7'' LWD (Full Option) + FAS/TES TRAK + X/O + Agitator + X/O + Shock Sub + 3x6-1/2'' DC + X/O + 12x5-1/2" HWDP + X/O + 6-1/2" Jar + X/O + 5x5-1/2" HWDP

12. Drilling and Completion Schedule

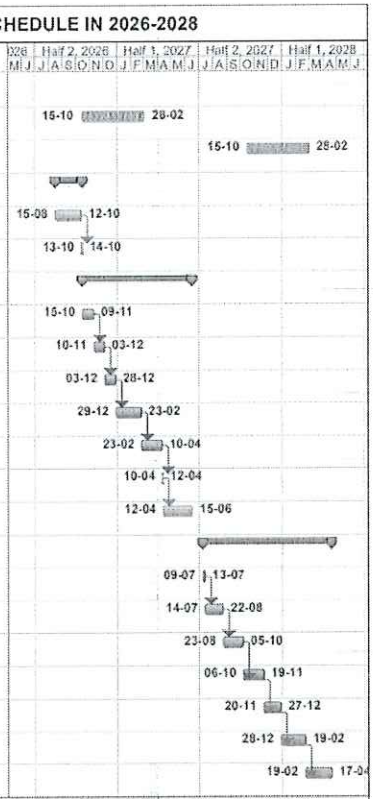
For 1st Period: Tentatively start in Oct 2026 & Complete in Apr 2027.

For 2nd Period: Tentatively start in July 2027 & Complete in Dec 2027.

In the event that the CLIENT requires the *Provision of Electrical Logging Services* on 10th August 2026, the CONTRACTOR is kindly requested to confirm the service availability at the Mobilization Site at that time

PVEP-POC (Block 05-1(a))-DRILLING, DST, COMPLETION & WO WELLS SCHEDULE IN 2026-2028

ID	Task Name	Duration	Start	Finish
1	**Block 05-1(a) Drilling Schedule**			
2	Moonson Season in 2026-2027	137 days	15 Oct '26	28 Feb '27
3	Moonson Season in 2027-2028	137 days	15 Oct '27	28 Feb '28
4	**Drill Exploration well Block X**	**61 days**	**15 Aug '26**	**14 Oct '26**
5	Drill & DST DH-18X	59 days	15 Aug '26	12 Oct '26
6	Infill Rig move to DHN	2 days	13 Oct '26	14 Oct '26
7	**Development & WO & Exploration Wells (1st Period)**	**244 days**	**15 Oct '26**	**15 Jun '27**
8	Tie-back & Completion DHN-4X	26 days	15 Oct '26	09 Nov '26
9	Tie-back & Completion DHN-2X	23.5 days	10 Nov '26	03 Dec '26
10	Tie-back & Completion DHN-1X	25 days	03 Dec '26	28 Dec '26
11	DHN-1P (Tie-back, Sidetrack Drilling & Completion)	56.5 days	29 Dec '26	23 Feb '27
12	DHN-2P (Drilling & Completion)	46 days	23 Feb '27	**10 Apr '27**
13	Infill Rig move	2 days	10 Apr '27	12 Apr '27
14	Drill and DST DH-19X	64.5 days	12 Apr '27	15 Jun '27
15	**Development & WO & exploration wells (2nd Period)**	**284 days**	**09 Jul '27**	**17 Apr '28**
16	Approach WHP-DHN & Prepare for Operation	5 days	09 Jul '27	13 Jul '27
17	DHN-3P (Drilling & Completion)	39.5 days	**14 Jul '27**	22 Aug '27
18	DHN-4PI (Drilling & Completion)	43.5 days	23 Aug '27	05 Oct '27
19	DHN-5PI (Drilling & Completion)	45 days	06 Oct '27	19 Nov '27
20	DHN-6PI (Drilling & Completion)	38 days	20 Nov '27	27 Dec '27
21	Drill and Test/Completion DH-20X	53.5 days	28 Dec '27	19 Feb '28
22	Drill and Test/Completion DH-21X	58.5 days	19 Feb '28	17 Apr '28



Prepared by: DRL Dept.

II SPECIAL PROVISIONS

II.1 Work Site(s)

The Work Site(s) shall be the Drilling Rig(s) at the well location designated by CLIENT.

II.2 Mobilization Date

CLIENT shall give CONTRACTOR at least seven (7) days advance notice for the initial mobilization for CONTRACTOR designated "Call-out" Equipment and CONTRACTOR designated "Call-out" Personnel. The subsequent mobilization throughout the duration of CONTRACT will be on twenty-four (24) hours on a "call-out" basis.

II.3 CONTRACTOR Contract Administrator

CONTRACTOR hereby appoints, as CONTRACTOR's Contract Administrator <<***To be provided and specified by CONTRACTOR***>> or his appointee designated by him in writing.

II.4 CLIENT Contract Administrator

CLIENT hereby appoints, as CLIENT Contract Administrator, the **Director** or his appointee designated by him in writing.

II.5 CLIENT Representative(s)

CLIENT hereby designates the **Director, Drilling Manager, Drilling Superintendent, Senior Drilling Engineers and Drilling Supervisors** as CLIENT Representatives.

II.6 Mobilization Site for CONTRACTOR Equipment

The Mobilization Site for CONTRACTOR Equipment shall be the CLIENT's Warehouse at PTSC Supply Base, Vungtau, S.R. Vietnam or any other mutually agreed location.

II.7 Demobilization Site for CONTRACTOR Equipment

The Demobilization Site for CONTRACTOR Equipment shall be at CLIENT Warehouse at PTSC Supply Base, Vungtau, S.R. Vietnam or any other mutually agreed location.

II.8 Mustering Point for CONTRACTOR Personnel

Southern Vietnam Helicopter Company's Helibase in Vung Tau or Ho Chi Minh City (if required by CLIENT) or PTSC Supply Base, Vungtau for all CONTRACTOR's

Personnel.

II.9 **CLIENT Warehouse and Base Facility**

Vungtau, S.R. Vietnam.

II.10 **CONTRACTOR Warehouse and Base Facility**

<<To be provided and specified by CONTRACTOR>>

II.11 **CLIENT Operations Office**

15th Floor, Victory Tower, 12 Tan Trao Street, Tan Phu Ward, Ho Chi Minh City, S.R. Vietnam.

II.12 **CONTRACTOR Operations Office**

<<To be provided and specified by CONTRACTOR>>

II.13 **Commencement Date of CONTRACT**

The time and date when CONTRACTOR mobilize the first CONTRACTOR Equipment to the Mobilization Site or the first Personnel at the Mustering Point.

II.14 **Commencement of Rates**

The applicable rates as defined in **EXHIBIT IV** hereof shall commence on the Commencement Date of CONTRACT. No payable rates shall be payable throughout mobilization and demobilization of CONTRACTOR Equipment or CONTRACTOR Personnel.

The applicable rates as defined in **EXHIBIT IV** hereof shall commence upon physical mobilization.

II.15 **Point of Origin**

CONTRACTOR Point of Origin is at Vung Tau or other location designated by CLIENT for CONTRACTOR's Personnel that are to be furnished under this CONTRACT.

II.16 **Delivery Schedule**

Initial delivery date and the following time CONTRACTOR shall deliver CONTRACTOR Equipment and Products at the designated Mobilization Site on the date stipulated in the Request for EQUIPMENT/MATERIALS/SERVICES issued by CLIENT.

CONTRACTOR agrees that CLIENT shall have the right to change or to amend the quantity of the CONTRACTOR Equipment. Any increase in quantity shall be subject to CONTRACTOR's agreement in advance.

If other means of transportation are required due to failure of CONTRACTOR to meet committed delivery period, additional costs to be incurred shall be to CONTRACTOR's account.

Delivery schedule for Contractor's equipment and personnel to be available in Mob/Demobilization Site upon receipt of Client's EQUIPMENT/ MATERIALS/ SERVICES REQUISITION under DAP Vung Tau base Incoterm 2010 upon requested WORK ORDER.
Lead time for delivery of CONTRACTOR's equipment and personnels is required as follows:

- Unit & equipment 04 weeks
- Purchase GOODS 8-10 weeks
- "Call out" equipment 14 days
- Personnel 7 days

II.17 **Request for WORKS**

A request for Provision of Remotely Operated Vehicle (ROV) Equipment and Services for WHP-DHN wells, Block 05.1a, Offshore Vietnam shall be either via telex, facsimile, telephone or verbal instructions to be followed by telex or facsimile from CLIENT's Contract Administrator.

II.18 **Duration of CONTRACT**

The duration of the CONTRACT shall be as per **ARTICLE 3.**

II.19 **"Call-Out" of CONTRACTOR Personnel**

As and when directed by CLIENT on " Call-out" basis.

II.20 **"Call-Out" of CONTRACTOR Equipment**

CONTRACTOR shall make available CONTRACTOR Equipment at CONTRACTOR Warehouse in Vung Tau, Vietnam for delivery to the Work Site as requested by CLIENT on "Call-out" basis.

II.21 **Completion of WORKS**

Completion of WORKS shall be achieved when the operations described in **EXHIBIT I-2.0** on the last well designated by CLIENT has been completed and CONTRACTOR has been notified in writing by CLIENT.

II.22 **Demobilization of CONTRACTOR Equipment**

Upon completion of WORKS on the last well designated by CLIENT, CONTRACTOR shall make ready all Equipment for offloading onto the supply vessel(s). CONTRACTOR shall be responsible for the removal of CONTRACTOR's Equipment from the designated Demobilization Site. Rental shall cease when CONTRACTOR Equipment reaches the Demobilization Site.

II.23 **Release of CONTRACTOR Equipment**

CLIENT shall have the right to release any of the CONTRACTOR Equipment for any reason whatsoever within twenty-four (24) hours. CLIENT shall endeavor to notify CONTRACTOR of its intent to release any of CONTRACTOR Equipment as soon as such decision is known. However, CLIENT shall continue to pay the applicable rental rates until the CONTRACTOR Equipment has been delivered and reached to the Demobilization Site. CONTRACTOR shall promptly prepare for demobilization whatever portion of CONTRACTOR Equipment that is to be released and shall assist CLIENT in the loading-out of the said equipment. CONTRACTOR shall be on hand at the Demobilization Site to take delivery of such equipment.

II.24 **Re-engagement of CONTRACTOR Equipment**

CLIENT shall have the option to re-engage any released CONTRACTOR's Equipment.

II.25 **Release of CONTRACTOR Personnel**

CLIENT shall give CONTRACTOR at least five (5) days advance notice of release of any designated personnel. However, subject to terms and conditions of main contact body hereto, CLIENT shall have the right to release without prior notice any of CONTRACTOR Personnel, who, in CLIENT's opinion, are or could be detrimental to the performance of the WORKS or interest of CLIENT.

II.26 **CONTRACT Closure**

CONTRACTOR shall submit to CLIENT a "CONTRACT CLOSURE LETTER" and "CONTRACT CLOSURE CERTIFICATE" as per format shown in **APPENDIX X-6** and **APPENDIX X-7** respectively.

II.27 **Health, Safety and Environment Requirement**

CONTRACTOR shall provide necessary tools, equipment and written procedure to make sure all hazards listed in **APPENDIX VI-5** are addressed.

CONTRACTOR is required to develop the action plan (or written procedure) for each hazard listed in APPENDIX VI-5 (where and when applicable) prior to the commencement of WORKS.

II.28 **Changes**

II.28.1 Should CLIENT desire any change to the CONTRACTOR's Equipment, it shall advise CONTRACTOR of said request. CONTRACTOR shall, upon request from CLIENT, provide CLIENT within fourteen (14) days a CHANGE PROPOSAL defining the terms and conditions shall include but not limited to price, method of payment, earliest commencement date and any other information deemed necessary.

II.28.2 When and if CLIENT approves the CHANGE PROPOSAL, CLIENT will issue to CONTRACTOR a written CHANGE ORDER in duplicate originals in the form shown in **APPENDIX IX-2** herein, CONTRACTOR shall sign both duplicate originals of the CHANGE ORDER to indicate its receipt, understanding and acceptance of it. Execution by CLIENT, one duplicate original will be returned to CONTRACTOR.

II.28.3 Should the Parties agree to the terms and conditions, including but not limited the Price, and Method of payment, the change shall be made.

III REQUEST OF SERVICES

A request for ***Provision of Electrical Logging Services*** shall be in the form of EQUIPMENT/MATERIALS/SERVICES REQUISITION provided in EXHIBIT X-INVOICING PROCEDURES & ADMINISTRATION GUIDELINES and duly signed by COMPANY's Representative(s) who are specified in Item I-2.5 above.

Technology Transfer Incentive (TTI)

CONTRACTOR is encouraged to submit to CLIENT a TECHNOLOGY TRANSFER INCENTIVE (TTI) plan, it also will be a consideration in the bid evaluation exercise. This shall include but not limited to Manufacturing site visits, technology training for CLIENT's personnel, technical workshops.

Work Order Request

Work Order Request applicable for requesting additional Equipment/ Materials/ Services to be furnished pursuant to this CONTRACT but the rates have not been specified in EXHIBIT IV – CONTRACT PRICE AND PRICE LIST.

Any request for Equipment/ Materials/ Services under Work Order Request category shall within the scope of this CONTRACT and shall be made in writing using WORK ORDER REQUEST format shown in EXHIBIT IX.

The Work Order Request shall state the scope of each "Equipment/ Materials/ Services" Work Site, commencement date, applicable rates, reimbursable cost to CONTRACTOR by CLIENT and other details with respect to the Work Order Request and should there be a conflict, the CONTRACT shall prevail.

IV SCOPE OF WORKS

The equipment listed is proposals only for this operation and do not constitute a commitment by CLIENT to rent or purchase all items. The actual quantities and equipment to be supplied will be detailed in a Call-out instruction issued by CLIENT.

The WORKS is defined and described by, but not necessarily limited to any or all of the following:

IV.1 Equipment and Personnel

IV.1.1 CONTRACTOR shall provide and deliver a well maintained and in good operating condition of equipment as listed in technical specification or elsewhere in the Published Price List, to designated Mobilization Site upon request by CLIENT.

IV.1.2 CONTRACTOR shall ensure that all CONTRACTOR's Equipment is in good working condition prior to the mobilization to the Work Site.

IV.1.3 Equipment shall be inspected and stacked up to CLIENT's satisfaction before sending to offshore for installation.

IV.1.4 CONTRACTOR shall service, and function test all Equipment prior to the mobilization to Work Site.

IV.1.5 CONTRACTOR shall provide sufficient spare parts at the Work Site to maintain the Equipment in good working order.

IV.1.6 CONTRACTOR shall provide Hardware & Explosive include Transportation for drilling support (estimate 03 wells) with the requirement of utilizing Company's Hardware & Explosive available in stock (All Company's Hardware & Explosive available in stock detail as table below). Store and handling the explosive inventory as per the authority regulations

Item	Description	P/N	Unit	Quantity for 03 wells
	Shaped Charges / Cutter			
1	CHARGE ASSEMBLY 4539 PREDATOR XP HMX	F190680604	EA	96
2	CHARGE JRC 2003026 2.0" TP TBG SLIMKONE	F233939000	EA	150

3	CHARGE, ASSEMBLY 2007 PREDATOR ZX HMX	F154910704		180
	Detonating Cord / Booster			
4	CORD DETNTR "REPKD F/AIR" 80grHMX/XHV PS	F180600113	FT	500
5	CORD DETNTR "REPKD F/AIR" 40gr HMX RBBN	F180600700	FT	500
6	HMX B/DRCT BSTR	H067592400	EA	200
	Plug Setting			
7	PWR CHRG, SLOW SET 20	H437660020	EA	10
8	FRNG HD IGNTR, SCNDY	H437431000	EA	40
	Detonator			
9	FRNG HD IGNTR, PRIM 5	H437440001	EA	40
10	DETNTR DYNAWELL 0026 FD HNS 2313290	A2000543000	EA	25
11	DETNTRTOP FIRING JETRCD-1208 MOD EB161 H	F248961000	EA	20
12	DYNAWELL 1020 HNS DETONATOR	A2006996000	EA	0
13	DETONATOR ASSY RP-800 EBW	F180375000		25
	Tubing Cutter			
14	CUTTER 3 5/8" NT CASING CTR CUT3625062NT	A2004820000		1
15	CUTTER,STANDARD TUBING 2500T001	A2006968010		1
	DCST explosives			
16	MDF ASSY, DCST-A, S274-5 JRC SEVERING	F269073001	KIT	3
17	KIT PELLET/CRTG, HMX 1.75 DCST 1-3/8 MDF	A2004269000	KIT	1
18	KIT EXPLSV HMX 2" OD. DCST 101293168	A2003552000	KIT	1
19	KIT EXPLSV HMX 2-5/8" OD. DCST 101293152	A2003550000	KIT	1
	Hardwares			
20	KIT,EHC,2007,2.00" HP,4/0,WL-T,40S	A5000205707	KIT	3
21	KIT EHC 4539 4-1/2" SP 5/60 TCP-T 30S	A5000510107	KIT	3
22	HARDWARE KIT 1 3/4" DCST 1-3/8 MDF JRC SEVERING 101292915	A2004268000	KIT	1
23	KIT HARDWARE 2" OD DCST JRC SEVERING 101292956	A2003551000	KIT	1
24	KIT HARDWARE 2-5/8" O.D. DCST JRC SEVERING 101292957	A2003548000	KIT	1
25	MODULE, PX-1 FIRESET EBW/EFI SOCKET OUT	F267539000	KIT	3

IV.1.7 CONTRACTOR shall provide adequate number of highly competent personnel as specified in technical specifications for the performance of the WORKS at the Work Site.

IV.1.8 CONTRACTOR shall furnish the inspection reports/ certificates of CONTRACTOR's Equipment upon request by CLIENT before delivering to Mobilization Site.

IV.1.9 CONTRACTOR shall be responsible for the installation, maintenance, repair or replacement and removal of CONTRACTOR's Equipment furnished pursuant to this CONTRACT. CONTRACTOR shall always maintain adequate facilities, equipment, supplies and spare parts to ensure that CONTRACTOR's Equipment is in good working condition at all times.

IV.1.10 Upon delivery of Equipment and Tools to the Platform/ Work Site, the Equipment and Tools shall be inspected by CLIENT's Representative to CLIENT's satisfaction and all deficiencies that could prevent the Equipment and Tools from being used for its intended services and shall be corrected to CLIENT's satisfaction at CONTRACTOR's sole cost.

IV.1.11 Upon completion of WORKS, CONTRACTOR's Personnel shall make ready all CONTRACTOR's Equipment for offloading onto the supply vessel(s).

IV.1.12 CONTRACTOR shall be responsible for the removal of CONTRACTOR's Equipment from the designated Demobilization Site. Rental shall cease when CONTRACTOR's Equipment reaches the Demobilization Site.

IV.1.13 In the event that the work is interrupted or retarded for lack of equipment, accessories or spare parts which would normally be carried as routine, the relevant rates of service charges shall cease to apply and shall not resume until such lack has been remove.

IV.1.14 CLIENT shall not, without CONTRACTOR's consent, authorize any person other than CONTRACTOR Personnel to operate CONTRACTOR Equipment, except in an emergency, in which case, CLIENT may utilize CONTRACTOR Equipment in an appropriate manner.

IV.1.15 CONTRACTOR shall prepare Equipment Rental Report (ERR) or CONTARCTOR's Completion job/ job log/services ticket with similar information, listing all equipment on rental to CLIENT.

These sheets, duly signed by the CLIENT's Representative shall be presented with the invoice as part of the supporting document.

CLIENT's Representative will provide all assistance to ensure these records are accurate and reflect the exact amount of CONTRACTOR's Equipment at the Work Site.

IV.1.16 CONTRACTOR shall maintain an inventory of available stock of Products onboard the rig. CONTRACTOR shall furnish CLIENT's Representative with a clean, legible copy of the Monthly Inventory Report and make the necessary arrangements for shipment of Products to ensure efficient operation.

IV.1.17 CONTRACTOR shall be using CONTRACTOR Equipment and CONTRACTOR Personnel, perform the WORKS in accordance with CLIENT Drilling Program.

The Electric Wireline Logging, VSP, cut SWC and Perforation Services required by CLIENT in the performance of this CONTRACT shall be, but are not limited, to the following:

a) CONTRACTOR to supply 04 copies each of 1:200, 1:500 scale log paper prints for each logging run.

b) CONTRACTOR to supply 04 completed set of log data in Flash drive in any format specified by CLIENT for each logging run.

IV.2 Operation Requirements

The CONTRACTOR will demonstrate that he is capable of supplying all equipment necessary for these logging programs with 100% back-up for downhole tools. The CONTRACTOR will demonstrate a sufficient level of surface equipment redundancy for acquisition, processing, and display functions that ensure a continuous series of logging operations.

IV.2.1 Tool Preparation, Calibration & Monitoring

- CONTRACTOR shall prepare and operationally check all logging tools, in accordance with its standard preparation procedures, prior to mobilization of such equipment to the rig. Documented evidence of such preparation and checking shall be maintained by CONTRACTOR and shall be made available to CLIENT on request. CLIENT may at its option observe such preparation and operational checks.
- CONTRACTOR shall maintain for downhole logging tools, a detailed record of operational checks covering the period from tool preparation, as detailed above, until termination of the rental period for such tool.

IV.2.2 Third Party Operations

Where Third Party downhole equipment and recording systems are employed, both CONTRACTOR and Third Party will be responsible for ensuring, prior to mobilization, that all necessary interconnecting cabling, plugs and sockets are available, and tested, in order that the Third-Party equipment can be recorded through CONTRACTOR's wireline. This will also apply when the CONTRACTOR is acting as the Third Party.

IV.2.3 Planning, Co-Ordination, Scheduling and Execution of Activities

- CONTRACTOR shall schedule the provision of the CONTRACTOR EQUIPMENT required to perform the SERVICES (including the materials and equipment of SUBCONTRACTORS) to ensure availability to meet the requirements of CLIENT.
- The nature and criticality of certain operations may require CLIENT to instruct CONTRACTOR to immediately reorganize its resources and

respond to unforeseen priorities. CONTRACTOR shall have ongoing communications with CLIENT to ensure that it can and will take all possible measures to accommodate all operational requirements of CLIENT and prevent disruptions to drilling and related operations.

- CONTRACTOR shall ensure that its scheduling of the CONTRACTOR EQUIPMENT is sufficiently detailed such that any change is identified at an early stage.
- Deviations from the agreed schedule and well plans shall be reported immediately by either party or CONTRACTOR shall thereupon proceed with the development of a mutually agreed recovery plan.
- Delivery dates shall not be amended without the prior written authorization of CLIENT REPRESENTATIVE.
- CONTRACTOR shall attend regular planning/progress meetings at CLIENT's offices at CLIENT's request.
- CONTRACTOR shall plan to minimize the offshore rental period for all rental equipment and identify the optimum maintenance schedule.

IV.2.4 Performance Review

CONTRACTOR shall review the quality of the activities related to the SERVICES and standard of performance provided to CLIENT on a well-by-well basis or as otherwise required. This review shall take the form of a management presentation, describing successful operations, equipment, material and/or failures, investigation and procedures resulting from the activities related to the SERVICES, movements of CONTRACTOR PERSONNEL and other relevant information that CONTRACTOR wishes to describe. CONTRACTOR shall participate in CLIENT performance monitoring requirements and reporting.

IV.2.5 Records and Reports

- CONTRACTOR shall supply data from conventional logs on Flash drive in ASCII format within 1 hour of logging. CONTRACTOR shall provide edited DLIS format on Flash drive and a minimum of one paper print of such data to CLIENT twelve (12) hours of successful transmission from the Rig.
- All CONTRACTOR generated reports (unless otherwise specified) shall be submitted to CLIENT REPRESENTATIVE. CONTRACTOR shall plan, monitor, control and report the operational progress of any activities related to the SERVICES as a total project, regularly and at agreed frequency.
- CONTRACTOR shall provide operational information to assist in the compilation of the daily morning report as requested by CLIENT REPRESENTATIVE or the Drilling CONTRACTOR.
- CONTRACTOR shall prepare and present an end of operations report submitted within seven (7) days of the end of the well.
- CONTRACTOR shall maintain a written log of all events arising during performance of activities related to the SERVICES. This log may be

subject to a CLIENT / CONTRACTOR end-of-operation de-brief.

IV.3 Data Management

The following data management, processing and interpretation can be split between that can be performed at the wellsite and the advanced processing along with interpretation that is performed at a Geoscience Centre. Both the advanced processing and interpretation elements may be performed by the CONTRACTOR, in-house by the CLIENT or assigned to a third party.

IV.3.1 Data QC/Processing/Interpretation

- Wellsite QC is the processing of field data at the wellsite so that it is in a useful format to the CLIENT.
- Advanced Processing is the processing of field data that cannot be performed at the wellsite to get it into a form useable by the CLIENT, CONTRACTOR or THIRD-PARTY Geoscience groups.
- Interpretation is defined as interpretation, studies and reports based on the processed data.
- The CONTRACTOR is expected to clearly state which processing can be performed at the wellsite and which needs to be performed at the CONTRACTOR Geoscience Centre.

IV.3.2 Data Management – Standard Services

IV.3.2.1 Real-Time Data Transfer

If requested by asset the CONTRACTOR shall provide a secure, real-time data transfer and storage system, which shall be web-based. This system allow for real-time onshore analysis of all logging data.

IV.3.2.2 Data Delivery - Wellsite

- Rush data is to be delivered at the wellsite in ASCII or LAS format on a flash storage device for transmission to the CLIENT. The log picture files shall be delivered in a PDS/Meta file or equivalent format also for transmission. A set of field log prints will be made available at the wellsite.
- For all services, the CONTRACTOR is expected to deliver data usable by the CLIENT to the CLIENT representative at the wellsite before the CONTRACTOR PERSONNEL leave the wellsite as part of the survey charge. For the newer technology, imaging tools and seismic services, the CONTRACTOR must clearly state the format of the deliverable data.

IV.3.2.3 Data Delivery – Final package

It is the CONTRACTOR's responsibility to deliver the final data package to the CLIENT regional office. The final data package is to

consist of complete sets of color prints and Flash drives of digital data (ASCII/LAS, DLIS or equivalent, PDS/Metafile or equivalent) of the whole series of operations. The actual numbers required will be specific to each asset. The actual data requirements will be specific to each asset.

IV.3.2.4 Data Delivery – Processing

If the data needs further processing by the CONTRACTOR onshore in order to reach the level specified by the service, then this will be at no extra charge. For the newer technology, imaging tools and seismic services, the CONTRACTOR must clearly state the format of the deliverable data.

Further processing in order to recover/compensate data from the effects of a tool failure, shall be performed by the CONTRACTOR and incorporated in the survey charge.

IV.3.2.5 Data Delivery – Advanced Processing

CONTRACTOR shall, if requested, perform advanced processing (or pre-modelling), in house, using its own staff and equipment for resistivity, VSP, dipole sonic, formation tester and nuclear magnetic resonance data. The CONTRACTOR must clearly state the format of the delivery data and the costs of the advanced processing or pre-modelling.

CLIENT reserves the right to perform all or any of the data processing in-house or use the services of a Third Party. The CONTRACTOR will provide all the useable data for this undertaking as part of the survey charge.

V. CONTRACTOR WORK PERFORMANCE EVALUATION

CLIENT shall continuously evaluate the work performance of CONTRACTOR pursuant to the requirement of the CONTRACT throughout the term of the CONTRACT.

END OF EXHIBIT

APPENDIX IV-7

PRICE SCHEDULE FOR EQUIPMENT & PERSONNEL OF PROVISION OF ELECTRICAL LOGGING SERVICES FOR DAI HUNG NAM

Example For 18X Well (Optional)

TABLE A.1 – MONTHLY CHARGE FOR DH-18X

No	Description	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Remark
1	**Mobilization and Demobilization**					
	Logging Unit and Equipment	Lump sum	1			
	Personnel	Lump sum	1			
2	**Exclusive Equipment and Personnel**					
2.1	**Logging Unit, Surface and Downhole Equipment** Included but not limited: Basic safety device and accessories (Hydraulic Jar (Optional), Roller wheel, swivel, gamma ray …)	monthly	1.97			
2,2	**Drilling support package** Included but not limited: Free point indicator, casing collar locater/gammary, severing tool …	monthly	1.97			
2.3	**Pipe convey logging**	day	59			
2.4	**Logging while fishing**	day	59			
2.5	**Exclusive crew**					
	One (1) Logging Engineer + Two (2) Logging Operators	day	59			(10 days/month)
2.6	Additional exclusive crew	Per day	1			
3	**Rebate**					
		Per month	BIDDER is required to propose rebate calculate model			

TABLE B – CALL OUT PERSONNEL

Section	Description	Unit	Quantity	Unit Price (USD)	Total Price (USD)	Remark
16"	Logging Engineer	day	6			one crew for 6 days (one logging engineer, two logging operator)
	Logging Operator	day	6x2			
12¼"	Logging Engineer	day	8			one crew for 8 days (one logging engineer, two logging operator and one logging specialist)
	Logging Operator	day	8x2			
	Logging Specialist	day	8x2			
8½"	Logging Engineer	day	8			one crew for 8 days (one logging engineer, two logging operator and two logging specialist)
	Logging Operator	day	8x2			
	Logging Specialist	day	8x2			

TABLE C – CALL OUT EQUIPMENTS AND OPERATION CHARGE

Section	Service description	Opration rate ($us)	Rental rate ($us)	Remark
26"	**GYRO by wireline**			Firm
12¼"	**Run 1.1 – Basic run** GR/RES/NEU/DENS			Contingent
	Run 1.2 – Formation Testing (20 pressure point + 03 PVT sample + 03 single phase sample)			Contingent
	Run 1.3 – Resistivity Imaging			Contingent
8½"	**Run 2.1 – Basic run** GR/RES/NEU/DENS			Contingent
	Run 2.2 – Formation Testing (30 pressure point + 03 PVT sample + 03 single phase sample)			Contingent
	Run 2.3 – Resistivity Imaging			Contingent
	Run 2.4 Side Wall Core (30 samples)			Contingent
	Run 2.5 – Borehole Seismic (Walk above)			Contingent
	Run 2.6A – Cement Evaluation 7" Liner (SBT-VDL)			Firm
	Run 2.6B – Cement Evaluation 9 ⅝" casing (SBT-VDL), GR up to Surface			Firm
	Mechanical Pipe Cutter/Other equivalent			Contingent
	High Strength Cable			Contingent
	Flywheel			Contingent
	PCE			Contingent

TABLE D – DATA PROCESSING AN INTERPRETATION

No.	Data processing and interpretation	Unit	Rate ($us)	Remark
1	Full waveform acoustic processing (Compressional, Shear and Stoneley)	meter		
2	VSP processing	Job		
3	Resistivity imaging	meter		
4	Data service, quick interpretation LWD data…	Job		
5	Technical & lesson learn meeting	Lumpsum		

TABLE E – EXPLOSIVE, HARDWARE AND TRANSPORTATION

<<CONTRACTOR TO OFFER for 01 well>>

Explosive to support DRL

No.	Description	Unit	Qty	Unit price	Total price	Remark
1						
2						
3						

Hardware to support DRL

No.	Description	Unit	Qty	Unit price	Total price	Remark
1						
2						
3						

Transportation fee	Lump sum	1			

TABLE F – DRILLING SUPPORT EQUIPMENT

No.	Description	Unit	Qty	Unit price	Total price	Remark
1	Pip tag	ea	4			
2	Plug Setting	ea	1			
3	Explosive DP/HWDP/DC/Casing/Tubing Cutter	ea	1			
4	Casing/Tubing Puncher	ea	1			
5	Back-off	ea	1			
6	Mechanical Pipe Cutter/Other equivalent	ea	1			
7	Others.....<<CONTRACTOR TO OFFER>>					

Notes:

Bidder proposes all items as per "EQUIPMENT AND PRODUCT SPECIFICATIONS FOR ELECTRICAL LOGGING"

Bidder proposes option for Exclusive rental