

NISOC

053-073-9184

نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بستههای کاری تحتالارض

HIRGAN TO

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

برق رسانی مربوط به موقعیت ۷۷٬۵۵۲۶ و نوسعه چندراهه کلاستر بینک

DATA SHEETS FOR OIL SUMP PUMP - EXTENSION OF BINAK B/C MANIFOLD

 DATA SHEETS FOR OIL SUMP FOMP - EXTENSION OF BINAR 5/C WANIFOLD

 نسخه
 سریال
 نوع مدر ک
 رشته
 تسهیلات
 صادرکننده
 بینه کاری
 پروژه

 BK
 W007S
 PEDCO
 110
 ME
 DT
 0001
 D02

شماره صفحه: 1 از 5

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR OIL SUMP PUMP - EXTENSION OF BINAK B/C MANIFOLD (P-1701)

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D00	DEC. 2021	IFC	H. Adineh	M. Fakharian	M.Mehrshad	
D01	APR. 2022	IFA	H. Adineh	M. Fakharian	M.Mehrshad	
D02	AUG. 2022	IFA	H. Adineh	M. Fakharian	M.Mehrshad	

Class: 2 CLIENT Doc. Number: F0Z-707933

status: IDC: Inter-Discipline Check

IFC: Issued For Comment
IFA: Issued For Approval
AFD: Approved For Design

AFC: Approved For Construction
AFP: Approved For Purchase
AFQ: Approved For Quotation
IFI: Issued For Information
AB-R: As-Built for CLIENT Review

AB-A: As-Built –Approved



D02

0001



NISOC

شماره پیمان:

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات

برق رسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک DATA SHEETS FOR OIL SUMP PUMP - EXTENSION OF BINAK B/C MANIFOLD

ا مدرک رشته تمهیلات صادرکننده بسته کاری پروژه BK W007S PEDCO 110 ME DT شماره صفحه: 2 از 5

REVISION RECORD SHEET

Description Doc Do						KLVISION K	 ND OFFICE					
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ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک



شماره صفحه: 3 از 5

شماره پیمان:

DATA SHEETS FOR OIL SUMP PUMP - EXTENSION OF BINAK B/C MANIFOLD

053-073-9184

 نسخه
 سریال
 نوع مدر ک
 رشته
 تسهیلات
 صادر کننده
 بسته کاری
 پروژه

 BK
 W007S
 PEDCO
 110
 ME
 DT
 0001
 D02

DO2 GENERAL NOTES

1 Design Conditions:

Min./Max Design Temp.°C

Max.Design Press.(barg)

-5 / 85

14.1

- 2 For electrical motor descriptions, refer to 'Specification For LV Electro Motors' Doc. No. BK-GNRAL-PEDCO-000-EL-SP-0010.
- 3 Vendor shall fill in the blanks and return the completed data sheet along with Motor data sheet, "Doc. No.: BK-GCS-PEDCO-120-EL-DT-0008 & 0009 with his proposal.
- 4 Vendor shall submit ITP (Inspection & Testing Plan) with his proposal.
- 5 The motors,pump coupling and pump accessories shall be supplied from the project's approved vendor list (A.V.L.).
- 6 Vendor is requested to confirm the material, or propose appropriate alternative.
- Mechanical seal data sheet shall fill in by vendor as per API 682. Pump Manufacturer shall supply all instrumentation for mechanical seals as per API 682 4th Edition and project requirements.
- 8. NPSH test shall be done & witnessed if the margin of NPSHr & NPSHa is less than 1.
- 9. The Tie-in flanges shall conform to B-16.5.
- 10. Supplier to indicate which minimum flow pumps can achieve.
- 11. Pumps shall be designed, fabricated, tested, and inspected in accordance with the requirements of ISO 5199 latest edition.
- 12. Pump starts automatically with open delivery valve.
- 13. Electrical motor shall be rated for the end of curve.
- 14. The discharge line is 3".
- 15. The material shall be in compliance with NACE MR0175/ISO15156 and Specification For Material Requirements in Sour service Document No. BK-GNRAL-PEDCO-000-PI-SP-0008.
- Based on project instrumentation specification, these equipments are classified as Type B (Connected to DCS/ESD): Centrifugal Pump Package
- 17 Ultrasonic Test shall be performed for forged shaft.
- 18 For pumps with vacuum suction pressure the minimum NPSH margin shall be 2 m. for other pumps the minimum NPSH margin shall be 1 m.
- 19 Couplings shall be dry, flexible and spacer type.
- 20 Bearing temperature shall be measured during mechanical run test.
- 21 For site conditions refer to Process basis of design document; Doc.No: BK-GNRAL-PEDCO-000-PR-DB-0001.
- 22 Power Factor, efficiency, frequent, voltage, frequent variation and voltage variation of motor shall be specified by vendor in data sheet.
- 23 Minimum Design Metal Tem (MDMT) = -5
- 24 Vendor to provide the pump with mentioned flow rate or minimum available flow rate at market.
- 25 Max. allow. Sound press. Level =85 dBA.
- 26 Allowable external forces and moments on nozzle should be conformed to Spec. No.: BK-GCS-PEDCO-120-ME-SP-0004.
- 27 All drain and vents (If any) to be manifolded, valved and routed to the skid edge.
- 28 Density (kg/m3): 850~970.
- 29 Deleted
- 30 Pumping temperature (°c); min: -5 max: 50
- 31 H2S Concentration (ppm): 10.8
- 32 Hydraulic Power (KW): 5.27
- 33 Maximum allowable pressure at shut-off is 14.1 barg. MAWP to be specified by vendor and shall not be less than 14.1 barg.
- 34 Estimated BHP is 17.57 kW considering 30% efficiency.
- 35 For P&ID refer to " P&ID Extension of Binak B/C Manifold; BK-W007S-PEDCO-110-PR-PI-0001.



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شماره پیمان:

ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برق رساني مربوط به موقعيت W007S و توسعه چندراهه كلاستر بينك

DATA SHEETS FOR OIL SUMP PUMP - EXTENSION OF BINAK B/C MANIFOLD

														_			
	053-073	-9184		-31	بسته کاری	صادر کننده	تسهيلات	ِشته		نوع مد	سريال		نسا	5	4 از	ه صفحه:	شمارد
			E	BK \	W007S	PEDCO	110	ME		DT	0001	D	02				
				•						•							
]	ISO Std. 5199 C	CENTRIFUGA	L PUMP I	DATA SHEI	T (SI UNIT)							
Corpora	ate name																Rev.:
NIS	SOC						Centrifug	gal pum	ıp Data s	heet							Data:
1120	300																Name:
									Service:				UMP PUMP				
Plant: B	INAK GCS								Ref. Standar				99 , IPS-M-PN				
								F	Ref. Spec. N			BK-GC	CS-PEDCO-12		<u>?-0004</u>		
	No. req.	Pump type		Eq. API-61		Mfr. se	erial No.		K	ind of driver			Drive, type				Item No.
Operation	1	Vertical		VS1 (V'	TC)	D02 \				Motor		L	Induction El	ectric Mo	otor		P-1701
Standby																	
	Installation							F	Pump weight					Pump	Conte	ent	
	Assembly p	ump							Customer		Enquiry No	Э.					Date
Drawings	Assembly s	haft seal							Justomor		Order No.						Date
		xiliary system							Supplier		Proposal N						Date
	Sna	aft seal									Contract N						Date
Test (Note 4)					Inspectio		Perforn			(Note 8)	So	ound Level		al inspec			ved documents
Refer.	ISO 51				ISO 519		ISO 519			5199				ISO 5199			ISO 5199
Witn. by	Certifi	ed Witn	essed		Witnesse		Witness	ed	Wit	nessed	((Note 25)		Certified	1		Certified
		·				/ D02 \											
								ng Condit									1 0 10
Liquid		Oil/HC		4			rated		16.50	m³/h	NPSH at ra	ated flow			- NPSI		2.40 m
Solids	Туре			Flow			normal		15.00	m³/h				Pump	- NPS	H3	m
	%of mass						min.			m³/h	Pump spee						rpm
Corrosion by					flow require	d			0.00	m³/h	Pump efficiency rated Pump power input rated (Note 2)					%	
Op. Temp. (N		-5 / 50	°c	Inlet gauge	е		min.		0.00	barg			ed (Note 2)				kW
pH-value at T				pressure			max.		0.30	barg	Pump pow	/er			impelle		kW
	Density at Top 970 kg/m ³		-	Outlet gage pressure rated Differential pressure rated				11.50	barg	input			max.	impelle	ar dia.	kW	
	apour press. at Max. T 0.8 bara			•	rated			11.50	bar			output rated				kW	
	inematic vis. at Top 9.5 cP			Total head rated Shut-off head D02				120.90	m			output rated				kW	
Specific heat	at Iop		J/Kg.K	Snut-off ne	ead	/ D02 _	Construc	tion Foot		m	Performan	ice curve N	0.				<u> </u>
Design		14.1	barg	May allow	iahla work r	press (Note 33		lion real	By Vendor	barg	Cooling wa	ater condition	n .	\neg	N.A		ı
Design		14.1	bary	IVIAX. AIIOW	rable work p	oress (Note 55	,		By venuor	barg			,,,	+-			
Number of St	tages			Test pressure						Cooling (C Series (s)	ر)			N.A			
										` ' '		↓			ļ		
Self priming				Inlet F	Flange	Size/Position						l), Parallel (p)	CI	H S	Р	Quantity
Impeller	max		mm			Rating/facing					Bearing			$\bot\bot\bot$			
diameter	rated		mm	Outlet	Flange	Size/Position				/ Up	Seal Cham			$\bot\bot$	Щ.	<u> </u>	ļ
	min		mm			Rating/facing	(Note 14)		300	# / RF	Cooler for	seal flush		$\bot\bot$	Щ.	<u> </u>	ļ
Pump length ver			mm	Vent conne							Oil cooler						
	ertical pumps	ļ	mm	Drain conn							Flush			Д_	Liqui	d	Quantity
Casing split					manufactu	re					Lantern rin						
Casing seal t		1		Type, size						h. Seal	Mechanica			—			
Impeller type				Flush plan				_	31	(VTC)	Gland/Sea	ıı plate	14	$+\!-\!\!-$			<u> </u>
Casing suppo				Material co							⊣	_	Manufacture				
Rotation(looking					ng ring dim	ension	I				Coup		Type, Size	—			
Axial thrust re				Rad. Beari			Туре	L			(Note	e 19)	Diameter ma				mm
	Impeller		mm	Axial. Bear			Size				1		Spacer lengt	n			mm
Total	Bal. Drum		mm	Line shaft							Baseplate			—			
clearance	Shaft bushe	\$	mm	Bearing br							Anchor bol	Its supplied	-			Vend	
	Wear plate		mm	Lubrication							Driver	Supplie				Vend	
Wall thicknes	ss rot sheath /	stat. cas		Lubrication	n device		Na	Det A:	tee 04 00°			Mounte	ed by			Vend	or
Location	○ P=	rtial sides	Outdoor	Ι.	Unhea		Site and Utility			Elev	otion		<u> </u>	Baron	notor		mba
Location						nea		Site data					n	n Baron		EIEO	
	ation REQ'D	O Dust		ation REQ'D		Others				mps: MIN/MA	۸			$+\!-\!$		-5/50	*C
Unusual cond		O Dust	O Fume			Others	2		humidity: M					$+\!-\!\!-$		0/100	%
	olt. 40	00 Hertz		50	→ Ph	ase	3			n (Note 22)	0)			$+\!-\!\!-$		± 5%	
Type of prote		aculation alses			D03			Max Fre	quency Vari	ation (Note 2	togoth			$+\!-\!\!-$		± 29	
		sulation class	4 ***		D02 🔽					ency Variation	i togetner			—		± 5%	
⊏iectric Area	Classification	Zon	e 1, IIB, T	13				Starting	iviethod					l I).O.L.	Open Di	scharge Valve





NISOC

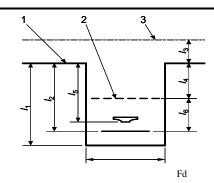
ساخت موقعیت چاه، تأسیسات سرچاهی، خطوط جریانی، تسهیلات برقرسانی مربوط به موقعیت W007S و توسعه چندراهه کلاستر بینک

112000									
شماره پیمان∶		DATA S	SHEETS FOR C	OIL SUMP PUN	IP - EXTENSI	ON OF BINAK B/	C MANIFOLD	•	
053-073-9184	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدر ک	سريال	نسخه	شماره صفحه : 5 از 5
033-073-9164	BK	W007S	PEDCO	110	ME	DT	0001	D02	1
			ISO Std. 5199	CENTRIFUGA	L PUMP DAT	A SHEET (SI UNI	(T)		
				Mate	rial (VTC)				
API class S-6 (According to API-610)	(Notes	6,15)							
Casing	Bearin	ng bush							plate & gasket
	-								

Discharge casing	Balance disc-drum		Rotor ring Inner/outer
Suction casing	Bal. counter disc-drum bus.	Mecan.	Static ring Inner/outer
Stage casing	Contrain.shell / Stat.casing	Seal	Spring or bellow
Suction impeller	Rotor sheath / can		Seal metal parts
Impeller	Magnet material		Rotary & Static ring seats
Diffuser	Barrel	Stuffing	Gland Plate
Wear ring casing	Column pipe	box	Soft packing ring
Wear ring impeller	Bearing bracket	DOX	Lantern ring
Wear plate / lining	Motor stool	Shaft sleeve	
Case bush	Coupling	Throat bush	
Casing gaskets	Coupling guard	Paint	According to "Specification for Painting";
Shaft	Base plate	Paint	Doc. No. BK-GNRAL-PEDCO-000-PI-SP-0006
	DOO Sump Arrang	ement	

Sump Dimensions:

Grade Elevation	1		m
Low Liquid Level	2	0.1	m
C.L. Of Discharge	3		m
Sump Depth	11	3	m
Pump Length	12		m
Grade to Disch.	13		m
Grade to Low Liquid Level	14		m
Grade to 1st Stg Impl'r.	15		m
Submergence Req'd	16		m
Sump Diameter	Fd		m



Remarks

ABID - Extension of Binak B/C Manifold; BK-W007S-PEDCO-110-PR-PI-0001.							

	Customer	Supplier				
Prepared (Data / Dep/ Signature)	Checked (Data / Dep/ Sign.	Prepared (Data / Dep/ Signature)	Checked (Data / Dep/ Sign.)			