



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

MECHANICAL DATA SHEETS FOR FLARE KO DRUM PUMPS

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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GCS	PEDCO	120	ME	DT	0024	D08

شماره صفحه: ۱ از ۹

طرح نگهداشت و افزایش تولید ۲۷ مخزن

MECHANICAL DATA SHEETS FOR FLARE KO DRUM PUMPS

نگهداشت و افزایش تولید میدان نفتی بینک

D00 REV.	JAN. 2022 NOV. 2021 Date	IFA IFC Purpose of Issue/Status	H. Adineh H. Adineh Prepared by:	M.Fakharian M.Fakharian Checked by:	M. Mehrshad M. Mehrshad M. Mehrshad Approved by:	CLIENT Approval
D00	JAN. 2022	IFA	H. Adineh	M.Fakharian	M. Mehrshad	
D01	MAIN. ZUZZ	II A	H. Aumen	W.Faknanan	w. wenrsnad	
D02	MAR. 2022	IFA	H. Adineh	M.Fakharian	M. Mahaahaal	
D03	APR. 2022	IFA	H. Adineh	M.Fakharian	M. Mehrshad	
D04	SEP. 2022	IFA	H. Adineh	M.Fakharian	M. Mehrshad	
D05	MAY. 2023	IFA	H. Adineh	M.Fakharian	A.M.Mohseni	
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D07	JUN.2024	AFC	V.Amjadi	M.Fakharian	M.Sadeghian	
D08	NOV.2024	AFC	V.Amjadi	M.Fakharian	M.Sadeghian	

Class: 1 CLIENT Doc. Number: F0Z-708855

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





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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

 MECHANICAL DATA SHEETS FOR FLARE KO DRUM PUMPS

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

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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض



شماره پیمان:

احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک MECHANICAL DATA SHEETS FOR FLARE KO DRUM PUMPS

 MECHANICAL DATA SHEETS FOR FLARE RO DROM POMPS

 نسخه
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 رشته
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شماره صفحه: ۳ از ۹

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							c

- Mass Density [kg/m3] at Min. / Norm / Max. Temp: 852 / 980 / 1022
- Viscosity [cP] At Min. / Normal / Max. Temp: 1.03 / 0.46 / 1.5
- Suction & Discharge line diameters are 2".
- Mechanical Seal data sheet shall be filled in by vendor as per API 682, 4th edition.
- A drain line to be considered in barrel and to be pipe up to mounted skid. Pump drain shall be terminated at skid edge with flange connection and valved. Valves in the piping system shall be Welded Flanged type.
- Material class of 'I-1', 'I-2', 'S-1', 'S-2', 'S-3', 'S-4', 'S-5', 'S-6', 'C-6' 'A-7' and 'A-8', which is defined in API 610 table H.1, shall be provided with full chemical analysis and mechanical test certification to BS EN 10204:2004 "3.1".

Material class of 'D-1' and 'D-2', which is defined in API 610 table H.1 and also titanium materials shall be provided with full chemical analysis and mechanical test certification to BS EN 10204:2004 "3.2".

- 7 PMI Testing for Alloy Steel Shall be Done.
- 8 If NPSH margin be less than 1m, NPSH test Shall be Done.
- API Plan 31-53B shall be considered. (vendor to confirm)
- 0 Design Condition:

(Min./Max.) Design Temperature(°C): 5 / 85

Design Pressure(barg): 9

- 1 Temperature finalize after depressurizing study.
- 12 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" with his proposal.
- 3 Vendor shall submit ITP (Inspection & Testing Plan) with his proposal.
- 14 Vendor is requested to confirm the material, or propose appropriate alternative.
- 15 The Tie-in flanges shall conform to ASME B-16.5.
- 16 Vendor to indicate which minimum flow pumps can achieve.
- 17 Pumps shall be designed, fabricated, tested, and inspected in accordance with the requirements of API 610 11th edition
- 18 Welding repair procedures shall be submitted for approval.
- 19 If pump is self venting there is no need for vent.
- Ultrasonic Test shall be performed for forged shaft.
- 21 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.
- 22 Spare parts shall be supplied by vendor according to 'MR's appendix for Centrifugal Pumps;

Doc. No.; BK-GCS-PEDCO-120-ME-MR-0009"

- 23 Bearing temperature shall be measured during mechanical run test.
- 24 For electrical motor descriptions, refer to 'Specification For LV induction Motors' Doc. No. BK-GNRAL-PEDCO-000-EL-SP-0010. and 'Specification for MV induction motors' Doc.No. BK-GNRAL-PEDCO-000-EL-SP-0017.
- 25 Electrical motor shall be rated for the end of curve
- 26 For site conditions refer to Process Basis of Design Document. Doc.No. BK-GNRAL-PEDCO-000-PR-DB-0001
- 27 Power Factor, efficiency, frequent, voltage, frequent variation and voltage variation of motor shall be specified by vendor in data sheet.
- 28 Allowable external forces and moments on nozzle are equal to two times of table 5 of API 610-11th edition.
- 29 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
- Range of Amb.Temp.: Min. ambient temperature: 5 °C, Max. ambient temperature: 50 °C.
- 31 Coupling shall be flexible with spacer and coupling guard shall be of Non-Spark type.
- 32 elevation of pump centerline from ground is 76 cm
- 33 The motors, pump mechanical seal, pump coupling and pump accessories shall be supplied from the project's approved vendor list (A.V.L.). Chinese & Indian vendors are not acceptable for Mechanical seal, Electro motor and coupling subvendors.
- Max Allowable Pressure at Shut-Off(barg): 9
- Barometric pressure in Binak new GCS; winter: 14.37 psia summer: 13.26 psia
- According to API 610-11th edition for 'this type pump minimum MAWP shall be 40 bar @ 38 °C
- All of required tests & inspection requirements will be finalized in Pre Inspection Meeting (PIM) with client.





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

ئىمارە يىمان:

٤٨١٤ – ٢٧٠ – ٢٥٠

 MECHANICAL DATA SHEETS FOR FLARE KO DRUM PUMPS

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

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شماره صفحه: ٤ از ٩

ADI Sta 610 CENTI	RIFUGAL PUMP DATA SHEET (SI UNIT) - P-220	1 A/R (Shoot 1 of 6)						
Ari su, olo Centi	NIFUGAL FUMF DATA SHEET (SI UNIT) - F-220	1 A/B (Sheet 1 of 0)						
CLIENT:	National Iranian South Oil Company (NIS	SOC)						
PROJECT TITLE:	BINAK New Compressor Gas Station							
JOB NUMBER:								
EQUIPMENT NUMBER:	P-2201A/B							
EQUIPMENT SERVICE:	FLARE KO DRUM PUMPS	FLARE KO DRUM PUMPS						
SERIAL NUMBER:								
REQ. / SPEC NO. :	BK-GCS-PEDCO-120-ME-SP-0003							
PURCH ORDER NO.								
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drop down list								
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COMMENTS:								
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ITEM No. ATT	DATA SHEETS ITEM No.	ATT	ITEM No.	ATT				
PUMP P-2201 A MOTOR	P-2201 B							
GEAR TURBINE								





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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:		MECHANICAL DATA SHEETS FOR FLARE KO DRUM PUMPS								
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شماره صفحه: ٥ از ٩

		BK G	iCS PEDC	Ю	12	0 N	ME DT	0024	D08		
		API St	d. 610 CENTRIFUC	GAL PU	JMP DA	TA SHEE	ET (SI UNIT) - P-2	2201 A/B (She	eet 2 of 6)		
APPLICABLE TO: PROPOS	CAL					4 DDI	JCABLE NTL/INTN	TH OTHER ADD	ADI (10	11th Edition, IPS-G-PM-105	
FOR	JAL	NISOC				UNIT		IL STANDARD); All 010 -	Titir Edition, II 3-Q-I M-103	
SITE	RINA	K Gas Compressor	Station			SERV					
NO. REQ 2(1+1)		MP SIZE	Station			TYPE		IZENTAL	No. STAC	ES V.T.A	
MANUFACTURER		WI SIZE				MOD			SERIAL N		
				L	IOUID C	HARACTE					
	Units	Maximum	Minimum		Note		SERVICE:			INTERMITTEN	T
LIQUID TYPE OR NAME :		H			Max & r	nin	• IF INTERMITTEN	T NO. OF STAI	RTS:	-	
VAPOR PRESSURE :	bara	1			values re		PUMPS OPERATE	IN:			
DENSITY : (Note 1)	kg/m³		852		only to th		CORROSION DUE	TO: (6.12.1.9)			
SPECIFIC HEAT:	kj/kgC				property		EROSION DUE TO	: (6.12.1.9)			
VISCOSITY : (Note 2)	cР	1.50	1.03		listed		H2S CONCENTRA	TION (ppm): (6	.12.1.12)		584.6
008	OPERAT	ING CONDITION	IS (6.1.2)				CHLORIDE CONC	ENTRATION (I	ppm):		
	Units	Maximum	Rated	No	rmal	Min	PARTICULATE SIZ	ZE (DIA IN MIC	CRONS)		
NPSH _A Datum:			C.L. Impelle	r			PARTICULATE CO	ONCENTRATIO	N (PPM)		
PUMPING TEMPERATURE :	°C		5(worse case)				SOUR SERVICE:				YES
FLOW:	m ³ /hr		2.20	2.	.00						
DISCHARGE PRESSURE:	barg		1.8								
SUCTION PRESSURE :	barg	0.8				0.5					
DIFFERENTIAL PRESSURE :	bar		1.5								
DIFFERENTIAL HEAD :	m		15.6								
NPSH _A :	m		3.2								
HYDRAULIC POWER:	KW		0.1								
				SI	TE AN	D UTILIT					
LOCATION:							COOLING WATE	R : (Not Availa		mu I provou I	
MOUNTED AT :	JNHEATED	- mnonraur	TO LETTON PROJE		-		TEN ID		RETU	RN DESIGN	
ELECTRIC AREA CLASSIFICATION	ON: (6	1.22) ZONE	LISATION REQ'D				TEMP PRESS.				
GROUP II A	\wedge	TEMP CLASS	T3		-		SOURCE		-		
SITE DATA :	D08	This child			-			ATER CHLORID	E CONCENTRATIO)N:	
ELEVATION (MSL): 12.5	m	BAROMET	ER:	(No	te 35)	mBar	INSTRUMENT AI		kg	MIN kg	
RANGE OF DESIGN TEMPS: MIN / M	IAX	5	85	°C			STEAM				
RELATIVE HUMIDITY: MIN / MAX		0		%	(@ 25.6	°C)			DRIVERS I	HEATING	
UNUSUAL CONDITIONS:							TEMP				
UTILITY CONDITIONS:							PRESS.				
ELECTRICITY: DRIVERS	HEATING	CONTROL	SHUTDOWN					_	<u> </u>		
VOLTAGE 400											
PHASE 3											
HERTZ 50											
	P	ERFORMANCE	3						DRIVER (7	7.1.5) (Note 27)	
PROPOSAL CURVE NO.		RPM					Driver Type			MOTOR	
As Tested Curve No.		MDA					GEAR	DEOLUBED		NO NO	
IMPELLER DIA.: RATED RATED POWER Kw	MAX.	MIN.			nm		VARIABLE SPEED SOURCE OF VARI			NO	
RATED POWER Kw RATED CURVE BEP FLOW (at rated i		ICIENCY			%) 3/1		OTHER	IABLE SPEED			
MIN FLOW:	kJ/Nm³				³/hr ³/hr		MANUFACTURER	,			
PREFERRED OPERATING REGION (_	to			√iir ³/hr		NAMEPLATE POW		ED EACTOR	@Site Condition	KW
ALLOWABLE OPERATING REGION	0.1.11)	to			³/hr		Nominal RPM	TER AND TOW	LKTACTOK	———	KW
MAX HEAD @ RATED IMPELLER					m		RATED LOAD RPM	м			
MAX POWER @ RATED IMPELLER					w		FRAME OR MODE				
NPSH3 AT RATED FLOW:					m		ORIENTATION			HORIZENTAL	
CL PUMP TO U/S BASEPLATE					m		LUBE			- IOMANDITAL	
NPSH MARGIN AT RATED FLOW:					m		BEARING TYPE:				
SPECIFIC SPEED (6.1.9)							RADIAL				
SUCTION SPECIFIC SPEED LIMIT							THRUST				
SUCTION SPECIFIC SPEED							STARTING METHO	OD	D.O.	L/ Open Discharge Valve	
MAX. ALLOW. SOUND PRESS. LEV	EL REQD (6.1.	14) <u>D08</u>	85 @ 1 m	(dI	BA)		INSULATION/TEM		-	F/B	
EST MAX SOUND PRESS. LEVEL				(dI	BA)		Max Voltage Variati	ion		±10%	
MAX. SOUND POWER LEVEL REQ'I	D (6.1.14)						Max Frequency Vari	iation		±5%	
EST MAX SOUND POWER LEVEL							Max Voltage and Fr	equency Variatio	n together	±10%	



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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

 MECHANICAL DATA SHEETS FOR FLARE KO DRUM PUMPS

 نسخه
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شماره صفحه: ۱۱ز ۹

				API Std. 61	0 CENTI	RIFUGAL PUM	IP DATA SHEE	T (SI UNIT) - P-2201 A/B (Sheet 3 of 6)
							CONSTRUCTI	
API PUMP TYPE:	0	H2	Rag	ed on API 610 de	finitione)		CONSTRUCTI	CASING MOUNTING: CENTERLINE
ATTICMITTE.	_		[Das	cu on Al I olo uc	. Timetons			CASING TYPE: (6.3.10) SINGLE VOLUTE
NOZZLE CONNECTION	vs.	(6	i.5.5) (Notes	: 3.28)				OH3 BACKPULLOUT LIFTING DEVICE REQD. (9.1.2.6)
		Size	Facing	Rating		Position	7	CASE PRESSURE RATING: (Note 36)
SUCTION			RF	300		END	†	MAWP: (6.3.5) 40 barg @
DISCHARGE			RF	300		TOP		HYDROTEST: 1.5*MAWP barg @
PRESSURE CASING AU	X. CONNE	CTIONS:					4	omg e
	No.	Size	Туре	Facing	Rating	Posn.	7	HYDROTEST OH PUMP AS ASSEMBLY YES
BAL/LEAK OFF							+	SUCT'N PRESS. REGIONS DESIGNED FOR MAWP YES
DRAIN				RF	300			ROTATION: (VIEWED FROM COUPLING END)
VENT				RF	300			IMPELLERS INDIVIDUALLY SECURED : YES
PRESSURE GAGE								BOLT OH 3/4/5 PUMP TO PAD / FOUNDATION :
TEMP GAGE								PROVIDE SOLEPLATE FOR OH 3/4/5 PUMPS
WARM-UP LINE								ROTOR:
							_	SHAFT FLEXIBILITY INDEX (SFI) (9.1.1.3)
Drain Valve Supplied I	3v				,	ENDOR		First Critical Speed Wet (Multi stage pumps only)
DRAINS MANIFOLD						ENDOR		COMPONENT BALANCE TO ISO 1940 G1.0
VENT Valve Supplied						ENDOR		SHRINK FIT -LIMITED MOVEMENT IMPELLERS (9.2.2.3)
VENTS MANIFOLDE						YES		COUPLING:(7.2.3) (7.2.13.f)
THREAD. CONS FOR		FRVICE	& < 50°C (6.	4 3 2)				MANUFACTURER
SPECIAL FITTINGS F				1.5.2)			_	MODEL
CYLINDRICAL THRE							_	RATING (POWER/100 RPM)
GUSSET SUPPORT R	-		,			YES	If Needed	SPACER LENGTH mm
MACHINED AND ST		NNECTIO	ONS (6.4.3.12)				SERVICE FACTOR min 1.5
VS 6 DRAIN			(,			_	RIGID (Note 31) NO
DRAIN TO SKID EDO	NE.					YES		COUPLING WITH HYDRAULIC FIT (7.2.10)
			MATERIA	AL (6.12.1.1)				COUPLING BALANCED TO ISO 1940-1 G6.3 (7.2.3) YES
APPENDIX H CLASS					(VTC)			COUPLING WITH PROPRIETARY CLAMPING DEVICE (7.2.11)
MIN DESIGN METAL TE	MP (6.12.4.1)				5	°C	
REDUCED-HARDNESS N			5.12.1.12.1)		_	YES (Note 2		COUPLING IN COMPLIANCE WITH (7.2.4) API 610 compliant
Applicable Hardness Standa					_			COUPLING GUARD STANDARD PER (7.2.13.a) ISO 14120
BARREL:								Window on Coupling Guard
CASE:								
DIFFUSERS								BASEPLATE
IMPELLER:								API BASEPLATE NUMBER :
IMPELLER WEAR RING	:							BASEPLATE CONSTRUCTION (7.3.14)
CASE WEAR RING :								BASEPLATE DRAINAGE (7.3.1) Entire Baseplate Drain Pan
SHAFT:								MOUNTING:
Bowl (if VS-type)								NON-GROUT CONSTRUCTION : (7.3.13)
Inspection Class				Leve	el 2			VERTICAL LEVELING SCREWS : REQUIRED
	Bl	EARIN(S AND LU	BRICATION	(6.10.1.1)			LONGITUDINAL DRIVER POSITIONING SCREWS : REQUIRED
BEARING (TYPE / NUME	BER):	(6.	.11.4)					SUPPLIED WITH: GROUT AND VENT HOLES YES
RADIAL			/					DRAIN CONNECTION YES
THRUST			/					MOUNTING PADS SIZED FOR BASEPLATE LEVELING (7.3.5)
REVIEW AND APPROVE	THRUST B	EARING	SIZE : (9.2.5.	2.4)				MOUNTING PADS TO BE MACHINED (7.3.6)
								PROVIDE SPACER PLATE UNDER ALL EQUIPMENT FEET
	(6.10.2	.2) (6.11.3	3) (9.2.6)		RING	OIL		OTHER
PRESSURE LUBE SY				-	(9.2.6.5		_	
				EETS ATTACHE			_	
Pressurized Lube Oil S	ystem mtd on							REMARKS:
Location of Pressurized	Lube Oil Sy	stem moui	nted on basepl	ate:			_	
	·							
INTERCONNECTING	PIPING PRO	OVIDED	BY		•	/ENDOR		
OIL VISC. ISO GRAD	E			VG			_	
CONSTANT LEVEL O	OILER :				REQU	IRED		
					-			



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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض



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احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

0024

MECHANICAL DATA SHEETS FOR FLARE KO DRUM PUMPS تسهیلات صادر کننده بسته کاری پروژه نوع مدرك رشته نسخه BK GCS PEDCO ME DT D08

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شماره صفحه: ۷ از ۹

API SIG. 010 CENTRIFUGAL P	PUMP DATA SH	EET (SI UNIT) - P-2201 A/B (Sheet 4 of 6)			
INSTRUMENTATION		SEAL SUPPORT S	YSTEM MOUNTIN	G	
SEE ATTACHED API-670 DATA SHEET		SEAL SUPPORT SYSTEM MOUNTED ON PUMI	P BASEPLATE		
ACCELEROMETER (7.4.2.1)			(7.5.1.4)		
Number of Accelerometers		IDENTIFY LOCATION ON BASEPLATE			
Mounting Location of Accelerometers					
		INTERCONNECTING PIPING BY		VENDOR	
PROVISION FOR MTG ONLY (6.10.2.10)				-	
Number of Accelerometers	Ī	MECHANICAL	SEAL (6.8.1) (VTS)		
Mounting Location of Accelerometers	Ī	SEE ATTACHED ISO 21049/API 682 DATA SHE	ET (Note 4)		
		ADDITIONAL CENTRAL FLUSH PORT	(6.8.9)		
FLAT SURFACE REQUIRED (6.10.2.11) YES		HEATING JACKET REQ'D.	(6.8.11)		
Number of Accelerometers		FLUSH PLAN		31+53B	
Mounting Location of Accelerometers					
VIBRATION PROBES (7.4.2.2)		HEATING AND CO	OLING (6.1.17) (VI	(S)	
PROVISIONS FOR VIB. PROBES		COOLING REQ'D			
NUMBER PER RADIAL BEARING		COOLING WATER PIPING PLAN			
NUMBER PER AXIAL BEARING		COOLING WATER PIPING			
		FI	TTINGS		
MONITORS AND CABLES SUPPLIED BY (7.4.2.4)		COOLING WATER PIPING MATERIALS			
		COOLING WATER REQUIREMENTS:			
TEMPERATURE (7.4.2.3)					
PROVISIONS FOR TEMP PROBES					
RADIAL BEARING TEMP.		TOTAL COOLING WATER			
NUMBER PER RADIAL BEARING		HEATING MEDIUM			
THRUST BEARING TEMP.		OTHER			
NUMBER PER THRUST BEARING ACTIVE SIDE		HEATING PIPING			
NUMBER PER THRUST BEARING INACTIVE SIDE	L				
TEMP. GAUGES (WITH THERMOWELLS) (9.1.3.6)	L		PURTENANCES		
PRESSURE GAUGE TYPE		MANIFOLD PIPING FOR PURCHASER CONNEC	CTION (7.5.1.6)		
Remarks		VENT		YES	
		DRAIN		YES	
		VALVES		YES (NOTE 5)	D08
		COOLING WATER		NO	7
		TAG ALL ORIFICES (7.5.2.4)		YES	
		SOCKET WELD CONN ON SEAL GLAND	0 (7.5.2.8)		



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نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض



احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

MECHANICAL DATA SHEETS FOR FLARE KO DRUM PUMPS
 سریال
 نوع مدر ک
 رشته
 تسهیلات

 120
 ME
 DT
 0024
 صادر کننده بسته کاری پروژه نسخه GCS PEDCO BK D08

شماره صفحه: ۱۸ز ۹

		SURFAC	E PREPARA	TION AND PAINT	Γ		TEST (Note 37)
MANUFACT	URER'S STANDARD)				_	SHOP INSPECTION (8.1.1)
OTHER (SEE	BELOW)				YES		PERFORMANCE CURVE
SPECIFICAT	TON NO.	BK-GNRAL	-PEDCO-000-F	PI-SP-0012 "Specificat	ion		& DATA APPROVAL PRIOR TO SHIPMENT.
		for Painting"	1				TEST WITH SUBSTITUTE SEAL (8.3.3.2.b)
PUMP:							MATERIAL CERTIFICATION REQUIRED CASING Y
	ACE PREPARATION			BY VEN		-	SHAFT YES (6.12.1.8) IMPELLER Y
PRIMER	T.			BY VE			OTHER YES (Casing and Impeller Wear ring) NO
FINISH COA				BY VE	NDOR		CASTING REPAIR WELD PROCEDURE APPR REQD INSPECTION REQUIRED FOR CONNECTION WELDS (6.12.3.4.d)
BASEPLAT BASEPLATE	E: SURFACE PREPAR.	ATION		BY VEN	IDOR		LIQUID PENETRANT YES MAG PARTICLE Y
PRIMER:	JOHN NELTHE			BY VE		=	ULTRASONIC RADIOGRAPHY
FINISH COA	Т			BY VE			INSPECTION REQUIRED FOR CASTINGS
DETAILS OF	LIFTING DEVICES						LIQUID PENETRANT MAG PARTICLE
SHIPMENT	: (8.4.1)		-	EXI	PORT	-	ULTRASONIC RADIOGRAPHY
EXPORT BO	XING REQUIRED			-	YES	-	HARDNESS TEST REQUIRED (8.2.2.7)
OUTDOOR S	STORAGE MORE TH	AN 6 MONTHS	;		YES	-	ADDNL SUBSURFACE EXAMINATION (6.12.1.5) (8.2.1.3)
						-	FOR
COTOR STO	RAGE ORIENTATIO	N (9.2.8.2)				_	METHOD
SHIPPING &	STORAGE CONTAIN	NER FOR VER	T STORAGE (9	1.2.8.3)			
N ₂ PURGE (9	9.2.8.4)					_	PMI TESTING REQUIRED (8.2.2.8) (NOTE 7)
SPARE PAR	rts						COMPONENTS TO BE TESTED
START-UP					YES	-	RESIDUAL UNBALANCE TEST (J.4.1.2)
NORMAL M	AINTENANCE				YES		NOTIFICATION OF SUCCESSFUL SHOP
ITEM No	PUMP	DRIVER	GEAR	BASE	7	OTAL	PERFORMANCE TEST (8.1.1.c) (8.3.3.5) BASEPLATE TEST (7.3.21)
TTEM NO	rowr	DRIVER	OLAK	BASE		OTAL	HYDROSTATIC WI
							HYDROSTATIC TEST OF BOWLS & COLUMN (9.3.13.2)
							PERFORMANCE TEST WIT
		OTHER F	URCHASER	R REQUIREMENT	S		TEST IN COMPLIANCE WITH (8.3.3.2) 8.3.3
COOPD	NATION MEETING				YES		TEST DATA POINTS TO (8.3.3.3) 8.3.3
	UM DISCHARGE PRI				1155	-	TEST TOLERANCES TO (8.3.3.4)
MAXIM	MAX RELATIVE DE		CLUDL		YES	1022 1/3	NPSH (8.3.4.3.1) (8.3.4.3.4) (NOTE 8) WIT
		ERATION TO T	DID CDEED			1022 kg/m³	NPSH-1ST STG ONLY (8.3.4.3.2)
		PELLERS AND		rages.	YES	-	NPSH TESTING TO HI 1.6 OR ISO 9906 (8.3.4.3.3)
CONNE	CTION DESIGN APPE			AGLS	- 11.0	-	TEST NPSHA LIMITED TO 110% SITE NPSHA (8.3.3.6)
	NAL ANALYSIS / RE					-	RETEST ON SEAL LEAKAGE (8.3.3.2.d)
	ESS REPORTS	0.7.2.10	,			-	RETEST REQUIRED AFTER FINAL HEAD ADJ (8.3.3.7.b)
	E OF PROC FOR OPT	TONAL TESTS	(10.2.5)			-	COMPLETE UNIT TEST (8.3.4.4.1)
	ONAL DATA REQUI			(8211)		-	SOUND LEVEL TEST (8.3.4.5)
1100111	J		o nerennon	(0.2.1.1)		-	CLEANLINESS PRIOR TO FINAL ASSEMBLY (8.2.2.6) NON-1
LATERA	L ANALYSIS REQU	RED (9.1.3.4) (9.2.4.1.3)			-	LOCATION OF CLEANLINESS INSPECTION
	ANALYSIS REQUIR		, ,			-	NOZZLE LOAD TEST
	IC BALANCE ROTO				YES	p/08	CHECK FOR CO-PLANAR MOUNTING PAD SURFACES
	LATION LIST IN PRO		.l)		YES		MECHANICAL RUN TEST UNTIL OIL TEMP STABLE
	EADY STATE DAMP			.9.2.3)		=	4 HR. MECH RUN AFTER OIL TEMP STABLE (8.3.4.2.1)
	ENT TORSIONAL RE			*			4 HR. MECH RUN TEST (8.3.4.2.2)
	G LIFE CALCULATION		D (6.10.1.6)		YES	-	BRG HSG RESONANCE TEST (8.3.4.7)
	N HAZARD ASSMT				-	-	STRUCTURAL RESONANCE TEST (9.3.9.2)
	RETIREMENT THIC					=	REMOVE / INSPECT HYDRODYNAMIC BEARINGS AFTER TEST
	ES RQD IN PLACE OF)	-	YES	(9.2.7.5)
	E PLOTTED VIBRAT			•	-	 _	AUXILIARY EQUIPMENT TEST (8.3.4.6)
	CTION BOLTING (7.5		. (3.2.3.3)	SS		-	EQUIPMENT TO BE INCLUDED IN AUXILIARY TESTS
COMME	DOLIHAO (7.3			55		-	LOCATION OF AUXILIARY EQUIPMENT TEST
CADMII	M PLATED ROLTS	PROHIBITED					
	JM PLATED BOLTS I		(9211-)		VEC	-	
VENDO	JM PLATED BOLTS I R TO KEEP REPAIR A R SUBMIT TEST PRO	AND HT RCDS			YES YES	.	IMPACT TEST PER EN 13445 PER ASME SECTION VIII





احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک

شماره پیمان:

MECHANICAL DATA SHEETS FOR FLARE KO DRUM PUMPS
 سریال
 نوع مدر ک
 رشته
 تمهیلات
 صادر کننده
 بینه کاری
 پروژه

 BK
 GCS
 PEDCO
 120
 ME
 DT
 0024
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شماره صفحه: ۹ از ۹

API Std. 610 CENTRIFUGAL PUMP DATA SHEET (SI UNIT) - P-2201 A/B (Sheet 6 of 6)				
	PRESSURE V	ESSEL DESIGN CODE REFERENCES		
	BE LISTED BY THE MANUFACTURER			
	G FACTORS USED IN DESIGN (TABLE 3)			_
	SOURCE OF MATERIAL PROPERTIES			-
	W	VELDING AND REPAIRS		
THESE REFERENCES MUST BE LISTED B	Y THE PURCHASER. (DEFAULT TO TABLE 11 IF	NO PURCHASER PREFERENCE IS STATED)		
ALTERNATE WELDING CODES AND STA				_
WELDING REQUIREMENT (APPLICABLE CODE OR STANDARD) WELDER/OPERATOR QUALIFICATION			REQUIRED REQUIRED	_
WELDING PROCEDURE QUALIFICATION			REQUIRED	-
NON-PRESSURE RETAINING STRUCTURAL WELDING SUCH AS BASEPLATES OR SUPPORTS				_
MAGNETIC PARTICLE OR LIQUID PENET	TRANT EXAMINATION OF PLATE EDGES			_
POSTWELD HEAT TREATMENT OF CASI	NG FABRICATION WELDS			_
TOOT WELLS THAT TREATMENT OF CARD	The state of the s			=
THESE DEFENDACES MUST BE LISTED D		MATERIAL INSPECTION	DEFAULTED TABLE 14	
THESE REFERENCES MUST BE LISTED BY THE PURCHASER ALTERNATIVE MATERIAL INSPECTIONS AND ACCEPTANCE CRITERIA (SEE TABLE 15) (8.2.2.5)			DEFAULT TO TABLE 14 YES	_
TYPE OF INSPECTION	METHOD	FOR FABRICATIONS	FOR CASTINGS	1
RADIOGRAPHY				
ULTRASONIC INSPECTION				4
MAGNETIC PARTICLE INSPECTION LIQUID PENETRANT INSPECTION				1
VISUAL INSPECTION (all surfaces)				†
		-	-	1