



NISOC

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

عمومی و مشترک



DATASHEETS FOR STONE TRAP

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

SSGRL

صادرکننده

PEDCO

تسهيلات

110

رشته

PI

نوع مدرک

DT

سریال

0001

نسخه

D04

شماره صفحه: ۱ از ۷

طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATASHEETS FOR STONE TRAP

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D04	MAY.2023	AFC	M.Noori	M.Fakharian	A.M.Mohseni	
D03	OCT.2022	AFC	F.Mosayebnejad	M.Fakharian	M.Mehrshad	
D02	SEP.2022	IFA	F.Mosayebnejad	M.Fakharian	M.Mehrshad	
D01	APR.2022	IFA	A.Khosravi	M.Fakharian	M.Mehrshad	
D00	DEC.2021	IFC	H.Shahrokhi	M.Fakharian	M.Mehrshad	

Class: 1

CLIENT Doc. Number: F0Z-707354

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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فعالیت‌های رو زمینی در بسته‌های کاری تحت‌الارض

عمومی و مشترک



DATASHEETS FOR STONE TRAP

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

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شماره صفحه: ۲ از ۷

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04
1	X	X	X	X	X
2	X		X	X	
3	X	X	X	X	X
4	X	X			
5	X	X	X		X
6	X	X	X		
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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت‌های رو زمینی در بسته‌های کاری تحت‌الارض عمومی و مشترک								
	DATASHEETS FOR STONE TRAP								
شماره پیمان:	پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۷ از ۱۳
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	SSGRL	PEDCO	110	PI	DT	0001	D04	

Notes: 1. The Asterisk (*) denotes information and/or confirmation required from VENDOR/BIDDER. 2. VENDOR/BIDDER shall be fully responsible for the complete mechanical design, supply of the Stone Trap Package 3. For equipment requiring PWHT, final inspection and acceptance by the purchaser or its Nominated Consultant shall only be undertaken against NDE after PWHT. 4. Prior to sealing the Stone Trap Package for shipping and storage, the inside surface of the equipment shall be 100% visually inspected. Internal surfaces shall be clean and thoroughly dried. The CLIENT or its Nominated Consultants representative shall witness the cleanliness of internal surfaces. 5. Piping nozzle flanges shall comply with API 6A. Nozzle bolt holes shall straddle the natural centrelines. 6. VENDOR/BIDDER shall provide 2 spare gaskets and 10% bolting (Min 2 bolts and 4 nuts of each size) for all blanked off nozzles and end closure. 7. Lifting Lugs shall be provided to facilitate a single point lift. If a single point lift cannot be achieved without the use of a lifting beam, then VENDOR/BIDDER shall provide a suitable, certified, lifting beam. 8. The Stone Trap Packages are in Sour Service. All materials in contact with Sour Service shall comply with NACE MR0175/ISO15156 Parts 1,2 & 3. 9. Painting shall be as per Project Specification for painting, document No. BK-GNRL-PEDCO-000-PI-SP-0006 10. PWHT and NDT should be considered according to ASME standard. 11. Pressure drop should be reported for the mesh size regarding asphaltting blockage on pipes. 12. Manufacturer's ITP, QCP and MPS based on latest related standrads shall be submitted for CLIENT's approval. 13. For Material detail below table shall be followed:	
Pipe 4"	 Size 4", (SCH : VTA), API 5L X52, SMLS, PSL 2, As Per IPS-M-PI-190(3) & ASME B36.10M & NACE MR-0175/ISO15156 (*)
Pipe 6" & 8"	 Size 6" & 8", (SCH : VTA), API 5L X52, SMLS, PSL 2, As Per IPS-M-PI-190(3) & ASME B36.10M & NACE MR-0175/ISO15156 (*)
Flange	API 6A, RTJ, API 60K , API 3000, Thickness same as Pipe (*)
Reducer	ASTM A860 WPHY52, SMLS, Thickness same as Pipe (*)
Reducer Tee	ASTM A860 WPHY52, SMLS, Thickness same as Pipe (*)
Olets (Sockolet & Threadolet)	ASTM A105 & Class 6000
Forged Fittings	ASTM A105 & Class 9000 : If Size <2" & ASTM A860 WPHY 52 : If Size >=2", Thickness same as pipe (*)
Blind Flanges	API 6A, RTJ, API 60K, API 3000 (*)
Bolt & Nuts	A193 Gr. B7M & A194 Gr.2HM , ASME B1.1/B18.2.2/B16.5
Gasket	Octagonal R Type, SS316, API 6A (*)

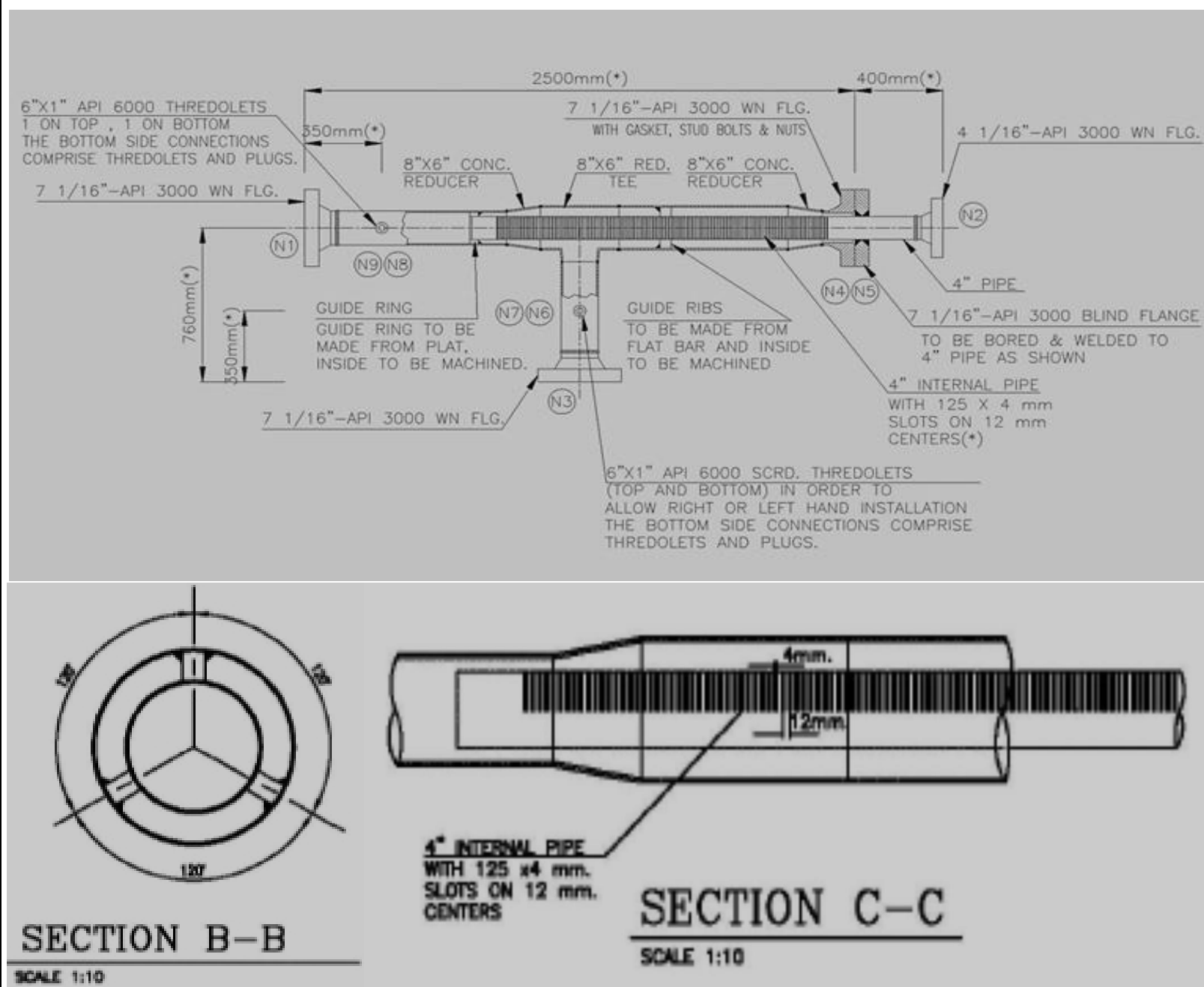
 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت‌های رو زمینی در بسته‌های کاری تحت‌الارض عمومی و مشترک								  		
	DATASHEETS FOR STONE TRAP										
	شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری SSGRL	صادر کننده PEDCO	تسهیلات 110	رشته PI	نوع مدرک DT	سریال 0001	نسخه D04	شماره صفحه: ۴ از ۷	
PROCESS DATA											
ITEM NO.	1			2			3				
COMMON WELL NAME	W007S			W008N			W018S				
TAG NO.	ST-1201			ST-1601			ST-1101				
FLOWLINE SIZE (Inch)	6			6			6				
FLUID PHASE	H/CLIQUEID(CRUIDE OIL),WATER ,GAS			H/CLIQUEID(CRUIDE OIL),WATER ,GAS			H/CLIQUEID(CRUIDE OIL),WATER ,GAS				
OPERATING PRESS. (barg)	43.8			43.8			43.8				
OPERATING TEMP. (°C)	80			75			75				
DESIGN PRESS. (barg)	207			207			207				
DESIGN TEMP (Min/Max) (°C)	105			100			100				
FLOW RATE (kg/hr) OVERAL	18195.85			12216.5			12216.5				
MOLECULAR WEIGHT (OVERAL)	29.92			65.08			65.08				
MASS DENSITY (kg/m3)	680.4			777.8			777.8				
VISCOSITY (Cp) OIL	1.985			3.538			3.538				

ITEM NO.	4				5				6	
COMMON WELL NAME	W028				W035				W046S	
TAG NO.	ST-1401				ST-1501				ST-1301	
FLOWLINE SIZE (Inch)	6				6				6	
FLUID PHASE	H/CLIQUEID(CRUIDE OIL),WATER ,GAS				H/CLIQUEID(CRUIDE OIL),WATER ,GAS				H/CLIQUEID(CRUIDE OIL),WATER ,GAS	
OPERATING PRESS. (barg)	43.8				43.8				43.8	
OPERATING TEMP. (°C)	80				80				80	
DESIGN PRESS. (barg)	207				207				207	
DESIGN TEMP (Min/Max) (°C)	105				105				105	
FLOW RATE (kg/hr) OVERAL	45484.3				45484.3				27285.26	
MOLECULAR WEIGHT (OVERAL)	29.92				29.92				29.92	
MASS DENSITY (kg/m3)	680.4				680.4				680.4	
VISCOSITY (Cp) OIL	1.986				1.985				1.985	

 NISOC		نگهداشت و افزایش تولید میدان نفتی بینک فعالیت‌های رو زمینی در بسته‌های کاری تحت‌الارض عمومی و مشترک						 		
		DATASHEETS FOR STONE TRAP								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴		پروژه	بسته کاری	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۵ از ۷
		BK	SSGRL	PEDCO	110	PI	DT	0001	D04	
DESIGN DATA										
1	TAG NO.	ST-1101	ST-1201	ST-1301	ST-1401	ST-1501	ST-1601			
2	TYPE	Flange TEE Type	Flange TEE Type	Flange TEE Type	Flange TEE Type	Flange TEE Type	Flange TEE Type			
3	QUANTITY	1	1	1	1	1	1			
4	DESIGN CODE 	API-6A (ASME VIII, Div.2)	API-6A (ASME VIII, Div.2)	API-6A (ASME VIII, Div.2)	API-6A (ASME VIII, Div.2)	API-6A (ASME VIII, Div.2)	API-6A (ASME VIII, Div.2)			
5	SERVICE/LOCATION	CRUDE OIL (3 PHASE L/W/V)	CRUDE OIL (3 PHASE L/W/V)	CRUDE OIL (3 PHASE L/W/V)	CRUDE OIL (3 PHASE L/W/V)	CRUDE OIL (3 PHASE L/W/V)	CRUDE OIL (3 PHASE L/W/V)			
6	PIPING MATERIAL CLASS	LN17	LN17	LN17	LN17	LN17	LN17			
7	MATERIAL	(NOTE 8,13)	(NOTE 8,13)	(NOTE 8,13)	(NOTE 8,13)	(NOTE 8,13)	(NOTE 8,13)			
8	CORROSION ALLOWANCE (mm)	6	6	6	6	6	6			
9	SIZE Inlet/Outlet	6"/6"	6"/6"	6"/6"	6"/6"	6"/6"	6"/6"			
10	RATING	3000 (Psi)	3000 (Psi)	3000 (Psi)	3000 (Psi)	3000 (Psi)	3000 (Psi)			
11	CONN ORIENTATION	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL			
12	SIZE (Dia-In/Length-M)	Refer to Page 6	Refer to Page 6	Refer to Page 6	Refer to Page 6	Refer to Page 6	Refer to Page 6			
13	ACCESSORIES	BY VENDOR	BY VENDOR	BY VENDOR	BY VENDOR	BY VENDOR	BY VENDOR			
14	INTERNAL BI-METALLIC VENT	BY VENDOR	BY VENDOR	BY VENDOR	BY VENDOR	BY VENDOR	BY VENDOR			
15	INTERNAL CHECK VALVE	BY VENDOR	BY VENDOR	BY VENDOR	BY VENDOR	BY VENDOR	BY VENDOR			
16	EXTERNAL /INTERNAL Dia. (mm)	Refer to Page 6	Refer to Page 6	Refer to Page 6	Refer to Page 6	Refer to Page 6	Refer to Page 6			
17	END CONNECTIONS	FLG-RTJ	FLG-RTJ	FLG-RTJ	FLG-RTJ	FLG-RTJ	FLG-RTJ			
18	MESH SIZE/MATERIAL	Refer to Page 6	Refer to Page 6	Refer to Page 6	Refer to Page 6	Refer to Page 6	Refer to Page 6			
19	RADIOGRAPHY %	100%	100%	100%	100%	100%	100%			
20	STRESS RELIEF	YES	YES	YES	YES	YES	YES			
21	HYDROSTATIC TEST Press. (Psig)	6000	6000	6000	6000	6000	6000			
22	PAINTING	Refer to Page 3 (Note 9)	Refer to Page 3 (Note 9)	Refer to Page 3 (Note 9)	Refer to Page 3 (Note 9)	Refer to Page 3 (Note 9)	Refer to Page 3 (Note 9)			
23	FLUID	CRUDE OIL	CRUDE OIL	CRUDE OIL	CRUDE OIL	CRUDE OIL	CRUDE OIL			
24	FLOW Temp/Phase	Refer to Page 4,5 /Two Phase	Refer to Page 4,5 /Two Phase	Refer to Page 4,5 /Two Phase	Refer to Page 4,5 /Two Phase	Refer to Page 4,5 /Two Phase	Refer to Page 4,5 /Two Phase			

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	DATASHEETS FOR STONE TRAP								
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری SSGRL	صادر کننده PEDCO	تسهیلات 110	رشته PI	نوع مدرک DT	سریال 0001	نسخه D04	شماره صفحه: ۶ از ۷

LAYOUT DETAILS



NOTE:

- All details and drawings to be provided by VENDOR.
- The Asterisk (*) denotes information and/or confirmation required from VENDOR/BIDDER.
- All flange bolt holes to straddle its centerline.
- All screwed fittings and pipes to be seal welded (except when otherwise noted)
- Name plate shall be provided and attached to the body by vendor. Name plate dimensions and format shall be confirmed by purchaser.
Name Plate Material shall be considered as **SS316**.

P.S: The reference DWG for above Layout Detail is "NISOC-S5L-9002"

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	DATASHEETS FOR STONE TRAP							
شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	پروژه BK	بسته کاری SSGRL	صادر کننده PEDCO	تسهیلات 110	رشته PI	نوع مدرک DT	سریال 0001	نسخه D04
شماره صفحه: ۷ از ۷								

NOZZLE CONNECTION SCHEDULE								
MK	No	SIZE	RATING	FACE	END CONNECTION	SERVICE	ORIENTATION	REMARKS
N1	1	7 1/16"	API 3000	RTJ	WN	INLET	END	-----
N2	1	4 1/16"	API 3000	RTJ	WN	BURN PIT	END	4 1/16" API 6A matches to 4" Pipe (SCH : VTA) D04
N3	1	7 1/16"	API 3000	RTJ	WN	OUTLET	END	-----
N4	1	7 1/16"	API 3000	RTJ	WN	MAINTENANCE	-----	7 1/16" API 6A matches to 6" Pipe (SCH : VTA) D04
N5	1	7 1/16"	API 3000	RTJ	BLIND FLANGE	MAINTENANCE	-----	-----
N6	1	1"	-----	----	SCRD.	SAMPLE POINT	TOP	1" Class 6000 as Thredolet
N7	1	1"	-----	----	SCRD.	DRAIN	BOTTOM	1" Class 6000 as Thredolet
N8	1	1"	-----	----	SCRD.	PRESSURE GAUGE	TOP	1" Class 6000 as Thredolet
N9	1	1"	-----	----	SCRD.	DRAIN	BOTTOM	1" Class 6000 as Thredolet