



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک

سطح الارض

احداث خطوط انتقال گاز/مایعات گازی از ایستگاه تقویت فشار گاز بینک

تا ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک



DATA SHEETS FOR PIG TRAPS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه

BK

بسته کاری

PPL

صادرکننده

PEDCO

تسهیلات

320

رشته

ME

نوع مدرک

DT

سریال

0001

نسخه

D02

شماره صفحه: ۱۱ از ۱۱

طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATA SHEETS FOR PIG TRAPS

نگهداشت و افزایش تولید میدان نفتی بینک

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

Class: 2

CLIENT Doc. Number: F0Z-708541

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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نگهداشت و افزایش تولید میدان نفتی بینک

سطح الارض

احداث خطوط انتقال گاز/هایعات گازی از ایستگاه تقویت فشار گاز بینک تا

ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک



DATA SHEETS FOR PIG TRAPS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D02	0001	DT	ME	320	PEDCO	PPL	BK

شماره صفحه: ۱۱ از ۱۲

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04
1	X	X	X		
2	X	X	X		
3	X	X	X		
4	X	X	X		
5	X		X		
6	X	X			
7	X	X			
8	X	X	X		
9	X		X		
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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث خطوط انتقال گاز/ مایعات گازی از ایستگاه تقویت فشار گاز بینک تا ایستگاه تزریق گاز سیاهمکان/ واحد بهره برداری بینک								
	DATA SHEETS FOR PIG TRAPS								
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۳
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	PPL	PEDCO	320	ME	DT	0001	D02	

Notes

1. The Asterisk * denotes information and/or confirmation required from VENDOR. vendor shall calculated actual thicknesses under mechanical guarantee accordingly and Vendor should be submitted the calculation book.
2. VENDOR/BIDDER shall be fully responsible for the complete mechanical design, supply of the Pig Trap and auxiliaries. The Pig Traps shall be supplied in accordance with the project " Specification for Pig Traps " doc. No. BK-PPL-PEDCO-320-ME-SP-0001.
3. VENDOR/BIDDER shall include for the services of a Independent Verification Body for inspection and mechanical design verification of the equipment.
4. For equipment requiring PWHT, final inspection and acceptance by the CLIENT or its nominated representative shall only be undertaken against NDE after PWHT.
5. Two M12 earthing lugs shall be provided diametrically opposite, one on each saddle.
6. Nozzle flanges shall comply with ASME B16.5. Nozzle bolt holes shall straddle the natural centrelines.
7. Minimum requirement for pre-commissioning, commissioning, start up and two years operation and spare parts shall be in accordance with document E&C-QC-SP-1.
8. 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.
9. Material shall be selected as related pipeline specification and 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.
10. Maximum Pig Trap length is limited to 15 m from end closure to minor barrel outlet due to transportation limitation.
11. The Pig Traps shall be suitable for the full range of intelligent pigs currently on the market VENDOR/BIDDER shall confirm that overall length is suitable.
12. Minor barrel's internal diameter shall match with pipeline internal diameter.
13. End closure design shall comply with ASME Sec. VIII, Division 1, Section UG-35.2 (Quick-Actuating Closures).
14. The end closure shall be provided with a locking device to prevent opening of the door when the pig trap is pressurised and failure of any part of the locking device shall leave the door closed.
15. Intrusive type pig signalers shall be provided by Contractor for the indication of pig movement along the pipeline route.
16. VENDOR/BIDDER shall specify/confirm size of required Anchor Bolts.
17. All of mentioned Accessories & Attachments are in the VENDOR/BIDDER's scope of supply.
18. Projection of horizontal & vertical nozzles have been specified from face of flanges to vessel tangent line and center line respectively.
19. All the equipments shall be in accordance with IPS-M-PI-130(1) and "Specification For Pig Launching / Receiving Traps" Doc. No. BK-PPL-PEDCO-320-ME-SP-0001.
20. The orientations of Kicker and Balance Line's nozzles shall be finalized by piping discipline later.
21. Pig Traps Dimension shall be in accordance with "NIOC S4L-6516-B" Std. Dwg. (except for thicknesses).
22. Vendor shall supply mechanical interlock prevents opening of pig launcher/receiver closure while pig launcher/receiver is pressurized.
23. In case of design in accordance with ASME Sec. VIII, Div. 1, pressure design shall be considered equal to maximum allowable pressure of related flanges (in related pressure and temperature) noted in ASME B16.5.
24. All nozzle loads shall not be less than specified values in a "appendix n" of specification for pressure vessels Doc No.: BK-GNRAL-PEDCO-000-ME-SP-0001".
25. All nozzle loads shall not be less than specified values in the "Specification For Atmospheric Above Ground Welded Steel Tanks", Welded Steel Tanks", Document No.: "BK-GNRAL-PEDCO-000-ME-SP-0002".

D02

D02



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک

سطح الارض

احداث خطوط انتقال گاز/هایعات گازی از ایستگاه تقویت فشار گاز بینک تا

ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک



DATA SHEETS FOR PIG TRAPS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
BK	PPL	PEDCO	320	ME	DT	0001	D02

شماره صفحه: ۴ از ۱۱

DATA SHEETS FOR PIG LAUNCHER (PL-3201) / SHEET 1 OF 4

1	Description :											
2	Tag No.	:	PL - 3201	Quantity	1	Set						
3	Type	:	Pig Launcher									
4	Line No.	:	GAS-113-0005-FN05-8"-PT								D02	
5	Fluid Characteristics											
6	Fluid Handled	NATURAL GAS										
7	Fluid Density	41.5			H ₂ S % mol	0.054						
8	Toxic	YES			Sour	YES						
9	Corrosive/Erosive	YES			Due to			Hazardous Area	Hazardous Area "Zone 2, IIB, T3"			
10												
11	Operating & Design Condition											
12	Operating Temp.	57.7~58.3			°C	Operating Pressure	49.4~50.9			barg		
13	Design Temp.	5~85			°C	Design Pressure	62			barg		
14	Ambient Temp.	5~50			°C	MDMT	5			°C		
15	Wind Design	120			Km / hr.	Seismic Design Code	ASCE 7-10, SITE CLASS : D					
16	Major Barrel Dia.	10			Inch	Minor Barrel Dia.	8			Inch		
17	Major Barrel Length	3000			mm	Minor Barrel Length	1000			mm		
18	Corrosion Allow.	3.2			mm	Corrosion Allow.	3.2			mm		
19	Major Barrel THK.	NOTE (1)			mm	Minor Barrel THK.	NOTE (1)			mm		
20	Type of Pigs					Miscellaneous						
21	Normal	YES			Design Code:	(Note 23)						
22	Intelligent	YES			Barrels	ASME B 31.8 (D.F. :0.6)/ IPS-M-PI 130					D02	
23	Spheres	YES			Closure	ASME VIII						
24	Foam	YES			Position	Horizontal						
25	Other				Bidirectional line	No						
26					Insulation	No						
27	Closure Type	<input checked="" type="radio"/> Quick Opening			<input type="radio"/> Level/Handwheel Operated			<input type="radio"/> Vertical Hinged				
28	Materials (Note 9)											
29	Code	ASTM / API			Quick Open Closure	C.S.						
30	Barrel	API 5L Gr. X52 PSL2			Gasket	S.S. 316, Spiral Wound-Graphite Filled						
31	Nozzle	API 5L Gr. X 52			Backing Plate	C.S.						
32	Flange	ASTM A694 F52			Bolts / Nuts	A193 Gr. B7M / A194 Gr. 2HM						
33	Fittings	ASTM A860 WPHY 52			Anchor Bolts	C.S.						
34	Saddle (Wear Plate / Others):	A516 Gr. 70 / A283 Gr. C			Name Plate	S.S.						
35	Connections											
36	Mark	No. Req.	Size in	Flange		Neck		Reinf. Pad		Project. (mm) (Note 18)	Description	Remarks
37				Rating	Typ/ Fac.	Thk. (mm)	Sch.	Thk. (mm)	OD (mm)			
38	A	1	2		WN/RF			-	-	272	Kicker Line	D02
39	B	1	2		WN/RF			-	-	245	Balance Line	D02
40	D1/D2	2	2		WN/RF			-	-	472/265	Drain	D02
41	E1	1	10		WN/RF			-	-	SEE DWG	Q.O.C.	D02
42	E2	1	8		WN/RF			-	-	SEE DWG	Main Pig Outlet	D02
43	P	1	1		WN/RF			-	-	243	PG Con.	D02
44	V1	1	2		WN/RF			-	-	272	Vent	D02
45	<i>Deleted</i>											
46	PSV	1	1		WN/RF			-	-	243	PRESSURE SAFTY VALVE	D02
47	V2	1	2		WN/RF			-	-	245	Vent	D02
48												D02
49												D02
50												D02
51	Fabrication and Inspection Requirements											
52	Fabrication Code	ASME VIII Div. 1			Hydrostatic Test Press.	1.5 Times the Design Pressure						
53	NDE Code	ASME V & VIII			Impact Test	Acc. To Code						
54	Welding Code	ASME IX			PWHT	YES						
55	Radiography	100%			MT, PT & Pneu. Tests	Acc. To Code & The Project Spec.						
56	Internal & External Coating : Acc. To the Project 'Specification for Painting.', Doc. No. : BK-GNRAL-PEDCO-000-PI-SP-0006											
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نگهداشت و افزایش تولید میدان نفتی بینک
 سطح الارض
 احداث خطوط انتقال گاز/مایعات گازی از ایستگاه تقویت فشار گاز بینک تا
 ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک



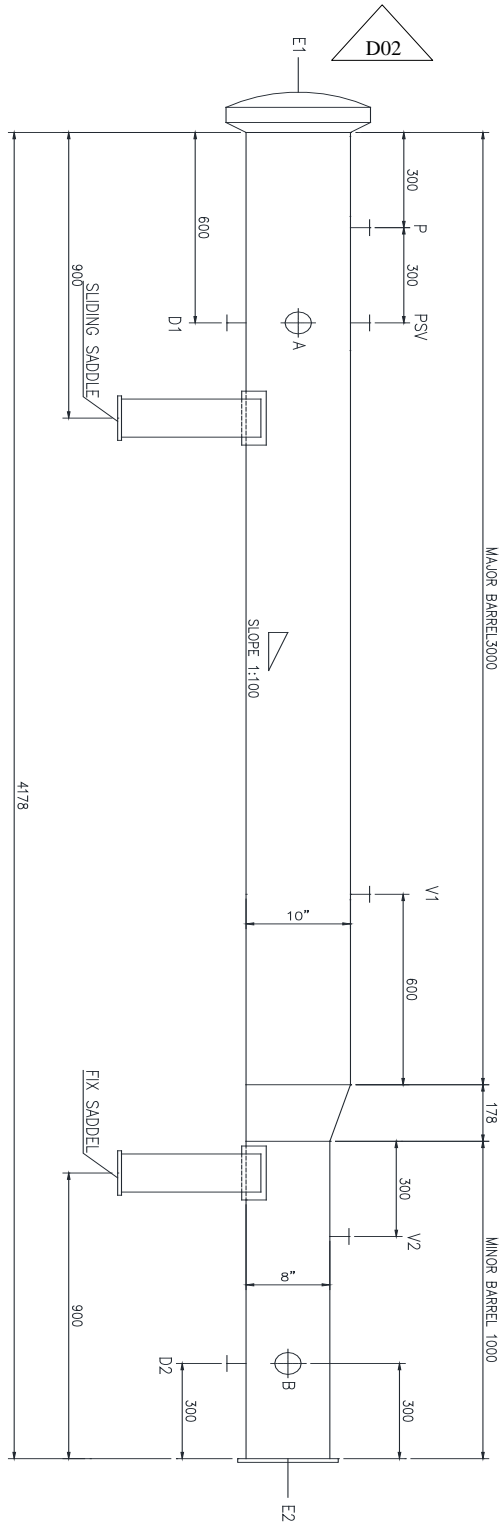
DATA SHEETS FOR PIG TRAPS

شماره پیمان: ۰۵۳ - ۰۷۳ - ۹۱۸۴	نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
	D02	0001	DT	ME	320	PEDCO	PPL	BK

شماره صفحه: ۵ از ۱۱

DATA SHEETS FOR PIG LAUNCHER (PL-3201) / SHEET 2 OF 4

SKETCH





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سطح الارض

احداث خطوط انتقال گاز/ مایعات گازی از ایستگاه تقویت فشار گاز بینک تا

ایستگاه تزریق گاز سیاهمکان/ واحد بهره برداری بینک



DATA SHEETS FOR PIG TRAPS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
BK	PPL	PEDCO	320	ME	DT	0001	D02

شماره صفحه: ۶ از ۱۱

DATA SHEETS FOR PIG LAUNCHER (PL-3201) / SHEET 3 OF 4

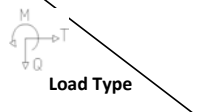
Accessories & Attachments (Note 17)

Supporting Saddles	<input checked="" type="checkbox"/>	Name Plate Bracket	<input checked="" type="checkbox"/>
Access Ladder & Platform	<input type="checkbox"/>	Name Plate	<input checked="" type="checkbox"/>
Insulation Support	<input type="checkbox"/>	Earthing Lug	<input checked="" type="checkbox"/>
Insulation	<input type="checkbox"/>	Pig Signaler (Note 15)	<input type="checkbox"/>
Fireproofing Support	<input type="checkbox"/>	Pigs	<input type="checkbox"/>
Lifting Lugs	<input checked="" type="checkbox"/>	Anchor Bolts	<input type="checkbox"/>
Tailing Lugs	<input type="checkbox"/>	Instrumentations	<input type="checkbox"/>
Skid	<input type="checkbox"/>	End Closure Interlocking System	<input checked="" type="checkbox"/>
Pipe Works	<input type="checkbox"/>	Valves	<input type="checkbox"/>

Reference List

Spec. for Pig Launching / Receiving Traps	BK-PPL-PEDCO-320-ME-SP-0001
Piping & Instrument Diagram (P&ID)	BK-PPL-PEDCO-320-PR-PI-0001
Specification for Painting	BK-GNRL-PEDCO-000-PI-SP-0006

Wind and Seismic Loads at Base (On Each Saddle) *

Load Condition  Load Type	Empty Condition		Operating Condition		Testing Condition	
	Max. Shear @ Base (KN)	Max. Moment @ Base (KN.m)	Max. Shear @ Base (KN)	Max. Moment @ Base (KN.m)	Max. Shear @ Base (KN)	Max. Moment @ Base (KN.m)
WIND						
SEISMIC						



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DATA SHEETS FOR PIG TRAPS

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۱۷
۰۳ - ۰۷۳ - ۹۱۸۴	BK	PPL	PEDCO	320	ME	DT	0001	D02	

DATA SHEETS FOR PIG LAUNCHER (PL-3201) /SHEET 4 OF 4

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**WEIGHT CONTROL
 DATA SHEET
 SI UNIT ***

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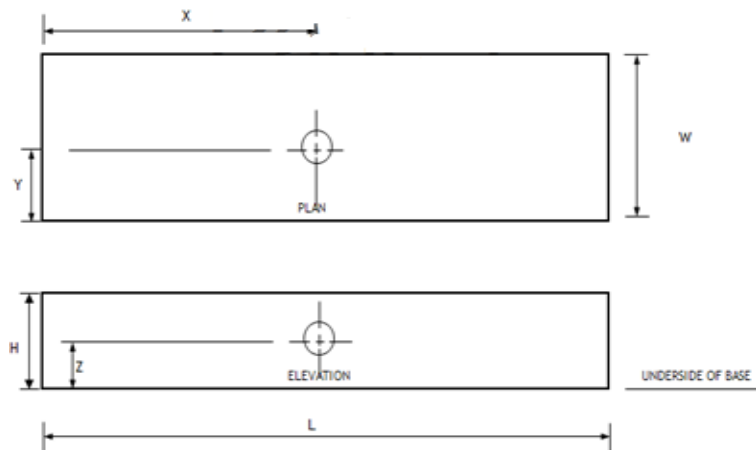
Service: <u>Pig Launcher</u>	Location: <u>(Binak) Oilfield</u>
Type: _____	Quotation No: _____
No. trains: _____	Serial no: _____
No. stages: _____	_____
Supplier: _____	_____
Manufacturer: _____	_____
Model: _____	_____

Note: Information to be completed by: EQUIPMENT VENDOR

WEIGHT AND C OF G DATA REQUIRED *

Major Barrel Length	WEIGHT ACCURACY %	WEIGHT (kg)	CENTER OF GRAVITY		
			X	Y	Z
DRY					
OPERATING					
TEST					

SKETCH



NOTES

1. All lifting points to be load tested and certified.
2. Any spreader beam to be load tested and certified.
3. Lifting / rigging plan for skid mounted equipment to be provided by the Vendor.



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DATA SHEETS FOR PIG TRAPS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
BK	PPL	PEDCO	320	ME	DT	0001	D02

شماره صفحه: ۱۱ از ۱۸

DATA SHEET FOR PIG RECEIVER (PR-3201) / SHEET 1 OF 4

1	Description :										D02		
2	Tag No. :		PR-3201		Quantity		1		Set				
3	Type :		Pig Receiver										
4	Line No. :		GAS-113-0011-FN05-8"-PT										
5	Fluid Characteristics										D02		
6	Fluid Handled		NATURAL GAS										
7	Fluid Density		42.3		H ₂ S % mol		0.054						
8	Toxic		YES		Sour		YES						
9	Corrosive/Erosive		YES		Due to		Hazardous Area		Hazardous Area "Zone 2, IIB, T3"				
10													
11	Operating & Design Condition												
12	Operating Temp.		15~31.3		°C		Operating Pressure		40	barg			
13	Design Temp.		5 - 85		°C		Design Pressure		62	barg			
14	Ambient Temp.		5~50		°C		MDMT		5	°C			
15	Wind Design		120		Km / hr.		Seismic Design		ASCE 7-10, SITE CLASS : D				
16	Major Barrel Dia.		10		Inch		Major Barrel Dia.		8	Inch			
17	Major Barrel Length		3000		mm		Major Barrel Length		3000		mm		
18	Corrosion Allow.		3.2		mm		Corrosion Allow.		3.2		mm		
19	Major Barrel THK.		NOTE (1)		mm		Major Barrel THK.		11.1		mm		
20	Type of Pigs					Miscellaneous					D02		
21	Normal		YES			Design Code:		(Note 23)					
22	Intelligent		YES			Barrels		ASME B 31.8 (D.F. :0.6)/ IPS-M-PI 130					
23	Spheres		YES			Closure		ASME VIII					
24	Foam		YES			Position		Horizontal					
25	Other					Bidirectional line		No					
26						Insulation		No					
27	Closure Type		<input checked="" type="radio"/> Quick Opening		<input type="radio"/> Level/Handwheel Operated		<input type="radio"/>						
28	Materials (Note 9)												
29	Code		ASTM / API			Quick Open Closure		C.S.					
30	Barrel		API 5L Gr. X52 PSL2			Gasket		S.S. 316, Spiral Wound-Graphite Filled					
31	Nozzle		API 5L Gr. X 52			Backing Plate		C.S.					
32	Flange		ASTM A694 F52			Bolts / Nuts		A193 Gr. B7M / A194 Gr. 2HM					
33	Fittings		ASTM A860 WPHY 52			Anchor Bolts		C.S.					
34	Saddle (Wear Plate / Others)		A516 Gr. 70 / A283 Gr. C			Name Plate		S.S.					
35	Connections												
36	Mark	No. Req.	Size in	Flange		Neck		Reinf. Pad		Project. (mm) (Note18)	Description	Remarks	D02
37				Rating	Typ/ Fac.	Thk. (mm)	Sch.	Thk. (mm)	OD (mm)				
38													
39	A	1	2		WN/RF	-		-	-	272	Kicker Line		D02
40	B	1	2		WN/RF	-		-	-	245	Balance Line		D02
41	D1	1	2		WN/RF	-		-	-	472	Drain		D02
42	D2	1	2		WN/RF	-		-	-	265	Drain		D02
43	E1	1	10		WN/RF	-		-	-	SEE DWG	Q.O.C.		D02
44	E2	1	8		WN/RF	-		-	-	SEE DWG	Main Pig Outlet		D02
45	K	1	2		WN/RF	-		-	-	245	Pig Signaler/indicator		D02
46	P	1	1		WN/RF	-		-	-	243	PG Con.		D02
47	V1	1	2		WN/RF	-		-	-	272	Vent		D02
48	<i>Deleted.</i>										D02		
49	PSV	1	1		WN/RF	-		-	-	243	PRESSURE SAFTY VALVE		D02
50	V2	1	2		WN/RF	-		-	-	245	Vent		D02
51													
52	Fabrication and Inspection Requirements												
53	Fabrication Code		ASME VIII Div. 1			Hydrostatic Test Press.		1.5 Times the Design Pressure					
54	NDE Code		ASME V & VIII			Impact Test		Acc. To Code					
55	Welding Code		ASME IX			PWHT		YES					
56	Radiography		100%			MT, PT & Pneu. Tests		Acc. To Code & The Project Spec.					
57	Internal & External Coating : Acc. To the Project 'Specification for Painting.', Doc. No. : BK-GNRL-PEDCO-000-PI-SP-0006												
58													
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64													



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث خطوط انتقال گاز/ مایعات گازی از ایستگاه تقویت فشار گاز بینک تا
ایستگاه تزریق گاز سیاهمکان/ واحد بهره برداری بینک



DATA SHEETS FOR PIG TRAPS

شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: ۱۱ از ۱۰
۰۵۳ - ۰۷۳ - ۹۱۸۴	BK	PPL	PEDCO	320	ME	DT	0001	D02	

DATA SHEETS FOR PIG RECEIVER (PR-3201) / SHEET 3 OF 4

Accessories & Attachments (Note 17)

Supporting Saddles	●	Name Plate Bracket	●
Access Ladder & Platform	○	Name Plate	●
Insulation Support	○	Earthing Lug	●
Insulation	○	Pig Signaler (Note 15)	○
Fireproofing Support	○	Pigs	○
Lifting Lugs	●	Anchor Bolts	○
Tailing Lugs	○	Instrumentations	○
Skid	○	End Closure Interlocking System	●
Pipe Works	○	Valves	○

Reference List

Spec. for Pig Launching / Receiving Traps	BK-PPL-PEDCO-320-ME-SP-0001
Piping & Instrument Diagram (P&ID)	BK-PPL-PEDCO-320-PR-PI-0001-D00
Specification for Painting	BK-GNRL-PEDCO-000-PI-SP-0006

Wind and Seismic Loads at Base (On Each Saddle) *

Load Condition Load Type	Empty Condition		Operating Condition		Testing Condition	
	Max. Shear @ Base (KN)	Max. Moment @ Base (KN.m)	Max. Shear @ Base (KN)	Max. Moment @ Base (KN.m)	Max. Shear @ Base (KN)	Max. Moment @ Base (KN.m)
WIND						
SEISMIC						



NISOC

نگهداشت و افزایش تولید میدان نفتی بینک
 سطح الارض
 احداث خطوط انتقال گاز/مابعات گازی از ایستگاه تقویت فشار گاز بینک تا
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DATA SHEETS FOR PIG TRAPS

شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
BK	PPL	PEDCO	320	ME	DT	0001	D02

شماره صفحه: ۱۱ از ۱۱

DATA SHEETS FOR PIG RECEIVER (PL-3201) / SHEET 4 OF 4

**WEIGHT CONTROL
 DATA SHEET
 SI UNIT ***

1/1

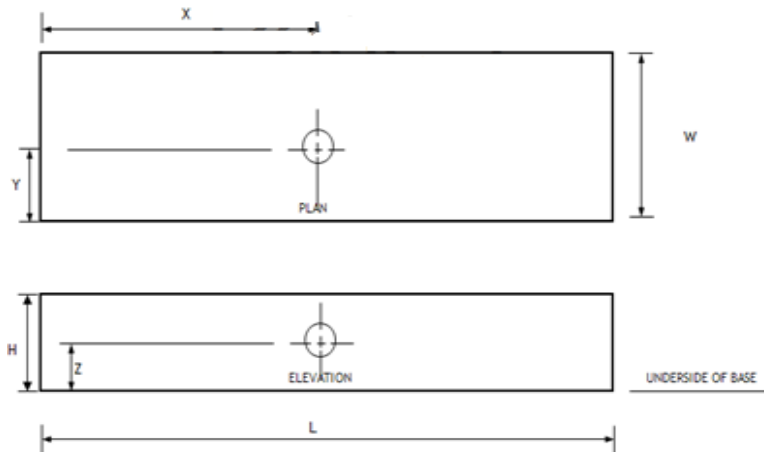
Service	<i>Pig Receiver</i>	Location:	<i>(Binak) Oilfield</i>
Type:		Quotation No:	
No. trains:		Serial no:	
No. stages:			
Supplier:			
Manufacturer:			
Model:			

Note: Information to be completed by: EQUIPMENT VENDOR

WEIGHT AND C OF G DATA REQUIRED *

	WEIGHT ACCURACY %	WEIGHT (kg)	CENTER OF GRAVITY		
			X	Y	Z
DRY					
OPERATING					
TEST					

SKETCH



NOTES

1. All lifting points to be load tested and certified.
2. Any spreader beam to be load tested and certified.
3. Lifting / rigging plan for skid mounted equipment to be provided by the Vendor.