

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث خطوط انتقال گاز/لایعات گازی از ایستگاه تقویت فشار گاز بینک تا ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک							 	
	DATA SHEETS FOR PIG TRAPS								
شماره پیمان:	پروژه	پسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 1 از 11
053 - 073 - 9184	BK	PPL	PEDCO	320	ME	DT	0001	D04	

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR PIG TRAPS

نگهداشت و افزایش تولید میدان نفتی بینک

D04	OCT.2022	AFC	H.Adineh	M.Fakharian	M.Mehrshad	
D03	AUG.2022	AFC	H.Adineh	M.Fakharian	M.Mehrshad	
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	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

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

 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: 053 - 073 - 9184	پروژه BK	بسته کاری PPL	صادرکننده PEDCO	تسهیلات 320	رشته ME	نوع مدرک DT	سریال 0001	نسخه D04	شماره صفحه: 2 از 11

REVISION RECORD SHEET

Page	D00	D01	D02	D03	D04	Page	D00	D01	D02	D03	D04
1	X	X	X	X	X	65					
2	X	X	X	X	X	66					
3	X	X	X			67					
4	X	X	X		X	68					
5	X		X	X		69					
6	X	X				70					
7	X	X				71					
8	X	X	X	X	X	72					
9	X		X	X		73					
10	X	X				74					
11	X	X				75					
12						76					
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 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض احداث خطوط انتقال گاز/امیعات گازی از ایستگاه تقویت فشار گاز بینک تا ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک								
	DATA SHEETS FOR PIG TRAPS								
	شماره پیمان:	پروژه	صادرکننده	تسهیلات	رشته	نوع مدرک	سریال		نسخه
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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".



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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:

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پروژه

بسته کاری

صادر کننده

تهیهات

رشته

نوع مدرک

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شماره صفحه: 4 از 11

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

Description :

Tag No. : *PL - 3201* Quantity *1* SetType : *Pig Launcher*Line No. : *GAS-113-0005-FN05-8"-PT*

Fluid Characteristics

Fluid Handled *NATURAL GAS*Fluid Density *41.5* H₂S % mol *0.054*Toxic *YES* Sour *YES*Corrosive/Erosive *YES* Due to *Hazardous Area "Zone 2, IIB, T3"*

Operating & Design Condition

Operating Temp. *57.7~58.3* °C Operating Pressure *49.4~50.9* bargDesign Temp. *5~85* °C Design Pressure *62* bargAmbient Temp. *5~50* °C MDMT *5* °CWind Design *120* Km / hr. Seismic Design Code *ASCE 7-10, SITE CLASS : D*Major Barrel Dia. *10* Inch Minor Barrel Dia. *8* InchMajor Barrel Length *3000* mm Minor Barrel Length *1000* mmCorrosion Allow. *3.2* mm Corrosion Allow. *3.2* mmMajor Barrel THK. *NOTE (1)* mm Minor Barrel THK. *NOTE (1)* mm

Type of Pigs

Normal *YES*Intelligent *YES*Spheres *YES*Foam *YES*

Other

Miscellaneous

Design Code: *(Note 23)*Barrels *ASME B 31.8 (D.F. :0.5)/ IPS-M-PI 130*Closure *ASME VIII*Position *Horizontal*Bidirectional line *No*Insulation *No*Closure Type ☒ Quick Opening ☐ Level/Handwheel Operated ☐ Vertical Hinged

Materials (Note 9)

Code *ASTM / API* Quick Open Closure *C.S.*Barrel *API 5L Gr. X52 PSL2* Gasket *S.S. 316, Spiral Wound-Graphite Filled*Nozzle *API 5L Gr. X 52* Backing Plate *C.S.*Flange *ASTM A694 F52* Bolts / Nuts *A193 Gr. B7M / A194 Gr. 2HM*Fittings *ASTM A860 WPHY 52* Anchor Bolts *C.S.*Saddle (Wear Plate / Others): *A516 Gr. 70 / A283 Gr. C* Name Plate *S.S.*

Connections

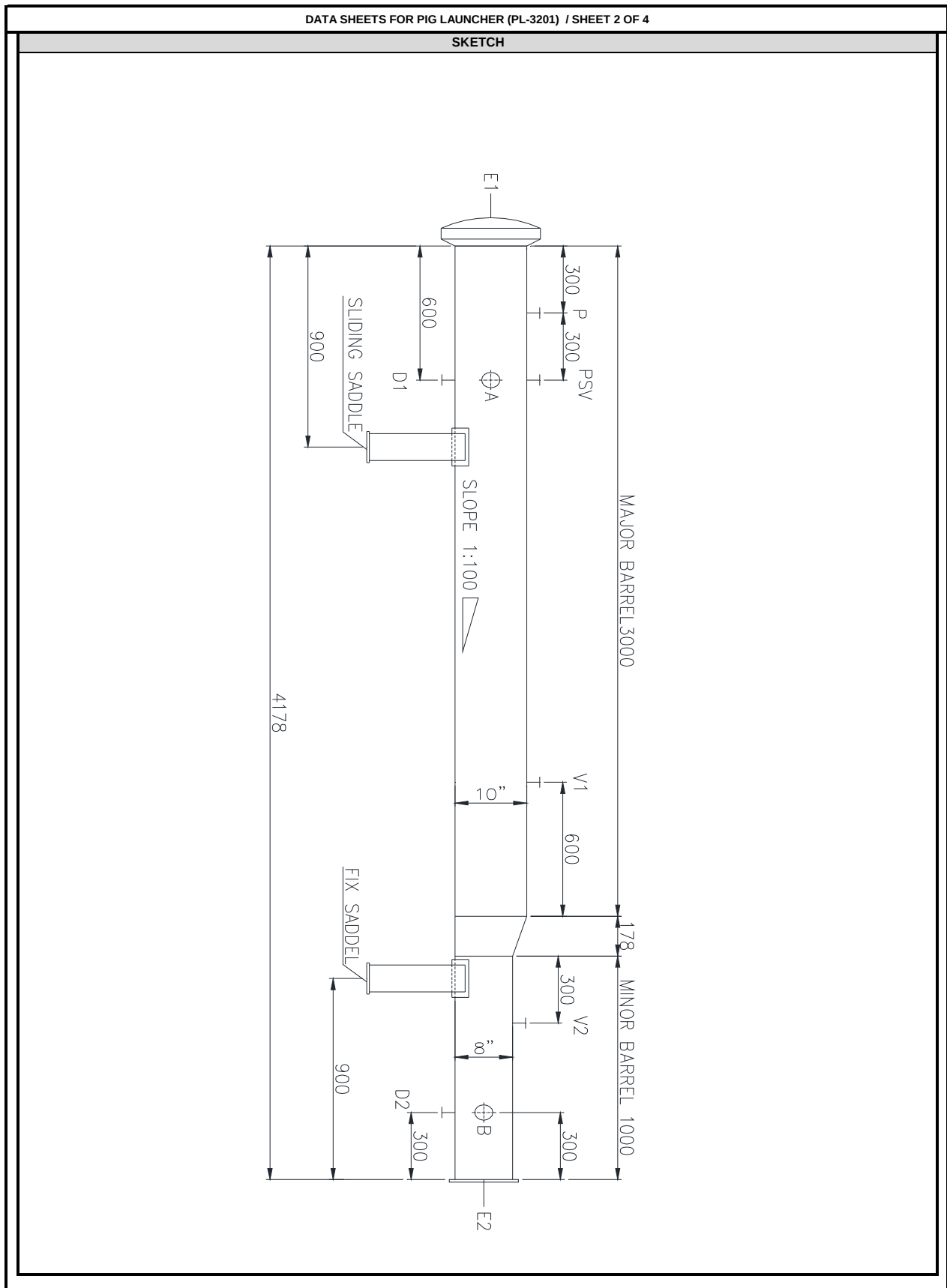
Mark	No. Req.	Size in	Flange Rating	Typ/ Fac.	Thk. (mm)	Sch.	Thk. (mm)	OD (mm)	Project. (mm) (Note 18)	Description	Remarks
<i>A</i>	<i>1</i>	<i>2</i>		<i>WN/RF</i>			-	-	<i>272</i>	<i>Kicker Line</i>	
<i>B</i>	<i>1</i>	<i>2</i>		<i>WN/RF</i>			-	-	<i>245</i>	<i>Balance Line</i>	
<i>D1/D2</i>	<i>2</i>	<i>2</i>		<i>WN/RF</i>			-	-	<i>472/265</i>	<i>Drain</i>	
<i>E1</i>	<i>1</i>	<i>10</i>		<i>WN/RF</i>			-	-	<i>SEE DWG</i>	<i>Q.O.C.</i>	
<i>E2</i>	<i>1</i>	<i>8</i>		<i>WN/RF</i>			-	-	<i>SEE DWG</i>	<i>Main Pig Outlet</i>	
<i>P</i>	<i>1</i>	<i>1</i>		<i>WN/RF</i>			-	-	<i>243</i>	<i>PG Con.</i>	
<i>V1</i>	<i>1</i>	<i>2</i>		<i>WN/RF</i>			-	-	<i>272</i>	<i>Vent</i>	

*Deleted**PSV* *1* *1* *WN/RF* *-* *-* *243* *PRESSURE SAFTY VALVE**V2* *1* *2* *WN/RF* *-* *-* *245* *Vent*

Fabrication and Inspection Requirements

Fabrication Code *ASME VIII Div. 1* Hydrostatic Test Press. *1.5 Times the Design Pressure*NDE Code *ASME V & VIII* Impact Test *Acc. To Code*Welding Code *ASME IX* PWHT *YES*Radiography *100%* MT, PT & Pneu. Tests *Acc. To Code & The Project Spec.*Internal & External Coating : *Acc. To the Project 'Specification for Painting.', Doc. No. : BK-GNRL-PEDCO-000-PI-SP-0006*

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شماره پیمان: 053 - 073 - 9184		پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	شماره صفحه: 11 از 11
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نگهداشت و افزایش تولید میدان نفتی بینک
سطح الارض
احداث خطوط انتقال گاز/لامیعات گازی از ایستگاه تقویت فشار گاز بینک تا
ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک



DATA SHEETS FOR PIG TRAPS

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نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
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شماره صفحه: 6 از 11

DATA SHEETS FOR PIG LAUNCHER (PL-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
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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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

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پروژه

بسته کاری

صادرکننده

تسهیلات

رشته

نوع مدرک

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

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64WEIGHT CONTROL
DATA SHEET
SI UNIT *

1/1

Service Pig Launcher

Type:

No. trains:

No. stages:

Supplier:

Manufacturer:

Model:

Location:

(Binak) Oilfield

Quotation No:

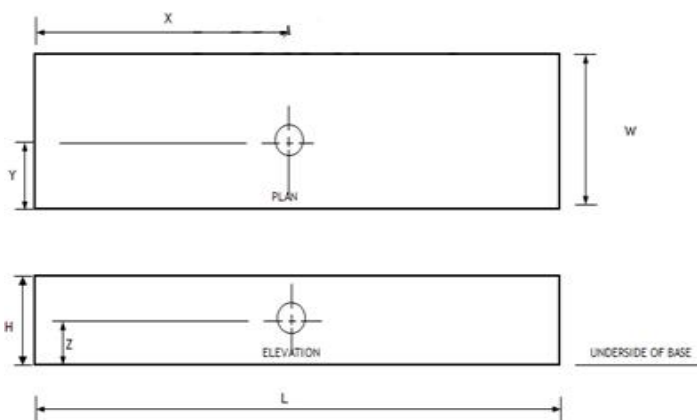
Serial no:

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

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پروژه	بسته کاری	صادر کننده	تهیه کننده	رشته	نوع مدرک	سریال	نسخه
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DATA SHEET FOR PIG RECEIVER (PR-3201) / SHEET 1 OF 4

1	Description :											
2	Tag No.	:	PR-3201	Quantity	1	Set						
3	Type	:	Pig Receiver									
4	Line No.	:	GAS-113-0011-FN05-8"-PT									
5	Fluid Characteristics											
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.	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. :0.5)/ 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	☒ Quick Opening ☐ Level/Handwheel Operated										
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 Rating	Typ/ Fac.	Thk. (mm)	Sch.	Reinf. Pad Thk. (mm)	OD (mm)	Project. (mm) (Note18)	Description	Remarks
37	A	1	2		WN/RF	-		-	-	272	Kicker Line	
38	B	1	2		WN/RF	-		-	-	245	Balance Line	
39	D1	1	2		WN/RF	-		-	-	472	Drain	
40	D2	1	2		WN/RF	-		-	-	265	Drain	
41	E1	1	10		WN/RF	-		-	-	SEE DWG	Q.O.C.	
42	E2	1	8		WN/RF	-		-	-	SEE DWG	Main Pig Outlet	
43	K	1	2		WN/RF	-		-	-	245	Pig Signaler/indicator	
44	P	1	1		WN/RF	-		-	-	243	PG Con.	
45	V1	1	2		WN/RF	-		-	-	272	Vent	
46	Deleted.											
47	PSV	1	1		WN/RF	-		-	-	243	PRESSURE SAFTY VALVE	
48	V2	1	2		WN/RF	-		-	-	245	Vent	
49												
50												
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											
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D04



سطح الارض

ایستگاه تزریق گاز سیاه‌مکان/واحد بهره برداری بینک

DATA SHEETS FOR PIG TRAPS

شماره پیمان:

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پروژہ

نستنه کاری

صادر کنندہ

تسهيلات

رشته

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سریال

سخه	
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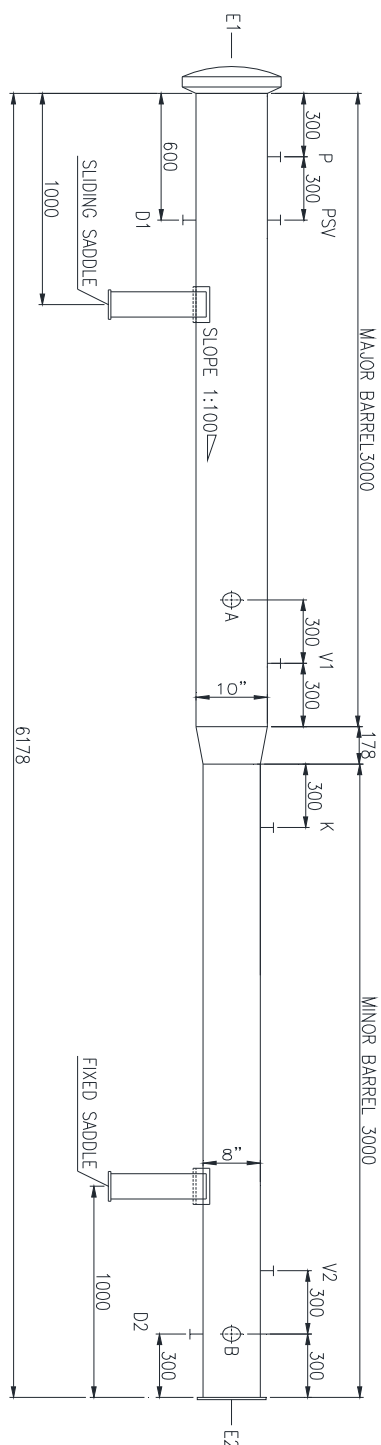
ف	
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DATA SHEETS FOR PIG RECEIVER (PR-3201) / SHEET 2 OF 4

SKETCH





NISOC

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



DATA SHEETS FOR PIG TRAPS

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پروژه

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صادرکننده

PEDCO

تسهیلات

320

رشته

ME

نوع مدرک

DT

سریال

0001

نسخه

D04

شماره صفحه: 10 از 11

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/امایعات گازی از ایستگاه تقویت فشار گاز بینک تا

ایستگاه تزریق گاز سیاهمکان/واحد بهره برداری بینک



DATA SHEETS FOR PIG TRAPS

شماره پیمان:

053 - 073 - 9184

پروژه

بسته کاری

صادر کننده

تسهیلات

رشته

نوع مدرک

سریال

نسخه

D04

0001

DT

ME

320

PEDCO

PPL

BK

شماره صفحه: 11 از 11

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

WEIGHT CONTROL
DATA SHEET
SI UNIT *

1/1

Service Pig Receiver

Type: _____

No. trains: _____

No. stages: _____

Supplier: _____

Manufacturer: _____

Model: _____

Location: (Binak) Oilfield

Quotation No: _____

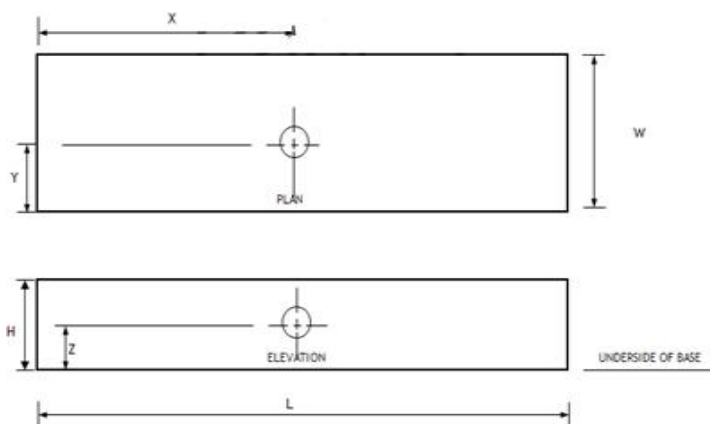
Serial no: _____

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.