
 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض عمومی و مشترک								
	DATA SHEETS FOR WHCP/HPU-WELLHEADS								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری SSGRL	صادر کننده PEDCO	تسهیلات 110	رشته IN	نوع مدرک DT	سریال 0001	نسخه D03	شماره صفحه: 1 از 12

طرح نگهداشت و افزایش تولید 27 مخزن

DATA SHEETS FOR WHCP/HPU - WELLHEADS

نگهداشت و افزایش تولید میدان نفتی بینک

D03	JUN.2022	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D02	DEC.2021	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D01	NOV.2021	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
D00	AUG.2021	IFC	M.Asgharnejad	M.Fakharian	Sh.Ghalikar	
Rev.	Date	Purpose of Issue / Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval

Class: 2

CLIENT Doc. Number: F9Z-707368

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
فعالیت های رو زمینی در بسته های کاری تحت الارض

عمومی و مشترک

DATA SHEETS FOR WHCP/HPU-WELLHEADS



شماره پیمان:

053 - 073 - 9184



نسخه	سریال	نوع مدرک	رشته	تسهیلات	صادرکننده	بسته کاری	پروژه
D03	0001	DT	IN	000	PEDCO	SSGRL	BK

شماره صفحه: 12 از 12

REVISION RECORD SHEET

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3	X	X			
4	X	X			
5	X	X	X		
6	X		X	X	
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8	X		X	X	
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 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بینک</p> <p>فعالیت های رو زمینی در بسته های کاری تحت الارض</p> <p>عمومی و مشترک</p> <p>DATA SHEETS FOR WHCP/HPU-WELLHEADS</p>								
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری SSGRL	صادر کننده PEDCO	تسهیلات 000	رشته IN	نوع مدرک DT	سریال 0001	نسخه D03	شماره صفحه: 3 از 12

REFERENCE DOCUMENTS:

1- SPECIFICATION FOR INSTRUMENTATION	BK-GNRL-PEDCO-000-IN-SP-0001
2- PIPING AND PIPELINE MATERIAL SPECIFICATION	BK-SSGRL-PEDCO-110-PI-SP-0001
3- PIPING & INSTRUMENT DIAGRAM:	
P&ID - W018S	BK-W018S-PEDCO-110-PR-PI-0001
P&ID - W028	BK-W028-PEDCO-110-PR-PI-0001
P&ID - W035	BK-W035-PEDCO-110-PR-PI-0001
P&ID - W008N	BK-W008N-PEDCO-110-PR-PI-0001
4- SPECIFICATION FOR WHCP/HPU	BK-SSGRL-PEDCO-110-IN-SP-0001
5- WHCP HYDRAULIC/PNEUMATIC DIAGRAM- WELLHEADS	BK-SSGRL-PEDCO-110-IN-DG-0002
6- INSTRUMENT & CONTROL DESIGN CRITERIA	BK-SSGRL-PEDCO-110-IN-DC-0002

D03

 NISOC	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض عمومی و مشترک							
	DATA SHEETS FOR WHCP/HPU-WELLHEADS							
شماره پیمان: 053 - 073 - 9184	پروژه	بسته کاری	صادر کننده	تسهیلات	رشته	نوع مدرک	سریال	نسخه
	BK	SSGRL	PEDCO	000	IN	DT	0001	D03
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GENERAL NOTES

1- Environmental Condition For Field Instrumentation Of Binak wellhead area Shall Be Considered as Per The Following:

- Minimum ambient temperature (°C): -5 °C
- Maximum ambient temperature (°C): 50 °C
- Maximum steel surface exposed to sun (°C): 85 °C




D03

Relative Humidity:




- Maximum Design relative humidity: 100%
- Minimum Design relative humidity: 0%

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	DATA SHEETS FOR WHCP/HPU-WELLHEADS								
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تهیه کننده	رشته	نوع مدرک	سریال	نسخه
053 - 073 - 9184	BK	SSGRL	PEDCO	000	IN	DT	0001	D03	شماره صفحه: 5 از 12

WELLHEAD CONTROL PANEL FOR WELL NO. W018S			
GENERAL DATA	1	TAG NUMBERS	WHCP-1101
	2	DIMENSIONS FOR PANEL	VTA
	3	P&ID NO.	BK-W018S-PEDCO-110-PR-PI-0001
	4	HYDRAULIC DIAGRAM NO.	BK-SSGRL-PEDCO-110-IN-DG-0002
	5	NUMBER OF WELLS PER WHCP /NUMBER OF ATUMATIC VALVES PER WELL	1 WELL/2 VALVE(SSV/SSSV)
SITE CONDITION	6	AS PER PROJECT REQUIREMENT	REFER TO NOTE 1 IN PAGE 4(GENERAL NOTES)
PROCESS DATA	7	WELL DESIGN PRESSURE(Psi)	5000
	8	WELL OPERATING PRESSURE(Psi)	650
	9	WELL DESIGN TEMPERATURE(°C)	100
	10	WELL OPERATING TEMPERATURE(°C)	75
SSV/SSSV SPECIFICATION DATA	11	SSV SWEPT VOLUME/ CRACK OPEN HYDRAULIC PRESSURE	5 LITER/3000 PSI(NOTE 5)
	12	SSSV SWEPT VOLUME / CRACK OPEN HYDRAULIC PRESSURE	2.5 LITER/5000 PSI(NOTE 5)
	13	SSV OPEN& CLOSE TIME /SSSV OPEN&CLOSE TIME	2/8 (NOTE 5)
	14	SSV / SSSV CONNECTION SIZE	1/2" / 1/4"(NOTE 5)
WHCP ENCLOSURE	15	IP RATING	IP 65(NOTE 1)
	16	NACE MR0175/ISO 15156 COMPLIANCE	NOT REQUIRED EXCEPT FOR PSHH/ PSLL AS PER BELOW TABLE
	17	NAME PLATE	BOTH TAG AND WELL NUMBER TO BE INCLUDED IN NAME PLATE
	18	MATERIAL OF WHCP AND ALL ACCESSORIES	316 SS (NOTE 1)
	19	PANEL ACCESSORIES	AS MINIMUM AS PER PROJECT (NOTE 1,5)
HPU	20	NUMBER OF OIL TANK/ VOLUME FOR OIL TANK	2 TANKS /ONE AS THE MAIN OIL TANK AND ONE FOR SSSV RETURN LINE (NOTE 9)
	21	NUMBER OF ACCUMULATOR	2 NO. FOR HP/MP HEADERS (VTC)
	22	PUMP REQUIREMENT	N2 DRIVEN AND HAND PUMPS(NOTE 1,3)
	23	PUMP MAX. WORKING PRESSURE	5000 PSI (EACH PUMPS SEPARATELY)
NITROGEN BOTTLES/ PNEUMATIC SUPPLY (PER PANEL) (NOTE 1,2)	24	NUMBER OF BOTTLES	VENDOR TO ADVISE (CALCULATION TO BE PROVIDED)(NOTE 2)
	25	DIMENSIONS FOR BOTTLES RACK	VENDOR TO ADVISE(NOTE 2)
	26	PRESSURE GAUGES FOR EACH HEADER	REQUIRED(NOTE 1)
PANEL MOUNTED GAUGES	27	PRESSURE GAUGES ON PANEL FRONT	FRONT FACE MOUNTED, AS PER PROJECT DIAGRAMS (VTC)(NOTE 6,1)
	28	PRESSURE GAUGES MATERIAL	316 SS (NOTE 1)
	29	DIAL SIZE	60 mm
SSV/SSSV COMMAND TUBING(NOTE 8,9)	30	TUBE SIZE TO SSV/ SSSV(BY WHCP VENDOR)	1/2" / 1/4"(NOTE 5)
	31	TUBE MATERIAL	316 SS (NOTE 1)
	32	TUBE LENGTH FROM WELL TO SSV/ SSSV (BY WHCP VENDOR)	30 m /30 m
FUSIBLE PLUG LOOP (NOTE 8,9)	33	TUBE SIZE	1/4"
	34	TUBE LENGTH TO AROUND WELL (BY WHCP VENDOR)	50m
	35	TUBE MATERIAL	316 SS (NOTE 1)
	36	NUMBER OF FUSIBLE PLUG FOR EACH WELL/SET POINT	3 NO. (SET POINT:100°C)
PANEL MOUNTED PUSH BUTTONS	37	ESD RESET FUNCTION/SSV AND SSSV OPEN/CLOSE COMMAND FOR EACH WELL	REQUIRED DEDICATED FRONT FACE PUSH BUTTONS AS PER PROJECT DIAGRAMS (VTC)(NOTE 6,1)
PANEL MOUNTED INDICATORS/ LAMPS	38	VALVES OPEN & CLOSE FEEDBACK STATUS	REQUIRED DEDICATED FRONT FACE INDICATORS AS PER PROJECT DIAGRAMS(VTC)(NOTE 6,1)
PRESSURE PILOT	39	PRESSURE SWITCHES FOR PRESSURE SENSING LINE	4 NO. FOR EACH PANEL
SPARE PART	40	SPARE PARTS FOR COMMISSIONING AND START-UP	REQUIRED(NOTE 1)
	41	SPARE PARTS FOR TWO YEARS OPERATION	REQUIRED(NOTE 1)
INSPECTION & TEST	42	AS PER PROJECT REQUIREMENT	REQUIRED(NOTE 1)
PURCHASE	43	MANUFACTURER	FINALIZED BASED ON VENDOR DATA

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	DATA SHEETS FOR WHCP/HPU-WELLHEADS							
	پروژه	بسته کاری	صادر کننده	تهیه کننده	رشته	نوع مدرک	سریال	نسخه
	BK	SSGRL	PEDCO	000	IN	DT	0001	D03
شماره صفحه: 7 از 12								

WELLHEAD CONTROL PANEL FOR WELL NO. W008N			
GENERAL DATA	1	TAG NUMBERS	WHCP-1601
	2	DIMENSIONS FOR PANEL	VTA
	3	P&ID NO.	BK-W008N-PEDCO-110-PR-PI-0001
	4	HYDRAULIC DIAGRAM NO.	BK-SSGRL-PEDCO-110-IN-DG-0002
	5	NUMBER OF WELLS PER WHCP /NUMBER OF ATUMATIC VALVES PER WELL	1 WELL/2 VALVE(SSV/SSSV)
SITE CONDITION	6	AS PER PROJECT REQUIREMENT	REFER TO NOTE 1 IN PAGE 4(GENERAL NOTES)
PROCESS DATA	7	WELL DESIGN PRESSURE(PSI)	5000
	8	WELL OPERATING PRESSURE(PSI)	650
	9	WELL DESIGN TEMPERATURE(°C)	100
	10	WELL OPERATING TEMPERATURE(°C)	75
SSV/SSSV SPECIFICATION DATA	11	SSV SWEPT VOLUME/ CRACK OPEN HYDRAULIC PRESSURE	5 LITER/3000 PSI(NOTE 5)
	12	SSSV SWEPT VOLUME / CRACK OPEN HYDRAULIC PRESSURE	2.5 LITER/5000 PSI(NOTE 5)
	13	SSV OPEN& CLOSE TIME /SSSV OPEN&CLOSE TIME	2/8 (NOTE 5)
	14	SSV / SSSV CONNECTION SIZE	1/2" / 1/4"(NOTE 5)
WHCP ENCLOSURE	15	IP RATING	IP 65(NOTE 1)
	16	NACE MR0175/ISO 15156 COMPLIANCE	NOT REQUIRED EXCEPT FOR PSHH/ PSLL AS PER BELOW TABLE
	17	NAME PLATE	BOTH TAG AND WELL NUMBER TO BE INCLUDED IN NAME PLATE
	18	MATERIAL OF WHCP AND ALL ACCESSORIES	316 SS (NOTE 1)
	19	PANEL ACCESSORIES	AS MINIMUM AS PER PROJECT (NOTE 1,5)
HPU	20	NUMBER OF OIL TANK/ VOLUME FOR OIL TANK	2 TANKS /ONE AS THE MAIN OIL TANK AND ONE FOR SSSV RETURN LINE (NOTE 9)
	21	NUMBER OF ACCUMULATOR	2 NO. FOR HP/MP HEADERS (VTC)
	22	PUMP REQUIREMENT	N2 DRIVEN AND HAND PUMPS(NOTE 1,3)
	23	PUMP MAX. WORKING PRESSURE	5000 PSI (EACH PUMPS SEPARATELY)
NITROGEN BOTTLES/ PNEUMATIC SUPPLY (PER PANEL) (NOTE 1,2)	24	NUMBER OF BOTTLES	VENDOR TO ADVISE (CALCULATION TO BE PROVIDED)(NOTE 2)
	25	DIMENSIONS FOR BOTTLES RACK	VENDOR TO ADVISE(NOTE 2)
	26	PRESSURE GAUGES FOR EACH HEADER	REQUIRED(NOTE 1)
PANEL MOUNTED GAUGES	27	PRESSURE GAUGES ON PANEL FRONT	FRONT FACE MOUNTED, AS PER PROJECT DIAGRAMS (VTC)(NOTE 6,1)
	28	PRESSURE GAUGES MATERIAL	316 SS (NOTE 1)
	29	DIAL SIZE	60 mm
SSV/SSSV COMMAND TUBING(NOTE 8,9)	30	TUBE SIZE TO SSV/ SSSV(BY WHCP VENDOR)	1/2" / 1/4"(NOTE 5)
	31	TUBE MATERIAL	316 SS (NOTE 1)
	32	TUBE LENGTH FROM WELL TO SSV/ SSSV (BY WHCP VENDOR)	30 m /30 m
FUSIBLE PLUG LOOP (NOTE 8,9)	33	TUBE SIZE	1/4"
	34	TUBE LENGTH TO AROUND WELL (BY WHCP VENDOR)	50m
	35	TUBE MATERIAL	316 SS (NOTE 1)
	36	NUMBER OF FUSIBLE PLUG FOR EACH WELL/SET POINT	3 NO. (SET POINT:100°C)
PANEL MOUNTED PUSH BUTTONS	37	ESD RESSET FUNCTION/SSV AND SSSV OPEN/CLOSE COMMAND FOR EACH WELL	REQUIRED DEDICATED FRONT FACE PUSH BUTTONS AS PER PROJECT DIAGRAMS (VTC)(NOTE 6,1)
PANEL MOUNTED INDICATORS/ LAMPS	38	VALVES OPEN & CLOSE FEEDBACK STATUS	REQUIRED DEDICATED FRONT FACE INDICATORS AS PER PROJECT DIAGRAMS(VTC)(NOTE 6,1)
PRESSURE PILOT	39	PRESSURE SWITCHES FOR PRESSURE SENSING LINE	4 NO. FOR EACH PANEL
SPARE PART	40	SPARE PARTS FOR COMMISSIONING AND START-UP	REQUIRED(NOTE 1)
	41	SPARE PARTS FOR TWO YEARS OPERATION	REQUIRED(NOTE 1)
INSPECTION & TEST	42	AS PER PROJECT REQUIREMENT	REQUIRED(NOTE 1)
DISCUSS	43	MANUFACTURER	FINALIZED BASED ON VENDOR DATA

 NISOC 053 - 073 - 9184	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض عمومی و مشترک							 	
	DATA SHEETS FOR WHCP/HPU-WELLHEADS								
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک		سریال
	BK	SSGRL	PEDCO	000	IN	DT	0001	D03	شماره صفحه: 8 از 12

PURCHASE		44	MODEL		FINALIZED BASED ON VENDOR DATA				
RELATED DATA SHEETS FOR PRESSURE SENSING LINE AND SWITCHES									D03
TAG NO.	PSHH-1601A	P&IDs No. BK-W008N-PEDCO-110-PR-PI-0001	OPER. TEMP. (°C) 75	SERVICE PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY PROCESS FLUID FROM MAIN LINE	PROCESS CON. OF SENSING LINE TO THE PIPE 1/2"	FLUID CRUDE OIL	OPER. PRESS. (PSIG) 635.2	OVER RANGE PROT. REQUIRED	
		LINE / EQUIPMENT NO. WHCP-1601	DSG. TEMP. (°C) 100		PRESS. ELEM.TYPE BY VENDOR	PRESS. ELEM. MTR. SS 316	DESIGN PRESS. (PSIG) 5000	SET POINT (PSIG) 2500	
TAG NO.	PSLL-1601A	P&IDs No. BK-W008N-PEDCO-110-PR-PI-0001	OPER. TEMP. (°C) 75	SERVICE PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY PROCESS FLUID FROM MAIN LINE	PROCESS CON. OF SENSING LINE TO THE PIPE 1/2"	FLUID CRUDE OIL	OPER. PRESS. (PSIG) 635.2	OVER RANGE PROT. REQUIRED	
		LINE / EQUIPMENT NO. WHCP-1601	DSG. TEMP. (°C) 100		PRESS. ELEM.TYPE BY VENDOR	PRESS. ELEM. MTR. SS 316	DESIGN PRESS. (PSIG) 5000	SET POINT (PSIG) 194.575	
TAG NO.	PSHH-1601B	P&IDs No. BK-W008N-PEDCO-110-PR-PI-0001	OPER. TEMP. (°C) 75	SERVICE PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY PROCESS FLUID FROM MAIN LINE	PROCESS CON. OF SENSING LINE TO THE PIPE 1/2"	FLUID CRUDE OIL	OPER. PRESS. (PSIG) 635.2	OVER RANGE PROT. REQUIRED	
		LINE / EQUIPMENT NO. WHCP-1601	DSG. TEMP. (°C) 100		PRESS. ELEM.TYPE BY VENDOR	PRESS. ELEM. MTR. SS 316	DESIGN PRESS. (PSIG) 5000	SET POINT (PSIG) 202.71	
TAG NO.	PSLL-1601B	P&IDs No. BK-W008N-PEDCO-110-PR-PI-0001	OPER. TEMP. (°C) 75	SERVICE PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY PROCESS FLUID FROM MAIN LINE	PROCESS CON. OF SENSING LINE TO THE PIPE 1/2"	FLUID CRUDE OIL	OPER. PRESS. (PSIG) 635.2	OVER RANGE PROT. REQUIRED	
		LINE / EQUIPMENT NO. WHCP-1601	DSG. TEMP. (°C) 100		PRESS. ELEM.TYPE BY VENDOR	PRESS. ELEM. MTR. SS 316	DESIGN PRESS. (PSIG) 5000	SET POINT (PSIG) 176.044	

NOTE:

VTA : VENDOR TO ADVISE VTC: VENDOR TO CONFIRM NIA: NOT APPLICABLE

1- FOR DETAIL DATA REFER TO DOC.:SPECIFICATION FOR WHCP/HPU, BK-SSGRL-PEDCO-110-IN-SP-0001.

2- AS MINIMUM, BOTTLES WITH CAPACITY OF 50 LITER WITH QUANTITY: 4 MAIN BOTTLES AND 4 RESERVED BOTTLES SHALL BE CONSIDERED

3- NITROGEN GAS FOR N2 DRIVEN PUMP SUPPLY AT LEAST FOR TWO TIMES ACTUATION OF EACH VALVES (SSV AND SSSV) IS REQUIRED.

4- THE WHCP PANEL SHALL BE SUPPLIED WITH "FIRST OUT" FEATURE SO THE PANEL LOGIC SHALL BE DESIGNED IN A MANNER THAT FIRST CAUSE OF PANEL SHUTDOWN BE DISTINGUISHABLE FOR MAINTENANCE PURPOSES.



5- TO BE FINALIZED BASED ON SSV/SSSV VENDOR FINAL DATA BOOK.

6- REFER TO "WHCP HYDRAULIC DIAGRAM,BK-SSGRL-PEDCO-110-IN-DG-0002".





7- ALL TUBE AND ACCESSORIES FOR SSV/SSSV, FUSIBLE PLUG AND INTERCONNECTION ON WHCP SHALL BE SUPPLIED BY WHCP VENDOR

8- THE QUANTITY OF TUBE AND ACCESSORIES FOR SSV/SSSV, FUSIBLE PLUG AND INTERCONNECTION ON WHCP SHALL BE FINALIZED BY WHCP VENDOR.

9- THE MINIMUM VOLUME OF OIL TANK(50 LITER) SHALL BE CONSIDERED IN ACCORDANCE TO THE CAPACITY OF SSV/SSSV AND THE HYDRAULIC OIL LINE.

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شماره پیمان:	پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک	سریال	نسخه	
053 - 073 - 9184	BK	SSGRL	PEDCO	000	IN	DT	0001	D03	

WELLHEAD CONTROL PANEL FOR WELL NO. W028		
GENERAL DATA	1	TAG NUMBERS
	2	DIMENSIONS FOR PANEL
	3	P&ID NO.
	4	HYDRAULIC DIAGRAM NO.
	5	NUMBER OF WELLS PER WHCP /NUMBER OF ATUMATIC VALVES PER WELL
SITE CONDITION	6	AS PER PROJECT REQUIREMENT
PROCESS DATA	7	WELL DESIGN PRESSURE(Psi)
	8	WELL OPERATING PRESSURE(Psi)
	9	WELL DESIGN TEMPERATURE(°C)
	10	WELL OPERATING TEMPERATURE(°C)
SSV/SSSV SPECIFICATION DATA	11	SSV SWEPT VOLUME/ CRACK OPEN HYDRAULIC PRESSURE
	12	SSSV SWEPT VOLUME / CRACK OPEN HYDRAULIC PRESSURE
	13	SSV OPEN& CLOSE TIME /SSSV OPEN&CLOSE TIME
	14	SSV / SSSV CONNECTION SIZE
WHCP ENCLOSURE	15	IP RATING
	16	NACE MR0175/ISO 15156 COMPLIANCE
	17	NAME PLATE
	18	MATERIAL OF WHCP AND ALL ACCESSORIES
	19	PANEL ACCESSORIES
HPU	20	NUMBER OF OIL TANK/ VOLUME FOR OIL TANK
	21	NUMBER OF ACCUMULATOR
	22	PUMP REQUIREMENT
	23	PUMP MAX. WORKING PRESSURE
NITROGEN BOTTLES/ PNEUMATIC SUPPLY (PER PANEL) (NOTE 1,2)	24	NUMBER OF BOTTLES
	25	DIMENSIONS FOR BOTTLES RACK
	26	PRESSURE GAUGES FOR EACH HEADER
PANEL MOUNTED GAUGES	27	PRESSURE GAUGES ON PANEL FRONT
	28	PRESSURE GAUGES MATERIAL
	29	DIAL SIZE
SSV/SSSV COMMAND TUBING(NOTE 8,9)	30	TUBE SIZE TO SSV/ SSSV(BY WHCP VENDOR)
	31	TUBE MATERIAL
	32	TUBE LENGTH FROM WELL TO SSV/ SSSV (BY WHCP VENDOR)
FUSIBLE PLUG LOOP (NOTE 8,9)	33	TUBE SIZE
	34	TUBE LENGTH TO AROUND WELL (BY WHCP VENDOR)
	35	TUBE MATERIAL
	36	NUMBER OF FUSIBLE PLUG FOR EACH WELL/SET POINT
PANEL MOUNTED PUSH BUTTONS	37	ESD RESSET FUNCTION/SSV AND SSSV OPEN/CLOSE COMMAND FOR EACH WELL
PANEL MOUNTED INDICATORS/ LAMPS	38	VALVES OPEN & CLOSE FEEDBACK STATUS
PRESSURE PILOT	39	PRESSURE SWITCHES FOR PRESSURE SENSING LINE
SPARE PART	40	SPARE PARTS FOR COMMISSIONING AND START-UP
	41	SPARE PARTS FOR TWO YEARS OPERATION
INSPECTION & TEST	42	AS PER PROJECT REQUIREMENT
DISCUSS	43	MANUFACTURER

 NISOC 053 - 073 - 9184	نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های روزمینی در بسته های کاری تحت الارض عمومی و مشترک							 گسترش و بهره‌برداری  URGAN  TE	
	DATA SHEETS FOR WHCP/HPU-WELLHEADS								
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک		سریال
	BK	SSGRL	PEDCO	000	IN	DT	0001	D03	شماره صفحه: 10 از 12

PURCHASE		44	MODEL		FINALIZED BASED ON VENDOR DATA				
RELATED DATA SHEETS FOR PRESSURE SENSING LINE AND SWITCHES									D03
TAG NO.	PSHH-1401A	P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.	
		BK-W028-PEDCO-110-PR-PI-0001	80		1/2"	CRUDE OIL	635.2	REQUIRED	
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY PROCESS FLUID FROM MAIN LINE	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)	
WHCP-1401	105	BY VENDOR	SS 316		5000	4200			
TAG NO.	PSLL-1401A	P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.	
		BK-W028-PEDCO-110-PR-PI-0001	80		1/2"	CRUDE OIL	635.2	REQUIRED	
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY PROCESS FLUID FROM MAIN LINE	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)	
WHCP-1401	105	BY VENDOR	SS 316		5000	194.575			
TAG NO.	PSHH-1401B	P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.	
		BK-W028-PEDCO-110-PR-PI-0001	80		1/2"	CRUDE OIL	635.2	REQUIRED	
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY PROCESS FLUID FROM MAIN LINE	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)	
WHCP-1401	105	BY VENDOR	SS 316		5000	202.71			
TAG NO.	PSLL-1401B	P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.	
		BK-W028-PEDCO-110-PR-PI-0001	80		1/2"	CRUDE OIL	635.2	REQUIRED	
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY PROCESS FLUID FROM MAIN LINE	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)	
WHCP-1401	105	BY VENDOR	SS 316		5000	176.044			

NOTE:

VTA : VENDOR TO ADVISE VTC: VENDOR TO CONFIRM NIA: NOT APPLICABLE

1- FOR DETAIL DATA REFER TO DOC.:SPECIFICATION FOR WHCP/HPU, BK-SSGRL-PEDCO-110-IN-SP-0001.

2- AS MINIMUM, BOTTLES WITH CAPACITY OF 50 LITER WITH QUANTITY: 4 MAIN BOTTLES AND 4 RESERVED BOTTLES SHALL BE CONSIDERED

3- NITROGEN GAS FOR N2 DRIVEN PUMP SUPPLY AT LEAST FOR TWO TIMES ACTUATION OF EACH VALVES (SSV AND SSSV) IS REQUIRED.

4- THE WHCP PANEL SHALL BE SUPPLIED WITH "FIRST OUT" FEATURE SO THE PANEL LOGIC SHALL BE DESIGNED IN A MANNER THAT FIRST CAUSE OF PANEL SHUTDOWN BE DISTINGUISHABLE FOR MAINTENANCE PURPOSES.


5- TO BE FINALIZED BASED ON SSV/SSSV VENDOR FINAL DATA BOOK.

6- REFER TO "WHCP HYDRAULIC DIAGRAM,BK-SSGRL-PEDCO-110-IN-DG-0002".

7- ALL TUBE AND ACCESSORIES FOR SSV/SSSV, FUSIBLE PLUG AND INTERCONNECTION ON WHCP SHALL BE SUPPLIED BY WHCP VENDOR

8- THE QUANTITY OF TUBE AND ACCESSORIES FOR SSV/SSSV, FUSIBLE PLUG AND INTERCONNECTION ON WHCP SHALL BE FINALIZED BY WHCP VENDOR.



9- THE MINIMUM VOLUME OF OIL TANK(50 LITER) SHALL BE CONSIDERED IN ACCORDANCE TO THE CAPACITY OF SSV/SSSV AND THE HYDRAULIC OIL LINE.

 NISOC	<p>نگهداشت و افزایش تولید میدان نفتی بیک فعالیت های روزمینی در بسته های کاری تحت الارض عمومی و مشترک</p> <p>DATA SHEETS FOR WHCP/HPU-WELLHEADS</p>								 شماره صفحه: 11 از 12
شماره پیمان: 053 - 073 - 9184	پروژه BK	بسته کاری SSGRL	صادر کننده PEDCO	تهیهات 000	رشته IN	نوع مدرک DT	سریال 0001	نسخه D03	

D02

WELLHEAD CONTROL PANEL FOR WELL NO. W035

GENERAL DATA	1	TAG NUMBERS	WHCP-1501
	2	DIMENSIONS FOR PANEL	VTA
	3	P&ID NO.	BK-W035-PEDCO-110-PR-PI-0001
	4	HYDRAULIC DIAGRAM NO.	BK-SSGRL-PEDCO-110-IN-DG-0002
	5	NUMBER OF WELLS PER WHCP /NUMBER OF ATUMATIC VALVES PER WELL	1 WELL/2 VALVE(SSV/SSSV)
SITE CONDITION	6	AS PER PROJECT REQUIREMENT	REFER TO NOTE 1 IN PAGE 4(GENERAL NOTES)
PROCESS DATA	7	WELL DESIGN PRESSURE(Psi)	5000
	8	WELL OPERATING PRESSURE(Psi)	650
	9	WELL DESIGN TEMPERATURE(°C)	105
	10	WELL OPERATING TEMPERATURE(°C)	80
SSV/SSSV SPECIFICATION DATA	11	SSV SWEPT VOLUME/ CRACK OPEN HYDRAULIC PRESSURE	5 LITER/3000 PSI(NOTE 5)
	12	SSSV SWEPT VOLUME / CRACK OPEN HYDRAULIC PRESSURE	2.5 LITER/5000 PSI(NOTE 5)
	13	SSV OPEN& CLOSE TIME /SSSV OPEN&CLOSE TIME	2/8 (NOTE 5)
	14	SSV / SSSV CONNECTION SIZE	1/2" / 1/4"(NOTE 5)
WHCP ENCLOSURE	15	IP RATING	IP 65(NOTE 1)
	16	NACE MR0175/ISO 15156 COMPLIANCE	NOT REQUIRED EXCEPT FOR PSHH/ PSLL AS PER BELOW TABLE
	17	NAME PLATE	BOTH TAG AND WELL NUMBER TO BE INCLUDED IN NAME PLATE
	18	MATERIAL OF WHCP AND ALL ACCESSORIES	316 SS (NOTE 1)
	19	PANEL ACCESSORIES	AS MINIMUM AS PER PROJECT (NOTE 1,5)
HPU	20	NUMBER OF OIL TANK/ VOLUME FOR OIL TANK	2 TANKS /ONE AS THE MAIN OIL TANK AND ONE FOR SSSV RETURN LINE (NOTE 9)
	21	NUMBER OF ACCUMULATOR	2 NO. FOR HP/MP HEADERS (VTC)
	22	PUMP REQUIREMENT	N2 DRIVEN AND HAND PUMPS(NOTE 1,3)
	23	PUMP MAX. WORKING PRESSURE	5000 PSI (EACH PUMPS SEPARATELY)
NITROGEN BOTTLES/ PNEUMATIC SUPPLY (PER PANEL) (NOTE 1,2)	24	NUMBER OF BOTTLES	VENDOR TO ADVISE (CALCULATION TO BE PROVIDED)(NOTE 2)
	25	DIMENSIONS FOR BOTTLES RACK	VENDOR TO ADVISE(NOTE 2)
	26	PRESSURE GAUGES FOR EACH HEADER	REQUIRED(NOTE 1)
PANEL MOUNTED GAUGES	27	PRESSURE GAUGES ON PANEL FRONT	FRONT FACE MOUNTED, AS PER PROJECT DIAGRAMS (VTC)(NOTE 6,1)
	28	PRESSURE GAUGES MATERIAL	316 SS (NOTE 1)
	29	DIAL SIZE	60 mm
SSV/SSSV COMMAND TUBING(NOTE 8,9)	30	TUBE SIZE TO SSV/ SSSV(BY WHCP VENDOR)	1/2" / 1/4"(NOTE 5)
	31	TUBE MATERIAL	316 SS (NOTE 1)
	32	TUBE LENGTH FROM WELL TO SSV/ SSSV (BY WHCP VENDOR)	30 m /30 m
FUSIBLE PLUG LOOP (NOTE 8,9)	33	TUBE SIZE	1/4"
	34	TUBE LENGTH TO AROUND WELL (BY WHCP VENDOR)	50m
	35	TUBE MATERIAL	316 SS (NOTE 1)
	36	NUMBER OF FUSIBLE PLUG FOR EACH WELL/SET POINT	3 NO. (SET POINT:100°C)
PANEL MOUNTED PUSH BUTTONS	37	ESD RESSET FUNCTION/SSV AND SSSV OPEN/CLOSE COMMAND FOR EACH WELL	REQUIRED DEDICATED FRONT FACE PUSH BUTTONS AS PER PROJECT DIAGRAMS (VTC)(NOTE 6,1)
PANEL MOUNTED INDICATORS/ LAMPS	38	VALVES OPEN & CLOSE FEEDBACK STATUS	REQUIRED DEDICATED FRONT FACE INDICATORS AS PER PROJECT DIAGRAMS(VTC)(NOTE 6,1)
PRESSURE PILOT	39	PRESSURE SWITCHES FOR PRESSURE SENSING LINE	4 NO. FOR EACH PANEL
SPARE PART	40	SPARE PARTS FOR COMMISSIONING AND START-UP	REQUIRED(NOTE 1)
	41	SPARE PARTS FOR TWO YEARS OPERATION	REQUIRED(NOTE 1)
INSPECTION & TEST	42	AS PER PROJECT REQUIREMENT	REQUIRED(NOTE 1)
PURCHASE	43	MANUFACTURER	FINALIZED BASED ON VENDOR DATA
	44	MODEL	FINALIZED BASED ON VENDOR DATA

 NISOC 053 - 073 - 9184	نگهداشت و افزایش تولید میدان نفتی بیسک فعالیت های روزمینی در بسته های کاری تحت الارض عمومی و مشترک							 	
	DATA SHEETS FOR WHCP/HPU-WELLHEADS								
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تهیهات	رشته	نوع مدرک		سریال
	BK	SSGRL	PEDCO	000	IN	DT	0001	D03	شماره صفحه: 12 از 12

D02

RELATED DATA SHEETS FOR PRESSURE SENSING LINE AND SWITCHES

D03

TAG NO.	PSHH-1501A	P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
		BK-W035-PEDCO-110-PR-PI-0001	80		1/2"	CRUDE OIL	635.2	REQUIRED
TAG NO.	PSLL-1501A	P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
		BK-W035-PEDCO-110-PR-PI-0001	80		1/2"	CRUDE OIL	635.2	REQUIRED
TAG NO.	PSHH-1501B	P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
		BK-W035-PEDCO-110-PR-PI-0001	80		1/2"	CRUDE OIL	635.2	REQUIRED
TAG NO.	PSLL-1501B	P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
		BK-W035-PEDCO-110-PR-PI-0001	80		1/2"	CRUDE OIL	635.2	REQUIRED

NOTE:

VTA : VENDOR TO ADVISE VTC: VENDOR TO CONFIRM NIA: NOT APPLICABLE

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8- THE QUANTITY OF TUBE AND ACCESSORIES FOR SSV/SSSV, FUSIBLE PLUG AND INTERCONNECTION ON WHCP SHALL BE FINALIZED BY WHCP VENDOR.

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