







عمومي و مشترك

OC DATA SHEETS FOR WHCP/HPU-WELLHEADS

شماره پیمان∶ 9184 – 073 - 053

پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	SSGRL	PEDCO	110	IN	DT	0001	D04

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

D04	JAN.2023	IFA	P.Hajisadeghi	M.Fakharian	M.Mehrshad	
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
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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



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض

عمومی و مشترک



 نسخه
 سریال
 نوع مدر ک ارشته
 تسهیلات
 صادر کننده
 بسته کاری
 پروژه
 شماره پیمان:

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شماره صفحه: 2 از 12

REVISION RECORD SHEET

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Page	D00	D01	D02	D03	D04
65					
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عمومی و مشترک

DATA SHEETS FOR WHCP/HPU-WELLHEADS

 نسخه
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شماره صفحه: 3 از 12

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053 - 073 - 9184

1- SPECIFICATION FOR INSTRUMENTATION BK-GNRAL-PEDCO-000-IN-SP-0001

2- PIPING AND PIPELINE MATERIAL SPECIFICATION BK-SSGRL-PEDCO-110-PI-SP-0001

3- PIPING & INSTRUMENT DIAGRAM:

شماره پیمان:

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

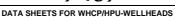
5- WHCP HYDRAULIC/PNEUMATIC DIAGRAM- WELLHEADS BK-SSGRL-PEDCO-110-IN-DG-0002

6- INSTRUMENT & CONTROL DESIGN CRITERIA BK-SSGRL-PEDCO-110-IN-DC-0002



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض

عمومي و مشترك





شماره پیمان	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
	BK	SSGRL	PEDCO	000	IN	DT	0001	D04

شماره صفحه: 4 از 12

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

Relative Humidity:

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



DATA SHEETS FOR WHCP/HPU-WELLHEADS

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المادة مشعر: 5 از 12 المادة ا

		WELLHEAD CONTROL PANEL FOR WELL N	O. W018S			
		TAG NUMBERS	WHCP-1101			
		DIMENSIONS FOR PANEL	VTA			
GENERAL DATA		P&ID NO.	BK-W018S-PEDCO-110-PR-PI-0001			
DAIA		HYDRAULIC DIAGRAM NO. NUMBER OF WELLS PER WHCP /NUMBER OF ATUMATIC	BK-SSGRL-PEDCO-110-IN-DG-0002			
	5	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)			
	7	WELL DESIGN PRESSURE(PSI)	5000			
PROCESS DATA	8	WELL OPERATING PRESSURE(PSI)	650			
TROOLSS BATA	9	WELL DESIGN TEMPERATURE(°C)	100			
	10	WELL OPERATING TEMPERATURE(°C)	75			
	11	SSV SWEPT VOLUME/ CRACK OPEN HYDRAULIC PRESSURE	6000 CC/2500 PSI(NOTE 5)			
	12	SSSV SWEPT VOLUME / CRACK OPEN HYDRAULIC PRESSURE	250 CC/5000 PSI(NOTE 5)			
	13	SSV OPEN& CLOSE TIME /SSSV OPEN&CLOSE TIME(SECOND)	270 & 14-38/5-10 & 2-5 (NOTE 5)			
SSV/SSSV SPECIFICATION DATA	14	SSV ACTUATOR HYDRULIC DESIGN PRESSURE/SSSV ACTUATOR HYDRULIC DESIGN PRESSURE	5000 PSI			
	15	SSV MAXIMUM WORKING PRESSURE/SSSV MAXIMUM WORKING PRESSURE	2500 PSI/3500 PSI (NOTE 5)			
	16	SSV MINIMUM WORKING PRESSURE	600 PSI (NOTE 5)			
	17	SSV / SSSV CONNECTION SIZE	1/2" / 1/4"(NOTE 5)			
	18	IP RATING	IP 65(NOTE 1)			
	19	NACE MR0175/ISO 15156 COMPLIANCE	NOT REQUIRED EXCEPT FOR PSHH/ PSLL AS PER BELOW TABLE			
WHCP ENCLOSURE	20	NAME PLATE	BOTH TAG AND WELL NUMBER TO BE INCLUDED IN NAME PLATE			
	21	MATERIAL OF WHCP AND ALL ACCESSORIES	316 SS (NOTE 1)			
	22	PANEL ACCESSORIES	AS MINIMUM AS PER PROJECT (NOTE 1,5)			
	23	NUMBER OF OIL TANK/ VOLUME FOR OIL TANK	2 TANKS /ONE AS THE MAIN OIL TANK AND ONE FOR SSSV RETURN LINE (NOTE 9,10)			
	24	NUMBER OF ACCUMULATOR	2 NO. FOR HP/MP HEADERS (VTC)			
HPU		PUMP REQUIREMENT	N2 DRIVEN AND HAND PUMPS(NOTE 1,3)			
		PUMP MAX. WORKING PRESSURE	5000 PSI (EACH PUMPS SEPARATELY)			
NITROGEN BOTTLES/	27	NUMBER OF BOTTLES	VENDOR TO ADVISE (CALCULATION TO BE PROVIDED)(NOTE 2)			
PNEUMATIC SUPPLY (PER PANEL)	28	DIMENSIONS FOR BOTTLES RACK	VENDOR TO ADVISE(NOTE 2)			
(NOTE 1,2)	29	PRESSURE GAUGES FOR EACH HEADER	REQUIRED(NOTE 1)			
	30	PRESSURE GAUGES ON PANEL FRONT	FRONT FACE MOUNTED, AS PER PROJECT DIAGRAMS (VTC)(NOTE 6,1)			
PANEL MOUNTED GAUGES	31	PRESSURE GAUGES MATERIAL	316 SS (NOTE 1)			
	32	DIAL SIZE	60 mm			
	33	TUBE SIZE TO SSV/ SSSV(BY WHCP VENDOR)	1/2" / 1/4"(NOTE 5)			
SSV/SSSV COMMAND	34	TUBE MATERIAL	316 SS (NOTE 1)			
TUBING(NOTE 8,9)	35	TUBE LENGTH FROM WELL TO SSV/ SSSV (BY WHCP VENDOR)	30 m /30 m			
	36	TUBE SIZE	1/4"			
FUSIBLE PLUG LOOP (NOTE	37	TUBE LENGTH TO AROUND WELL (BY WHCP VENDOR)	50m			
8,9)	38	TUBE MATERIAL	316 SS (NOTE 1)			
	39	NUMBER OF FUSIBLE PLUG FOR EACH WELL/SET POINT	3 NO. (SET POINT:100°C)			
PANEL MOUNTED PUSH BUTTONS	40	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	11		REQUIRED DEDICATED FRONT FACE INDICATORS AS PER PROJECT			
INDICATORS/ LAMPS	41	VALVES OPEN & CLOSE FEEDBACK STATUS	DIAGRAMS(VTC)(NOTE 6,1)			



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض





شماره صفحه: 6 از 12

DATA SHEETS FOR WHCP/HPU-WELLHEADS روژه سريال BK SSGRL PEDCO 000 IN DT 0001 D04

PRESSURE PILOT	42	PRESSURE SWITCHES FOR PRESSURE SENSING LINE	4 NO. FOR EACH PANEL
SPARE PART	43	SPARE PARTS FOR COMMISSIONING AND START-UP	REQUIRED(NOTE 1)
SPARL PART	44	SPARE PARTS FOR TWO YEARS OPERATION	REQUIRED(NOTE 1)
INSPECTION & TEST	45	AS PER PROJECT REQUIREMENT	REQUIRED(NOTE 1)
DUDOLIACE	46	MANUFACTURER	FINALIZED BASED ON VENDOR DATA
PURCHASE	47	MODEL	FINALIZED BASED ON VENDOR DATA

RELATED DATA SHEETS FOR PRESSURE SENSING LINE AND SWITCHES

		P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSHH-1101A	BK-W018S-PEDCO-110-PR-PI-0001	75		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-1101	100	T NOOLOG T LOTE T NOW THAT LINE	BY VENDOR	SS 316	5000	1200
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSLL-1101A	BK-W018S-PEDCO-110-PR-PI-0001	75	SERVICE	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-1101	100	T NOOLOG T LOTE T NOW THAT LINE	BY VENDOR	SS 316	5000	194.575
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSHH-1101B	BK-W018S-PEDCO-110-PR-PI-0001	75	SERVICE	1/2"	CRUDE OIL	242	REQUIRED
-		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
		WHCP-1101	100	PROCESS FLUID FROM MAIN LINE	BY VENDOR	SS 316	5000	800
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSLL-1101B	BK-W018S-PEDCO-110-PR-PI-0001	75	SERVICE	1/2"	CRUDE OIL	242	REQUIRED
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
		WHCP-1101	100	PROCESS FLUID FROM MAIN LINE	BY VENDOR	SS 316	5000	200

NOTE:

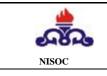
VTA: VENDOR TO ADVISE VTC: VENDOR TO CONFIRM NIA: NOT APPLICABLE

- 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.

- 10- QUICK EXAUST VALVE FOR QUICK OPENING OF SSV TO BE CONSIDERED BY WHCP'S VENDOR.
- 11- RETURN LINE FROM SSSV TO REURN OIL TANK TO BE CONSIDERED BY WHCP'S VENDOR.





عمومی و مشترک

GHARRAN



شماره صفحه: 7 از 12

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	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه
053 - 073 - 9184		BK	SSGRL	PEDCO	000	IN	DT	0001	D04

		WELLHEAD CONTROL PANEL FOR WELL NO	D. W008N		
	1	TAG NUMBERS	WHCP-1601		
	2	DIMENSIONS FOR PANEL	VTA		
GENERAL	3	P&ID NO.	BK-W008N-PEDCO-110-PR-PI-0001		
DATA	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)		
	7	WELL DESIGN PRESSURE(PSI)	5000		
PROCESS DATA	8	WELL OPERATING PRESSURE(PSI)	650		
T NO OLOO DANA	9	WELL DESIGN TEMPERATURE(°C)	100		
	10	WELL OPERATING TEMPERATURE(°C)	75		
	11	SSV SWEPT VOLUME/ CRACK OPEN HYDRAULIC PRESSURE	6000 CC/2500 PSI(NOTE 5)		
	12	SSSV SWEPT VOLUME / CRACK OPEN HYDRAULIC PRESSURE	250 CC/5000 PSI(NOTE 5) D04		
SSV/SSSV SPECIFICATION		SSV OPEN& CLOSE TIME /SSSV OPEN&CLOSE TIME(SECOND) SSV ACTUATOR HYDRULIC DESIGN PRESSURE/SSSV	270 & 14-38/5-10 & 2-5 (NOTE 5) D04		
DATA	14	ACTUATOR HYDRULIC DESIGN PRESSURE SSV MAXIMUM WORKING PRESSURE/SSSV MAXIMUM	5000 PSI		
	15	WORKING PRESSURE DO4	12500 PSI/3500 PSI (NOTE 5)		
		SSV MINIMUM WORKING PRESSURE SSV / SSSV CONNECTION SIZE	600 PSI (NOTE 5) 1/2" / 1/4"(NOTE 5)		
	17	IP RATING			
	18		IP 65(NOTE 1)		
	19	NACE MR0175/ISO 15156 COMPLIANCE	NOT REQUIRED EXCEPT FOR PSHH/ PSLL AS PER BELOW TABLE		
WHCP ENCLOSURE	20	NAME PLATE	BOTH TAG AND WELL NUMBER TO BE INCLUDED IN NAME PLATE		
	21	MATERIAL OF WHCP AND ALL ACCESSORIES	316 SS (NOTE 1)		
	22	PANEL ACCESSORIES	AS MINIMUM AS PER PROJECT (NOTE 1,5)		
	23	NUMBER OF OIL TANK/ VOLUME FOR OIL TANK	2 TANKS /ONE AS THE MAIN OIL TANK AND ONE FOR SSSV RETURN LINE (NOTE 9,10)		
	24	NUMBER OF ACCUMULATOR	2 NO. FOR HP/MP HEADERS (VTC)		
HPU	25	PUMP REQUIREMENT	N2 DRIVEN AND HAND PUMPS(NOTE 1,3)		
	26	PUMP MAX. WORKING PRESSURE	5000 PSI (EACH PUMPS SEPARATELY)		
NITROGEN BOTTLES/	27	NUMBER OF BOTTLES	VENDOR TO ADVISE (CALCULATION TO BE PROVIDED)(NOTE 2)		
PNEUMATIC SUPPLY (PER PANEL)	28	DIMENSIONS FOR BOTTLES RACK	VENDOR TO ADVISE(NOTE 2)		
(NOTE 1,2)	29	PRESSURE GAUGES FOR EACH HEADER	REQUIRED(NOTE 1)		
, , , ,	30	PRESSURE GAUGES ON PANEL FRONT	FRONT FACE MOUNTED, AS PER PROJECT DIAGRAMS (VTC)(NOTE 6,1)		
PANEL MOUNTED GAUGES	31	PRESSURE GAUGES MATERIAL	316 SS (NOTE 1)		
	32	DIAL SIZE	60 mm		
	33	TUBE SIZE TO SSV/ SSSV(BY WHCP VENDOR)	1/2" / 1/4"(NOTE 5)		
SSV/SSSV COMMAND	34	TUBE MATERIAL	316 SS (NOTE 1)		
TUBING(NOTE 8,9)	35	TUBE LENGTH FROM WELL TO SSV/ SSSV (BY WHCP VENDOR)	30 m /30 m		
	36	TUBE SIZE	1/4"		
FUSIBLE PLUG LOOP (NOTE	37	TUBE LENGTH TO AROUND WELL (BY WHCP VENDOR)	50m		
8,9)	38	TUBE MATERIAL	316 SS (NOTE 1)		
	39	NUMBER OF FUSIBLE PLUG FOR EACH WELL/SET POINT	3 NO. (SET POINT:100°C)		
PANEL MOUNTED PUSH BUTTONS	40	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)		



عمومی و مشترک





شماره صفحه: 8 از 12

NISOC			DATA SHEETS FOR WHCP/HPU-WELLHEADS								
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه		
053 - 073 - 9184		BK	SSGRL	PEDCO	000	IN	DT	0001	D04		

PANEL MOUNTED INDICATORS/ LAMPS	41	VALVES OPEN & CLOSE FEEDBACK STATUS	REQUIRED DEDICATED FRONT FACE INDICATORS AS PER PROJECT DIAGRAMS(VTC)(NOTE 6,1)		
PRESSURE PILOT	42 PRESSURE SWITCHES FOR PRESSURE SENSING LINE		4 NO. FOR EACH PANEL		
SPARF PART	43	SPARE PARTS FOR COMMISSIONING AND START-UP	REQUIRED(NOTE 1)		
SPAKE PAKT	44	SPARE PARTS FOR TWO YEARS OPERATION	REQUIRED(NOTE 1)		
INSPECTION & TEST	45	AS PER PROJECT REQUIREMENT	REQUIRED(NOTE 1)		
PURCHASE	46	MANUFACTURER	FINALIZED BASED ON VENDOR DATA		
PURCHASE	47	MODEL	FINALIZED BASED ON VENDOR DATA		

RELATED DATA SHEETS FOR PRESSURE SENSING LINE AND SWITCHES

		P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSHH-1601A	BK-W008N-PEDCO-110-PR-PI-0001	75		1/2"	CRUDE OIL	635.2	REQUIRED
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
		WHCP-1601	100	PROCESS FLUID FROM MAIN LINE	BY VENDOR	SS 316	5000	1200
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSLL-1601A	BK-W008N-PEDCO-110-PR-PI-0001	75	SERVICE	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-1601	100		BY VENDOR	SS 316	5000	200
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSHH-1601B	BK-W008N-PEDCO-110-PR-PI-0001	75	SERVICE	1/2"	CRUDE OIL	230	REQUIRED
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
		WHCP-1601	100	PROCESS FLUID FROM MAIN LINE	BY VENDOR	SS 316	5000	800
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSLL-1601B	BK-W008N-PEDCO-110-PR-PI-0001	75	SERVICE	1/2"	CRUDE OIL	230	REQUIRED
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
L		WHCP-1601	100	PROCESS FLUID FROM MAIN LINE	BY VENDOR	SS 316	5000	200

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
- 10- QUICK EXAUST VALVE FOR QUICK OPENING OF SSV TO BE CONSIDERED BY WHCP'S VENDOR.
- 11- RETURN LINE FROM SSSV TO REURN OIL TANK TO BE CONSIDERED BY WHCP'S VENDOR.





	DATA SHEETS FOR WHCP/HPU-WELLHEADS								
شمار	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	Γ
	BK	SSGRL	PEDCO	000	IN	DT	0001	D04	

شماره صفحه: 9 از 12

	WELLHEAD CONTROL PANEL FOR WELL NO. W028								
	1	TAG NUMBERS	WHCP-1401						
	2	DIMENSIONS FOR PANEL	VTA						
GENERAL		P&ID NO.	BK-W028-PEDCO-110-PR-PI-0001						
DATA	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)						
	7	WELL DESIGN PRESSURE(PSI)	5000						
PROCESS DATA	8	WELL OPERATING PRESSURE(PSI)	650						
	9	WELL DESIGN TEMPERATURE(°C)	105						
	10	WELL OPERATING TEMPERATURE(°C)	80						
	11	SSV SWEPT VOLUME/ CRACK OPEN HYDRAULIC PRESSURE	6000 CC/2500 PSI(NOTE 5)						
	12	SSSV SWEPT VOLUME / CRACK OPEN HYDRAULIC PRESSURE	19 CC/5000 PSI(NOTE 5) D04						
	13	SSV OPEN& CLOSE TIME /SSSV OPEN&CLOSE TIME(SECOND)	270 & 14-38/5-10 & 2-5 (NOTE 5)						
SSV/SSSV SPECIFICATION DATA	14	SSV ACTUATOR HYDRULIC DESIGN PRESSURE/SSSV ACTUATOR HYDRULIC DESIGN PRESSURE	5000 PSI						
	15	SSV MAXIMUM WORKING PRESSURE/SSSV MAXIMUM WORKING PRESSURE	2500 PSI/3500 PSI (NOTE 5)						
	16	SSV MINIMUM WORKING PRESSURE	600 PSI (NOTE 5)						
	17	SSV / SSSV CONNECTION SIZE	1/2" / 1/4"(NOTE 5)						
	18	IP RATING	IP 65(NOTE 1)						
	19	NACE MR0175/ISO 15156 COMPLIANCE	NOT REQUIRED EXCEPT FOR PSHH/ PSLL AS PER BELOW TABLE						
WHCP ENCLOSURE	20	NAME PLATE	BOTH TAG AND WELL NUMBER TO BE INCLUDED IN NAME PLATE						
	21	MATERIAL OF WHCP AND ALL ACCESSORIES	316 SS (NOTE 1)						
	22	PANEL ACCESSORIES	AS MINIMUM AS PER PROJECT (NOTE 1,5)						
	23	NUMBER OF OIL TANK/ VOLUME FOR OIL TANK	2 TANKS /ONE AS THE MAIN OIL TANK AND ONE FOR SSSV RETURN LINE (NOTE 9,10)						
	24	NUMBER OF ACCUMULATOR	2 NO. FOR HP/MP HEADERS (VTC)						
HPU	25	PUMP REQUIREMENT	N2 DRIVEN AND HAND PUMPS(NOTE 1,3)						
		PUMP MAX. WORKING PRESSURE	5000 PSI (EACH PUMPS SEPARATELY)						
NITROGEN BOTTLES/	27	NUMBER OF BOTTLES	VENDOR TO ADVISE (CALCULATION TO BE PROVIDED)(NOTE 2)						
PNEUMATIC SUPPLY (PER		DIMENSIONS FOR BOTTLES RACK	VENDOR TO ADVISE(NOTE 2)						
PANEL) (NOTE 1,2)	_	PRESSURE GAUGES FOR EACH HEADER	REQUIRED(NOTE 1)						
,		PRESSURE GAUGES ON PANEL FRONT	FRONT FACE MOUNTED, AS PER PROJECT DIAGRAMS (VTC)(NOTE 6,1)						
PANEL MOUNTED GAUGES	31	PRESSURE GAUGES MATERIAL	316 SS (NOTE 1)						
		DIAL SIZE	60 mm						
	33	TUBE SIZE TO SSV/ SSSV(BY WHCP VENDOR)	1/2" / 1/4"(NOTE 5)						
SSV/SSSV COMMAND	34	TUBE MATERIAL	316 SS (NOTE 1)						
TUBING(NOTE 8,9)	35	TUBE LENGTH FROM WELL TO SSV/ SSSV (BY WHCP VENDOR)							
	36	TUBE SIZE	1/4"						
FUSIBLE PLUG LOOP (NOTE		TUBE LENGTH TO AROUND WELL (BY WHCP VENDOR)	50m						
8,9)		TUBE MATERIAL	316 SS (NOTE 1)						
		NUMBER OF FUSIBLE PLUG FOR EACH WELL/SET POINT	3 NO. (SET POINT:100°C)						
PANEL MOUNTED PUSH	40	ESD RESSET FUNCTION/SSV AND SSSV OPEN/CLOSE	REQUIRED DEDICATED FRONT FACE PUSH BUTTONS AS PER						
BUTTONS PANEL MOUNTED		COMMAND FOR EACH WELL	PROJECT DIAGRAMS (VTC)(NOTE 6,1) REQUIRED DEDICATED FRONT FACE INDICATORS AS PER						
INDICATORS/ LAMPS	41	VALVES OPEN & CLOSE FEEDBACK STATUS	PROJECT DIAGRAMS(VTC)(NOTE 6,1)						



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شماره صفحه: 10 از 12

NISOC			DATA SHEETS FOR WHCPIHPU-WELLHEADS							
	شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	
053 - 073 - 9184	•	BK	SSGRL	PEDCO	000	IN	DT	0001	D04	

PRESSURE PILOT	PRESSURE PILOT 42 PRESSURE SWITCHES FOR PRESSURE SENSING LINE		4 NO. FOR EACH PANEL	
SPARF PART	43	SPARE PARTS FOR COMMISSIONING AND START-UP	REQUIRED(NOTE 1)	
JI AILL I AILI	44	SPARE PARTS FOR TWO YEARS OPERATION	REQUIRED(NOTE 1)	
INSPECTION & TEST 4		AS PER PROJECT REQUIREMENT	REQUIRED(NOTE 1)	
DUDCHASE	46	MANUFACTURER	FINALIZED BASED ON VENDOR DATA	
PURCHASE	47	MODEL	FINALIZED BASED ON VENDOR DATA	

RELATED DATA SHEETS FOR PRESSURE SENSING LINE AND SWITCHES

\vdash								
		P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSHH-1401A	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	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
		WHCP-1401	105	PROCESS FLUID FROM MAIN LINE	BY VENDOR	SS 316	5000 D	1200
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSLL-1401A	BK-W028-PEDCO-110-PR-PI-0001	80	SERVICE	1/2"	CRUDE OIL	635.2	REQUIRED
		LINE / EQUIPMENT NO. DSG. TEMP. (*		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	PROCESS FEOID PROIVI IVIAIN LINE	BY VENDOR	SS 316	5000 DC	200
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSHH-1401B	BK-W028-PEDCO-110-PR-PI-0001	80	SERVICE	1/2"	CRUDE OIL	273 D04	REQUIRED
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
		WHCP-1401	105	PROCESS FLUID FROM MAIN LINE	BY VENDOR	SS 316	5000	800
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSLL-1401B	BK-W028-PEDCO-110-PR-PI-0001		SERVICE	1/2"	CRUDE OIL	273	REQUIRED
ΤĀ							DO	14
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
L		WHCP-1401	105	PROCESS FLUID FROM MAIN LINE	BY VENDOR	SS 316	5000	200

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.

- 10- QUICK EXAUST VALVE FOR QUICK OPENING OF SSV TO BE CONSIDERED BY WHCP'S VENDOR.
- 11- RETURN LINE FROM SSSV TO REURN OIL TANK TO BE CONSIDERED BY WHCP'S VENDOR.





CRREAN



شماره صفحه: 11 از 12

	DATA SHEETS FOR WHCP/HPU-WELLHEADS								
شم	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	
	BK	SSGRL	PEDCO	000	IN	DT	0001	D04	

		WELLHEAD CONTROL PANEL FOR WELL N	O. W035
	1	TAG NUMBERS	WHCP-1501
	2	DIMENSIONS FOR PANEL	VTA
GENERAL	3	P&ID NO.	BK-W035-PEDCO-110-PR-PI-0001
DATA	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)
	7	WELL DESIGN PRESSURE(PSI)	5000
PROCESS DATA	8	WELL OPERATING PRESSURE(PSI)	650
	9	WELL DESIGN TEMPERATURE(°C)	105
	10	WELL OPERATING TEMPERATURE(°C)	80
	11	SSV SWEPT VOLUME/ CRACK OPEN HYDRAULIC PRESSURE	6000 CC/2500 PSI(NOTE 5)
	12	SSSV SWEPT VOLUME / CRACK OPEN HYDRAULIC PRESSURE	19 CC/5000 PSI(NOTE 5) D04
0011/000110075555	13	SSV OPEN& CLOSE TIME /SSSV OPEN&CLOSE TIME(SECOND)	270 & 14-38/5-10 & 2-5 (NOTE 5)
SSV/SSSV SPECIFICATION DATA	14	SSV ACTUATOR HYDRULIC DESIGN PRESSURE/SSSV ACTUATOR HYDRULIC DESIGN PRESSURE	5000 PSI
	15	SSV MAXIMUM WORKING PRESSURE/SSSV MAXIMUM WORKING PRESSURE	2500 PSI/3500 PSI (NOTE 5)
	16	SSV MINIMUM WORKING PRESSURE	600 PSI (NOTE 5)
	14	SSV / SSSV CONNECTION SIZE	1/2" / 1/4"(NOTE 5)
	15	IP RATING	IP 65(NOTE 1)
	16	NACE MR0175/ISO 15156 COMPLIANCE	NOT REQUIRED EXCEPT FOR PSHH/ PSLL AS PER BELOW TABLE
WHCP ENCLOSURE	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)
	20	NUMBER OF OIL TANK/ VOLUME FOR OIL TANK	2 TANKS /ONE AS THE MAIN OIL TANK AND ONE FOR SSSV RETURN LINE (NOTE 9,10)
	21	NUMBER OF ACCUMULATOR	2 NO. FOR HP/MP HEADERS (VTC)
HPU	22	PUMP REQUIREMENT	N2 DRIVEN AND HAND PUMPS(NOTE 1,3)
	23	PUMP MAX. WORKING PRESSURE	5000 PSI (EACH PUMPS SEPARATELY)
NITROGEN BOTTLES/	24	NUMBER OF BOTTLES	VENDOR TO ADVISE (CALCULATION TO BE PROVIDED)(NOTE 2)
PNEUMATIC SUPPLY (PER PANEL)	25	DIMENSIONS FOR BOTTLES RACK	VENDOR TO ADVISE(NOTE 2)
(NOTE 1,2)	26	PRESSURE GAUGES FOR EACH HEADER	REQUIRED(NOTE 1)
	27	PRESSURE GAUGES ON PANEL FRONT	FRONT FACE MOUNTED, AS PER PROJECT DIAGRAMS (VTC)(NOTE 6,1)
PANEL MOUNTED GAUGES	28	PRESSURE GAUGES MATERIAL	316 SS (NOTE 1)
	29	DIAL SIZE	60 mm
	30	TUBE SIZE TO SSV/ SSSV(BY WHCP VENDOR)	1/2" / 1/4"(NOTE 5)
SSV/SSSV COMMAND	31	TUBE MATERIAL	316 SS (NOTE 1)
TUBING(NOTE 8,9)	32	TUBE LENGTH FROM WELL TO SSV/ SSSV (BY WHCP VENDOR)	30 m /30 m
	33	TUBE SIZE	1/4"
FUSIBLE PLUG LOOP (NOTE	34	TUBE LENGTH TO AROUND WELL (BY WHCP VENDOR)	50m
8,9)	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)
IINDICATORS/ LAIVIES			I KONFOL DIMOKUINININ LONGINOTE O'I)



نگهداشت و افزایش تولید میدان نفتی بینک فعالیت های رو زمینی در بسته های کاری تحت الارض

عمومی و مشترک



FINALIZED BASED ON VENDOR DATA

شماره صفحه: 12 از 12

1000				DA	IA SHEETS FOR I	MOI /III O-WELLIIEAD
	شماره بنمادن	0.50.2	سته کاری	صادر کننده	تسميلات	، شته

44 MODEL

ELLHEADS BK SSGRL PEDCO 000 IN DT 0001 D04

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)
SPARE PART	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
LOKOLIASE		MODEL	FINIALIZED DACED ON VENDOD DATA

RELATED DATA SHEETS FOR PRESSURE SENSING LINE AND SWITCHES

			THE BRITA SHEETS FOR		01111.01.120			
		P&IDs No.	OPER. TEMP. (°C)	OPER. TEMP. (°C) SI SERVICE		FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSHH-1501A	BK-W035-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	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
		WHCP-1501	105	PROCESS FLUID FROM MAIN LINE	BY VENDOR	SS 316	5000 / DO	1200
		P&iDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSLL-1501A	BK-W035-PEDCO-110-PR-PI-0001	80	SERVICE	1/2"	CRUDE OIL	635.2	REQUIRED
		LINE / EQUIPMENT NO.	WELLHEAD PANEL ACTUATED BY PROCESS FLUID FROM MAIN LINE		PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
		WHCP-1501	105		BY VENDOR	SS 316	5000 D04	200
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSHH-1501B	BK-W035-PEDCO-110-PR-PI-0001	80	SERVICE	1/2"	CRUDE OIL	298 D04	REQUIRED
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
		WHCP-1501	105	PROCESS FLUID FROM MAIN LINE	BY VENDOR	SS 316	5000 D04	800
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.
TAG NO.	PSLL-1501B	BK-W035-PEDCO-110-PR-PI-0001	80	SERVICE	1/2"	CRUDE OIL	298	REQUIRED
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)	PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY	PRESS. ELEM.TYPE	PRESS. ELEM. MTR.	DESIGN PRESS. (PSIG)	SET POINT (PSIG)
		WHCP-1501	105	PROCESS FLUID FROM MAIN LINE	BY VENDOR	SS 316	5000 D04	200

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.
- 10- QUICK EXAUST VALVE FOR QUICK OPENING OF SSV TO BE CONSIDERED BY WHCP'S VENDOR.
- 11- RETURN LINE FROM SSSV TO REURN OIL TANK TO BE CONSIDERED BY WHCP'S VENDOR.

