

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







عمومي و مشترك

ISOC 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	110	IN	DT	0001	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

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



شماره پیمان:

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

عمومی و مشترک



نسخه پروژه صادر کننده ابسته کاری تسهيلات نوع مدرك سريال BK SSGRL PEDCO 000 IN DT 0001 D03



شماره صفحه: 2 از 12

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عمومی و مشترک

DATA SHEETS FOR WHCP/HPU-WELLHEADS

شماره پیمان: 9184 – 073 - 053
 سریال
 نوع مدر ک
 رشته
 تسهیلات
 صادر کننده
 بسته کاری
 پروژه

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شماره صفحه: 3 از 12

REFERENCE DO	OCUMENTS:
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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:

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

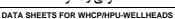
BK-SSGRL-PEDCO-110-IN-DG-0002

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



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عمومی و مشترک





	شماره پیمان:						
053 - 073 - 9184		BK	SSGRL	PEDCO	000	IN	Ε

شماره صفحه: 4 از 12

نسخه

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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%



پروژه

BK

بسته کاری

SSGRL

PEDCO

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DATA SHEETS FOR WHCP/HPU-WELLHEADS ن**ىخە** D03 نوع مدرک سريال 0001 تسهيلات رشته شماره صفحه: 5 از 12 DT

		WELLHEAD CONTROL PANEL FOR WELL N	O. W018S
	1	TAG NUMBERS	WHCP-1101
	2	DIMENSIONS FOR PANEL	VTA
GENERAL		P&ID NO.	BK-W018S-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
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	10	WELL OPERATING TEMPERATURE(°C)	75
	11	SSV SWEPT VOLUME/ CRACK OPEN HYDRAULIC PRESSURE	5 LITER/3000 PSI(NOTE 5)
SSV/SSSV SPECIFICATION DATA	12	SSSV SWEPT VOLUME / CRACK OPEN HYDRAULIC PRESSURE	2.5 LITER/5000 PSI(NOTE 5)
DAIA	13	SSV OPEN& CLOSE TIME /SSSV OPEN&CLOSE TIME	2/8 (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)
	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/ PNEUMATIC SUPPLY (PER	24	NUMBER OF BOTTLES	VENDOR TO ADVISE (CALCULATION TO BE PROVIDED)(NOTE 2)
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
PANEL) (2) (NOTE 1,2) 2: PANEL MOUNTED GAUGES 2: 2: 2: 2: SSV/SSSV COMMAND TUBING(NOTE 8,9) 3: FUSIBLE PLUG LOOP (NOTE 8,9) 3:	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
CDADE DADE	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		AS PER PROJECT REQUIREMENT	REQUIRED(NOTE 1)
DIIDOIIACE	43	MANUFACTURER	FINALIZED BASED ON VENDOR DATA



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شماره صفحه: 6 از 12

DATA SHEETS FOR WHCP/HPU-WELLHEADS

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		44 MODEL	LATED DATA CHEETE FOR	PRESSURE SENSING LINE	NALIZED BASED O	N VENDOR DATA	4	
		KE	LATED DATA SHEETS FOR	PRESSURE SENSING LINE I	AIND SWITCHES	T	1	
		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	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	2500
		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	TROCESS TEOLOT ROW WAIN 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	635.2	REQUIRED
Г		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	202.71
		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	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-1101	100	PROCESS FLUID FROM MAIN LINE	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.



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شماره صفحه: 7 از 12

	DATA SHEETS FOR WHCP/HPU-WELLHEADS									
شماره	نسخه سریال نوع مدر ک رشته تبهیلات صادر کننده بسته کاری پروژه ت									
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		WELLHEAD CONTROL PANEL FOR WELL NO	O. W008N
		TAG NUMBERS	WHCP-1601
		DIMENSIONS FOR PANEL	VTA
GENERAL DATA		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
	9	WELL DESIGN TEMPERATURE(°C)	100
	10	WELL OPERATING TEMPERATURE(°C)	75
	11	SSV SWEPT VOLUME/ CRACK OPEN HYDRAULIC PRESSURE	5 LITER/3000 PSI(NOTE 5)
SSV/SSSV SPECIFICATION DATA	12	SSSV SWEPT VOLUME / CRACK OPEN HYDRAULIC PRESSURE	2.5 LITER/5000 PSI(NOTE 5)
DATA		SSV OPEN& CLOSE TIME /SSSV OPEN&CLOSE TIME	2/8 (NOTE 5)
		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)
	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/ PNEUMATIC SUPPLY (PER	24	NUMBER OF BOTTLES	VENDOR TO ADVISE (CALCULATION TO BE PROVIDED)(NOTE 2)
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)
		DIAL SIZE	60 mm
001//0001/ 001/11/11/11		TUBE SIZE TO SSV/ SSSV(BY WHCP VENDOR)	1/2" / 1/4"(NOTE 5)
SSV/SSSV COMMAND TUBING(NOTE 8,9)	31	TUBE MATERIAL	316 SS (NOTE 1)
105110(11012 0/7)	32	TUBE LENGTH FROM WELL TO SSV/ SSSV (BY WHCP VENDOR)	
	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)
PRESSURE PILOT	39	PRESSURE SWITCHES FOR PRESSURE SENSING LINE	4 NO. FOR EACH PANEL
CDADE DART		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)



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

عمومی و مشترک



شماره صفحه: 8 از 12

	DATA SHEETS FOR WHCP/HPU-WELLHEADS							
شمار	پروژه	سخه سریال نوع مدرک رشته تسهیلات صادر کننده بسته کاری						
	BK	SSGRL	PEDCO	000	IN	DT	0001	D03

	PURUNASE	44 MODEL		FI	NALIZED BASED O	N VENDOR DATA	A	
			ATED DATA SHEETS FOR	PRESSURE SENSING LINE A	AND SWITCHES	-		D03
		P&IDs No. OPER. TEMP. (°C) PROCESS CON. OF SENSING LINE TO THE PIPE SERVICE		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	2500
		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	TROCESS FEOID TROWN WHAT EINE	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-1601B	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	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	202.71
		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	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	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.



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

BURGAN



شماره صفحه: 9 از 12

نسخه D03 صادر کننده تسهيلات رشته نوع مدرک سريال 0001 شماره پیمان: پروژه بسته کاری PEDCO BK SSGRL 000 IN DT

WELLHEAD CONTROL PANEL FOR WELL NO. W028							
		TAG NUMBERS	WHCP-1401				
GENERAL DATA		DIMENSIONS FOR PANEL	VTA				
		P&ID NO.	BK-W028-PEDCO-110-PR-PI-0001				
DATA		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 D03				
	10	WELL OPERATING TEMPERATURE(°C)	80				
	11	SSV SWEPT VOLUME/ CRACK OPEN HYDRAULIC PRESSURE	5 LITER/3000 PSI(NOTE 5)				
SSV/SSSV SPECIFICATION DATA	12	SSSV SWEPT VOLUME / CRACK OPEN HYDRAULIC PRESSURE	2.5 LITER/5000 PSI(NOTE 5)				
BATA	13	SSV OPEN& CLOSE TIME /SSSV OPEN&CLOSE TIME	2/8 (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)				
	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/ PNEUMATIC SUPPLY (PER	24	NUMBER OF BOTTLES	VENDOR TO ADVISE (CALCULATION TO BE PROVIDED)(NOTE 2)				
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		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				
	40	SPARE PARTS FOR COMMISSIONING AND START-UP	REQUIRED(NOTE 1)				
SPARE PART		SPARE PARTS FOR TWO YEARS OPERATION	REQUIRED(NOTE 1)				
INSPECTION & TEST		AS PER PROJECT REQUIREMENT	REQUIRED(NOTE 1)				
		MANUFACTURER	FINALIZED BASED ON VENDOR DATA				
DIIDCHVCE	7.0		1				



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

عمومی و مشترک

شماره صفحه: 10 از 12

									-			
	DATA SHEETS FOR WHCP/HPU-WELLHEADS											
شماره پیمان:	پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرک	سريال	نسخه	ſ			
	BK	SSGRI	PEDCO	000	IN	DT	0001	D03	l			

TURUTADE L. MODEL										
44 MODEL FINALIZED BASED ON VENDOR DATA										
RELATED DATA SHEETS FOR PRESSURE SENSING LINE AND SWITCHES DO3										
TAGNO.		P&IDs No.	OPER. TEMP. (°C)	SERVICE	PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.		
	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	4200		
TAG NO.	PSLL-1401A	P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.		
		BK-W028-PEDCO-110-PR-PI-0001	80	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-1401	105	PROCESS FLOID PROIVI IVIAIN LINE	BY VENDOR	SS 316	5000	194.575		
	PSHH-1401B	P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.		
TAG NO.		BK-W028-PEDCO-110-PR-PI-0001	80	SERVICE PNEUMATIC LOGIC LINE(N2) OF WELLHEAD PANEL ACTUATED BY	1/2"	CRUDE OIL	635.2	REQUIRED		
		LINE / EQUIPMENT NO.	DSG. TEMP. (°C)		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	202.71		
		P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.		
TAGNO.	PSLL-1401B	BK-W028-PEDCO-110-PR-PI-0001	80	SERVICE	1/2"	CRUDE OIL	635.2	REQUIRED		
	Ī	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	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.



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



شماره صفحه: 11 از 12

DATA SHEETS FOR WHCP/HPU-WELLHEADS

پروژه تسهيلات 053 - 073 - 9184

نسخه D03 سريال 0001 رشته BK SSGRL PEDCO 000 IN DT

053 - 073 – 9184	D02	BK SSGRL PEDCO 000 IN	DT 0001 D03		
		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	5 LITER/3000 PSI(NOTE 5)		
SSV/SSSV SPECIFICATION DATA	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)		
	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)		
HPU	21	NUMBER OF ACCUMULATOR	2 NO. FOR HP/MP HEADERS (VTC)		
пго	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	24	NUMBER OF BOTTLES	VENDOR TO ADVISE (CALCULATION TO BE PROVIDED)(NOTE 2)		
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)			
	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)		
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		MANUFACTURER MODEL	FINALIZED BASED ON VENDOR DATA FINALIZED BASED ON VENDOR DATA		
	44	INIODEL	FINALIZED DASED ON VENDOK DATA		



______D02

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

عمومی و مشترک



شماره صفحه: 12 از 12

DATA SHEETS FOR WHCP/HPU-WELLHEAD

پروژه BK SSGRL PEDCO 000 DT 0001 D03

RELATED DATA SHEETS FOR PRESSURE SENSING LINE AND SWITCHES									
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		
		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	4200	
TAG NO.	PSLL-1501A	P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.	
		BK-W035-PEDCO-110-PR-PI-0001	80	SERVICE	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	194.575	
TAG NO.	PSHH-1501B	P&IDs No.	OPER. TEMP. (°C)		PROCESS CON. OF SENSING LINE TO THE PIPE	FLUID	OPER. PRESS. (PSIG)	OVER RANGE PROT.	
		BK-W035-PEDCO-110-PR-PI-0001	80	SERVICE	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	202.71	
			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 635.2	635.2	REQUIRED	
	LINE	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	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.