


SINGLE LINE DIAGRAM FOR LV SWITCHGEAR OF WELL PADS

NOTES									
LEGEND									
REFERENCE DRAWING					DRG. No.				
ELECTRICAL LOAD LIST OF WELL PADS					BK-SSGRL-PEDCO-110-EL-11-0001				
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR 1V PANELS OF WELL PADS					BK-SSGRL-PEDCO-110-EL-DG-0001				
KEY PLAN									
***	*****	***	***	***	***	***	***	***	***
REV.	DESCRIPTION	BY	DATE	BY	DATE	BY	DATE	BY	DATE
		CHECKED		REV.	APPR.				
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BINAK OILFIELD DEVELOPMENT SUB-SURFACE WORK PACKAGES GENERAL									
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.					
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
APPROVED FOR CONSTRUCTION				BY:	DATE:				
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION			
053-073-9184	F	2	P	707406	01 OF 06	D02			

NOTES

- 1– ALL AMMETERS OF MOTORS HAVE TO BE 6xIn.
- 2– CATEGORY DESCRIPTION:
- F1: SIMPLE 4–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS.
- F2: SIMPLE 4–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=<I<100A FEEDERS.
- F3: SIMPLE 4–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 100A=<I FEEDERS.
- F4: SIMPLE 3–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR I<63A FEEDERS.
- F5: SIMPLE 3–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 63A=<I<100A FEEDERS.
- F6: SIMPLE 3–POLE MCCB FEEDER WITH THERMAL/MAGNETIC TRIPS, FOR 100A=<I FEEDERS.
- F7: SIMPLE 2–POLE MCCB FEEDER FOR FEEDING SINGLE PHASE LOADS (PH+N OR 2–PH)
- M1: DIRECT ON LINE MOTOR STARTER FEEDERS FOR P < 4kW, (SWITCH FUSE+CONTACTOR+BIMETAL+R/L SIGNALING)
- M2: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 4kW≤P<18.5kW, (FUSE+CONTACTOR+BIMETAL+R/L SIGNALING+R/L AMMETER)
- M3: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 18.5kW ≤ P<30kW, (SWITCH FUSE+CONTACTOR+OVERLOAD RELAY +R/L SIGNALING+R/L AMMETER+EARTH LEAKAGE RELAY+PHASE CONTROL)
- M4: DIRECT ON LINE MOTOR STARTER FEEDERS FOR 30kW ≤ P
(SWITCH FUSE + CONTACTOR + R/L SIGNALING+ R/L AMMETER+MOTOR PROTECTION RELAY
- 3– CORE BALANCE CT RATING OF EARTH LEAKAGE RELAYS SHALL BE ACCORDING TO RELAY MANUFACTURER STANDARD.
- 4– VOLTAGE AND CURRENT TRANSFORMERS SHALL HAVE APPROPRIATE VA.
- 5– THIS SWITCHGEAR SHALL BE DESIGNED, MANUFACTURED, INSPECTED AND TESTED IN ACCORDING WITH THE APPLICABLE SECTION OF IPS–E–EL–100(1) & IPS–E–EL–143(3)
- 6– ALL SWITCH FUSES SHALL BE EQUIPPED WITH STRIKER PIN
- 7– ALL EQUIPMENT SIZING SHALL BE FINALIZED BY MANUFACTURER BASED ON SITE CONDITION. IN ADDITION, TYPE 2 OF COORDINATION SHALL BE FOLLOWED BY VENDOR.
- 8– CONTROL CIRCUIT VOLTAGE FOR OUTGOING IS 230 VAC WHICH WILL BE SUPPLIED FOR EACH LV CUBICLE. IN OTHER WORDS FOR EACH LV CUBICLE ONE ISOLATED DRY TYPE TRANSFORMER SHALL BE CONSIDERED BY VENDOR.
- 9– AN INTERLOCK WILL BE CONSIDERED BETWEEN CAPACITOR BANK & DIESEL GENERATOR BY VENDOR. WHEN DIESEL IS RUNNING, CAPACITOR BANK SHALL NOT BE IN SERVICE.
- 10– ALL INCOMING & OUTGOING FEEDERS WILL BE EQUIPPED WITH EMERGENCY MUSHROOM PUSH BUTTON.
- 11– CABLE SIZING SHALL BE ACCORDING TO "BK–SSGRL–PEDCO–110–EL–CN–0005".
- 12– THIS DRAWING IS VALID FOR ALL 6 NUMBER SWITCHGEAR OF WELLS AS BELOW:

– WELL NUMBER BK–12

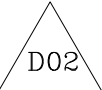
– WELL NUMBER W–007

– WELL NUMBER BK–15

– WELL NUMBER BKW–046

– WELL NUMBER BK–05

– WELL NUMBER BK–14
- 13– THE INCOMING VOLTAGE OF TRANSFORMER FOR WELL NUMBER BK–14 IS 33 KV & THEREFORE ONLY THIS TRANSFORMER DIFFER FROM OTHER WELLS.
- 14– ALL FUSES SHALL BE EQUIPPED WITH STRIKER PIN
- 15– FOR FEEDER WITH TYPE M4, CURRENT AND VOLTAGE FAULT SHALL BE CONSIDERED SEPARATELY BY VENDOR.
- 16– EMERGENCY STOP & START PUSH BUTTON SHALL BE CONSIDERED ON INCOMINGS & BUS–TIES.
- 17– ACB WITH BUILT–IN PROTECTION BE CONSIDERED FOR INCOMING AND DG FEEDERS
- 18– SELECTOR VOLT SWITCH SHALL BE 7 POSITION
- 19– OUTGOING FEEDERS SHALL BE EQUIPPED WITH ROTARY SWITCH (DISCONNECTOR) TO ON/OFF CBs ON FRONT OF CELL.



NOTES







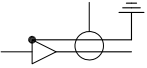




























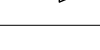






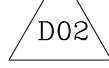

LEGEND

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ELECTRICAL LOAD LIST OF WELL PADS	BK-SSGRL-PEDCO-110-EL-11-0001
ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANELS OF WELL PADS	BK-SSGRL-PEDCO-110-EL-DG-0001

KEY PLAN

D02	JUL.2022	IFA	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **	***	*****	** **	*** ****	** **	*** ****		
D01	APR.2022	IFA	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **	REV.	DESCRIPTION	BY	DATE	BY	DATE		
D00	FEB.2022	IPC	H.SHAKIBA	M.PAKHARIAN	M.MEHRSHAD	** **			CHECKED		REV. APPR.			
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.	اصل و کاپیه نسخ این نقشه و حق اقتباس متعلق به شرکت ملی مناطق نفت خیز جنوب میباشد.							
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EPC CONTRACTOR:			EPD/EPC CONTRACTOR (GC):				BINAK OILFIELD DEVELOPMENT SUB–SURFACE WORK PACKAGES GENERAL							
 HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES			 PETROIRAN DEVELOPMENT COMPANY											
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APPROVED FOR CONSTRUCTION				BY:		DATE:								
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NTS	A3	BK–SSGRL–PEDCO–110–EL–SL–0002			02 OF 06	D02	053–073–9184	F	2	P	707406	02 OF 06	D02	

LEGEND

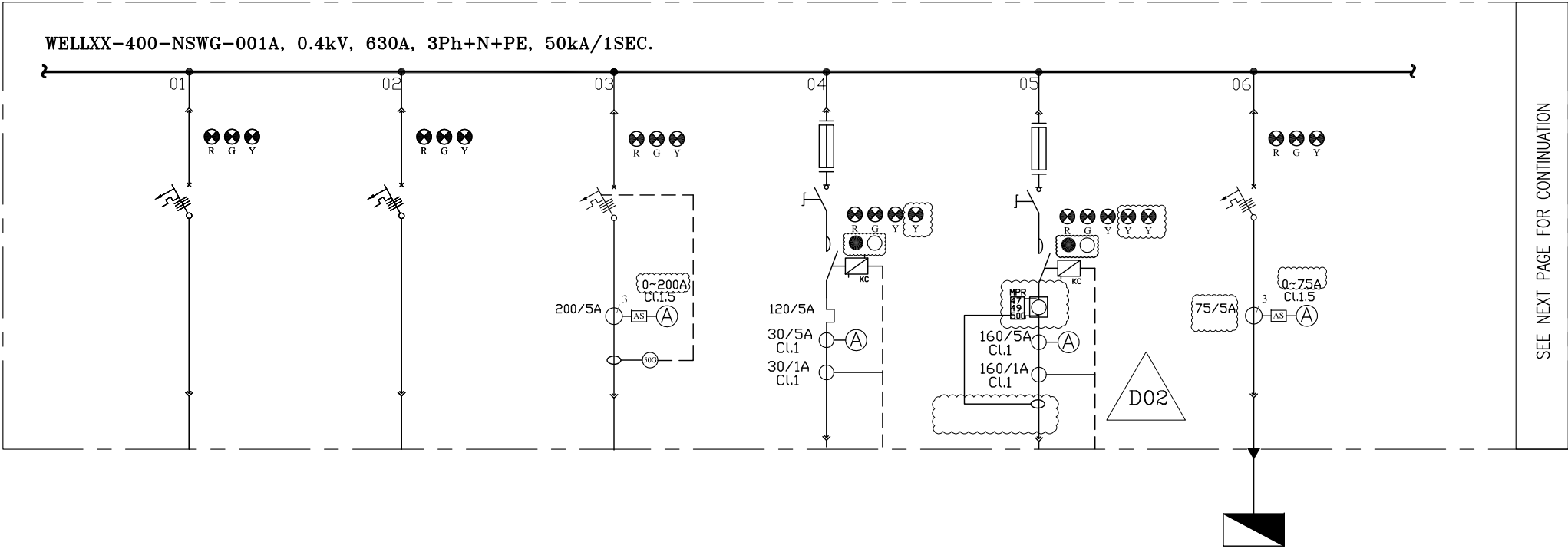
	WITHDRAWABLE AIR CIRCUIT BREAKER WITH MOTORIZED & MANUALLY CHARGED STORED ENERGY MECHANISM		MOULDED CASE CIRCUIT BREAKER, MANUALLY OPERATED WITH THERMAL MAGNETIC OVER CURRENT RELAY
	CONTACTOR (CONTACT OPEN IN THE UNOPERATED POSITION)(N.O.)		OPERATING DEVICE GENERAL SYMBOL
	PUSH BUTTON STATION START-STOP WITH AMMETER (W/P)		PUSH BUTTON STATION START-STOP WITH AMMETER (EX.)
	ZERO SEQUENCE CURRENT TRANSFORMER (CORE-BALANCE)		LOAD BREAK SWITCH
	SYNCHRONIZING CHECK RELAY		PUSH BUTTON STATION START-STOP (W/P)
	UNDER VOLTAGE RELAY		PUSH BUTTON STATION START-STOP (EX.)
	REVERSE PHASE OR PHASE BALANCE CURRENT RELAY		SWITCH FUSE
	PHASE SEQUENCE OR PHASE BALANCE VOLTAGE RELAY		VOLTMETER SELECTOR SWITCH
	THERMAL OVERLOAD RELAY		AMMETER SELECTOR SWITCH
	INSTANTANEOUS OVER CURRENT RELAY		SELECTOR SWITCH
	TIME DELAYED OVER CURRENT RELAY		LED TYPE SIGNAL LAMP
	INSTANTANEOUS EARTH FAULT RELAY		TRANSFORMER
	INVERSE TIME EARTH FAULT RELAY		CURRENT TRANSFORMER
	INSTANTANEOUS EARTH FAULT RELAY (BY ZERO SEQUENCE CT)		MOTOR
	INSTANTANEOUS EARTH FAULT RELAY (BY ZERO SEQUENCE CT)		ALARM WINDOW WITH RESET & ACKNOWLEDGE
	OVER VOLTAGE RELAY		CABLE GLAND
	LIQUID AND GAS PRESSURE RELAY		CABLE SEALING END
	GROUND DETECTOR RELAY		WITHDRAWABLE PART
	TRIP CIRCUIT SUPERVISION		MECHANICAL INTERLOCK
	LOCK OUT RELAY		POWER CABLE
	INTERTRIP RECEIVE RELAY		CONTROL CABLE
	FREQUENCY PROTECTION		MOTOR PROTECTION RELAY
	THERMAL OVERLOAD RELAY (49)		D02
	PHASE SEQUENCE OR PHASE BALANCE RELAY (47)		

<p align="center">NOTES</p> <p>1- SINCE THE INCOMING CIRCUIT BREAKERS ARE BUILT IN TYPE, THEREFORE ALL REQUIRED RELAY INCLUDING CURRENT & VOLTAGE SHALL BE CONSIDERED INSIDE CBs.</p> <p>2- ACCORDING TO NOTE 1 (ABOVE) REQUIRED RELAYS FOR INCOMING ARE AS BELOW:</p> <p> -BASED ON IPS-E-EL-100(2) SECTION 7.5.3.2 FOR GENERATOR: -50, 51, 50N, 51N, 27, 59, 81, 49</p> <p> -BASED ON IPS-E-EL-100(2) FOR INCOMING: -50, 51, 50N, 51N, 27, 59, 47, 49</p> <p>2- ACCORDING TO NOTE 1 (ABOVE), SINCE CBs ARE BUILT IN TYPE, THEREFORE THERE IS NO NEED TO CT & PT & THEY ARE INSIDE CBs</p>	
<p align="center">LEGEND</p>	
<p> </p>	
<p align="center">REFERENCE DRAWING</p> <p>ELECTRICAL LOAD LIST OF WELL PADS</p> <p>ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR IV PANELS OF WELL PADS</p>	<p align="center">DRG. No.</p> <p>BK-SSGRL-PEDCO-110-EL-LI-0001</p> <p>BK-SSGRL-PEDCO-110-EL-DG-0001</p>

KEY PLAN

[illegible]

(VENDOR TITLE BLOCK)**






CATEGORY	F1	F1	F3	M2	M4	F2
CODE	SPARE	SPARE	SPARE	SPARE	SPARE	WELDING SOCKET
POWER (kW)	-	-	-	15KW	75KW	-
C.B TYPE/RATING	50A	50A	200A	-	-	63A
FUSE TYPE/RATING	N/A	N/A	N/A	aM/32A	aM/160A	N/A
CONTACTOR RATING (A)	N/A	N/A	N/A	15KW (AC3)	75KW (AC3)	N/A
OVER LOAD SETTING RANGE	N/A	N/A	N/A	23 ... 32 A	90 ... 150 A	N/A
CABLE SIZE	-	-	-	-	-	-
DESCRIPTION OF FEEDER	SPARE	SPARE	SPARE	SPARE	SPARE	WELDING SOCKET OUTDOOR AREA

NOTES

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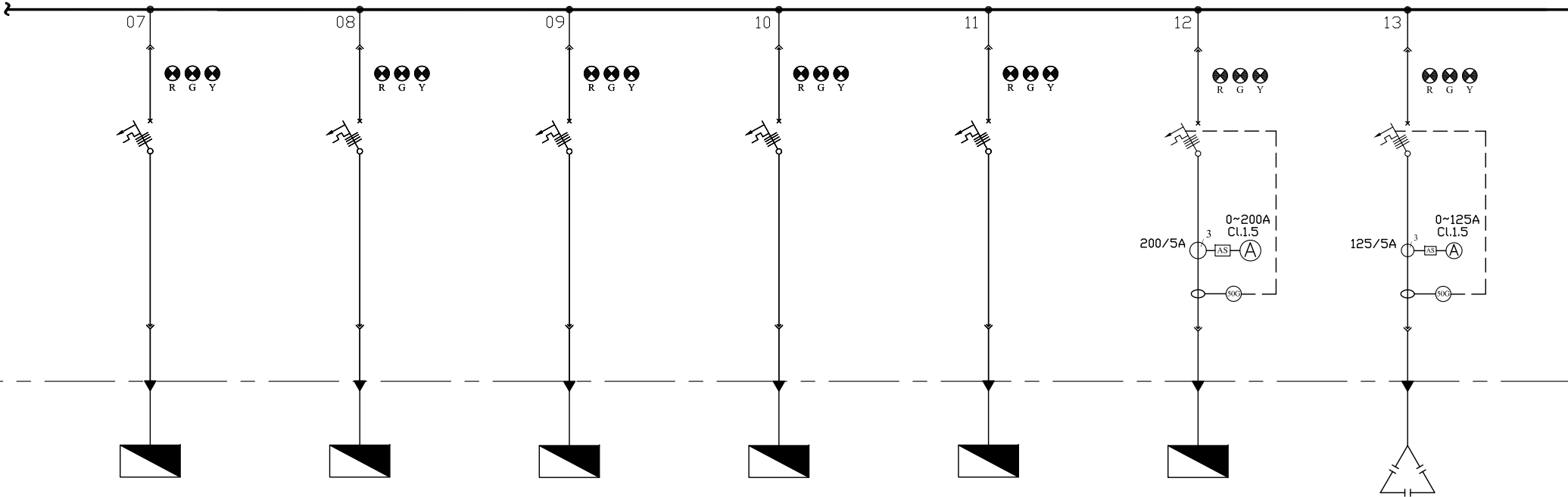
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SINGLE LINE DIAGRAM FOR LV SWITCHGEAR OF WELL PADS							APPROVED FOR CONSTRUCTION		BY:		DATE:				
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION		
NTS	A3	BK-SSGRL-PEDCO-110-EL-SL-0002			04 OF 06	D02	053-073-0184	F	2	P	707406	04 OF 06	D02		

(VENDOR TITLE BLOCK)**

SEE PREVIOUS PAGE FOR CONTINUATION

WELLXX-400-NSWG-001A, 0.4kV, 630A, 3Ph+N+PE, 50kA/1SEC.



SEE NEXT PAGE FOR CONTINUATION

CATEGORY	F1	F1	F1	F1	F1	F3	F3
CODE	WellXX-110-CHG-001	WellXX-110-CHG-002	WellXX-DP01	WellXX-DP02	WellXX-DP03	IRP Pump	CB
POWER (kW)	3	3	10	6	8.5	90 KW	50 KVAR
C.B TYPE/RATING	16	16	32	20	25	200 A	200 A
FUSE TYPE/RATING	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CONTACTOR RATING (A)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
OVER LOAD SETTING RANGE	N/A	N/A	N/A	N/A	N/A	N/A	N/A
CABLE SIZE	-	-	-	-	-	-	-
DESCRIPTION OF FEEDER	110VDC CHARGER 1	110VDC CHARGER 2	DISTRIBUTION PANEL FOR SWITCHGEAR BUILDING	DISTRIBUTION PANEL FOR GUARD HOUSE	DISTRIBUTION PANEL FOR OUTDOOR AREA	ELECTRICAL SUBMERSIBLE PUMP & EQUIPMENT	CAPACITOR BANK

NOTES

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ELECTRICAL TYPICAL SCHEMATIC DIAGRAMS FOR LV PANELS OF WELL PADS	BK-SSGRL-PEDCO-110-EL-DG-0001

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