




# OVERALL SINGLE LINE DIAGRAM OF WELL PADS

NOTES

LEGEND

REFERENCE DRAWING	DRG. No.
SINGLE LINE DIAGRAM FOR LP EFFICIENCY OF WELL PAD	SK-SGRL-PEDCO-110-EL-IL-000

KEY PLAN

DDG	JUN.2003	APC	K.SHALEH	M.FARHANI	A.L.MOHSEN	** **																		
DDG	JUN.2003	APC	K.SHALEH	M.FARHANI	A.L.MOHSEN	** **	***	*****	REV. 01	06/2003	REV. 01	06/2003												
DDI	JUL.2002	IPA	K.SHALEH	M.FARHANI	M.JOSHUA	** **			REV.	DESCRIPTION	BY	DATE	BY	DATE										
DDO	FEB.2002	IPC	K.SHALEH	M.FARHANI	M.JOSHUA	** **			REV.	DESCRIPTION	CHECKED	BY	DATE	APPR.										
REV.	DATE	P.O.I.F	PREP.	CHK.	APP.	AUT.																		
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES GENERAL										 <p>THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C. / FIELDS</p>														
PROJECT NO.: 071020																								
EPC CONTRACTOR:					EPD/EPC CONTRACTOR (CO):					BINAK OILFIELD DEVELOPMENT SUB-SURFACE WORK PACKAGES GENERAL														
 HIRAS ENERGY - DESIGN & INSPECTION COMPANIES					 PETROIRAN DEVELOPMENT COMPANY					<table border="1"> <tr> <td>DATE</td> <td>SCALE</td> <td>DRAWING BY</td> <td>CHECKED BY</td> <td>PROJECT ENG.</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>					DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.					
DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.																				
DRAWING TITLE: OVERALL SINGLE LINE DIAGRAM OF WELL PADS										NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED														
APPROVED FOR CONSTRUCTION										BY: DATE:														
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION											
N/A	A3	SK-SGRL-PEDCO-110-EL-IL-0001			1 OF 7	D03	003-073-0164	P	2	P	707466	1 OF 7	D03											

(VENDOR TITLE BLOCK)\*\*

**BINAK  
DESALTING PLANT**

EXISTING 2 CIRCUITS OVER HEAD  
TRANSMISSION LINE

ABOUT 1.5 KM 1 CIRCUIT 11KV OVER HEAD  
TRANSMISSION LINE

ABOUT 1 KM 1 CIRCUIT OVER  
HEAD TRANSMISSION LINE

ABOUT 2 KM 1 CIRCUIT 11KV OVER HEAD  
TRANSMISSION LINE

ABOUT 5KM, 11KV, 1 CIRCUIT OVER  
HEAD TRANSMISSION LINE

NEW EQUIPMENT

WELL NO  
W007SBD

WELL NO  
BKW046SB

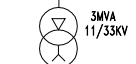
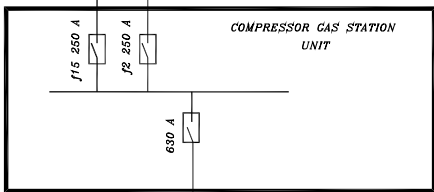
ABOUT 1 KM 33KV OVER  
HEAD TRANSMISSION LINE

NEW EQUIPMENT

WELL NO  
BK.14

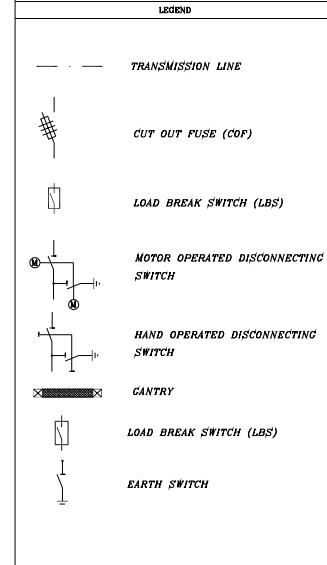
GUREH

BINAK



EXISTING 33KV OVER HEAD  
TRANSMISSION LINE

**NOTES**  
1-DISCONNECTOR SWITCH SHALL BE CONSIDERED FOR T-OFF FROM NUMBER 9 TOWER AND T-OFF FROM EXISTING GANTRY OF COMPRESSOR GAS STATION FOR NEW OHL.  
2-CUT OUT FUSE SHALL BE CONSIDERED FOR OUTDOOR SUBSTATION IN WELL PADS.  
3-EXISTING GANTRY SHALL BE REMOVE AND NEW GANTRY AND 3 DISCONNECTOR SWITCH WILL BE INSTALLED.



REFERENCE DRAWING	DRG. No.
SINGLE LINE DIAGRAM FOR LV EQUIPMENT OF WELL PAD	SK-SGRL-PEDCO-110-EL-IL-000

**KEY PLAN**

REV.	DATE	DESCRIPTION	CHECKED	REV. APPR.
DDO	JUN.2003	APC	EL.MALHA	EL.FARHANI
DDO	JUN.2003	APC	EL.MALHA	EL.FARHANI
DDO	JUL.2002	IFP	EL.MALHA	EL.FARHANI
DDO	FEB.2002	IFP	EL.MALHA	EL.FARHANI

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES GENERAL  
PROJECT NO.: 971020

EPC CONTRACTOR: **IRISAN ENERGY - DESIGN & INSPECTION COMPANIES**

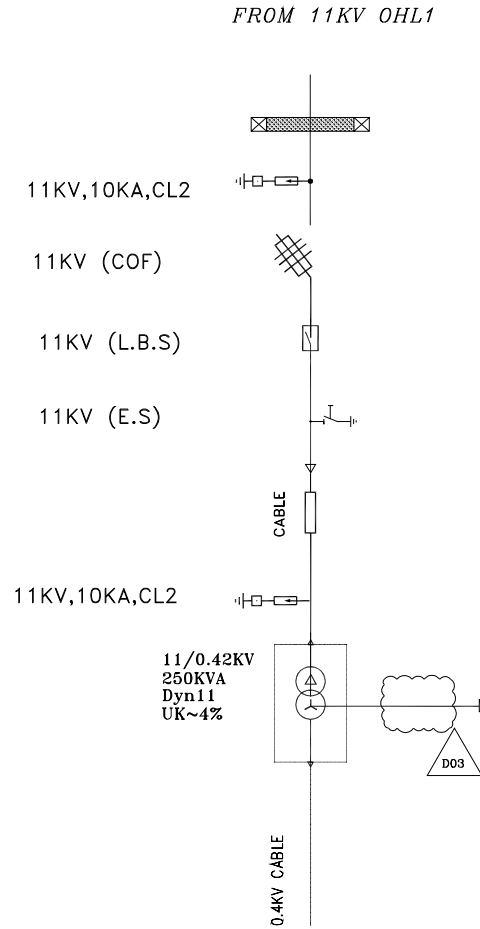
EPD/EPC CONTRACTOR (GO): **PETROIRAN DEVELOPMENT COMPANY**

DATE: \_\_\_\_\_ SCALE: \_\_\_\_\_ DRAWING BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_ PROJECT ENG.:

**DRAWING TITLE: OVERALL SINGLE LINE DIAGRAM OF WELL PADS**

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
N/A	A3	SK-SGRL-PEDCO-110-EL-IL-0001	2 OF 7	003	003-073-014	P	2	P	707466	2 OF 7	003

امیر و کلیه مهندسین و مهندسین مشاور به شرکت ملی نفت ایران و حق انحصاری مهندسی و طراحی این پروژه میسرند.  
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**NOTES**  
1-ALL EQUIPMENT SIZING SHALL BE FINALIZED BY VENDOR.

**LEGEND**

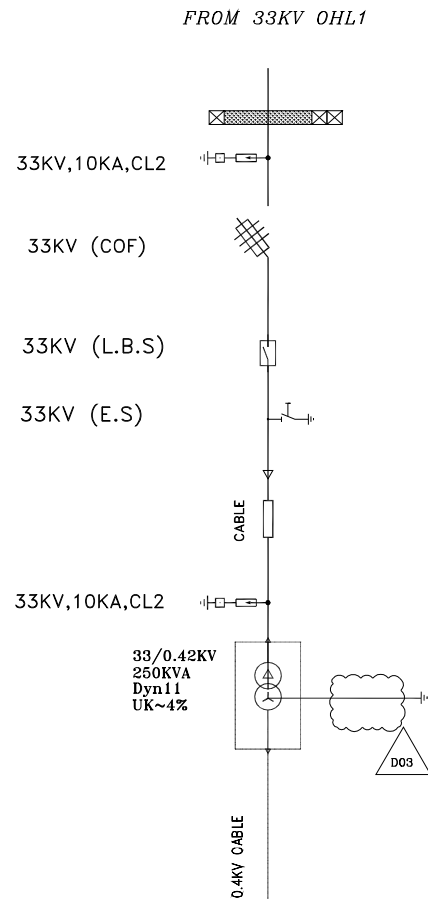
	CUT OUT FUSE (COF)
	LOAD BREAK SWITCH (LBS)
	CURRENT TRANSFORMER
	GANTRY
	MOTOR OPERATED DISCONNECTING SWITCH
	SURGE ARRESTER WITH SURGE COUNTER

<b>REFERENCE DRAWING</b>	<b>DRG. No.</b>
SINGLE LINE DIAGRAM FOR LP EFFICIENCY OF WELL PAD	WK-SURF-PEDCO-110-EL-IL-000

**KEY PLAN**

EQUIPMENT FOR OUTDOOR SUBSTATION IN WELL No BK12, BK15, BK05, W007SBD, BKW046SB

DOB	JUN.2003	APC	K.MALIK	M.FARHANI	A.L.MOHY	** **														
DOE	JUN.2003	APC	K.MALIK	M.FARHANI	A.L.MOHY	** **														
DOI	JUL.2002	IPN	K.MALIK	M.FARHANI	M.HUSNID	** **														
DDO	FEB.2002	IPC	K.MALIK	M.FARHANI	M.HUSNID	** **														
REV.	DATE	P.O.L.F	PREP.	CHK.	APP.	AUT.														
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES GENERAL							<p>THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS</p>													
PROJECT NO.: 071020																				
EPC CONTRACTOR:							EPD/EPC CONTRACTOR (CO):													
HIRGAN ENERGY - DESIGN & INSPECTION COMPANIES							PETROIRAN DEVELOPMENT COMPANY													
DRAWING TITLE: OVERALL SINGLE LINE DIAGRAM OF WELL PADS							BINA OILFIELD DEVELOPMENT SUB-SURFACE WORK PACKAGES GENERAL													
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED							APPROVED FOR CONSTRUCTION BY: _____ DATE: _____													
SCALE: AS							BUDGET REF. LOCATION: 3 OF 7 D03													
DRAWING NO. BK-SURF-PEDCO-110-EL-IL-0001							SERIAL NO. 707466													
SHEET NO. 3 OF 7							REVISION: 3 OF 7 D03													



NOTES

1-ALL EQUIPMENT SIZING SHALL BE FINALIZED BY VENDOR.

LEGEND

- CUT OUT FUSE (COF)
- LOAD BREAK SWITCH (LBS)
- CURRENT TRANSFORMER
- GANTRY
- MOTOR OPERATED DISCONNECTING SWITCH
- SURGE ARRESTER WITH SURGE COUNTER

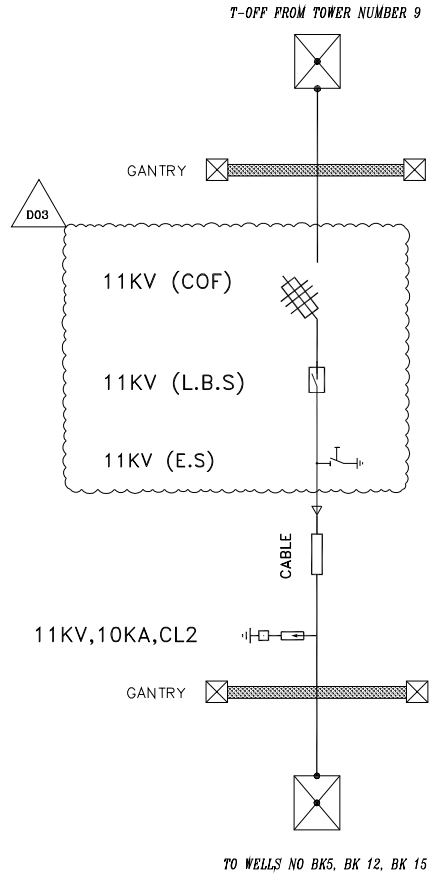
REFERENCE DRAWING	DRG. No.
SINGLE LINE DIAGRAM FOR LP EFFICIENCY OF WELL PAD	IRI-0001-PIEDCO-110-EL-IL-0001

KEY PLAN

# EQUIPMENT FOR OUTDOOR SUBSTATION IN WELL No BK14

DOO	JUN.2002	APC	K.MALIK	M.FARHANI	A.L.MONDRI	00-00														
DOE	JUN.2002	APC	K.MALIK	M.FARHANI	A.L.MONDRI	00-00														
DOI	JUL.2002	IFC	K.MALIK	M.FARHANI	M.JOSHIM	00-00														
DDO	FEB.2002	IFC	K.MALIK	M.FARHANI	M.JOSHIM	00-00														
REV.	DATE	P.O.L.F.	PREP.	CHK.	APP.	AUT.														
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES GENERAL											<p>امیر و کلیه نسخ این نقشه و سوا نقشه متعلق به شرکت ملی نفت ایران می باشد. THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS</p>									
PROJECT NO.: 971020											<p>BINAK OILFIELD DEVELOPMENT SUB-SURFACE WORK PACKAGES GENERAL</p>									
EPC CONTRACTOR: 					EPD/EPC CONTRACTOR (CO): 					DATE: SCALE: DRAWING BY: CHECKED BY: PROJECT ENG.										
DRAWING TITLE: OVERALL SINGLE LINE DIAGRAM OF WELL PADS											NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED									
APPROVED FOR CONSTRUCTION											BY: DATE:									
SCALE	SIZE	DRAWING NO.			SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION							
N/A	A3	IRI-0001-PIEDCO-110-EL-IL-0001			4 OF 7	D03	003-073-014	P	2	P	707466	4 OF 7	D03							

(VENDOR TITLE BLOCK)\*\*



## EQUIPMENT FOR T CONNECTION IN TOWER No 9

NOTES

1-ALL EQUIPMENT SIZING SHALL BE FINALIZED BY VENDOR.

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LEGEND

- TRANSMISSION LINE
- CUT OUT FUSE (COF)
- MOTOR OPERATED DISCONNECTING SWITCH
- HAND OPERATED DISCONNECTING SWITCH
- GANTRY
- LOAD BREAK SWITCH (LBS)
- EARTH SWITCH

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REFERENCE DRAWING	DRG. No.
SINGLE LINE DIAGRAM FOR UP EFFICIENCY OF WELL PAD	SI-0001-PIEDCO-110-EL-EL-0001

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KEY PLAN

REV.	DATE	DESCRIPTION	BY	DATE	BY	DATE

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES GENERAL

PROJECT NO.: 971020

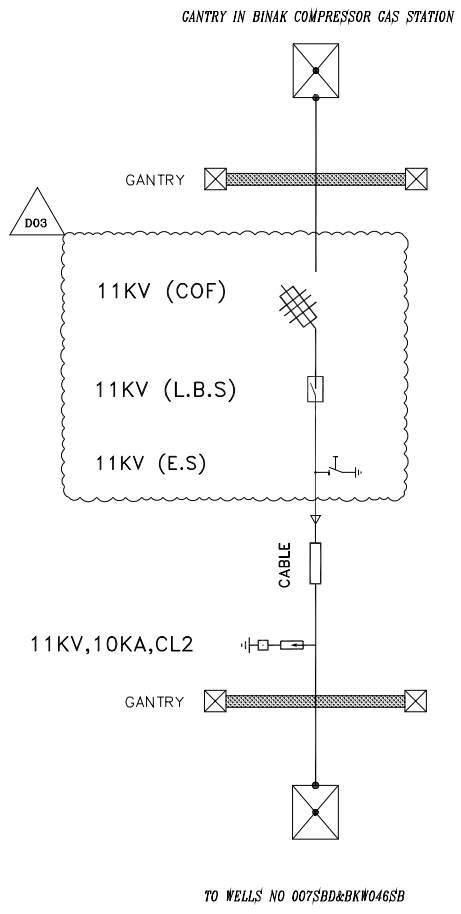
EPC CONTRACTOR: HIRASAN ENERGY HIRASAN ENERGY - DESIGN & INSPECTION COMPANIES	EPD/EPC CONTRACTOR (CO): PETROIRAN DEVELOPMENT COMPANY PEDCO
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BINA K OILFIELD DEVELOPMENT  
SUB-SURFACE WORK PACKAGES  
GENERAL

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

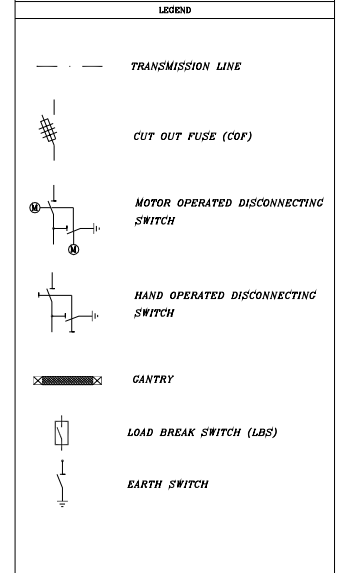
NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION		BY:		DATE:		
BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
NW	AS	SI-0001-PIEDCO-110-EL-EL-0001	6 OF 7	D03	003-073-014	P 2 P 707466 6 OF 7 D03



*EQUIPMENT FOR CONNECTION FOR WELLS NO 007SBD&BKW046SB  
TRANSMISSION LINE IN BINAK GAS COMPRESSOR STATION*

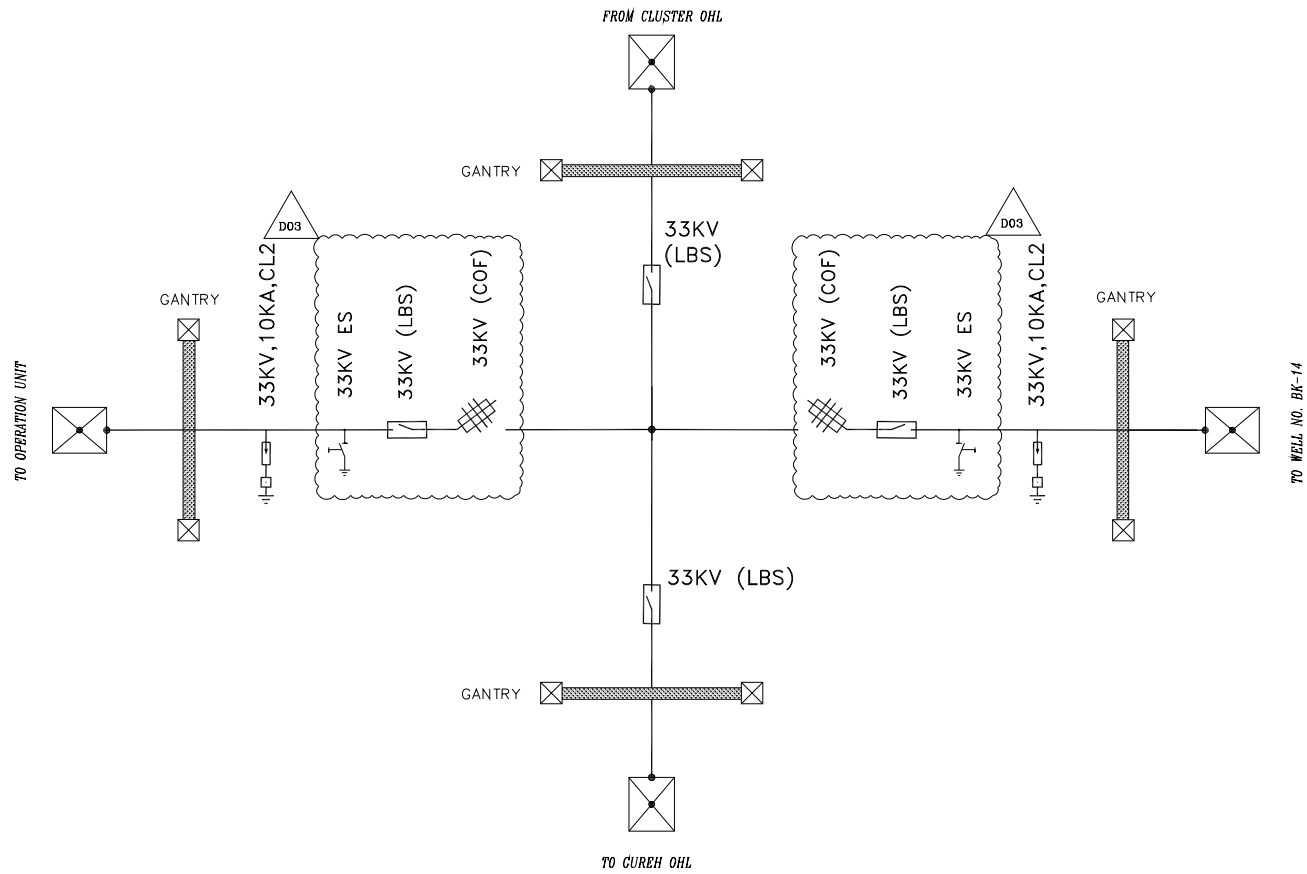
**NOTES**  
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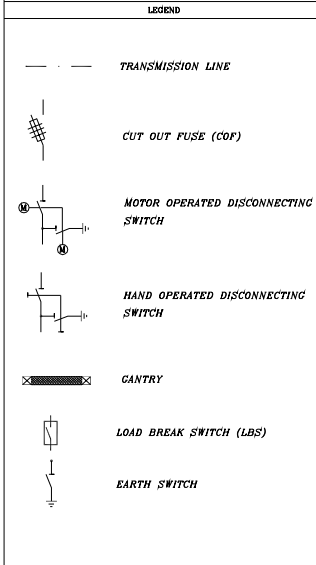
REFERENCE DRAWING	DRG. No.
SINGLE LINE DIAGRAM FOR LP EFFICIENCY OF WELL PAD	SK-0001-PEDCO-110-EL-IL-000

**KEY PLAN**

<table border="1"> <tr> <td>D00</td> <td>JUN.2000</td> <td>APC</td> <td>K.MALIK</td> <td>M.FARHANI</td> <td>A.L.MONDY</td> <td>00-00</td> </tr> <tr> <td>D02</td> <td>JUN.2000</td> <td>APC</td> <td>K.MALIK</td> <td>M.FARHANI</td> <td>A.L.MONDY</td> <td>00-00</td> </tr> <tr> <td>D01</td> <td>JUL.2002</td> <td>IPC</td> <td>K.MALIK</td> <td>M.FARHANI</td> <td>M.HUSSEIN</td> <td>00-00</td> </tr> <tr> <td>D00</td> <td>FEB.2002</td> <td>IPC</td> <td>K.MALIK</td> <td>M.FARHANI</td> <td>M.HUSSEIN</td> <td>00-00</td> </tr> </table>	D00	JUN.2000	APC	K.MALIK	M.FARHANI	A.L.MONDY	00-00	D02	JUN.2000	APC	K.MALIK	M.FARHANI	A.L.MONDY	00-00	D01	JUL.2002	IPC	K.MALIK	M.FARHANI	M.HUSSEIN	00-00	D00	FEB.2002	IPC	K.MALIK	M.FARHANI	M.HUSSEIN	00-00	<table border="1"> <tr> <th>REV.</th> <th>DESCRIPTION</th> <th>BY</th> <th>DATE</th> <th>BY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REV.	DESCRIPTION	BY	DATE	BY	DATE						
D00	JUN.2000	APC	K.MALIK	M.FARHANI	A.L.MONDY	00-00																																			
D02	JUN.2000	APC	K.MALIK	M.FARHANI	A.L.MONDY	00-00																																			
D01	JUL.2002	IPC	K.MALIK	M.FARHANI	M.HUSSEIN	00-00																																			
D00	FEB.2002	IPC	K.MALIK	M.FARHANI	M.HUSSEIN	00-00																																			
REV.	DESCRIPTION	BY	DATE	BY	DATE																																				
PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES GENERAL PROJECT NO.: 071020 EPD/SPC CONTRACTOR (GO): PETROIRAN DEVELOPMENT COMPANY EPD/SPC CONTRACTOR (GC): HIRSAN ENERGY - DESIGN & INSPECTION COMPANIES HIRSAN ENERGY - DESIGN & INSPECTION COMPANIES																																									
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APPROVED FOR CONSTRUCTION BY: _____ DATE: _____ NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED																																									
(VENDOR TITLE BLOCK)** OVERALL SINGLE LINE DIAGRAM OF WELL PADS SCALE: AS SHEET NO. 6 OF 7 REV. D03 BUDGET REF. LOCATION: 003-073-014 SIZE CLASS: P SERIAL NO.: 707466 SHEET REVISION: 6 OF 7 D03																																									



**NOTES**  
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REFERENCE DRAWING	DRG. No.
SINGLE LINE DIAGRAM FOR LP EFFICIENCY OF WELL PAD	SK-000L-PIEDCO-110-EL-IL-000

**KEY PLAN**

CONNECTION IN CLUSTER TO GUREH OHL (FOR WELL No. BK14 & OPERATION UNIT)

DOE	JUN.2003	APC	K.MALIK	M.FARHANI	A.L.MOHEDI	***						
DOE	JUN.2003	APC	K.MALIK	M.FARHANI	A.L.MOHEDI	***						
DOI	JUL.2002	IPN	K.MALIK	M.FARHANI	M.JOSHIDI	***						
DDO	FEB.2002	IPC	K.MALIK	M.FARHANI	M.JOSHIDI	***						
REV.	DATE	P.O.I.F	PREP.	CHK.	APP.	AUT.	REV.	DESCRIPTION	BY	DATE	BY	DATE

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SUB-SURFACE WORK PACKAGES GENERAL  
 PROJECT NO.: 071020

EPC CONTRACTOR: **HIRSAN ENERGY** DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (CO): **PETROIRAN DEVELOPMENT COMPANY**

BINAK OILFIELD DEVELOPMENT SUB-SURFACE WORK PACKAGES GENERAL

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED											
APPROVED FOR CONSTRUCTION BY: _____ DATE: _____											
SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION
NW	A3	SK-000L-PIEDCO-110-EL-IL-0001	7 OF 7	DO3	DO3-073-0164	P	2	P	707466	7 OF 7	DO3