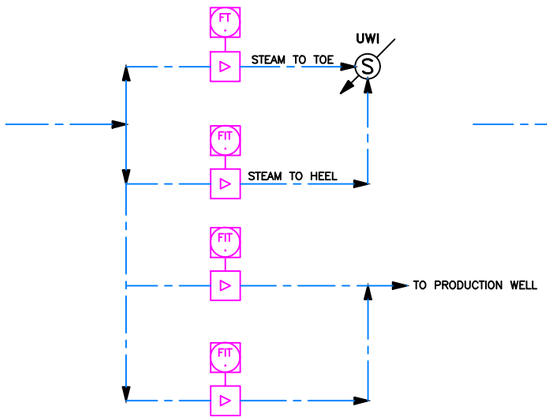
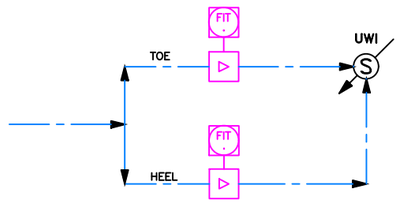
AB IF 0089451-506
HUSKY 12-28-064-04W4
HUSKY TUCKER 12-28 INJECTION
506-IN-SITU OIL SANDS INJECTION
OPERATOR: HUSKY OIL OPERATIONS LTD

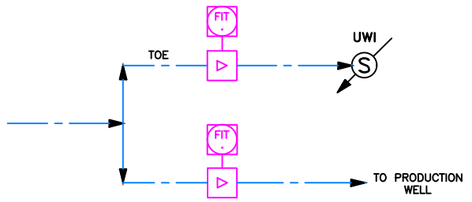
STEAM 7



STEAM 2



STEAM 9



WELL PAD C							
WELL NAME	UWI	LSD	LIC/OPER	DETAIL	STATUS	TOE TAG	HEEL TAG
C20S	105/07-28-064-04W4/00	09-29-064-04W4	HUSKY	STEAM 7	SAGD	FIC-320E	FIC-320F
C17S	103/10-28-064-04W4/00	09-29-064-04W4	HUSKY	STEAM 7	SAGD	FIC-317E	FIC-317F
C16S	105/10-28-064-04W4/00	09-29-064-04W4	HUSKY	STEAM 7	SAGD	FIC-316E	FIC-316F
C18S	107/10-28-064-04W4/00	09-29-064-04W4	HUSKY	STEAM 7	SAGD	FIC-318E	FIC-318F
C19S	108/10-28-064-04W4/00	09-29-064-04W4	HUSKY	STEAM 7	SAGD	FIC-319E	FIC-319F
C13S	104/15-28-064-04W4/00	16-29-064-04W4	HUSKY	STEAM 7	SAGD	FIC-313E	FIC-313F
C15S	106/15-28-064-04W4/00	09-29-064-04W4	HUSKY	STEAM 7	SAGD	FIC-315E	FIC-315F
C14S	108/15-28-064-04W4/00	16-29-064-04W4	HUSKY	STEAM 7	SAGD	FIC-314E	FIC-314F

WELL PAD C							
WELL NAME	UWI	LSD	LIC/OPER	DETAIL	STATUS	TOE TAG	HEEL TAG
C1R	108/11-29-064-04W4/00	09-29-064-04W4	HUSKY	STEAM 2	SAGD	FIC-301C	FIC-301D
C2R	115/12-29-064-04W4/00	09-29-064-04W4	HUSKY	STEAM 2	SAGD	FIC-302C	FIC-302D
C3R	116/12-29-064-04W4/00	09-29-064-04W4	HUSKY	STEAM 2	SAGD	FIC-303C	FIC-303D
C4R	117/12-29-064-04W4/00	09-29-064-04W4	HUSKY	STEAM 2	SAGD	FIC-304C	FIC-304D
C5R	112/13-29-064-04W4/00	16-29-064-04W4	HUSKY	STEAM 2	SAGD	FIC-306C	FIC-306D
C6R	113/13-29-064-04W4/00	16-29-064-04W4	HUSKY	STEAM 2	SAGD	FIC-307C	FIC-307D
C7R	111/13-29-064-04W4/00	09-29-064-04W4	HUSKY	STEAM 2	SAGD	FIC-305C	FIC-305D
C8R	114/13-29-064-04W4/00	16-29-064-04W4	HUSKY	STEAM 2	SAGD	FIC-308C	FIC-308D
C9R	104/07-32-064-04W4/00	16-29-064-04W4	HUSKY	STEAM 2	SAGD	FIC-309C	FIC-309D

600#
INJECTION STEAM FROM
MS-0001-04
12-28-064-04W4

WELL PAD D							
WELL NAME	UWI	LSD	LIC/OPER	DETAIL	STATUS	TOE TAG	HEEL TAG
D24S	106/07-28-064-04W4/00	07-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-424H	–
D25S	107/07-28-064-04W4/00	07-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-425H	–
D26S	108/07-28-064-04W4/00	07-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-426H	–
D27S	109/07-28-064-04W4/00	07-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-427H	–
D28S	110/07-28-064-04W4/00	07-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-428H	–
D29S	117/07-28-064-04W4/00	07-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-429H	–
D30S	116/02-28-064-04W4/00	02-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-430H	–
D31S	114/02-28-064-04W4/00	02-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-431H	–
D32S	118/02-28-064-04W4/00	02-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-432H	–
D33S	119/02-28-064-04W4/00	02-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-433H	–
D34S	117/02-28-064-04W4/00	02-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-434H	–
D35S	120/02-28-064-04W4/00	02-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-435H	–
D36S	121/02-28-064-04W4/00	02-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-436H	–
D37S	110/02-28-064-04W4/00	02-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-437H	–
D38S	113/02-28-064-04W4/00	02-28-064-04W4	HUSKY	STEAM 9	SAGD	FIC-438H	–

WELL PAD D							
WELL NAME	UWI	LSD	LIC/OPER	DETAIL	STATUS	TOE TAG	HEEL TAG
D1S	105/04-29-064-04W4/00	04-29-064-04W4	HUSKY	STEAM 9	SAGD	FIC-401H	–
D2S	115/04-29-064-04W4/00	04-29-064-04W4	HUSKY	STEAM 9	SAGD	FIC-402H	–
D3S	103/04-29-064-04W4/00	04-29-064-04W4	HUSKY	STEAM 9	SAGD	FIC-403H	–
D4S	107/04-29-064-04W4/00	04-29-064-04W4	HUSKY	STEAM 9	SAGD	FIC-404H	–
D5S	109/04-29-064-04W4/00	04-29-064-04W4	HUSKY	STEAM 9	SAGD	FIC-405H	–

GASES
FLARE GAS
OIL/EMULSION
STEAM
CONDENSATE
WATER

SP SAMPLE POINT
PT PROVER TAPS
FLOW NOZZLE
S STRAINER
P PROBE STYLE OPTICAL
DCS
RTU PLC
NOA NET OIL ANALYZER
ROTAMETER
GOR TEMPORARY METER
CORIOLIS METER
ORIFICE METER
TURBINE METER
M MAGNETIC FLOW METER
VORTEX METER
MASS METER
THERMAL MASS METER
ULTRASONIC METER
POSITIVE DISPLACEMENT METER
V-CONE(WAFER CONE)METER
FR FLOW RECORDER
EST ESTIMATE
FQI FLOW TOTALIZER
PM PROCESS METER

NOTES

1 TWO METER INSTALLATION ONLY, ACCESS TO ROUTE STEAM TO PRODUCTION WELL NOT AVAILABLE.

2 FOUR METER INSTALLATION EXISTS AND FLOW METER USE IS DEPENDENT UPON THE WELL CONTROL MODE.

ENGINEERING COMPANY PERMIT STAMP

REGISTERED PROFESSIONAL ENGINEER STAMP

REF	DRAWING NUMBER	DRAWING TITLE
6	MS-0010-01	LACT UNIT
5	MS-0007-01 & 03	STEAM INJECTION SYSTEM
4	MS-0004-01	WATER DISPOSAL SYSTEM
3	MS-0002-01 TO 07	WELLS/FIELD
2	MS-0001-03 & 04	FACILITY DRAWING
1	MS-0000-01	AREA OVERVIEW

REFERENCE DRAWINGS

REV	DATE	DESCRIPTION	BY	CHK	ENG	APR
6	2016/02/24	UPDATED FROM MARK UPS FROM ALLYSON HADLAND	SK	BRM	AH	AH
11	2018/03/20	UPDATED FROM MARK UPS FROM ELSIE GUERRA	SK	EG	EG	EG
10	2017/03/06	UPDATED FROM MARK UPS FROM ELSIE GUERRA	SK	EG	EG	EG
9	2017/01/19	UPDATED FROM MARK UPS FROM ALLYSON HADLAND	SK	AH	AH	AH
8	2016/08/12	UPDATED FROM MARK UPS SUPPLIED BY ALLYSON HADLAND	PC	AH	AH	AH
7	2016/08/12	UPDATED PER MARK UPS FROM ALLYSON HADLAND	PC		AH	AH

REVISION HISTORY

Husky Oil Operations Limited

TUCKER CENTRAL PLANT 12-28-064-04W4
WELL PADS C AND D EAST

TITLE: STEAM INJECTION SYSTEM MEASUREMENT SCHEMATIC

SURFACE LOCATION	12-28-064-04W4	
ALTERNATE DWG NUMBER		REV NO
HUSKY DWG NUMBER	12-28-064-04W4-MS-0007-02	11
VENDOR DWG NUMBER		SCALE
AMU/FLOC NUMBER	S2-01-001-00001	NTS
DCN NO	PROJECT NO MS-OS-TT	