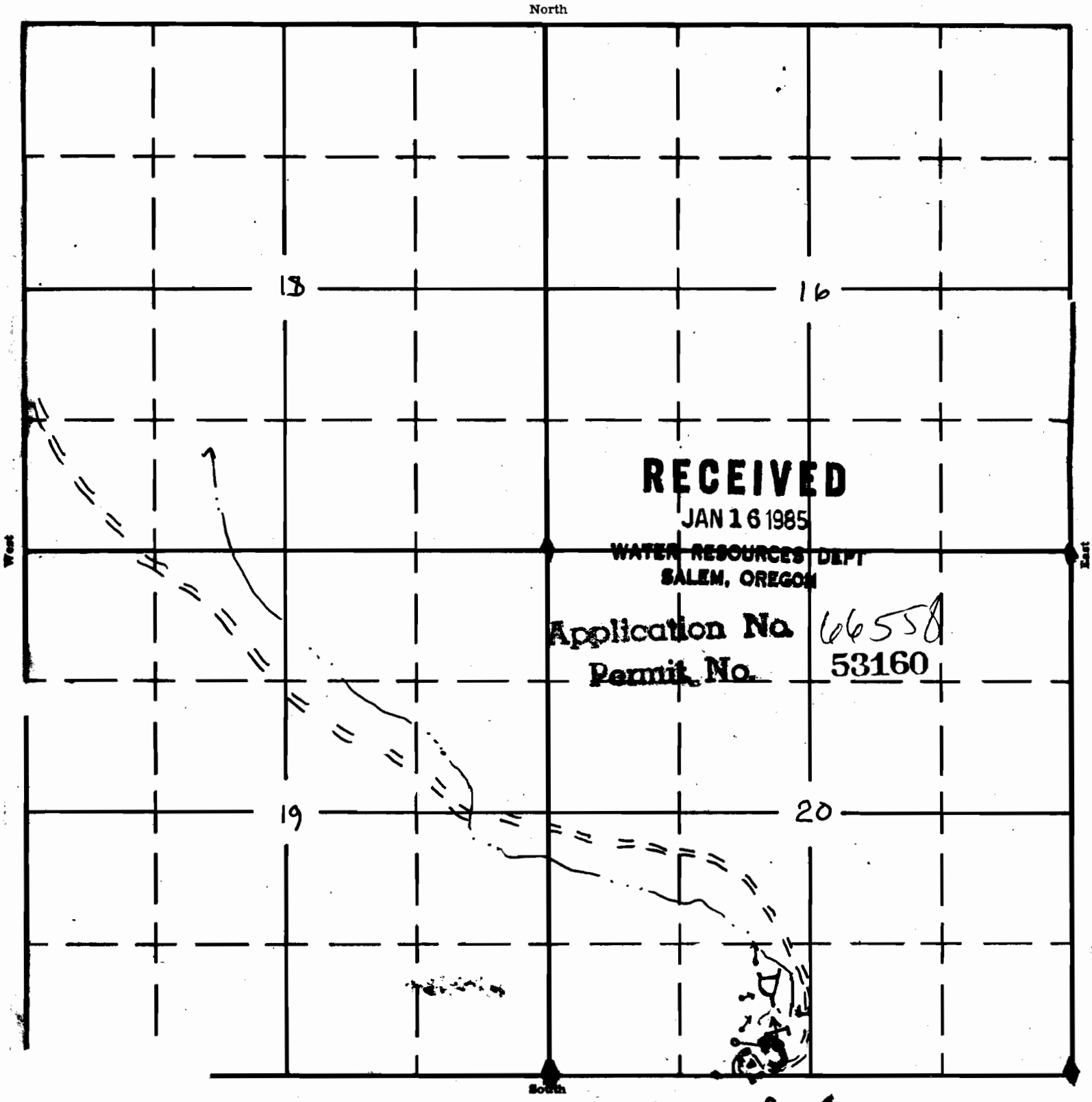
SECTION 20
SW/SE

Gray Spring
11-5040

TOWNSHIP 39S, RANGE 38E, W. M.



RECEIVED
JAN 16 1985
WATER RESOURCES DEPT
SALEM, OREGON

Application No. 66558
Permit No. 53160

Application No. 66558
Permit

SL 1 1983
RESOURCES DEPT.
SALEM, OREGON

GREY SPRINGS AND WILLOW BUTTE PIPELINES AS BUILT FOR WATER FROM GREY SPRINGS AND SHEEPCAMP SPRING

THIS MAP WAS DRAWN USING DATA COLLECTED FROM SURVEYS, GPS DATA AND OBSERVATIONS. GPS DATA WAS COLLECTED USING A TRIMBLE PRO-XRS GPS UNIT. SOME SECTION CORNERS WERE SURVEYED AT THE TIME OF THE PIPELINE DESIGN. BACKGROUND DATA WAS DIGITIZED FROM U.S.G.S QUAD MAPS.

DESCRIPTION

APPLICATION S-66558

THE GREY SPRINGS PIPELINE IS SITUATED WITHIN THESE U.S.G.S. 7 1/2" QUADS: POLE CANYON, OREG., TROUT CREEK CANYON, OREG., AND RED LOCKOUT BUTTE, OREG.
THE GREY SPRINGS PIPELINE IS SITUATED WITHIN HARNEY COUNTY. THE POINT OF DIVERSION, GREY SPRINGS, IS LOCATED WITHIN THE SW1/4SE1/4, SECTION 20, T.39S., R.38E., W.M. A DISTANCE OF 281.96 FEET NORTH AND 509.34 FEET EAST OF THE SOUTH 1/4 OF SAID SECTION 20.

THE GREY SPRINGS PIPELINE AND SPUR LINES ARE SITUATED THE FOLLOWING QUARTERS:
TOWNSHIP 39 SOUTH, RANGE 36 EAST, WILLAMETTE BASE & MERIDIAN:
SECTION 18: SE1/4SW1/4, GOV'T. LOT 3, NE1/4SW1/4, GOV'T. LOT 2, GOV'T. LOT 1;
SECTION 19: NE1/4SE1/4, SE1/4NE1/4, SW1/4NE1/4, SE1/4NW1/4, NE1/4NW1/4;
SECTION 20: SW1/4SE1/4, NW1/4SE1/4, N1/2SW1/4;

TOWNSHIP 39 SOUTH, RANGE 37 EAST, WILLAMETTE BASE & MERIDIAN:
SECTION 2: GOV'T. LOT 3, SW1/4NW1/4, NW1/4SW1/4;
SECTION 3: NE1/4SE1/4, SE1/4SE1/4, SW1/4SE1/4, E1/2SW1/4, S1/2SW1/4, GOV'T. LOT 4;
SECTION 4: GOV'T LOT 1, GOV'T LOT 2, GOV'T LOT 3, GOV'T LOT 4;
SECTION 5: GOV'T. LOT 1;
SECTION 6: GOV'T LOT 2, GOV'T LOT 2, SE1/4NW1/4, SW1/4NW1/4, NW1/4SW1/4;
SECTION 10: SW1/4NE1/4, NE1/4NE1/4, NW1/4NE1/4;
SECTION 11: S1/2SE1/4, SW1/4, SW1/4NW1/4;
SECTION 12: SE1/4SE1/4, S1/2SW1/4;
SECTION 13: N1/2N1/2;

TOWNSHIP 38 SOUTH, RANGE 37 EAST, WILLAMETTE BASE & MERIDIAN:
SECTION 31: SE1/4SE1/4, SW1/4SE1/4, NW1/4SE1/4, NE1/4SW1/4, SE1/4NW1/4, SW1/4NW1/4, NW1/4NW1/4;
SECTION 32: SE1/4SE1/4, SW1/4SE1/4, SE1/4SW1/4, SW1/4SW1/4;

TOWNSHIP 39 SOUTH, RANGE 38 EAST, WILLAMETTE BASE & MERIDIAN:
SECTION 1: NE1/4SE1/4, SE1/4NE1/4, SW1/4NE1/4, GOV'T. LOT 2, GOV'T. LOT 3;

TOWNSHIP 38 SOUTH, RANGE 38 EAST, WILLAMETTE BASE & MERIDIAN:
SECTION 13: SW1/4SW1/4;
SECTION 24: W1/2NW1/4; NW1/4SW1/4, NE1/4SW1/4, SE1/4SW1/4;
SECTION 25: NE1/4NW1/4, NW1/4NE1/4, SW1/4NE1/4, NW1/4SE1/4, NE1/4SE1/4, SE1/4SE1/4, SW1/4;
SECTION 26: SE1/4SE1/4;
SECTION 35: NE1/4NE1/4, NW1/4NE1/4;
SECTION 36: NE1/4NE1/4;

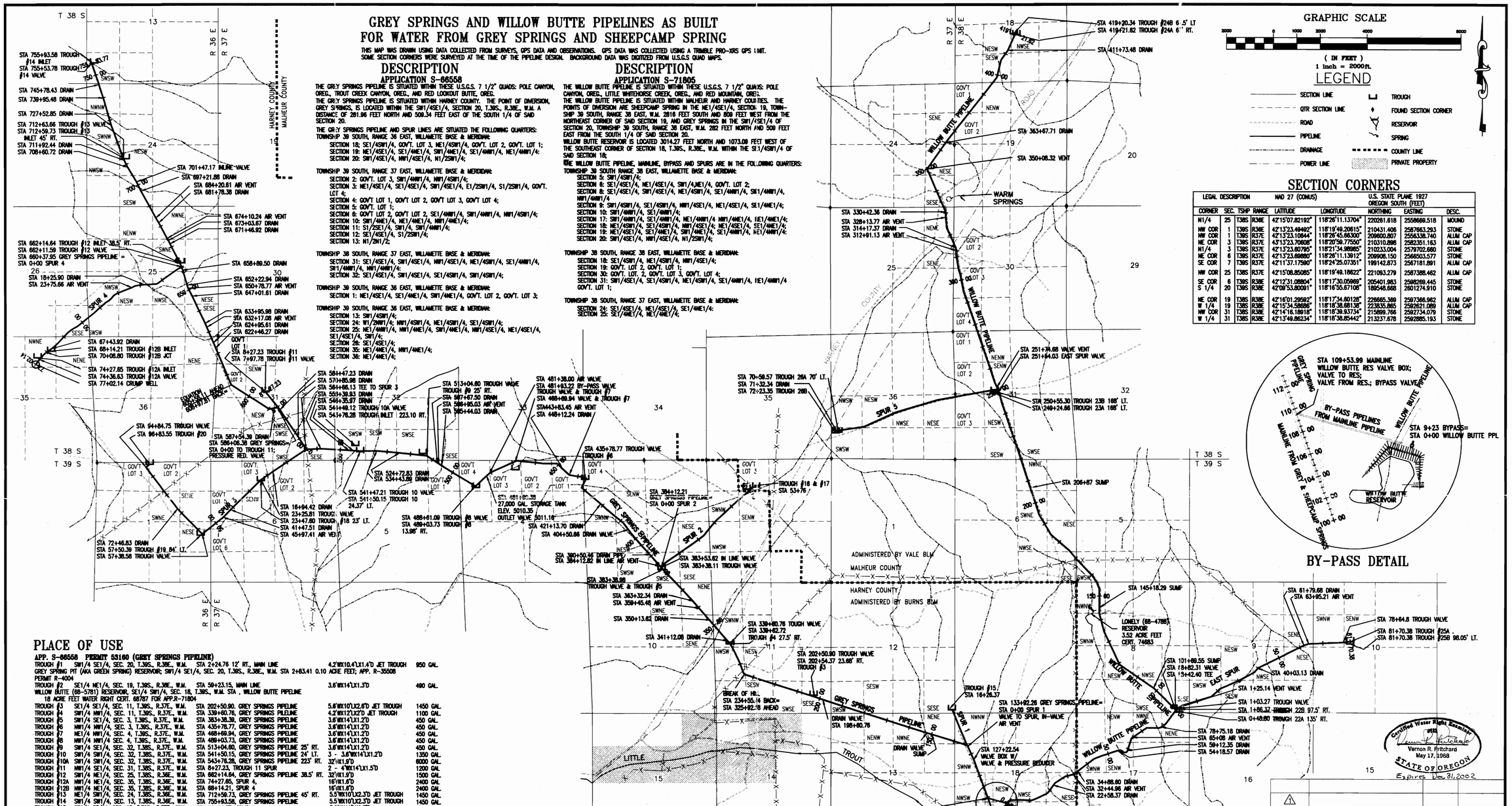
DESCRIPTION

APPLICATION S-71805

THE WILLOW BUTTE PIPELINE IS SITUATED WITHIN THESE U.S.G.S. 7 1/2" QUADS: POLE CANYON, OREG., LITTLE WHITEHORSE CREEK, OREG., AND RED MOUNTAIN, OREG.
THE WILLOW BUTTE PIPELINE IS SITUATED WITHIN MALHEUR AND HARNEY COUNTIES. THE POINTS OF DIVERSION ARE SHEEPCAMP SPRING IN THE NE1/4SE1/4, SECTION 19, TOWNSHIP 39 SOUTH, RANGE 38 EAST, W.M. 2816 FEET SOUTH AND 808 FEET WEST FROM THE NORTHEAST CORNER OF SAID SECTION 19, AND GREY SPRINGS IN THE SW1/4SE1/4 OF SECTION 20, TOWNSHIP 39 SOUTH, RANGE 38 EAST, W.M. 282 FEET NORTH AND 509 FEET EAST FROM THE SOUTH 1/4 OF SAID SECTION 20.
WILLOW BUTTE RESERVOIR IS LOCATED 3014.27 FEET NORTH AND 1073.09 FEET WEST OF THE SOUTHEAST CORNER OF SECTION 18, T.39S., R.38E., W.M. WITHIN THE SE1/4SW1/4 OF SAID SECTION 18;
THE WILLOW BUTTE PIPELINE, MAINLINE, BYPASS AND SPURS ARE IN THE FOLLOWING QUARTERS:
TOWNSHIP 39 SOUTH RANGE 38 EAST, WILLAMETTE BASE & MERIDIAN:
SECTION 5: SW1/4SW1/4;
SECTION 8: SE1/4SE1/4, NE1/4SE1/4, SW1/4NE1/4, GOV'T. LOT 2;
SECTION 8: SE1/4SE1/4, SW1/4SE1/4, NE1/4SW1/4, SE1/4NW1/4, SW1/4NW1/4, NW1/4NW1/4
SECTION 9: SW1/4SW1/4, SE1/4SW1/4, NW1/4SE1/4, NE1/4SE1/4, SE1/4NE1/4;
SECTION 10: SW1/4NW1/4, SE1/4NW1/4;
SECTION 17: SW1/4NW1/4, SE1/4NW1/4, NE1/4NW1/4 NW1/4NE1/4, NE1/4NE1/4;
SECTION 18: NE1/4SW1/4, SE1/4SW1/4, NW1/4SE1/4; NE1/4SE1/4, SE1/4NE1/4;
SECTION 19: NE1/4SE1/4, SE1/4NE1/4, SW1/4NE1/4, SE1/4NW1/4, NE1/4NW1/4;
SECTION 20: SW1/4SE1/4, NW1/4SE1/4, N1/2SW1/4;

TOWNSHIP 38 SOUTH, RANGE 38 EAST, WILLAMETTE BASE & MERIDIAN:
SECTION 18: SE1/4SW1/4, NE1/4SW1/4, NW1/4SE1/4;
SECTION 19: GOV'T. LOT 2, GOV'T. LOT 1;
SECTION 30: GOV'T. LOT. 2, GOV'T. LOT 3, GOV'T. LOT 4;
SECTION 31: SW1/4SE1/4, SE1/4SW1/4, NW1/4SE1/4; NE1/4SW1/4, SE1/4NW1/4, NE1/4NW1/4 GOV'T. LOT 1;

TOWNSHIP 38 SOUTH, RANGE 37 EAST, WILLAMETTE BASE & MERIDIAN:
SECTION 24: SE1/4SE1/4, NE1/4SE1/4, SE1/4NE1/4:
SECTION 25: SE1/4NE1/4, NE1/4NE1/4;



GRAPHIC SCALE

2000 0 1000 2000 4000 8000

(IN FEET)
1 inch = 2000 ft.

LEGEND

- SECTION LINE
- QTR SECTION LINE
- ROAD
- PIPELINE
- DRAINAGE
- POWER LINE
- TROUGH
- FOUND SECTION CORNER
- RESERVOIR
- SPRING
- COUNTY LINE
- PRIVATE PROPERTY

SECTION CORNERS

LEGAL DESCRIPTION				NAD 27 (CONUS)		U.S. STATE PLANE 1927 OREGON SOUTH (FEET)		
CORNER	SEC.	TSHP	RANGE	LATITUDE	LONGITUDE	NORTHING	EASTING	DESC.
N1/4	25	T38S	R36E	42°15'07.82192"	118°26'11.13704"	220261.618	2558669.518	MOUND
NW COR	1	T39S	R36E	42°13'23.49492"	118°19'49.20615"	210431.406	2587663.293	STONE
NW COR	1	T39S	R37E	42°13'23.10644"	118°26'45.86300"	209600.807	2556338.740	ALUM CAP
NE COR	3	T39S	R37E	42°13'23.70608"	118°20'59.77550"	210310.898	2582351.163	ALUM CAP
N1/4	3	T39S	R37E	42°13'23.60765"	118°21'34.96985"	210233.004	2579702.660	STONE
NE COR	6	T39S	R37E	42°13'23.69880"	118°26'11.13912"	209908.150	2566503.577	STONE
SE COR	7	T39S	R37E	42°11'37.17560"	118°24'25.07351"	199142.873	2567181.891	ALUM CAP
NW COR	25	T38S	R37E	42°15'08.85085"	118°19'49.18622"	221093.279	2587388.462	ALUM CAP
SE COR	6	T39S	R38E	42°12'31.08804"	118°17'30.05986"	205401.983	2598269.445	STONE
S 1/4	20	T39S	R38E	42°09'53.80091"	118°16'55.67108"	189548.668	2601274.910	STONE
NE COR	19	T39S	R38E	42°16'01.29582"	118°17'34.80126"	226685.369	2597366.962	ALUM CAP
W 1/4	19	T39S	R38E	42°15'34.59886"	118°18'38.68136"	223835.865	2592621.089	ALUM CAP
NW COR	31	T38S	R38E	42°14'16.18918"	118°18'39.93734"	215899.766	2592734.079	STONE
W 1/4	31	T38S	R38E	42°13'49.86234"	118°18'38.85442"	213237.678	2592885.193	STONE

BY-PASS DETAIL

PLACE OF USE

APP. S-66558 PERMIT 53160 (GREY SPRINGS PIPELINE)

TROUGH #1	SW1/4 SE1/4, SEC. 20, T.39S., R.38E., W.M.	STA 2+24.76 12' RT., MAIN LINE	4.2'WX10.4'LX1.4'D JET TROUGH	950 GAL.
GREY SPRING PIT (AKA GREEN SPRING) RESERVOIR; SW1/4 SE1/4, SEC. 20, T.39S., R.38E., W.M. STA 2+83.41 0.10 ACRE FEET; APP. R-35508 PERMIT R-4004				
TROUGH #2	SE1/4 NE1/4, SEC. 19, T.39S., R.38E., W.M.	STA 59+23.15, MAIN LINE	3.6'WX14'LX1.5'D	480 GAL.
WILLOW BUTTE (68-5781) RESERVOIR, SE1/4 SW1/4, SEC. 18, T.39S., W.M. STA , WILLOW BUTTE PIPELINE 18 ACRE FEET WATER RIGHT CERT. 68787 FOR APP.R-71804				
TROUGH #3	SE1/4 SE1/4, SEC. 11, T.39S., R.37E., W.M.	STA 202+50.90. GREY SPRINGS PIPELINE	5.6'WX10'LX2.6'D JET TROUGH	1450 GAL.
TROUGH #4	SW1/4 NW1/4, SEC. 11, T.39S., R.37E., W.M.	STA 339+60.76, GREY SPRINGS PILELINE	4.2'WX12'LX2'D JET TROUGH	1100 GAL.
TROUGH #5	NW1/4 SW1/4, SEC. 3, T.39S., R.37E., W.M.	STA 383+38.39, GREY SPRINGS PIPELINE	3.6'WX14'LX1.2'D	450 GAL.
TROUGH #6	NW1/4 NW1/4, SEC. 3, T.39S., R.37E., W.M.	STA 435+78.77, GREY SPRINGS PIPELINE	3.6'WX14'LX1.2'D	450 GAL.
TROUGH #7	NE1/4 NW1/4, SEC. 4, T.39S., R.37E., W.M.	STA 468+69.94, GREY SPRINGS PIPELINE	3.6'WX14'LX1.2'D	450 GAL.
TROUGH #8	NW1/4 NW1/4 SEC. 4, T.39S., R.37E., W.M.	STA 489+03.73, GREY SPRINGS PIPELINE	3.6'WX14'LX1.2'D	450 GAL.
TROUGH #9	SW1/4 SE1/4, SEC. 32, T.38S., R.37E., W.M.	STA 513+04.80, GREY SPRINGS PIPELINE 25' RT.	3.6'WX14'LX1.2'D	450 GAL.
TROUGH #10	SW1/4 SW1/4, SEC. 32, T.38S., R.37E., W.M.	STA 541+50.15, GREY SPRINGS PIPELINE 24' LT.	3 - 3.6'WX14'LX1.2'D	1350 GAL.
TROUGH #10A	SW1/4 SW1/4, SEC. 32, T.38S., R.37E., W.M.	STA 543+76.28, GREY SPRINGS PIPELINE 223' RT.	32'WX1.9'D	6000 GAL.
TROUGH #11	NW1/4 SE1/4, SEC. 31, T.38S., R.37E., W.M.	STA 8+27.23, TROUGH 11 SPUR	2 - 4'WX14'LX1.5'D	1200 GAL.
TROUGH #12	SW1/4 SE1/4, SEC. 25, T.38S., R.36E., W.M.	STA 662+14.64, GREY SPRINGS PIPELINE 38.5' RT.	32'WX1.9'D	1500 GAL.
TROUGH #12A	NW1/4 NE1/4, SEC. 35, T.38S., R.36E., W.M.	STA 74+27.85, SPUR 4,	16'WX1.6'D	2400 GAL.
TROUGH #12B	NW1/4 NE1/4, SEC. 35, T.38S., R.36E., W.M.	STA 68+14.21, SPUR 4	16'WX1.6'D	2400 GAL.
TROUGH #13	NE1/4 SW1/4, SEC. 24, T.38S., R.36E., W.M.	STA 712+58.73, GREY SPRINGS PIPELINE 45' RT.	5.5'WX10'LX2.3'D JET TROUGH	1450 GAL.
TROUGH #14	SW1/4 SW1/4, SEC. 13, T.38S., R.36E., W.M.	STA 755+93.58, GREY SPRINGS PIPELINE	5.5'WX10'LX2.3'D JET TROUGH	1450 GAL.
TROUGH #15	SE1/4 SE1/4, SEC. 12, T.38S., R.37E., W.M.	STA 16+26.37, SPUR 1	3.6'WX14'LX1.7'D	640 GAL.
TROUGH #16	NE1/4 NW1/4, SEC. 2, T.38S., R.37E., W.M.	STA 53+63, SPUR 2	15.2'WX1.5'D	2000 GAL.
TROUGH #17	NE1/4 NW1/4, SEC. 2, T.38S., R.37E., W.M.	STA 53+63, SPUR 2	15.2'WX1.5'D	2000 GAL.
TROUGH #18	NE1/4NW1/4, SEC. 6, T.39S., R.37E., W.M.	STA 23+47.60, SPUR 3, 23' LT.	30'WX1.8'D	9500 GAL.
TROUGH #19	NE1/4 SE1/4, SEC. 1, T.39S., R.36E., W.M.	STA 57+50.39, SPUR 3, 84' LT.	3.6'WX14'LX1.2'	450 GAL.
TROUGH #20	NW1/4 NE1/4, SEC. 1, T.39S., R.36E., W.M.	STA 96+83.55, SPUR 3	4.2'WX11.5'L JET TROUGH	1050 GAL.

APP. S-71805 PERMIT 53161 (WILLOW BUTTE PIPELINE)

TROUGH #1	SW1/4 SE1/4, SEC. 20, T.39S., R.38E., W.M.	STA 2+24.76 12' RT., MAIN LINE	4.2'WX10.4'LX1.4'D JET TROUGH	950 GAL.
GREY SPRING PIT (AKA GREEN SPRING) RESERVOIR; SW1/4 SE1/4, SEC. 20, T.39S., R.38E., W.M. STA 2+83.41 0.10 ACRE FEET; APP. R-35508 PERMIT R-4004				
TROUGH #2	SE1/4 NE1/4, SEC. 19, T.39S., R.38E., W.M.	STA 59+23.15, MAIN LINE	3.6'WX14'LX1.5'D	450 GAL.
WILLOW BUTTE (68-5781) RESERVOIR, SE1/4 SW1/4, SEC. 18, T.39S., W.M. STA , WILLOW BUTTE PIPELINE 18 ACRE FEET WATER RIGHT CERT. 68787 FOR APP.R-71804				
TROUGH #22A	SE1/4 SE1/4, SEC. 8, T.39S., R.38E., W.M.	STA 0+48.80 EAST SPUR 135' RT.	6.5'WX13.5'LX2'D	1300 GAL.
TROUGH #22B	SE1/4 SE1/4, SEC. 8, T.39S., R.38E., W.M.	STA 1+86.37 EAST SPUR 97.5' RT.	6.5'WX13.5'LX2'D	1300 GAL.
TROUGH #23A	SE1/4 NW1/4, SEC. 31, T.38S., R.38E., W.M.	STA 249+24.86 WILLOW BUTTE PIPELINE 168' LT.	6.5'WX13.5'LX2'D	1300 GAL.
TROUGH #23B	SE1/4 NW1/4, SEC. 31, T.38S., R.38E., W.M.	STA 250+55.30 WILLOW BUTTE PIPELINE 168' LT.	6.5'WX13.5'LX2'D	1300 GAL.
TROUGH #24A	NW1/4 SE1/4, SEC. 18, T.38S., R.38E., W.M.	STA 419+21.62 WILLOW BUTTE PIPELINE 63' RT.	6.5'WX13.5'LX2'D	1300 GAL.
TROUGH #24B	NW1/4 SE1/4, SEC. 18, T.38S., R.38E., W.M.	STA 419+20.34 WILLOW BUTTE PIPELINE 61.5' LT.	6.5'WX13.5'LX2'D	1300 GAL.
TROUGH #25A	SE1/4 SW1/4, SEC. 10, T.38S., R.38E., W.M.	STA 81+70.38 EAST SPUR,	6.5'WX13.5'LX2'D	1300 GAL.
TROUGH #25B	SE1/4 SW1/4, SEC. 10, T.38S., R.38E., W.M.	STA 81+53.39 EAST SPUR, 98' RT.	6.5'WX13.5'LX2'D	1300 GAL.
TROUGH #26A	SW1/4 SW1/4, SEC. 36, T.38S., R.37E., W.M.	STA 70+59.57 WEST SPUR, 70' LT.	6.5'WX13.5'LX2'D	1300 GAL.
TROUGH #26B	SW1/4 SW1/4, SEC. 36, T.38S., R.37E., W.M.	STA 72+23.35 WEST SPUR	6.5'WX13.5'LX2'D	1300 GAL.

LINE STATIONING

APP S-66558 PERMIT 53160 (GREY SPRINGS)
MAIN LINE STA 0+00 TO STA 109+53.99 = 2.08 MILES
GREY SPRINGS PIPELINE STA 109+53.99 TO STA 755+93.58 = 10.59 MILES
SPUR 1 STA 0+00 (GREY SPRINGS PIPELINE STA 133+92.26) TO STA 16+26 = 0.31 MILE
SPUR 2 STA 0+00 (GREY SPRINGS PIPELINE STA 384+12.21) TO STA 53+72 = 1.02 MILES
SPUR 3 STA 0+00 (GREY SPRINGS PIPELINE STA 564+66.13) TO STA 96+83.55 = 1.83 MILES
SPUR 4 STA 0+00 (GREY SPRINGS PIPELINE STA 660+37.95) TO STA 77+02.14
CRUMP WELL = 1.46 MILES
TROUGH 11 LINE, STA 0+00 (GREY SPRINGS PIPELINE STA) TO STA 8+27.23 = 0.15 MILE

APP S-71805 PERMIT 53161 (WILLOW BUTTE)
MAIN LINE STA 0+00 (GREY SPRINGS) TO STA 109+53.99 = 2.08 MILES
SHEEPCAMP SPRING (MAINLINE STA 56+66.64)
WILLOW BUTTE BY-PASS LINE STA 0+00 (STA 109+53.99 MAINLINE) TO STA 9+23 (0+00 WILLOW BUTTE PIPELINE) 0.18 MILE
WILLOW BUTTE PIPELINE 0+00 TO STA 419+21.62 = 7.94 MILES
EAST SPUR STA 0+00 (WILLOW BUTTE PIPELINE STA 86+42.4 TO STA 81+70.38 = 1.55 MILES
WEST SPUR STA 0+00 (WILLOW BUTTE PIPELINE STA 251+54.03) TO STA 72+23.35 = 1.37 MILES

DIVERSION LOCATIONS

WILLOW BUTTE RESERVOIR LOCATED 3014.27 FEET NORTH AND 1073.09 FEET WEST OF SE CORNER SEC. 18, T39S, R38E, WM.

GREY SPRINGS LOCATED 281.96 FEET NORTH AND 509.34 FEET EAST OF S 1/4 SEC. CORNER, SEC. 20, T39S, R38E, WM.

SHEEPCAMP SPRING LOCATED 2815.53 FEET SOUTH AND 809.49 FEET WEST OF NE CORNER SEC. 19, T39S, R38E, WM.

App # 66558, Per # 53160
App # 71805, Per # 53161

Certified Water Right Examiner
Vernon R. Fritchard
May 17, 1988
STATE OF OREGON
Expires Dec 31, 2002

REV. NO.	DESCRIPTION	DATE	APPROVED
1			

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VALE DISTRICT OREGON

GREY SPRINGS PIPELINE AND WILLOW BUTTE PIPELINE
PLAN

DESIGNED
REVIEWED
APPROVED
CHIEF, BRANCH OF ENGINEERING OR DISTRICT ENGINEER

DRAWN: CG | SCALE: 1"=2000'
DATE: 03/04/02 | SHEET 1 OF 1
DRAWING NO. OR-030-01010 PPL-002-001

ACAD2000i/LDD
GREY-WIL-PPL.DWG

◆ SOFTDESK INFORMATION DDATTE TO ACCESS
◆ GEODESY INFORMATION DDATTE TO ACCESS
◆ SURVEY INFORMATION DDATTE TO ACCESS
◆ PLOT INFORMATION DDATTE TO ACCESS
◆ DRAWING INFORMATION DRAWING: GREY-WIL-PPL.DWG X-REF'S: NA