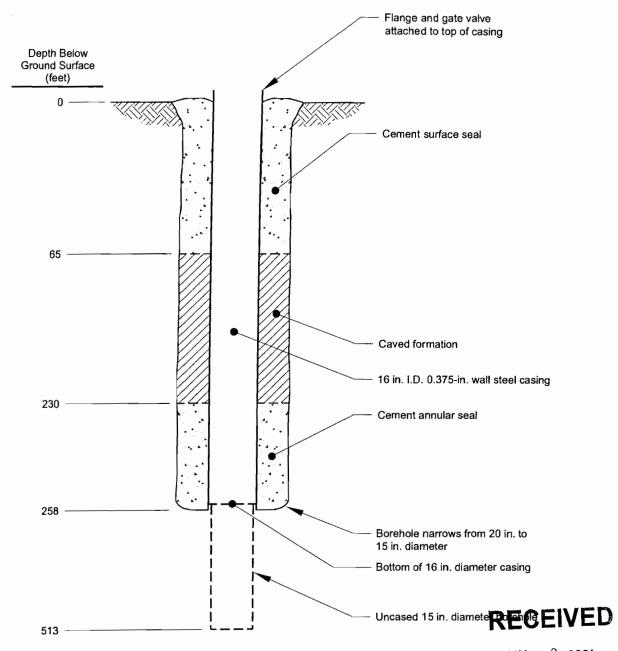


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MAY 3 2004

NOTES:

WATER RESOURCES DEP SALEM, OREGON

GROUND SURFACE ELEV. ..... 1993 feet MSL COMPLETION DATE ...... February 5, 1998

OWRD LOG ID No. ..... 50418

NOT TO SCALE



1.9720

Well No. 2 As-Built CONSTRUCTION DETAILS

DESIGNED BY: PROJECT NO. SJS MARCH 2001 450 - 104 FIGURE 2

PROJECT NO.

MARCH 2001

450 - 104

**FIGURE** 

3

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Ph: 503 228-7718

PG

DESIGNED BY:

Fax: 503 228-7781

DRAWN BY:

SJS

10/2

STATE OF OREGON			DUWD WELL NO. /
WATER SUPPLY WELL REPORT		JEFF 50287	Receive
(se required by ORS 837.788) Instructions for completing this report are on the last p	lege of this form.		W Start
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| Start Card # 112  OCATION OF HOLE By legal description  unty Jefferson Latitude Longitude  thip 12.00 S Range 12.00 E Subdivision  to 2800 Lot Block  on 33 SW 1/4 NE 1/4  Address of Well (or nearest address)  I LASALLE LANE, CULVER  th location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface. Date  STATIC WATER LEVEL  Ft. below land surface. Date \$/28/1998  VATER BEARING ZONES  th at which water was first found R.  Tom To Est. Flow Rate SWL  437 7/40  ELL LOG  d Elevation  R.  Material From To SWL  437 437  CEN RED CIRCLERS 437  HARD BABALT 448  FELACK VISCOUS BABALT 448  | Start Card # 112  LOCATION OF HOLE By legal description  County Jefferson Letitude Longitude Inship 12.00 S Range 12.00 E Subdivision  Inship 12.00 S Range  | Start Card # 112  LOCATION OF HOLE By legal description  County Jefferson Lettude Longitude  makip 12.00 S Range 12.00 E Subdivision  lot 2800 Lot Block  sition 33 SW 1/4 NE 1/4  it Address of Well (or nearest address)  W LASALLE LANE, CULVER  with location indentified must be attached  STATIC WATER LEVEL  FL below land surface. Date  riselan Pressure \$8 lb/eq. in. Date \$/28/1998  WATER BEARING ZONES  sight at which water was first found R.  From To Est Flow Rate SWL  437 748  WELL LOG  und Elevation R.  Meterial From To SWL  437 440  AST 748  ATHERED BASALT 440  BELACK VISCOUS BASALT 440  BELACK  | Start Card # 112  LOCATION OF HOLE By legal description  County Jefferson Letitude Longitude  makip 12.00 S Range 12.00 E Subdivision  lot 2800 Lot Block  sidon 33 SW 1/4 NE 1/4  Address of Well (or nearest address)  WLASALLE LANE, CULVER  rith location indentified must be attached  STATIC WATER LEVEL  FL below land surface. Date  Tessian Pressure 59 lb/eq. in. Date 6/28/1998  WATER BEARING ZONES  sph at which water was first found R.  From To Est Flow Rate SWL  437 7/40  WELL LOG  und Elevation R.  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From To Est Flow Rate SWL  437 Y40  WELL LOG  SWING RED CIRCYER  WELL LOG  SWING RED CIRCYER  WELL LOG  SWING RED CIRCYER  ACT REARING ZONES  ASSERT ASSER | Start Cerd # 112    COCATION OF HOLE By legal description     County Jefferson   | Start Card # 112  LOCATION OF HOLE By legal description  County Jefferson Latitude Longitude mahip 12.00 S Range 12.00 E Subdivision  Iot 2800 Lot Block cition 33 SW 1/4 NE 1/4 or Address of Wije (or nearest address) IW LASALLE LANE, CULVER with location indentified mass be attached  STATIC WATER LEVEL  Ft. below land surface. Date riselan Pressure 60 b/aq. in. Date 6/28/1998  WATER BEARING ZONES appth at which water was first found ft.  From To Est Flow Rate SWL  437 740  WELL LOG  und Elevation ft.  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From To Est Flow Rate SWL  437 746  WELL LOG  ACK BASALT  ACK BASALT  OKEN RED CINDERS 439 440  ACK BASALT  OKEN RED CINDERS 440  ACK BASALT  OKEN RED CINDERS 441  ACTHERED BASALT  ACK BASALT  ACTHERED BASALT  WICLAY  FRO BLACK VISCOUS BASALT  RD BLACK VISCOUS BASALT  RD BLACK VISCOUS BASALT  RD BLACK BASALT, CLAY   | Start Cerd # 112  County Jefferson Letitude Longitude which p 12.00 S Range 12.00 E Subdivision at 200 Lot Block (cition 33 SW 1/4 NE 1/4 (cition 34 SW 1/4 NE 1/4 (citio | Start Cerd # 112    County Jefferson  | Well D # L Start Card # 112  County Jefferson Letitude Longitude which 12.00 S Range 12.00 E Subdivision to 2800 Lot Block cition 33 SW 1/4 NE 1/4 et Address of Well (or nearest address) 8W LASALLE LANE, CULVER with location indentified meet be attached  I STATIC WATER LEVEL  Ft. below land surface. Date Well L LOG Nurseian Pressure 60 b/sq. in. Date 6/28/1998  WATER BEARING ZONES height at which water was first found R.  From To Est Flow Rate SWL  ACK BASALT 427 437  COKEN RED CINDERS 457 440  LATHERD BASALT 440 448  RD BLACK VISCOUS BASALT 440 448  RD BLACK VISCOUS BASALT 500 644  RO BLACK BASALT, FRACTURE 556 608  RY HARD BASALT, FRACTURE 55 | Start Card #  D) LOCATION OF HOLE By legal description  County Jefferson Letitude Longitude  while 12.00 S Range 12.00 E Subdivision  x lot 2800 Lot Block  action 33 SW 1/4 NE 1/4  act Address of Well (or nearest address)  8W LASALLE LANE, CULVER  with location indentified must be attached  D) STATIC WATER LEVEL  Ft below land surface. Date  Artesian Pressure 50 b/sq. in. Date 5/22/1992  D) WATER BEARING ZONES  Depth at which water was first found R.  From To Est Flow Rate SWL  437 740  WELL LOG  Ound Elevation  R.  Majorial From To SWL  ACK EASALT  GOKEN RED CIRDERS  437 440  EATHERED BASALT  COKEN RED CIRDERS  437 440  EATHERED BASALT  COKEN RED CIRDERS  438 440  EATHERED BASALT  COKEN RED CIRDERS  438 440  EATHERED BASALT  COKEN RED CIRDERS  439 440  EATHERED BASALT  COKEN RED CIRDERS  431 440  EATHERED BASALT  COKEN RED CIRDERS  431 440  EATHERED BASALT  COKEN RED CIRDERS  432 443  CALLERS  CALL | Start Card # 11  LOCATION OF HOLE By legal description  county Jefferson Latitude Longitude  Start 200 S Range 12.00 E Subdivision  county Jefferson Latitude  Subdivision Subdivision  County Jefferson Latitude Longitude  Subdivision Subdivision  County Jefferson Longitude  Subdivision Subdivision  County Jefferson Longitude  Subdivision  County Jefferson Longitude  Subdivision  County Jefferson Longitude  Subdivision  County Jefferson Longitude  Subdivision  County Jefferson Latitude  Subdivision  County Jefferson Longitude  Subdivision  County Jefferson Longitude  Subdivision  County Jefferson Longitude  Subdivision  County Jefferson Longitude  County Jefferson Longitude  Longitude  Longitude  Longitude  Longitude  Longitude  Longitude  Subdivision  County Jefferson  Latitude  Longitude  Longitude  Longitude  Subdivision  County Jefferson  Latitude  Longitude  Longitude  Subdivision  County Jefferson  Latitude  Longitude  Longitu | Start Card # 11:  LOCATION OF HOLE By legal description  County Jefferson Letitude Longitude  makip 12.00 S Range 12.00 E Subdivision  lot 2800 Lot Block  filon 33 SW 1/4 NE 1/4  At Address of Well (or nearest address)  W LASALLE LANE, GULVER  with location indentified must be attached  STATIC WATER LEVEL  FL below land surface. Date  riselan Pressure 50 b/sq. in. Date 5/28/1998  WATER BEARING ZONES  spith at which water was first found R.  From To Est Flow Rate SWL  437 740  WELL LOG  und Elevation R.  Meterial From To SWL  ACK BASALT 437  OKEN RED CINDERS 437  A47 437  OKEN RED CINDERS 437  A47 437  OKEN RED CINDERS 437  A40   | Start Card # 11:    County Jefferson   | Start Card # 11:    LOCATION OF HOLE By legal description   County Jefferson   | Start Card # 11:  Start Card # 11:  County Jefferson Latitude Longitude which 12.00 S Range 12.00 E Subdivision ox lot 2800 Lot Block section 33 SW 1/4 NE 1/4 set Address of Well (or nearest address) SW LASALLE LANE, CULVER with location indentified must be attached  District WATER LEVEL Ft. below land surface. Date Artselan Pressure 80 b/sq. in. Date 8/28/1968  WATER BEARING ZONES Depth at which water was first found R.  From To Est. Flow Rate SWL 437 748  WELL LOG ound Elevation R.  Material From To SWL   | Start Card # 11:    County Jefferson   | Start Card # 11:    County Jefferson   | Start Card # 11:    LOCATION OF HOLE By legal description   County Jefferson   | Start Card # 11:    LOCATION OF HOLE By legal description   County Jefferson   | Start Card # 11:    LOCATION OF HOLE By legal description   County Jefferson   | Start Card # 11:    LOCATION OF HOLE By legal description   County Jefferson   | Well ID # L Start Card # 112  D) LOCATION OF HOLE By legal description  County Jefferson Latitude Longitude winship 12.00 S Range 12.00 E Subdivision ax lot 2800 Lot Block section 33 SW 1/4 NE 1/4 net Address of Well (or nearest address) ISW LASALLE LANE, CULVER with location indentified meet be attached  D) STATIC WATER LEVEL  Ft. below land surface. Date Ariseian Pressure 60 b/eq. in. Date 8/28/1998  D) WATER BEARING ZONES  Depth at which water was first found  T.  From 10 Est Flow Rate SWL  |
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Start Card # 112  OCATION OF HOLE By legal description  unty Jefferson Latitude Longitude  thip 12.00 S Range 12.00 E Subdivision  it 2800 Lot Block  on 33 SW 1/4 NE 1/4  Reddress of Well (or nearest address)  VLASALLE LANE, CULVER  th location indentified meet be attached  STATIC WATER LEVEL  Ft. below land surface. Date  Belan Pressure 60 b/sq. in. Date 8/28/1998  VATER BEARING ZONES  th at which water was first found it.  From To Est. Flow Rate SWL  437 YAR  ELL LOG  d Elevation  R.  Material From To SWL  437 YAR  EK BABALT  KEN RED CROBERS  437 448  THERE OBASALT  FELL COURSE ALSALT  FELL COURSE  FE	Start Card # 112  LOCATION OF HOLE By legal description  County Jefferson Letitude Longitude Inship 12.00 S Range 12.00 E Subdivision  Inship 12.00 S Range	Start Card # 112  LOCATION OF HOLE By legal description  County Jefferson Letitude Longitude  mainip 12.00 S Range 12.00 E Subdivision  lot 2800 Lot Block  sition 33 SW 1/4 NE 1/4  kt Address of Well (or nearest address)  WLASALLE LANE, CULVER  with location indentified must be attached  STATIC WATER LEVEL  FL below land surface. Date  riselan Pressure \$8 lb/eq. in. Date \$/28/1998  WATER BEARING ZONES  sph at which water was first found R.  From To Est Flow Rate SWL  437 748  WELL LOG  und Elevation R.  Meterial From To SWL  437 440  AST 748  ATHERED BASALT 440  BELACK VISCOUS BASALT 440  BELACK V	Start Card # 112  LOCATION OF HOLE By legal description  County Jefferson Letitude Longitude  makip 12.00 S Range 12.00 E Subdivision  lot 2800 Lot Block  sition 33 SW 1/4 NE 1/4  At Address of Well (or nearest address)  WILASALLE LANE, CULIVER  rith location indentified must be attached  STATIC WATER LEVEL  FL below land surface. Date  Tessian Pressure \$8 ib/eq. in. Date \$/28/1998  WATER BEARING ZONES  sph at which water was first found R.  From To Est Flow Rate SWL  437 7/40  WELL LOG  und Elevation R.  Meterial From To SWL  437 440  ATTACK BASALT 427 437  OKEN RED CINDERS  ATTACK BASALT 440  BELACK VISCOUS BASALT 440  ATTACK BASALT 440  BELACK VISCOUS BASALT 440
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unty Jefferson Latitude Longitude  thip 12.00 S Range 12.00 E Subdivision  k 2800 Lot Block  cm 33 SW 1/4 NE 1/4 Address of Well (or nearest address)  / LASALLE LANE, CULVER  th location indentified meet be attached  STATIC WATER LEVEL  Ft. below land surface. Date  place 8/28/1998  WATER BEARING ZONES  th at which water was first found R.  rorn To Est. Flow Rate SWL  437 Y40  ELL LOG  d Elevation R.  Material From To SWL  437 Y40  EXEASALT 427 437  CEN RED CIRDIERS 437 440  THERED BASALT 444  USH HARD BASALT 444  USH 4	County Jefferson Letitude Longitude  Inship 12.00 S Range 12.00 E Subdivision  Into 2806 Lot Block  Into 33 SW 1/4 NE 1/4  It Address of Well (or nearest address)  W LASALLE LANE, CULVER  Inth location indentified must be attached  STATIC WATER LEVEL  FL below land surface. Date  STATIC WATER BEARING ZONES  Inth at which water was first found R.  From 10 Est Flow Rate SWL  437 740  WELL LOG  Ind Elevation R.  Material From 10 SWL  437 440  AST 440  AST 440  AST 440  ATHERED BASALT 440  AST 440  ATHERED BASALT 440  AST 440  AS	County Jefferson Letitude Longitude mahip 12.00 S Range 12.00 E Subdivision lot 2800 Lot Block cition 33 SW 1/4 NE 1/4 lt Address of Well (or nearest address) lW LASALLE LANE, CULVER with location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface. Date resian Pressure 50 b/sq. in. Date 5/28/1998  WATER BEARING ZONES apth at which water was first found R.  From To Est. Flow Rate SWL  437 744  WELL LOG  und Elevation R.  Material From To SWL  437 444  ATHERED BASALT 440 ATHERED BAS	County Jefferson Letitude Longitude  makip 12.00 S Range 12.00 E Subdivision  iot 2800 Lot Block  stion 33 SW 1/4 NE 1/4  At Address of Well (or nearest address)  W LASALLE LANE, CULVER  rith location indentified must be attached  STATIC WATER LEVEL  FL below land surface. Date  septh at which water was first found R.  From To Est Flow Rate SWL  437 740  WELL LOG  und Elevation R.  Material From To SWL  437 440  AST 740  WEER RED CIRDERS 437  ATHERED BASALT 440  ATHERED BASALT, WYCLAY 451  BELACK VISCOUS BASALT 601  BELACK
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SUDDIVISION  STATIC WATER LEVEL  Ft. below land surface.  PLASALE LANE, CULVER  th location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Date 6/28/1998  VATER BEARING ZONES  th at which water was first found  R.  From To Est Flow Rate SWL  437 740  EST Flow Rate SWL  AST 740  EST FLOW RATE SWL  CEN RED CIRDERS  437 440  FREED BASALT 440  FR	iot 2800 Lot Block  ition 33 SW 1/4 NE 1/4  it Address of Well (or nearest address)  W LASALLE LANE, CULVER  itth location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Date  STATIC WATER LEVEL  Ft. below land surface.  Date  WATER BEARING ZONES  pith at which water was first found  R.  From To Est Flow Rate SWL  437 74d  SWL  437 74d  SWL  CK BASALT  KEN RED CINDERS  ATHERED BASALT  WATER BEARLY  440 448  WATER BEARLY  ATHERED BASALT  WASLAND  SUPCESS  AST 444  ATHERED BASALT  WASLAND  BELACK VISCOUS BASALT  DE BLACK VISCOUS BASALT  BELACK VISCOUS BASALT  BELACK VISCOUS BASALT  DE BLACK VISCOUS BASALT  BELACK VISCOUS BASALT  BEL	ict 2800 Lot Block tition 33 SW 1/4 NE 1/4 Address of Well (or nearest address) IW LASALLE LANE, GULVER with location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface. Date riseian Pressure 50 lb/eq. in. Date 5/28/1998  WATER BEARING ZONES apth at which water was first found R.  From To Est Flow Rate SWL  437 740  WELL LOG  und Elevation R.  Material From To SWL  437 447  ACK BASALT 427 437  OKEN RED CINDERS 437  ATHERED BASALT 440 448 RD BLACK VISCOUS BASALT 450 450 RD BLACK VISCOUS BASALT 450 RD BLACK V	ict 2800 Lot Block stion 33 SW 1/4 NE 1/4 R Address of Well (or nearest address) W LASALLE LANE, GULVER rith location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface. Date STATIC WATER LEVEL  Ft. below land surface. Date STATIC WATER BEARING ZONES spith at which water was first found R.  From To Est Flow Rate SWL  437 740  WELL LOG  Lock BASALT  OKEN RED CINDERS 437 440 ATHERED BASALT  SUBMINISTER  SUBMINISTER  SUBMINISTER  SUBMINISTER  SWL  ATHERED BASALT  GREN RED BASALT  SUBMINISTER  SUBMINISTER  SUBMINISTER  SUBMINISTER  SWL  427 437  SWL  ACK BASALT  SWL  440 440  SUBMINISTER  SWL  440 440  SUBMINISTER  SUBMINISTER  SWL  ATHERED BASALT, WICLAY  450 BLACK VISCOUS BASALT  SON BELACK VIS
R 2800 Lot Block on 33 SW 1/4 NE 1/4 Address of Well (or nearest address) of LASALLE LANE, CULVER th location indentified meet be attached  STATIC WATER LEVEL  Fit below land surface. Date selan Pressure 60 b/sq. in. Date 6/28/1998  VATER BEARING ZONES th at which water was first found R.  From To Est Flow Rate SWL 437 740  ELL LOG d Elevation R.  Material From To SWL 437 440 FRED CIRDLERS 437 440 FRED BASALT 4	ict 2806 Lot Block tion 33 SW 1/4 NE 1/4 t Address of Well (or nearest address) W LASALLE LANE, CULVER tith location indentified mass be attached  STATIC WATER LEVEL  Ft. below land surface.  Date  STATIC WATER LEVEL  Ft. below land surface.  Date  STATIC WATER LEVEL  Ft. below land surface.  Date  STATIC WATER BEARING ZONES  pith at which water was first found  R.  From To Est. Flow Rate SWL  437 740  WELL LOG  and Elevation  R.  Material From To SWL  437 440  AST 440  AST 440  ATHERED BASALT  WELL AST 440  ATHERED BASALT  WELL AST 440  ATHERED BASALT  WELL AST 440  AST 440  ATHERED BASALT  WELL AST 440  AS	ict 2800 Lot Block cition 33 SW 1/4 NE 1/4 It Address of Well (or nearest address) INV LASALLE LANE, CULVER INTER INTERPRETATION INTERPRETATI	ict 2800 Lot Block ction 33 SW 1/4 NE 1/4 Address of Well (or nearest address) W LASALLE LANE, CULVER with location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Date Station Pressure  80 lb/sq. in.  Date 5/28/1968  WATER BEARING ZONES opth at which water was first found  R.  From To Est Flow Rate SWL  437 Y40  WELL LOG  und Elevation  R.  Material From To SWL  437 440  ACK BASALT  OKEN RED CINDERS ATHERED BASALT  CHARLES BASALT
Address of Well (or nearest address)  ALASALLE LANE, CULVER In location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Below land land land land land land land land	Address of Well (or nearest address) W LASALLE LANE, CULVER With location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Date  SHATIC BEARING ZONES  pith at which water was first found  R.  From To Est Flow Rate SWL  437 74d  WELL LOG  and Elevation  R.  Material From To SWL  437 444  ATHERED BASALT  WARLAY 440  ATHERED BASALT  WELL AND BASALT  WELL	Address of Well (or nearest address)  W LABALLE LANE, CULVER  With location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Date  Inselan Pressure  S0 lb/sq. in.  Date S/28/1998  WATER BEARING ZONES  Spith at which water was first found  R.  From To Est Flow Rate SWL  437 740  Waterial From To SWL  AST YAG  WASISTED BASALT  OKEN RED CINDERS  ATHERED BASALT  GUST BAS	Address of Well (or nearest address) W LASALLE LANE, CULVER I'th location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Date Inselan Pressure  SO lo/sq. in.  Date 5/28/1998  WATER BEARING ZONES  Optin at which water was first found  R.  From To Est Flow Rate SWL  437 Y40  WELL LOG  und Elevation  R.  Majerial From To SWL  437 445  ATHERED BASALT  OKEN RED CINDERS  ATHERED BASALT  OKEN HARD BASALT  OKEN HARD BASALT  ATHERED BASALT  ATHERED BASALT  OKEN HARD BASALT  ATHERED BASALT  ATHERED BASALT  OKEN HARD BASALT  ATHERED BASALT  OKEN HARD BASALT  OKEN HARD BASALT  ATHERED BASALT  OKEN HARD BASALT  OKEN HAR
Address of Well (or nearest address)  / LASALLE LANE, CULVER th location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Date 8/28/1998  VATER BEARING ZONES th at which water was first found  R.  From To Est. Flow Rate SWL  437 7/40  ELL LOG d Elevation  R.  Material From To SWL  CEN RED CROCKES  437 440 FRED CROCKES  440 FRED BASALT  GEN RASE 457 440 FRED CROCKES  FILE CON RED CROCKES  CEN RED CROCKES  437 440 FRED CROCKES  440 FRED BASALT  GEN RASE BASALT  GEN RASE BASALT  GEN RED CROCKES  FILE CON RED CROCKES  441 FRED BASALT  GEN RED CROCKES  442 FRED CROCKES  FRED C	Address of Well (or nearest address) W LASALLE LANE, CULVER ith location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Date  STATIC WATER BEARING ZONES  pth at which water was first found  R.  From To Est Flow Rate SWL  437 740  WELL LOG  and Elevation  R.  Material From To SWL  ATTACH ATTACH  WERN RED CINDERS  ATHERED BASALT  WASHARD BASALT  WASHARD BASALT  WELL LOG  ATHERED BASALT  WASHARD BASALT  WELL LOG  BASALT  WASHARD BASALT  WASHARD BASALT  WASHARD BASALT  WASHARD  BELACK VISCOUS BASALT  BELACK VISCOUS B	Address of Well (or nearest address) IW LASALLE LANE, GULVER with location indentified mass be attached  STATIC WATER LEVEL  Ft. below land surface.  Date riselan Pressure  50 lb/sq. in.  Date 5/28/1998  WATER BEARING ZONES apth at which water was first found  R.  From To Est Flow Rate SWL  437 740  WELL LOG  und Elevation  R.  Majerial From To SWL  ACK BASALT  OKEN RED CINDERS  437 446  ATHERED BASALT  GUM HARD BASALT  RO BLACK VISCOUS BASALT  457 458  ATHERED BASALT  WELL LOG  ACK PASSALT  OKEN RED CINDERS  457 446  ATHERED BASALT  ATHERED BASALT  ATHERED BASALT  ATHERED BASALT  WELL LOG  ACK PASSALT  ATHERED BASALT  ATHERED BASALT  ATHERED BASALT  ATHERED BASALT  BUSINESS  BLACK VISCOUS BASALT  BUSINESS  BUSIN	Address of Well (or nearest address) WELLE LANE, CULVER with location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Date  STATIC WATER LEVEL  Ft. below land  R.  From To Est. Flow Rate  STATIC WATER LEVEL  ATTACH LEVEL
ALASALLE LANE, CULVER th location indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Date  State Pressure  State In.  Date 5/28/1998  VATER BEARING ZONES th at which water was first found  R.  From To Est Flow Rate  437 740  ELL LOG  d Elevation  R.  Material From To SWL  SK EASALT  GEN RED CIRDERS  437 440  THERED BASALT  GEN RASE RASE RASE  GEN RASE RASE  GEN RASE RASE  GEN RASE  G	W LASALLE LANE, CULVER  ith location indentified must be attached  STATIC WATER LEVEL  FL below land surface.  Date station Pressure  50 lb/sq. in.  Date 5/28/1998  WATER BEARING ZONES  pith at which water was first found  R.  From To Est. Flow Rate SWL  437 740  WELL LOG  and Elevation  R.  Material From To SWL  ACK EASALT 427 437  WEEN RED CINDERS 437 440  ATHERED BASALT 440 448  WISH MARD BASALT 440 458  ID BLACK VISCOUS BASALT 450 452  DELACK VISCOUS BASALT 450 452	WELL LOG und Elevation  R.  Maieriel	WELL LOG  Waterial From To SWL  AST TREE CRIDERS  WELL LOG  Indication indentified must be attached  STATIC WATER LEVEL  Ft. below land surface.  Date 5/28/1998  WATER BEARING ZONES  Spith at which water was first found R.  From To Est. Flow Rate SWL  437 748  WELL LOG  Indication R.  Material From To SWL  AST 748  WELL LOG  Indication R.  Material From To SWL  AST 748  WELL LOG  Indication R.  Material From To SWL  AST 748  WELL LOG  Indication R.  Material From To SWL  AST 748  WELL LOG  Indication R.  Material From To SWL  AST 748  WELL LOG  Indication R.  Material From To SWL  AST 748
Ft. below land surface. Date  Plate 5/28/1998  PATER BEARING ZONES  th at which water was first found  R.  From To Est. Flow Rate SWL  437 740  ELL LOG  d Elevation  R.  Material From To SWL  EK BARALT  GEN RED CRIDERS  437 440  FRENCE BARALT  GEN RARD BARALT  GEN RARD BARALT  FILL COC ACC ACC ACC ACC ACC ACC ACC ACC ACC	FL below land surface. Date tesian Pressure 80 ib/sq. in. Date 5/28/1998  WATER BEARING ZONES pith at which water was first found R. From To Est. Flow Rate SWL 437 740  From To Est. Flow Rate SWL 437 740  Waterial From To SWL 437 437 American Arhered BASALT 440 448 ATHERED BASALT 440 448 ATHERED BASALT 440 458 ID BLACK VISCOUS BASALT 450 562 ATHERED BASALT 450 562 ATTERED BASALT 450 562	Ft. below land surface. Date riselan Pressure 50 b/sq. in. Date 5/28/1998  WATER BEARING ZONES spith at which water was first found R.  From To Est. Flow Rate SWL 437 746  WELL LOG und Elevation R.  Material From To SWL ACK BASALT 427 437 OKEN RED CINDERS 437 446 ATHERED BASALT 440 448 RD BLACK VISCOUS BASALT 450 444 RD BLACK BASALT 450 444	Ft. below land surface. Date riselan Pressure 60 b/sq. in. Date 6/28/1998  WATER BEARING ZONES spith at which water was first found R.  From To Est. Flow Rate SWL 437 740  WELL LOG und Elevation R.  Material From To SWL ACK BASALT 427 437  OKEN RED CIRDERS 437 446 ATHERED BASALT 440 448 RD BLACK VISCOUS BASALT 450 452 RD BLACK VISCOUS BASALT 607 662
Ft. below land surface. Date plan Pressure 60 kb/sq. in. Date 6/28/1998  VATER BEARING ZONES that which water was first found R.  From To Est Flow Rate SWL  437 748  FLL LOG d Elevation R.  Material From To SWL  EX BASALT 427 437 CEN RED CIRDIERS 437 448 THERED BASALT 448 FBLACK VISCOUS BASALT 448 FBLACK VISCOUS BASALT 448 FBLACK VISCOUS BASALT 448 FBLACK VISCOUS BASALT 448	Ft. below land surface.  Date S/28/1998  WATER BEARING ZONES pth at which water was first found R.  From To Est. Flow Rate SWL  437 74d  SWL  437 74d  From To SWL  437 74d  SWL  437 440  GCK BASALT  WEN RED CINDERS  ATHERED BASALT  WAN HARD BASALT  WELL LOG  ATHERED BASALT  WAN HARD BASALT  WELL LOG  R.  SWL  427 437  WEN RED CINDERS  437 440  ATHERED BASALT  WAN HARD BASALT  WELL LOG  R.  SWL  440 440  450 450  BELACK VISCOUS BASALT  DE BLACK VISCOUS BASALT  DE BLAC	Ft. below land surface. Date riselan Pressure S0 b/aq. in. Date 5/28/1998  WATER BEARING ZONES apth at which water was first found R. From To Est Flow Rate SWL 437 746  WELL LOG und Elevation R.  Material From To SWL ACK BASALT 427 437 OKEN RED CINDERS 437 444 ATHERED BASALT 440 448 RD BLACK VISCOUS BASALT 450 450 RD	Ft. below land surface. Date riselan Pressure 50 b/aq. in. Date 5/28/1998  WATER BEARING ZONES opth at which water was first found R. From To Est Flow Rate SWL 437 Y40  WELL LOG and Elevation R.  Material From To SWL CK BASALT 427 437  OKEN RED CINDERS 437 444 ATHERED BASALT 440 448 DISHACK VISCOUS BASALT 458 454 ATHERED BASALT, W/CLAY 458 664 ATHERED BASALT, W/CLAY 458
Ft. below land surface. Date plan Pressure 60 kb/sq. in. Date 6/28/1998  VATER BEARING ZONES that which water was first found R.  From To Est Flow Rate SWL  437 748  FLL LOG d Elevation R.  Material From To SWL  EX BASALT 427 437 CEN RED CIRDIERS 437 448 THERED BASALT 448 FBLACK VISCOUS BASALT 448 FBLACK VISCOUS BASALT 448 FBLACK VISCOUS BASALT 448 FBLACK VISCOUS BASALT 448	Ft. below land surface.  Date S/28/1998  WATER BEARING ZONES pth at which water was first found R.  From To Est. Flow Rate SWL  437 74d  SWL  437 74d  From To SWL  437 74d  SWL  437 440  GCK BASALT  WEN RED CINDERS  ATHERED BASALT  WAN HARD BASALT  WELL LOG  ATHERED BASALT  WAN HARD BASALT  WELL LOG  R.  SWL  427 437  WEN RED CINDERS  437 440  ATHERED BASALT  WAN HARD BASALT  WELL LOG  R.  SWL  440 440  450 450  BELACK VISCOUS BASALT  DE BLACK VISCOUS BASALT  DE BLAC	Ft. below land surface. Date riselan Pressure S0 b/aq. in. Date 5/28/1998  WATER BEARING ZONES apth at which water was first found R. From To Est Flow Rate SWL 437 746  WELL LOG und Elevation R.  Material From To SWL ACK BASALT 427 437 OKEN RED CINDERS 437 444 ATHERED BASALT 440 448 RD BLACK VISCOUS BASALT 450 450 RD	Ft. below land surface. Date riselan Pressure 50 b/aq. in. Date 5/28/1998  WATER BEARING ZONES opth at which water was first found R. From To Est Flow Rate SWL 437 Y40  WELL LOG and Elevation R.  Material From To SWL CK BASALT 427 437  OKEN RED CINDERS 437 444 ATHERED BASALT 440 448 DISHACK VISCOUS BASALT 458 454 ATHERED BASALT, W/CLAY 458 664 ATHERED BASALT, W/CLAY 458
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th at which water was first found R.  Tom To Est Flow Rate SWL  437 740  ELL LOG  d Elevation R.  Material From To SWL  EX BABALT 427 437  CEN RED CINDERS 437 440  THEREO BASALT 440  HARD BARALT 440  BLACK VISCOUS BASALT 445  BLACK VISCOUS BASALT 445	Prom To Est. Flow Rate SWL 457 740  From To Est. Flow Rate SWL 457 740  From To Est. Flow Rate SWL 457 740  From To SWL 457 740  Material From To SWL 457 447 457 447 447 447 447 447 447 447	VELL LOG  AST 740  VELL LOG  und Elevation R.  Material From To SWL  ACK BASALT 427  OKEN RED CINDERS 437  ATHERED BASALT 440  ATHERED BASALT 440  ATHERED BASALT 450  RD BLACK VISCOUS BASALT 450  RED BLACK BASALT	Prom To Est Flow Rate SWL 437 740  VELL LOG ASST TO SWL 437 TO SWL 447 ASST 447 A
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Material   From   To   SWL	Material From To SWL  KCK BABALT 427 437  KEN RED CINDERS 437 440  ATHERED BABALT 440 448  KUB HARD BABALT 440 458  ED BLACK VISCOUS BABALT 450 450	Majorial From To SWL ACK BASALT 427 437 OKEN RED CINDERS 437 446 ATHERED BASALT 440 448 OKEN HARD BASALT 440 458 RD BLACK VISCOUS BASALT 450 450 450 RD BLACK VISCOUS BASALT 450 450 450 450 450 450 450 450 450 450	Material From To SWL  ACK BASALT 427 437  OKEN RED CINDERS 437 446  ATHERED BASALT 440 448  OKEN HARD BASALT 440 458  RD BLACK VISCOUS BASALT 450 450
RED CINDERS 437 446 ATHERED BABALT 448 448 DIUM HARD BABALT 448 468 ATHERED BABALT 450 450 ATHERED BABALT, WCLAY 450 450 ATHERED BABALT, WCLAY 450 450 BLACK VISCOUS BABALT 500 540 RY HARD BABALT, FRACTURE 554 608 RY HARD BABALT, FRACTURE 554 608  | Material From To SWL  ACK BASALT 427 437  OKEN RED CINDERS 437 446  ATHERED BASALT 440 448  OKEN HARD BASALT 440 458  RD BLACK VISCOUS BASALT 450 450  ATHERED BASALT, WICLAY 450 450  ID BLACK VISCOUS BASALT 500 554  ID BLACK VISCOUS BASALT 500 554  ID BLACK BASALT, FRACTURE 554 508  IY HARD BASALT 500 518   | Majorial From To SWL ACK BABALT 427 437 OKEN RED CINDERS 437, 446 ATHERED BABALT 448 448 ONUM HARD BABALT 448 468 ATHERED BABALT, 448 468 ATHERED BABALT, 458 484 ATHERED BABALT, WCLAY 458 484 ATHERED BABALT, WCLAY 458 468 TO BLACK VISCOUS BABALT 504 564 TO BLACK BABALT, FRACTURE 584 608 TO HARD BABALT, FRACTURE 584 608 TO HARD BABALT 504 618 TO BLACK BABALT 504 618   | Material From To SVML  ACK BASALT 427 437  OKEN RED CINDERS 437 440  ATHERED BASALT 440 448  DIUM HARD BASALT 440 448  ATHERED BASALT 440 448  ATHERED BASALT 440 448  ATHERED BASALT 440 448  RD BLACK VISCOUS BASALT 450 454  ATHERED BASALT, WICLAY 450 504  RD BLACK VISCOUS BASALT 500 564  RD BLACK BASALT, FRACTURE 584 608  RV HARD BASALT 500 518  RD BLACK BASALT 500 518  RD BLACK BASALT 500 618  RD BLACK BASALT 518  RD BLACK BASALT, CLAY 584 684   | Material From To SWL  ACK BASALT 427 437  OKEN RED CINDERS 437 440  LATHERED BASALT 440 448  EDIUM HARD BASALT 440 455  RD BLACK VISCOUS BASALT 459 454  CATHERED BASALT, WICLAY 459 454  CATHERED BASALT, FRACTURE 554 608  RY HARD BASALT, FRACTURE 554 608  RY HARD BASALT, GLAY 651 652  RD BLACK BASALT, GLAY 651 652  RD BLACK BASALT, GLAY 651 652  RD BLACK BASALT, GLAY 654 654  
  | Majorial From To SVML ACK BASALT 427 437  ACK BASALT 427 437  ROKEN RED CINDERS 437 440  LATHERED BASALT 440 448  EDURI HARD BASALT 448 454  LATHERED BASALT 448 454  LATHERED BASALT, WICLAY 458 504  IRD BLACK VISCOUS BASALT 500 564  IRD BLACK VISCOUS BASALT 500 564  IRD BLACK VISCOUS BASALT 500 564  IRD BLACK SASALT, FRACTURE 580 608  RY HARD BASALT 500 518  RD BLACK BASALT 501 568 618  RD BLACK BASALT, CLAY 564 668  ACTURED HARD BLACK BASAL 558 658   | Majorial From To SVM.  ACK BASALT 437 437  ACK BASALT 437 445  COKEN RED CIRDERS 457 446  LATHERED BASALT 448 458  EATHERED BASALT 448 458  EATHERED BASALT 448 458  EATHERED BASALT, W/CLAY 458 504  RD BLACK VISCOUS BASALT 500 554  RD BLACK VISCOUS BASALT 500 554  RD BLACK RASALT, FRACTURE 588 508  RY HARD BASALT 500 518  RY HARD BASALT 501 518  RD BLACK BASALT 518 518  RD BLACK BASALT 518 518  GEA 658  COKEN HARD BLACK BASALT 558 558  | Majorial From To SWL  ACK BARALT 427 437  OKEN RED CINDERS 457 446  LATHERED BARALT 448 458  RD BLACK VISCOUS BARALT 448 454  RD BLACK VISCOUS BARALT 564 562  RD BLACK VISCOUS BARALT 564 562  RD BLACK VISCOUS BARALT 564 562  RD BLACK BARALT, FRACTURE 584 668  RY HARD BARALT 601 618  RY HARD BARALT 618 684  RD BLACK BARALT 618 684  RD BLACK BARALT 618 685  RO BLACK BARALT 618 685  RO BLACK BARALT 618 685  OKEN HARD BLACK BARALT 688 688   | Majorial From To SWL  ACK BARALT 427 437  OKEN RED CINDERS 457, 446  ATHERED BARALT 440 448  DUM HARD BARALT 440 458  RD BLACK VISCOUS BARALT 450 450  RD BLACK VISCOUS BARALT 500 554  RD BLACK BARALT, WICLAY 450 500  RD BLACK BARALT, FRACTURE 558 600  RY HARD BARALT 600 618  RD BLACK BARALT, CLAY 610 654  RD BLACK BARALT, CLAY 650 658  CO BLACK BARALT, CLAY 650 658  RED BLACK BARALT, CLAY 650 658  CO BLACK BARALT, CLAY 650 658  CO BLACK BARALT, CLAY 650 658  KEN HARD BLACK BARALT, 650 702   | Majorial From To SWL  ACK BARALY 427 437  OKEN RED CRIDERS 457, 446  LATHERED BARALY 440 448  DEM HAND BARALY 440 458  RD BLACK VISCOUS BARALY 450 460  RD BLACK VISCOUS BARALY 560 564  RD BLACK VISCOUS BARALY 560 564  RD BLACK BARALY, FRACTURE 584 608  RY HARD BARALY 500 618  RO BLACK BARALY, CLAY 510 658  OKEN HARD BLACK BARALY 510 658  OKEN HARD BLACK BARALY 524 658  OKEN HARD BLACK BARALY 534 658  OKEN HARD BLACK BARALY 658 762   | Majorial From To SWL  ACK BASALT  ACK BASA | Majorial From To SWAL  ACK BASALT 427 437  COKEN RED CINDERS 437 446  EATHERED BASALT 448 448  EDIUM HARD BASALT 448 458  EATHERED BASALT 448 458  EATHERED BASALT 448 458  EATHERED BASALT 448 458  EATHERED BASALT 459 454  EATHERED BASALT 459 454  EATHERED BASALT 560 661  RO BLACK
VISCOUS BASALT 560 618  RY HARD BASALT 651 684  RY HARD BASALT 651 684  EATHERED BASALT 651 684  COKEN HARD BLACK BASAL 684 684  COKEN HARD BLACK BASALT 557 684  COKEN HARD BLACK BASALT 557 684  COKEN HARD BLACK BASALT 570 762  COTURED BASALT 762 713  RD BLACK VISCOUS BASALT 762 713  RD BLACK VISCOUS BASALT 770 7713  | ACK BABALT  ACK BA | OUND Elevation R.  Material From To SWAL  ACK BASALT 427 437  ROKEN RED CINDERS 437 440  EATHERED BASALT 440  EDIGN HARD BASALT 440  EDIGN HARD BASALT 440  EATHERED BASALT 440  EATHERED BASALT, WICLAY 450  | nd Elevation R.  Material From To SWL.  CK EASALT 427 437  | Majorial From To SWL AGK BASALT 427 437 DKEN RED CINDERS 437 440   | und Elevation R.  Material From To SWL  ACK BASALT 437   | ound Elevation R.  Material From To SWL  ACK EASALT 437   
  | ound Elevation R.  Material From To SWL  | ound Elevation R.  Material From To SWL  | ound Elevation R.  | ound Elevation R.   
  | and Elevation ft.  | ound Elevation R.  | VELL LOG   | WELL LOG   |
| Material   From   To   SWL   | Material From To SWL  KCK BABALT 427 437  KEN RED CINDERS 437 440  ATHERED BABALT 440 448  KUB HARD BABALT 440 458  ED BLACK VISCOUS BABALT 450 450  | Majorial From To SWL ACK BASALT 427 437 OKEN RED CINDERS 437 446 ATHERED BASALT 440 448 OKEN HARD BASALT 440 458 RD BLACK VISCOUS BASALT 450 450 450 RD BLACK VISCOUS BASALT 450 450 450 450 450 450 450 450 450 450   | Material From To SWL  ACK BASALT 427 437  OKEN RED CINDERS 437 446  ATHERED BASALT 440 448  OKEN HARD BASALT 440 458  RD BLACK VISCOUS BASALT 450 450   | Misicial From To SWE AGK EABALT 427 437  DREN RED CRIDERS 437 440  ATHERED BASALT 440 448  DRIM HARD SASALT 440 458  ATHERED BASALT 440 458  ATHERED BASALT 450 458  ATHERED BASALT, WICLAY 450 564  ATHERED BASALT, WICLAY 450 564  ATHERED BASALT, FRACTURE 580 608  | Majorial From To SWL ACK BABALT 427 437 OKEN
RED CINDERS 437 446 ATHERED BABALT 448 448 DIUM HARD BABALT 448 468 ATHERED BABALT 450 450 ATHERED BABALT, WCLAY 450 450 ATHERED BABALT, WCLAY 450 450 BLACK VISCOUS BABALT 500 540 RY HARD BABALT, FRACTURE 554 608 RY HARD BABALT, FRACTURE 554 608  | Material From To SWL  ACK BASALT 427 437  OKEN RED CINDERS 437 446  ATHERED BASALT 440 448  OKEN HARD BASALT 440 458  RD BLACK VISCOUS BASALT 450 450  ATHERED BASALT, WICLAY 450 450  ID BLACK VISCOUS BASALT 500 554  ID BLACK VISCOUS BASALT 500 554  ID BLACK BASALT, FRACTURE 554 508  IY HARD BASALT 500 518   | Majorial From To SWL ACK BABALT 427 437 OKEN RED CINDERS 437, 446 ATHERED BABALT 448 448 ONUM HARD BABALT 448 468 ATHERED BABALT, 448 468 ATHERED BABALT, 458 484 ATHERED BABALT, WCLAY 458 484 ATHERED BABALT, WCLAY 458 468 TO BLACK VISCOUS BABALT 504 564 TO BLACK BABALT, FRACTURE 584 608 TO HARD BABALT, FRACTURE 584 608 TO HARD BABALT 504 618 TO BLACK BABALT 504 618   | Material From To SVML  ACK BASALT 427 437  OKEN RED CINDERS 437 440  ATHERED BASALT 440 448  DIUM HARD BASALT 440 448  ATHERED BASALT 440 448  ATHERED BASALT 440 448  ATHERED BASALT 440 448  RD BLACK VISCOUS BASALT 450 454  ATHERED BASALT, WICLAY 450 504  RD BLACK VISCOUS BASALT 500 564  RD BLACK BASALT, FRACTURE 584 608  RV HARD BASALT 500 518  RD BLACK BASALT 500 518  RD BLACK BASALT 500 618  RD BLACK BASALT 518  RD BLACK BASALT, CLAY 584 684   | Material From To SWL  ACK BASALT 427 437  OKEN RED CINDERS 437 440  LATHERED BASALT 440 448  EDIUM HARD BASALT 440 455  RD BLACK VISCOUS BASALT 459 454  CATHERED BASALT, WICLAY 459 454  CATHERED BASALT, FRACTURE 554 608  RY HARD BASALT, FRACTURE 554 608  RY HARD BASALT, GLAY 651 652  RD BLACK BASALT, GLAY 651 652  RD BLACK BASALT, GLAY 651 652  RD BLACK BASALT, GLAY 654 654  
  | Majorial From To SVML ACK BASALT 427 437  ACK BASALT 427 437  ROKEN RED CINDERS 437 440  LATHERED BASALT 440 448  EDURI HARD BASALT 448 454  LATHERED BASALT 448 454  LATHERED BASALT, WICLAY 458 504  IRD BLACK VISCOUS BASALT 500 564  IRD BLACK VISCOUS BASALT 500 564  IRD BLACK VISCOUS BASALT 500 564  IRD BLACK SASALT, FRACTURE 580 608  RY HARD BASALT 500 518  RD BLACK BASALT 501 568 618  RD BLACK BASALT, CLAY 564 668  ACTURED HARD BLACK BASAL 558 658   | Majorial From To SVM.  ACK BASALT 437 437  ACK BASALT 437 445  COKEN RED CIRDERS 457 446  LATHERED BASALT 448 458  EATHERED BASALT 448 458  EATHERED BASALT 448 458  EATHERED BASALT, W/CLAY 458 504  RD BLACK VISCOUS BASALT 500 554  RD BLACK VISCOUS BASALT 500 554  RD BLACK RASALT, FRACTURE 588 508  RY HARD BASALT 500 518  RY HARD BASALT 501 518  RD BLACK BASALT 518 518  RD BLACK BASALT 518 518  GEA 658  COKEN HARD BLACK BASALT 558 558  | Majorial From To SWL  ACK BARALT 427 437  OKEN RED CINDERS 457 446  LATHERED BARALT 448 458  RD BLACK VISCOUS BARALT 448 454  RD BLACK VISCOUS BARALT 564 562  RD BLACK VISCOUS BARALT 564 562  RD BLACK VISCOUS BARALT 564 562  RD BLACK BARALT, FRACTURE 584 668  RY HARD BARALT 601 618  RY HARD BARALT 618 684  RD BLACK BARALT 618 684  RD BLACK BARALT 618 685  RO BLACK BARALT 618 685  RO BLACK BARALT 618 685  OKEN HARD BLACK BARALT 688 688   | Majorial From To SWL  ACK BARALT 427 437  OKEN RED CINDERS 457, 446  ATHERED BARALT 440 448  DUM HARD BARALT 440 458  RD BLACK VISCOUS BARALT 450 450  RD BLACK VISCOUS BARALT 500 554  RD BLACK BARALT, WICLAY 450 500  RD BLACK BARALT, FRACTURE 558 600  RY HARD BARALT 600 618  RD BLACK BARALT, CLAY 610 654  RD BLACK BARALT, CLAY 650 658  CO BLACK BARALT, CLAY 650 658  RED BLACK BARALT, CLAY 650 658  CO BLACK BARALT, CLAY 650 658  CO BLACK BARALT, CLAY 650 658  KEN HARD BLACK BARALT, 650 702   | Majorial From To SWL  ACK BARALY 427 437  OKEN RED CRIDERS 457, 446  LATHERED BARALY 440 448  DEM HAND BARALY 440 458  RD BLACK VISCOUS BARALY 450 460  RD BLACK VISCOUS BARALY 560 564  RD BLACK VISCOUS BARALY 560 564  RD BLACK BARALY, FRACTURE 584 608  RY HARD BARALY 500 618  RO BLACK BARALY, CLAY 510 658  OKEN HARD BLACK BARALY 510 658  OKEN HARD BLACK BARALY 524 658  OKEN HARD BLACK BARALY 534 658  OKEN HARD BLACK BARALY 658 762   | Majorial From To SWL  ACK BASALT  ACK BASA | Majorial From To SWAL  ACK BASALT 427 437  COKEN RED CINDERS 437 446  EATHERED BASALT 448 448  EDIUM HARD BASALT 448 458  EATHERED BASALT 448 458  EATHERED BASALT 448 458  EATHERED BASALT 448 458  EATHERED BASALT 459 454  EATHERED BASALT 459 454  EATHERED BASALT 560 661  RO BLACK
VISCOUS BASALT 560 618  RY HARD BASALT 651 684  RY HARD BASALT 651 684  EATHERED BASALT 651 684  COKEN HARD BLACK BASAL 684 684  COKEN HARD BLACK BASALT 557 684  COKEN HARD BLACK BASALT 557 684  COKEN HARD BLACK BASALT 570 762  COTURED BASALT 762 713  RD BLACK VISCOUS BASALT 762 713  RD BLACK VISCOUS BASALT 770 7713  | ACK BABALT  ACK BA | OUND Elevation R.  Material From To SWAL  ACK BASALT 427 437  ROKEN RED CINDERS 437 440  EATHERED BASALT 440  EDIGN HARD BASALT 440  EDIGN HARD BASALT 440  EATHERED BASALT 440  EATHERED BASALT, WICLAY 450  | nd Elevation R.  Material From To SWL.  CK EASALT 427 437  | Majorial From To SWL AGK BASALT 427 437 DKEN RED CINDERS 437 440   | und Elevation R.  Material From To SWL  ACK BASALT 437   | ound Elevation R.  Material From To SWL  ACK EASALT 437   
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  | and Elevation ft.  | ound Elevation R.  | VELL LOG   | WELL LOG   |
| Meterial From To SWL  SK BASALT 427 437  VEN RED CINDERS 437 440  THEREO BASALT 440 448  UM HARD BASALT 440 458  FELACK VISCOUS BASALT 448   | Majorial From To SVVL  CCK BASALY 427 437  PREN RED CINDERS 437 440  ATHERED BASALT 440 448  PUBLICK VISCOUS BASALT 458 454  THERED BASALT, W/CLAY 458 454  D BLACK VISCOUS BASALT 607 622   | Majorial From To SWL ACK BASALT 427 437 OKEN RED CINDERS 437 444 ATHERED BASALT 440 448 DISM HARD BASALT 440 458 RD BLACK VISCOUS BASALT 450 450   | Material From To SWL ACK BASALT 427 437  OKEN RED CINDERS 437 444  ATHERED BASALT 440 448  OKEN HARD BASALT 440 458  RD BLACK VISCOUS BASALT 458 454  ATHERED BASALT, WICLAY 458 454  AD BLACK VISCOUS BASALT 604 664  AD BLACK VISCOUS BASALT 604 664   | Majorial   From   To   SVVL  
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BARALY 440 448  EATHERED BARALY 440 458  RD BLACK VISCOUS BARALY 440 458  RD BLACK VISCOUS BARALY 500 560  RD BLACK BARALY, WICLAY 440 500  RD BLACK BARALY, FRACTURE 580 660  RY HARD BARALY 600 618  RY HARD BARALY 618 680  RY HARD BARALY 618 680  RO BLACK BARALY 618 680  RO BLACK BARALY 618 680  ACTURED HARD BLACK BARAL 680 680  OKEN HARD BLACK BARALY 520 680  | Maiorial From To SWL  ACK BARALT  ACK BARA  | Majorial From To SWL  ACK BASALY 427 437  ICKEN RED CRODERS 437 446  LATHERED BASALY 440 448  IDMINI HARD BASALY 448 458  RD BLACK VISCOUS BASALY 448 456  RD BLACK VISCOUS BASALY 448 464  ACH RED BASALY, WICLAY 448 464  RD BLACK VISCOUS BASALY 564 566  RY HARD BASALY, FRACTURE 584 668  RY HARD BASALY 601 618  RD BLACK BASALY 618 684  RD BLACK BASALY 618 684  RO BLACK BASALY 618 684  RO BLACK BASALY 654 664  RO BLACK BASALY 655 654  OKEN HARD BLACK BASALY 657 658  OKEN HARD BLACK BASALY 658 654  OKEN HARD BLACK BASALY 702 713  RD BLACK VISCOUS BASALY 702 713  RD BLACK VISCOUS BASALY 713 720   | Material From To SWL  ACK BARALT 427 437  KOKEN RED CIRCLES 437 440  EATHERED BARALT 440 442  EDIUM HARD BARALT 441 484  URD BLACK VISCOUS BARALT 458 484  EATHERED BARALT, WICLAY 489 504   | Material From To SWL CK EASALY 427 437   | Material From To SWL ACK BASALT 427 437 OKEN RED CINDERS 437 446   | Majorial From To SWL ACK EASALT 437   
  | Material From To SWL ACK BASALY 427 437  | Maierial From To SWL   | Material From To SWL   |  |  
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| EX BASALY 427 437  CEN RED CINOERS 437 440  THEREO BASALY 440 448  UNI HARD BASALY 440 455  BEACK VISCOUS BASALY 445 455   | CK BASALT 427 437  XEN RED CRIDERS 437 446  ATHERED BASALT 440 448  XIM HARD BASALT 448 458  ED BLACK VISCOUS BASALT 458 454  THERED BASALT, W/CLAY 458 504  ED BLACK VISCOUS BASALT 400 504  ED BLACK VISCOUS BASALT 400 504  | ACK BASALY 427 437 OKEN RED CRIDERS 437 446 ATHERED BASALY 440 448 DUM HARD BASALY 440 458 ATHERED BASALY 440 458 ATHERED BASALY 440 458 ATHERED BASALY, WICLAY 450 450 BLACK VISCOUS BASALY 450 450 BUSACK VISCOUS BASALY 450 450   | ACK BASALT 427 437  OKEN RED CRIDERS 437 446  ATHERED BASALT 440 448  OKEN HARD BASALT 448 458  ATHERED BASALT 448 458  ATHERED BASALT, WICLAY 458 454  ATHERED BASALT, WICLAY 458 564  AD BLACK VISCOUS BASALT 500 842  | ACK BASALT 427 437 OKEN RED CRIDERS 437 440 ATHERED BASALT 440 448 OKEN HARD BASALT 440 448 OKEN HARD BASALT 440 448 OKEN HARD BASALT 450 450 ATHERED BASALT, WICLAY 450 564 OKEN VISCOUS BASALT 504 564 OKEN VISCOUS BASALT 504 564 OKEN VISCOUS BASALT 504 564   
   | ACK EASALT 427 437 OKEN RED CROCKS 437 446 ATHERED BASALT 440 448 DUSH HARD BASALT 440 458 RD BLACK VISCOUS BASALT 450 564 RD BLACK VISCOUS BASALT 500 554 RD BLACK VISCOUS BASALT 500 554 RD BLACK BASALT, FRACTURE 584 608 RY HARD BASALT, FRACTURE 584 608   | ACK BASALT 427 437  OKEN RED CRIDERS 437 446  ATHERED BASALT 440 448  OKEN HARD BASALT 440 448  OKEN HARD BASALT 440 448  ATHERED BASALT, WICLAY 450 500  OKEN HARD BASALT, WICLAY 450 500  OKEN HARD BASALT, WICLAY 450 500  OKEN VIGCOUS BASALT 500 554  OKEN VIGCOUS BASALT 500 564  OKEN BASALT, FRACTURE 556 508  OKEN BASALT 500 518   | ACK BASALT 427 437 OKEN RED CRODERS 457 446 ATHERED BASALT 440 448 DUM HARD BASALT 440 458 RD BLACK VISCOUS BASALT 450 450 RD BLACK VISCOUS BASALT 500 564 RD BLACK BASALT, FRACTURE 584 608 RY HARD BASALT, FRACTURE 585 608 RY HARD BASALT 500 618 RO BLACK BASALT 500 618 RO BLACK BASALT 500 618  | ACK BABALT  ACK BABALT  ACK BABALT  CKEN RED CROCERS  AST 446  ATHERED BABALT  ATHERED BABALT  ATHERED BABALT  ATHERED BABALT  ATHERED BABALT  ATHERED BABALT, WILLAY  ATHERED BABALT, WILLAY  ATHERED BABALT, WILLAY  ATHERED BABALT, WILLAY  ATHERED BABALT, FRACTURE  BABALT  RD BLACK VISCOUS BABALT  BABALT  RD BLACK BABALT, FRACTURE  BABALT  RD BLACK BABALT   | ACK BASALT 427 437  ICKEN RED CROERS 437 446  LATHERED BASALT 440 448  DELACK VISCOUS BASALT 448 454  ATHERED BASALT, WICLAY 450 450  ATHERED BASALT, WICLAY 450 450  RO BLACK VISCOUS BASALT 500 540  RV HARD BASALT, FRACTURE 584 808  RV HARD BASALT 600 611  RD BLACK BASALT 611 682  RD BLACK BASALT 612 684  RD BLACK BASALT 613 684   | ACK BABALT 427 437  ROKEN RED CIRDERS 437 446  EATHERED BABALT 446 448  EDRIN HARD BABALT 448 454  URD BLACK VISCOUS BABALT 458 454  EATHERED BABALT, WICLAY 457 504  IRD BLACK VISCOUS BABALT 560 561  IRD BLACK BABALT, FRACTURE 554 508  RY HARD BABALT, FRACTURE 557 608 618  RO BLACK BABALT 518 658 658  RO BLACK BABALT 518 658 658  ACTURED HARD BLACK BABAL 558 658   
  | ACK BARALY  ACK BARALY  (OKEN RED CIRCLERS  AST 440  LATHERED BARALY  ACK BARALY, WICLAY  ACK BARALY, WICLAY  ACK BARALY, WICLAY  ACK BARALY  ACK BARA | ACK BABALT  ACK BABALT  OKEN RED CROCERS  AST 440  ACK BABALT  ACK BABALT  ACK BABALT  ACK BABALT  ACK BABALT  ACK BABALT  ACK VISCOUS BABALT  ACK VISCOUS BABALT  ACK BABALT  | ACK BABALT OKEN RED CRODERS 457 440 ATHERED BABALT ATHERED BABALT ATHERED BABALT ATHERED BABALT ATHERED BABALT ATHERED BABALT ATHERED BABALT, WICLAY AD BLACK VISCOUS BABALT ATHERED BABALT, WICLAY AD BLACK VISCOUS BABALT ATHERED BABALT, WICLAY AD BLACK BABALT, FRACTURE 584 608 IV HARD BABALT 600 618 618 618 654 654 655 GTURED HARD BLACK BABALT 656 656 657 657  | ACK EASALT  ACK EASALT  OKEN RED CINDERS  457  440  AATHERED BASALT  ACK USE OUS EASALT  ACK E | ACK BASALY 427 437  (OKEN RED CIRCHES 437 446  EATHERED BASALY 440 448  EDUM HARD BASALY 440 448  EDUM HARD BASALY 440 458  RD BLACK VISCOUS BASALY 448 454  ATHERED BASALY, WICLAY 458 504  RD BLACK VISCOUS BASALY 500 564  RD BLACK BASALY, FRACTURE 584 608  RY HARD BASALY 601 618  RY HARD BASALY 618 686  RY HARD BLACK BASALY 618 687  RD BLACK BASALY 618 687  RD BLACK BASALY 618 687  RO BLACK BASALY 658 687  OKEN HARD BLACK BASALY 670 702  TIS  | ACK BASALT  ACK BASALT  COKEN RED CROCERS  LATHERED BASALT  ACH BASALT  ACT BA  | ACK BABALT 427 437  COKEN RED CRIDERS 437 446  LATHERED BABALT 440 448  DOUBLING HARD BABALT 440 448  ATHERED BABALT 440 458  RD BLACK VISCOUS BABALT 440 456  RD BLACK VISCOUS BABALT 500 564  RD BLACK VISCOUS BABALT 500 618  RY HARD BABALT 600 618  RY HARD BABALT 610 618  RD BLACK BABALT 610 658  RO BLACK BABALT 610 658  RO BLACK BABALT 650 658  OKEN HARD BLACK BABALT 650 654  OKEN HARD BLACK BABALT 702 713  RD BLACK VISCOUS BABALT 702 713  RD BLACK VISCOUS BABALT 702 713  RD BLACK VISCOUS BABALT 713 720  | ACK BABALY 427 437  KOKEN RED CROSERS 437 440  EATHERED BABALY 440 448  EDUSH HARD BABALY 448 484  URD BLACK VISCOUS BABALY 488 484  EATHERED BABALY, WICLAY 488 504   | CK BASALY 437  
   | CK BASALY 457  OKEN RED CINDERS 457  457   | ACK BASALT 437   | ACK BASALY 437   | 7.2 70 3772  | 7.2 70 3772   
  | Manerial From To SWE   | Marienal From To Chia  |  | 1200   | 1000   
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   | OREN RED CINDERS 457 446 ATHERED BABALT 440 448 DIUM HARD BABALT 448 468 RD BLACK VISCOUS BABALT 458 484 ATHERED BABALT, WICLAY 458 464 ATHERED BABALT, WICLAY 450 664 RD BLACK VISCOUS BABALT 500 642 RD BLACK BABALT, FRACTURE 584 608 RY HARD BABALT, FRACTURE 584 608 RY HARD BABALT 500 618  | OKEN RED CIRDERS 437 440 ATHERED BASALT 440 448 DUM HARD BASALT 440 458 RD BLACK VISCOUS BASALT 458 454 ATHERED BASALT, WICLAY 458 454 RD BLACK VISCOUS BASALT 500 554 RD BLACK VISCOUS BASALT 500 554 RD BLACK BASALT, FRACTURE 554 508 RY HARD BASALT 500 518  | OKEN RED CIRDERS 457 446 ATHERED BASALT 446 448 DRUM HARD BASALT 448 468 RD BLACK VISCOUS BASALT 458 464 ATHERED BASALT, WICLAY 458 464 RD BLACK VISCOUS BASALT 504 564 RD BLACK BASALT, FRACTURE 588 608 RY HARD BASALT 504 618 RD BLACK BASALT 504 618  | CKEN RED CINDERS 457 446  ATHERED BABALY 440 441  DRUM HARD BABALY 448 458  RD BLACK VISCOUS BABALY 459 454  ATHERED BABALT, WICLAY 459 454  ATHERED BABALT, WICLAY 500 564  RD BLACK VISCOUS BABALT 500 564  RD BLACK BABALT, FRACTURE 554 608  RV HARD BABALT 500 518  RD BLACK BABALT 518 658 658  RD BLACK BABALT 518 658 658  RD BLACK BABALT, CLAY 554 658   | COKEN RED CIRDERS 457 446 LATHERED BABALY 460 448 CHUN HARD BABALY 460 448 RD BLACK VISCOUS BABALY 460 468 ATHERED BABALY, WALLAY 460 468 ATHERED BABALY, WALLAY 460 460 ATHERED BABALY, FRACTURE 564 660 RY HARD BABALY, FRACTURE 560 610 RY HARD BABALY 660 610 RD BLACK BABALY 661 662 RD BLACK BABALY 663 654   
  | COKEN RED CINDERS 457 440 EATHERED BABALT 460 44F EDUM HARD BABALT 460 44F EDUM HARD BABALT 468 454 URD BLACK VISCOUS BABALT 468 454 EATHERED BABALT, WICLAY 468 454 EATHERED BABALT, WICLAY 469 454 URD BLACK VISCOUS BABALT 460 464 URD BLACK BABALT, FRACTURE 564 666 ET BABALT 460 618 ET BLACK BABALT 461 462 ET BLACK BABALT 462 463 ET BLACK BABALT 463 463 ET BLACK BABALT 463 463 ET BLACK BABALT 464 465 ET BLACK BABALT 465 465 ET BLACK BABAT 465   | COKEN RED CIRDERS 457 440  LATHERED BASALT 440  LATHERED BASALT, WICLAY 450  LATHERED BASALT, WICLAY 450  LATHERED BASALT, WICLAY 450  LACK VISCOUS BASALT 500  LACK LASALT, FRACTURE 584  LACK BASALT, FRACTURE 584  LACK BASALT 510  LACK BASALT 51 | CREN RED CROSERS 457 446 ATHERED BABALT 448 448 DIGH HARD BABALT 448 458 RD BLACK VISCOUS BABALT 448 454 RD BLACK VISCOUS BABALT 504 564 RD BLACK VISCOUS BABALT 504 564 RD BLACK BABALT, FRACTURE 584 608 RY HARD BABALT 601 618 RY HARD BABALT 618 684 RD BLACK BABALT, CLAY 684 684 CHURED HARD BLACK BABALT 688 684 CHURCH HARD BLACK BABALT 688 6 | OREN RED CIRDERS 457 446 ATHERED BABALT 440 448 DUM HARD BABALT 440 448 DUM HARD BABALT 440 456 RD BLACK VISCOUS BABALT 450 450 ATHERED BABALT, WICLAY 450 500 RD BLACK BABALT, FRACTURE 554 600 RT HARD BABALT 500 518 RD BLACK BABALT 550 550 RD BLACK BABALT 55  | CREN RED CROSERS 457 446 ATHERED BASALY 440 448 DIGM HARD BASALY 440 448 BLACK VISCOUS BASALY 440 456 RD BLACK VISCOUS BASALY 450 460 RD BLACK VISCOUS BASALY 560 564 RD BLACK BASALY, FRACTURE 584 608 RY HARD BASALY 600 618 RO BLACK BASALY 610 658 GO BLACK BASALY 610 658 GO BLACK BASALY, CLAY 640 658 COTURED HARD BLACK BASAL 658 658 CKEN HARD BLACK BASALY 658 762   | COKEN RED CRIDERS 457 446 LATHERED BABALT 460 449 LATHERED BABALT 460 449 RD BLACK VISCOUS BABALT 460 469 RD BLACK VISCOUS BABALT 460 460 RD BLACK VISCOUS BABALT 460 460 RD BLACK BABALT 460 661 RY HARD BABALT 460 661 RD BLACK BABALT 460 661 RD BLACK BABALT 460 661 RY HARD BABALT 460 661 RD BLACK BABAT 460 661 RD BLACK BABAT 460 661 RD BLACK BABAT 460 661 RD BLACK  | COKEN RED CIRDERS  457 446  LATHERED BABALY  CHUM HARD BABALY  AUGUST HARD BABALY  AUGUST HARD BABALY  AUGUST B  | COKEN RED CRODERS  437 446  LATHERED BABALT  448 448  AUDION HARD BABALT  AUDION HARD BLACK  | COKEN RED CRIDERS 437 440 EATHERED BABALT 440 448 EDUM HARD BABALT 441 484 URD BLACK VISCOUS BABALT 458 484 EATHERED BABALT, WICLAY 484 504  |  | OKEN RED CINDERS 437 440  
  | 43/  |  |  | ACK HAVAIT   |  
   | 7.2 70 3442  | 7.2 70   | Material From To SWE   |  |   
  |
| THEREO BASALT  ON HARD BASALT  BLACK VISCOUS BASALT  440  441  441  441  | ATHERED BABALT  ANNI HARD BABALT  ED BLACK VISCOUS BABALT  ATHERED BABALT, WACLAY  ED BLACK VISCOUS BABALT  ATHERED BABALT, WACLAY  ED BLACK VISCOUS BABALT  ED BLACK VISCOUS BABALT   | ATHERED BASALT  OUBLINARD BASALT  ASS  RD BLACK VISCOUS BASALT  ATHERED BASALT, WICLAY  RD BLACK VISCOUS BASALT  RD BLACK VISCOUS BASALT  RD BLACK VISCOUS BASALT  RD BLACK VISCOUS BASALT   | ATHERED BASALT  OURI HARD BASALT  OURI HARD BASALT  OURI HARD BASALT  OURI HARD BASALT  ATHERED BASALT, WCLAY  OURI HARD BASALT, WCLAY  OURI HARD BASALT, WCLAY  OURI HARD BASALT  OURI HARD BAS | ATHERED BASALT ONUM HARD BASALT ATHERED BASALT ATHERED BASALT, WICLAY ATHERED BASALT, WICLA   | ATHERED BASALY 440 448 DRUM HARD BASALY 448 468 RD BLACK VISCOUS BASALY 458 454 ATHERED BASALY, WCLAY 459 464 RD BLACK VISCOUS BASALY 500 544 RD BLACK BASALY, FRACTURE 554 508 RY HARD BASALY, FRACTURE 554 608 RY HARD BASALY 500 618   | ATHERED BASALT 440 448 DIUM HARD BASALT 440 448 EU BLACK VIECOUS BASALT 450 450 ATHERED BASALT, WALLAY 450 500 ELACK VIECOUS BASALT 500 554 EU BLACK VIECOUS BASALT 500 554 EU BLACK BASALT, FRACTURE 556 508 EV HARD BASALT 500 518   | ATHERED BASALT 440 448 ONUM HARD BASALT 448 468 RD BLACK VISCOUS BASALT 458 454 ATHERED BASALT, WCLAY 458 464 RD BLACK VISCOUS BASALT 504 554 RD BLACK BASALT, FRACTURE 554 608 RY HARD BASALT 504 618 RD BLACK BASALT 518 658  | ATHERED BASALY ATHERED BASALY ATHERED BASALY ATHERED BASALY ATHERED BASALY, WICLAY ATHERED BASALY, WICLAY ATHERED BASALY, WICLAY AND BLACK VISCOUS BASALY AND BLACK VISCOUS BASALY BO BLACK BASALY, FRACTURE SSA 603 ATTEMPT 603 ATTEMPT 604 ATTEMPT 604 ATTEMPT 605 ATTEMPT 6 | ATHERED BASALY  CHUM HARD BASALY  ASS 454  AD BLACK VISCOUS BASALY  ASS 454  CATHERED BASALY, WICLAY  ASS 500  RO BLACK VISCOUS BASALY  BO BLACK VISCOUS BASALY  BO BLACK VISCOUS BASALY  BO BLACK BASALY, FRACTURE  SS 500  RY HARD BASALY  BO BLACK BASALY  BO BLAC | EATHERED BASALT  440 448 458 468 468 468 468 468 468 468 468 468 46   | EATHERED BASALY  ACTION HARD BLACK BASALY        | ATHERED BASALY ATHERED BASALY AND BLACK VISCOUS BASALY AS SALE SALE RD BLACK VISCOUS BASALY AS SALE RD BLACK VISCOUS BASALY RD BLACK VISCOUS BASALY RD BLACK BASALY, FRACTURE SS SALE RY HARD BASALY RD BLACK BASALY RES SALE RY HARD BLACK BASALY RES SALE RY HARD BLACK BASALY RES SALE RY HARD BLACK BASALY RY SALE | ATHERED BASALT  ONUM HARD BASALT  ATHERED BASALT  ATHERED BASALT, WICLAY  BASALT  BASA  | ATHERED BASALT  DIUM HARD BASALT  AUGUM HARD BASALT  RD BLACK VISCOUS BASALT  ATHERED BASALT, WICLAY  AST BLACK VISCOUS BASALT  RD BLACK VISCOUS BASALT  RD BLACK VISCOUS BASALT  RD BLACK BASALT, FRACTURE  SS 808  RY HARD BASALT  RD BLACK BASALT  | EATHERED BASALY  COUNT HARD BARALY  COUNT HARD BARALY  ASSESSED AS | ATHERED BASALT  CHUM HARD BABALT  AND BLACK VISCOUS BABALT  ASS 484  CATHERED BABALT, WICLAY  AND BLACK VISCOUS BABALT  AND BLACK VISCOUS BABALT  AND BLACK VISCOUS BABALT  AND BLACK VISCOUS BABALT  AND BLACK BABALT, FRACTURE  SS4  608  618  RY HARD BASALT  618  684  684  684  684  684  684  684   | ATHERED BASALY  CHUM HARD BABALY  ASS 484  ASS 4 | EATHERED BASALT 440 448 EDIUM HARD BASALT 441 484 URD BLACK VISCOUS BASALT 458 484 EATHERED BASALT, WICLAY 484 504   |  |  |  | UNER RED CIMDERS ATT   |  |  | AVA BASALI 277 297   |  | ACK BARATY   |  | 7.2  | 7.2 70 3442  |
| UNI HARD BABALY 444 456<br>BELACK VISCOUS BABALY 455 454   | MUMI HARD BABALT  440 488  85 BLACK VISCOUS BABALT  440 484  450 484  ATHERED BABALT, WICLAY  450 484  650 484  650 484  | DOUM HARD BABALT 441 488 RD BLACK VIBCOUB BABALT 461 484 ATHERED BABALT, WICLAY 461 604 RD BLACK VIBCOUB BABALT 604 664  | DOUBLINARD BARALT  ATHERED BARALT, WICLAY  ATHERED BARALT  ATHERED BARATT  ATH | DUM HARD BABALT 444 444 RD BLACK VISCOUS BABALT 444 444 ATHERED BASALT, WICLAY 454 504 RD BLACK VISCOUS BABALT 504 544 RD BLACK BABALT, FRACTURE 584 508   | DIUM HARD BABALT 448 468 RD BLACK VISCOUS BABALT 468 484 ATHERED BABALT, WCLAY 468 664 RD BLACK VISCOUS BABALT 560 668 RY HARD BABALT, FRACTURE 584 608 RY HARD BABALT, FRACTURE 584 608 RY HARD BABALT 500 618   
   | DUMI HARD BARALT 441 444 444 444 444 444 444 444 444 44  | OUM HARD BASALT 448 468 RD BLACK VISCOUS BASALT 458 484 ATHERED BASALT, WCLAY 458 664 RD BLACK VISCOUS BASALT 564 564 RD BLACK BASALT, FRACTURE 584 608 RY HARD BASALT 504 618 RD BLACK BASALT 518 684  | DUM HARD BABALY 448 458 RD BLACK VIECOUS BABALY 459 484 ATHERED BABALY, WICLAY 484 504 RD BLACK VIECOUS BABALY 504 564 RD BLACK VIECOUS BABALY 506 564 RD BLACK BABALY, FRACTURE 584 608 RY HARD BABALY 509 618 RD BLACK BABALY 518 688 RD BLACK BABALY 518 688 RD BLACK BABALY, CLAY 584 688  | CHUM HARD BABALY 448 458 RD BLACK VISCOUS BABALY 459 454 EATHERED BABALY, WICLAY 459 500 RT BLACK VISCOUS BABALY 500 564 RD BLACK VISCOUS BABALY 500 564 RD BLACK BABALY, FRACTURE 554 500 RY HARD BASALY 500 518 RD BLACK BABALY 518 654 RD BLACK BABALY 518 654 RD BLACK BABALY, CLAY 554 554  | EDUM HARD BABALY 448 458 484 484 485 484 485 484 485 484 864 865 865 865 865 865 865 865 865 865 865   
  | EDUM HARD BARALY 448 458 464 468 469 469 469 469 469 469 469 469 469 469   | DIOM HARD BABALY 448 458 RD BLACK VISCOUS BABALY 458 454 ATHERED BABALY, WCLAY 458 454 RD BLACK VISCOUS BABALY 500 542 RD BLACK BABALY, FRACTURE 554 508 RY HARD BABALY 500 678 RD BLACK BABALY, FRACTURE 518 658 RY HARD BABALY 518 658 RY HARD BLACK BABALY 518 658  | DOUM HARD BABALT 448 458 RD BLACK VISCOUS BABALT 459 454 ATHERED BABALT, WICLAY 459 504 RD BLACK VISCOUS BABALT 504 554 RD BLACK VISCOUS BABALT 504 554 RD BLACK BABALT, PRACTURE 558 608 RY HARD BABALT 501 618 RD BLACK BABALT 501 658 RD BLACK BABALT 514 658 RD BLACK BABALT 514 658 RC GTURED HARD BLACK BABALT 534 654 RC HARD BLACK BABALT 534 654   | DOM HARD BABALY 448 458 RD BLACK VISCOUS BABALY 459 454 ATHERED BABALY, WICLAY 459 504 RD BLACK VISCOUS BABALY 500 554 RD BLACK VISCOUS BABALY 500 554 RY HARD BABALY 500 518 RD BLACK BABALY 518 554 558 RD BLACK BABALY 518 554 554 RCTURED HARD BLACK BABALY 514 554 554 DKEN HARD BLACK BABALY 514 554 554   | EDUM HARD BABALY 448 455  IRD BLACK VISCOUS BABALY 458 454  EATHERED BABALY, WICLAY 458 454  RD BLACK VISCOUS BABALY 504 504  IRD BLACK VISCOUS BABALY 508 554 608  RY HARD BABALY 508 678  RY HARD BABALY 508 678  RD BLACK BABALY 518 658 658  RD BLACK BABALY 518 658 658  RO BLACK BABALY 518 658 658 658 658 658 658 658 658 658 65   | CRUM HARD BARALY 448 458  RD BLACK VISCOUS BARALY 459 484  CATHERED BARALY, WICLAY 459 500  RD BLACK VISCOUS BARALY 500 564  RD BLACK VISCOUS BARALY 500 564  RD BLACK BARALY, FRACTURE 584 508  RY HARD BARALY 500 518 684  RD BLACK BARALY, CLAY 564 664  ACTURED HARD BLACK BARAL 584 684  CKEN HARD BLACK BARALY 518 584  CKEN HARD BLACK BARALY 762 713  RD BLACK VISCOUS BARALY 762 720  
  | CHUM HARD BABALY  ASS 484  AD BLACK VISCOUS BABALY  ASS 484  ACTHERED BABALY, WALLAY  AD BLACK VISCOUS BABALY  AD BLACK VISCOUS BABALY  AD BLACK BABALY, FRACTURE  BAS 408  RY HARD BASALY  ACTURED BASALY  CHARD BLACK BABALY, CLAY  ACTURED HARD BLACK BABAL  CHARD BLACK BABALY, CLAY  CHARD BLACK BABALY, CLAY  ACTURED HARD BLACK BABALY  CHARD BLACK CHARD  CHARD BLACK BABALY  CHARD BLACK CHARD  C | EDIUM HARD BABALY 44 484 URD BLACK VISCOUS BABALY 458 484 EATHERED BABALY, WICLAY 484 864  |  | ATTERED BASALT 440 128   |  
   |  |  |  |  |   
  |  | ACK BASALT 427 437   | ACK BASALY 437   | LACK BASALT 427 437  |
|  | ATHERED BASALT, WICLAY 484 804 D BLACK VISCOUS BASALT 604  | ATHERED BABALT, WICLAY 484 804   | ATHERED BASALT, WICLAY 484 804   | ATHERED BABALT, WIGLAY 484 804 RD BLACK VISCOUS BABALT 504 884 RD BLACK BABALT, FRACTURE 584 608   
   | ATHERED BASALT, WICLAY  RD BLACK VISCOUS BASALT  RD BLACK BASALT, FRACTURE  SS 808  RY HARD BASALT  SO 618  | ATHERED BASALT, WCLAY 45 804 RD BLACK VISCOUS BASALT 50 564 RD BLACK BASALT, FRACTURE 58 608 RY HARD BASALT 50 618   | ATHERED BASALT, WICLAY 48 804 RD BLACK VISCOUS BASALT 50 864 RD BLACK BASALT, FRACTURE 58 808 RY HARD BASALT 608 618 RD BLACK BASALT 618 684  | ATHERED BABALT, WICLAY  RD BLACK VISCOUS BABALT  RD BLACK BABALT, FRACTURE  RY HARD BABALT  RD BLACK BABALT  RD BLACK BABALT  RD BLACK BABALT, CLAY  SEE 688   | ATHERED BABALT, WICLAY  RD BLACK VISCOUS BABALT  RD BLACK BABALT, FRACTURE  RY HARD BASALT  RD BLACK BABALT  RD BLACK BABALT  RD BLACK BABALT, CLAY  SS4 SS4  SS4  SS4  SS5  SS5  SS5  SS5  
  | EATHERED BABALT, WICLAY 412 504 RD BLACK VISCOUS BABALT 504 564 RD BLACK BABALT, FRACTURE 554 508 RY HARD BABALT 508 618 RD BLACK BABALT 518 652 RD BLACK BABALT 518 652 RD BLACK BABALT, CLAY 554 654 ACTURED HARD BLACK BABAL 558 652   | ATHERED BABALT, WICLAY  RD BLACK VISCOUS BABALT  RD BLACK BABALT, FRACTURE  RD BLACK BABALT  RD BLACK BABALT  RD BLACK BABALT  RD BLACK BABALT  RD BLACK BABALT, CLAY  RD BLACK BABALT, CLAY  RD BLACK BABALT, CLAY  RO BLACK BABALT, CLAY  RO BLACK BABALT, CLAY  RO BLACK BABALT, CLAY  RO BLACK BABALT  RO BLACK BABA | ATHERED BABALT, WICLAY  RD BLACK VISCOUS BABALT  RD BLACK BABALT, FRACTURE  SS SOS  RY HARD BABALT  RD BLACK BABALT  RD BLACK BABALT  RD BLACK BABALT  RD BLACK BABALT  RC BLACK BABALT  GET SS  | ATHERED BABALT, WIGLAY  ATHERED BABALT, WIGLAY  AD BLACK VISCOUS BABALT  AD BLACK BABALT, FRACTURE  SS. 608  FY HARD BABALT  608 618  808   | ATHERED BASALT, WICLAY  RD BLACK VISCOUS BASALT  RD BLACK BASALT, FRACTURE  SS   | FATHERED BABALT, WICLAY  RD BLACK VISCOUS BABALT  RD BLACK BABALT, FRACTURE  RY HARD BABALT  RD BLACK BABALT  RD BLACK BABALT  RD BLACK BABALT, CLAY  RC BLACK BABALT  RE BLACK BABA | ATHERED BABALT, WICLAY  RD BLACK VISCOUS BABALT  RD BLACK BABALT, FRACTURE  RD BLACK BABALT  RD BLACK VISCOUS BABALT  RD BLACK BABALT  RD B  | ATHERED BABALT, WICLAY  RD BLACK VISCOUS BABALT  RD BLACK BABALT, FRACTURE  RY HARD BABALT  RD BLACK BABALT  RD BLACK BABALT  RD BLACK BABALT  RD BLACK BABALT, CLAY  RC BLACK BABALT, CLAY  RC BLACK BABALT, CLAY  RC BLACK BABALT  RE BLACK VISCOUS BABALT  RE BLACK BABALT  | EATHERED BABALT, WIGLAY 484 804  
   | NUM HARD BABALT 448 458  |  |  |  |   
  | OKEN RED CINDERS 437 446   | OKEN RED CINDERS 457 440   | OKEN RED CIRDERS 457 440   | OKEN RED CIRDERS 437 440  
  | ACK EASALT 427 437 OKEN RED CINDERS 437 440  | ACK BASALT 437 OKEN RED CHOERS 437 440   | ACK BABALY 427 437 ROKEN RED CINDERS 437 440   |
| DESERVED BARALI, WILLIAM I ALA IXI   | D BLACK VISCOUS BARALT FOR RE  | RD BLACK VISCOUS BABALT FOR THE  | ED BLACK VISCOUS BABALT BOY KE   | D BLACK VISCOUS BARALT 504 554<br>D BLACK BARALT, FRACTURE 584 508   
   | RD BLACK VISCOUS BARALT SO SEA<br>RD BLACK BARALT, FRACTURE 58 808<br>RY HARD BARALT SO 618   | ID BLACK VISCOUS BARALT 50 544 ID BLACK BARALT, FRACTURE 584 608 IV HARD BARALT 50 618   | RD BLACK VISCOUS BARALT SO SEA RD BLACK BARALT, FRACTURE 584 808 RT HARD BARALT SO STATE 608 618 RD BLACK BARALT 618 682  | RD BLACK VISCOUS BABALT SO SEA RD BLACK BABALT, FRACTURE SS SO STATEMENT SO STATEMENT SO STATEMENT SO SEA  | RD BLACK VISCOUS BABALT SO SEA RD BLACK BABALT, FRACTURE 584 608 RY HARD BASALT 608 618 RD BLACK BABALT 618 684 884 884 884 884   
  | IRD BLACK VISCOUS BABALT SON SEA IRD BLACK BABALT, FRACTURE 584 608 IRV HARD BABALT 600 618 IRD BLACK BABALT 618 684 IRD BLACK BABALT, CLAY 664 684 ACTURED HARD BLACK BABAL 688 684  | RD BLACK VISCOUS BABALT SO SEA RD BLACK BABALT, FRACTURE SS 808 RY HARD BLACK BABALT 608 618 RD BLACK BABALT 618 682 RD BLACK BABALT, CLAY 654 684 ACTURED HARD BLACK BABAL 554 684 OKEN HARD BLACK BABALT 554 684   | RD BLACK VISCOUS BABALT SO SEA RD BLACK BABALT, FRACTURE SS SOS RY HARD BABALT SO STS RD BLACK BABALT STS RD BLACK BABALT, CLAY SS SEA RC BLACK BABALT, CLAY SS SEA RCTURED HARD BLACK BABAL SS SEA RCHN HARD BLACK BABALT SS SEA  | RD BLACK VISCOUS BABALT  KD BLACK BABALT, FRACTURE  SS  | RD BLACK VISCOUS BARALT SO 664 RD BLACK BARALT, FRACTURE 584 608 RY HARD BLACK BARALT 600 614 RD BLACK BARALT 601 618 RD BLACK BARALT, CLAY 618 684 RCTURED HARD BLACK BARAL 684 684 DKEN HARD BLACK BARALT 684 684 DKEN HARD BLACK BARALT 684 702   
   | RD BLACK VISCOUS BARALY 802 864 RD BLACK BARALY, FRACTURE 584 808 RY HARD BLACK BARALY 600 618 RD BLACK BARALY 611 684 RD BLACK BARALY, CLAY 612 684 RCTURED HARD BLACK BARAL 684 684 OKEN HARD BLACK BARALY 584 684 OKEN HARD BLACK BARALY 584 684 OKEN HARD BLACK BARALY 684 702 ACTURED BARALY 702 713  | RD BLACK VISCOUS BABALT SO SEA RD BLACK BABALT, FRACTURE SS SO STE RY HARD BABALT SO STE RE SEA SO STE RD BLACK BABALT ST SEA SEA SEA COUREN HARD BLACK BABALL SS SEA SEA COKEN HARD BLACK BABALT, C SEA SEA COKEN HARD BLACK BABALT, C SEA COKEN HARD BLACK VISCOUS BABALT C SEA COKEN HARD BLACK BABALT C SEA COKEN HARD BLACK BABALT, C SEA COKEN BLACK BABALT C SEA   | RD BLACK VISCOUS BABALT SO SEA RD BLACK BABALT, FRACTURE SS SOS RY HARD BASALT SO STA SEA SOS RY HARD BLACK BABALT STA SEA SEA SEA SEA SEA SEA SEA SEA SEA SE  |  |  | DICHI HARD BABALY 448 458   
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   | OKEN RED CIRDERS 457 440  ATHERED BASALY 440  DIGH HARD BABALY 448 456   | OREN RED CIRDERS 457 440 ATHERED BASALY 440 DIGH HARD BASALY 441 455   | ACK BABALT 427 457  OKEN RED CROERS 457 446  ATHERED BABALT 440 441  DOM HARD BABALT 441 454   | ACK BASALT 427 437  OKEN RED CINDERS 437 446  ATHERED BASALT 440 448  DIUM HARD BASALT 441 455   | ACK BASALY 427 437  ROKEN RED CINDERS 437 440  EATHERED BASALY 440  EDUM HARD BASALY 441  EDUM HARD BASALY 441  
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   | TO BLACK BABALT, FRACTURE 58 808 TY HARD BABALT 50 618  | D BLACK BARALT, FRACTURE 58 608 V HARD BARALT 608 618  | D BLACK BARALT, FRACTURE 58 608 IV HARD BARALT 608 618 ED BLACK BARALT 618 682  | RD BLACK BABALT, FRACTURE 584 808 RY HARD BABALT 60 618 RD BLACK BABALT 618 684 RD BLACK BABALT, CLAY 884 688  | RD BLACK BABALT, FRACTURE 584 808 RY HARD BABALT 608 618 RD BLACK BABALT 618 682 RD BLACK BABALT, CLAY 584 688  
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   | ACK BASALY 427 437  ROKEN RED CRIOERS 437 440  EATHERED BASALY 440 448  EDIUM HARD BASALY 440 455  ARD BLACK VISCOUS BASALY 445 455  |
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| BLACK BARALT, FRACTURE 584 KG  |  |  |  |  
   |   | D BLACK BARALT   |   | RD BLACK BABALT, CLAY SEE SEE  | RD BLACK BABALT, CLAY SEA 654   
  | NO BLACK BABALT, CLAY SEA SEA ACTURED HAND BLACK BABAL SEE SEA  | RD BLACK BASALT, CLAY ACTURED HARD BLACK BASAL SSI SSI SSI SSI SSI SSI SSI SSI SSI SS  | RD BLACK BABALT, CLAY ACTURED HARD BLACK BABAL SHE SHE SKEN HARD BLACK BABALT SHE SHE SKEN HARD BLACK BABALT SHE SHE SKEN HARD BLACK BABALT, C SHE 762   | ED BLACK BABALT, CLAY  CTURED HARD BLACK BABAL  KEN HARD BLACK BABALT  KEN HARD BLACK BABALT, C  SSA  702   | RD BLACK BABALT, CLAY  ACTURED HARD BLACK BABAL  SEA SEA  OKEN HARD BLACK BABALT  SEA SEA  OKEN HARD BLACK BABALT, C  SEA 702  
   | RD BLACK BASALT, CLAY  ACTURED HAND BLACK BASAL  SEA SEA  OKEN HAND BLACK BASALT  OKEN HAND BLACK BASALT, C  SEA 762  ACTURED BASALT  702 713  | RD BLACK BABALT, CLAY  ACTURED HARD BLACK BABAL  SEE  SEE  SEC  SEC  SEC  SEC  SEC  SE  | RD BLACK BABALT, CLAY ACTURED HARD BLACK BABAL SSA SSA OKEN HARD BLACK BABALT SSA SSA OKEN HARD BLACK BABALT OKEN HARD BLACK BABALT, C SSA 762 ACTURED BABALT 702 713 RD BLACK VISCOUS BABALT 713 720  | RY HARD BASALT GOS 618   | D BLACK VISCOUS BABALT FOR   
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   | ED BLACK BASALT   |  |   |  |   
  | ACTURED HARD BLACK BABAL SE 684   | ACTURED HARD BLACK BASAL SS SS CSACKEN HARD BLACK BASALY SS SS   | ACTURED HARD BLACK BABAL SEA SEA OKEN HARD BLACK BABALT SEA SEA OKEN HARD BLACK BABALT, C SEA 762  | CTURED HARD BLACK BABAL SSI SSI KEN HARD BLACK BABALY SSI SSI KEN HARD BLACK BABALY, C SSI 702  | ACTURED HARD BLACK BABALT SS SE SE SE SKEN HARD BLACK BABALT SSF SSF SSF 762   
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   | OKEN HARD BLACK BABALT STA   | OKEN HARD BLACK BABALT SEA SEA OKEN HARD BLACK BABALT, C SEA 762   | MEN HARD BLACK BABALY SEA 654<br>MEN HARD BLACK BABALY, C 654 762   | OKEN HARD BLACK BABALY SEA 684<br>OKEN HARD BLACK BABALY, C 684 762  | OKEN HARD BLACK BABALT SSA SSA OKEN HARD BLACK BABALT, C SSA 762 ACTURED BASALT 762 713  
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   | DRUM HARD BABALY 448 454 454 455 455 455 455 455 455 455   | ATHERED BABALT  DEEM HARD BABALT  AND BLACK VISCOUS BABALT  ATHERED BABALT, WACLAY  RD BLACK VISCOUS BABALT  AND BLACK VISCOUS BABALT  RD BLACK VISCOUS BABALT  RD BLACK BABALT, FRACTURE  SM 608  RY HARD BABALT  RD BLACK BABALT  RD BLACK BABALT  RD BLACK BABALT  608  618  658  | EATHERED BASALT  440 441 451 440 454 454 455 455 456 456 457 457 458 458 458 458 458 458 458 458 458 458   | CKEN RED CIRCLERS 457 440  AATHERED BABALT 440 448  EDRIN HARD BABALT 440 450  RD BLACK VISCOUS BABALT 440 450  RD BLACK VISCOUS BABALT 450  RD BLACK VISCOUS BABALT 450  RD BLACK VISCOUS BABALT 450  650 660 670  RY HARD BABALT 650 670 670 670 670 670 670 670 670 670 67  | COKEN RED CROSERS 457 440 EATHERED BABALT 440 448 EATHERED BABALT 440 448 EDRIN HARD BABALT 448 458 END BLACK VISCOUS BABALT 450 454 EATHERED BABALT, WICLAY 450 454 EATHERED BABALT, WICLAY 450 454 EATHERED BABALT, WICLAY 450 650 EATHERED BABALT, FRACTURE 554 608 ERY HARD BABALT, FRACTURE 554 608 ERY HARD BABALT 508 618 ERD BLACK BABALT 658 658   
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   | ED BLACK BABALT, CLAY 864 664   |  | CILLED HAVE BLACK BACK!   |  |   
  | VINER INVITED BLANK BASALT  |  | OKEN HARD BLACK BABALT, C 652 762  | KEN HARD BLACK BABALT, C 684 762  | CHEN HARD BLACK BABALT, C 684 762  
   | OKEN HARD BLACK BASALT, C 654 762 ACTURED BASALT 762 713   | OKEN HARD BLACK BABALY, C 654 702 ACTURED BASALY 702 713 RD BLACK VISCOUS BASALY 713 720  | OKEN HARD BLACK BABALT, C 852 762 ACTURED BASALT 762 713 RD BLACK VISCOUS BASALT 713 720   |  | D BLACK VISCOUS BARALY SO SEA D BLACK BARALY, FRACTURE 584 SOR Y HARD BARALY 508 618 D BLACK BARALY 518 684 D BLACK BARALY 518 684 D BLACK BARALY, CLAY 584 688  
   | OUBLINARD BARALT 448 458 ED BLACK VIRCOUS BARALT 459 484 ATHERED BARALT, WICLAY 484 500 ED BLACK VIRCOUS BARALT 500 554 ED BLACK VIRCOUS BARALT 500 554 ED BLACK BARALT, FRACTURE 584 508 EY HARD BARALT 500 518 ED BLACK BARALT 518 684 ED BLACK BARALT 518 684   | DRUM HARD BABALY 448 458 RD BLACK VISCOUS BABALY 449 464 ATHERED BABALY, WICLAY 484 504 RD BLACK VISCOUS BABALY 500 564 RD BLACK VISCOUS BABALY 500 564 RD BLACK BABALY, FRACTURE 584 508 RY HARD BASALY 500 518 RD BLACK BABALY 518 684 RD BLACK BABALY 518 684 RD BLACK BABALY 518 684   | ATHERED BASALT  DIGHTHARD BASALT  AND BLACK VISCOUS BASALT  ATHERED BASALT, WICLAY  ATHERED BASALT, WICLAY  ATHERED BASALT, WICLAY  AND BLACK VISCOUS BASALT  AND BLACK BASALT, FRACTURE  SA S   | EATHERED BASALT  440 441 450 441 450 441 450 441 450 441 450 450 450 450 450 450 450 450 450 450   | COKEN RED CIRCLERS  457 440 440 441 440 440   
  | COKEN RED CIRDERS 457 440 EATHERED BABALT 460 448 EDUSH HARD BABALT 460 448 EDUSH HARD BABALT 460 448 EATHERED BABALT 460 458 EATHERED BABALT, WICLAY EATHERED BABALT, WICLAY EATHERED BABALT, WICLAY EATHERED BABALT, FRACTURE 564 564 RV HARD BASALT, FRACTURE 560 518 RV HARD BASALT 608 518 RD BLACK BABALT 608 618 RD BLACK BABALT, CLAY 664 668  | CREN RED CROSERS 457 446 LATHERED BABALT 460 448 LATHERED BABALT 460 448 RD BLACK VISCOUS BABALT 458 454 ATHERED BABALT, WALLAY 458 454 ATHERED BABALT, WALLAY 450 664 RD BLACK VISCOUS BABALT 500 564 RV HARD BABALT, FRACTURE 554 505 RV HARD BABALT 500 518 RV HARD BABALT 500 518 RD BLACK BABALT 518 654 RD BLACK BABALT, CLAY 554 658  | CREN RED CROSERS 457 446  ATHERED BASALT 460 448  DRUM HARD BASALT 448 458  RD BLACK VISCOUS BASALT 458 454  ATHERED BASALT, WALLAY 458 464  ATHERED BASALT, WALLAY 458 460  RD BLACK VISCOUS BASALT 500 564  RD BLACK VISCOUS BASALT 500 564  RT HARD BASALT, FRACTURE 584 508  RT HARD BASALT 500 618  RD BLACK BASALT 518 682  RD BLACK BASALT, CLAY 564 684  | ACK BABALT 427 437 OKEN RED CIRDERS 457 440 ATHERED BABALT 440 448 DRUM HARD BABALT 440 456 RD BLACK VISCOUS BABALT 448 454 RD BLACK VISCOUS BABALT 564 564 RD BLACK VISCOUS BABALT 560 564 RD BLACK VISCOUS BABALT 560 564 RY HARD BABALT, FRACTURE 584 608 RY HARD BABALT 650 618 RY HARD BABALT 560 618 RY HARD BABALT 650 618   | ACK BABALT 427 437  OKEN RED CROCKS 437 446  ATHERED BABALT 440 448  DUM HARD BABALT 448 458  RD BLACK VISCOUS BABALT 450  RD BLACK VISCOUS BABALT 500  RV HARD BABALT, FRACTURE 584 808  RV HARD BABALT 600 618  RV HARD BABA | LACK BASALT 427 437 ROKEN RED CRIDERS 437 446 EATHERED BASALT 440 449 EDUM HARD BASALT 440 450 ROT BLACK VISCOUS BASALT 450 454 ROD BLACK VISCOUS BASALT 500 564 RV HARD BLACK VISCOUS BASALT 500 564 RV HARD BLACK BASALT, FRACTURE 554 608 RV HARD BLACK BASALT 500 511 RD BLACK BASALT 500 511 RD BLACK BASALT 500 511 RD BLACK BASALT 512 654 654  
   |
| BLACK BABALT, FRACTURE 554 508 HARD BABALT 508 518 BLACK BABALT 518 654 BLACK BABALT, CLAY 554 655 TURED HARD BLACK BABAL 558 655  | D BLACK BABALT 611 684 D BLACK BABALT, CLAY 544 654 CTURED HARD BLACK BABAL 554 654  | ID BLACK BABALT, CLAY 514 684 684 684 684 684 684 684 684 684  | D BLACK BABALT, GLAY 554 654 654 GEACTURED HARD BLACK BABAL 554 654  | D BLACK BABALT, CLAY SEC SEC<br>CTURED HARD BLACK BABAL SEC SEC  
   | ED BLACK BABALT, CLAY SEA GEA GEA GEA GEA   | CTURED HARD BLACK BASAL SEA SEA  |   |  | UNER BARU BLACK BABALT 213 113  
  |   |  |  |   |  
   | ACTURED BASALT 702 713   | ACTURED BASALY 702 713 RD BLACK VISCOUS BASALY 713 728  | ACTURED BASALT 702 713 AD BLACK VISCOUS BASALT 713 720   |  | D BLACK VISCOUS BARALY SO SEA D BLACK BARALY, FRACTURE 584 608 Y HARD BARALY 608 618 D BLACK BARALY 618 684 D BLACK BARALY, CLAY 684 688 CTURED HARD BLACK BARAL 688 684   
   | OURI MARD BABALT 448 458 RD BLACK VISCOUS BABALT 459 484 ATHERED BABALT, WICLAY 484 504 RD BLACK VISCOUS BABALT 500 554 RD BLACK VISCOUS BABALT 500 554 RT HARD BABALT, PRACTURE 584 608 RY HARD BABALT 500 518 RD BLACK BABALT 518 684 RD BLACK BABALT, CLAY 514 684 RD BLACK BABALT, CLAY 514 684 RD BLACK BABALT, CLAY 514 684 RD BLACK BABALT, CLAY 515 684 RD BLACK BABALT, CLAY 515 684 RD BLACK BABALT, CLAY 515 684  | DRIM HARD BABALY 448 458 RD BLACK VISCOUS BABALY 449 484 ATHERED BABALY, WICLAY 484 504 RD BLACK VISCOUS BABALT 500 556 RD BLACK BABALT, FRACTURE 584 608 RY HARD BABALT 601 618 RD BLACK BABALT 618 685 RD BLACK BABALT 618 685 RD BLACK BABALT, CLAY 554 655 RD BLACK BABALT, CLAY 554 655 RD BLACK BABALT, CLAY 554 655   | ATHERED BABALY  AND BLACK VISIOUS BABALY  ATHERED BABALY, WICLAY  ATHERED BABALY, WICLAY  ATHERED BABALY, WICLAY  AND BLACK VISIOUS BABALY  AND BLACK VISIOUS BABALY  BO BLACK BABALY, FRACTURE  SSA  BOS  RY HARD BABALY, FRACTURE  BOS  BOS  RY HARD BABALY  BO BLACK BABALY  BO BLACK BABALY  BO BLACK BABALY  BO BLACK BABALY, CLAY  BO BLACK BABALY  BO BLACK BABALY, CLAY  BO BLACK BABALY, CLAY | EATHERED BASALT  440 441 450 441 450 440 450 440 450 440 450 450 450 450   | CKEN RED CIRCLERS  457 440  AATHERED BABALT  A40 448  A50  A50  A50  A50  A50  A50  A50  A5  | COKEN RED CIRDERS 457 440 EATHERED BABALT 460 448 EDUM HARD BABALT 460 448 EDUM HARD BABALT 460 448 EATHERED BABALT 460 458 EATHERED BABALT 460 458 EATHERED BABALT, WICLAY 460 660 EATHERED BABALT, FRACTURE 564 660 EATHERED BABALT, FRACTURE 565 600 EATHERED BABALT 610 610 EATHERED BABALT 610 61 | CREN
RED CIRDERS 457 446 LATHERED BABALT 460 44F DRUM HARD BABALT 468 458 RD BLACK VIGCOUS BABALT 468 454 ATHERED BABALT, WICLAY 469 454 ATHERED BABALT, WICLAY 469 600 860 860 RD BLACK VIGCOUS BABALT 800 860 RD BLACK BABALT, FRACTURE 860 618 RV HARD BABALT, FRACTURE 861 661 RD BLACK BABALT 861 662 RD BLACK BABALT 861 662 RD BLACK BABALT, CLAY 864 663 RCTURED HARD BLACK BABAL 868 668  | CREN RED CINDERS 457 446  ATHERED BASALY 460 448  DRUM HARD BASALY 468 468  RD BLACK VISCOUS BASALY 469 464  ATHERED BASALT, WICLAY 469 464  ATHERED BASALT, WICLAY 469 600  RD BLACK VISCOUS BASALT 560 618  RV HARD BASALT, FRACTURE 560 618  RV HARD BASALT 600 618  RD BLACK BASALT 600 618  RD BLACK BASALT 600 618  GR G   | ACK EASALT 427 457  OKEN RED CRIDERS 457 440  ATHERED BASALT 440 448  DRUM HARD BASALT 448 458  RD BLACK VISCOUS EASALT 458 454  ATHERED BASALT, WICLAY 458 604  RD BLACK VISCOUS EASALT 504 504  RD BLACK VISCOUS EASALT 504 564  RD BLACK BASALT, FRACTURE 554 608  RD BLACK BASALT 518 618 618  RD BLACK BASALT 518 658 618  RD BLACK BASALT 518 658 658  RD BLACK BASALT 518 658 658  RD BLACK BASALT 518 658 658  | ACK BABALT 427 437  OKEN RED CROCERS 437 446  ATHERED BABALT 440 448  DUM HARD BABALT 448 458  RD BLACK VISCOUS BABALT 468 464  ATHERED BABALT, WCLAY 468 664  RD BLACK VISCOUS BABALT 560 568  RD BLACK VISCOUS BABALT 560 568  RD BLACK BABALT, FRACTURE 584 608  RT HARD BABALT 560 618  RD BLACK BABALT 560 618  RD BLACK BABALT 560 618  RD BLACK BABALT 560 658   | ACK BASALT  ACK BASALT  ROKEN RED CRIDERS  437  446  447  447  448  448  448  458  458  458  
   |
| BLACK BABALT, FRACTURE 554 508 HARD BABALT 508 518 BLACK BABALT 512 654 BLACK BABALT, CLAY 554 654 TURED HARD BLACK BABAL 558 654 EN HARD BLACK BABAL 558 554  | D BLACK BABALT 612 684 D BLACK BABALT, CLAY 854 654 CTURED HARD BLACK BABAL 850 684 KEN HARD BLACK BABALT 854 684  | ID BLACK BABALT  ID BLACK BABALT, CLAY  STA 654  CTURED HARD BLACK BABAL  KEN HARD BLACK BABALT  STA 654   | ID BLACK BABALT 618 684 ID BLACK BABALT, CLAY 844 684 CTURED HARD BLACK BABAL 850 684 KEN HARD BLACK BABALT 854 684  | ED BLACK BABALT, CLAY  ESC SEC  CTURED HARD BLACK BABAL  KEN HARD BLACK BABALT  SEC SEC  
   | TO BLACK BABALT, CLAY SEA GEA GEA GEA GEA GEA GEA GEA GEA GEA G   | CTURED HARD BLACK BABAL SSI SE-<br>KEN HARD BLACK BABALY SSI SSI   | KEN HARD BLACK BABALY SEA 884   | OKEN HARD BLACK BABALT STA 684   |   
  | OKEN HARD BLACK BASALT. C 652 763   |  | CTURED BASALT 701 74   |   |  
   |  | RD BLACK VISCOUS BASALT 7/3 7/20  | RD BLACK VISCOUS BASALT 713 720  | ACTURED BASALT 702 713   | D BLACK VISCOUS BARALY 50 64 65 65 65 65 65 65 65 65 65 65 65 65 65  
   | DUBI HARD BABALT  ATHERED BABALT, WICLAY  ATHERED BABALT  ATHERED BABA | DRUM HARD BABALY 448 458 RD BLACK VISCOUS BABALY 448 464 ATHERED BABALY, WICLAY 458 504 RD BLACK VISCOUS BABALY 500 554 RD BLACK BABALY, FRACTURE 584 508 RY HARD BABALY 501 618 RD BLACK BABALY 518 658 RD BLACK BABALY 518 658 RC GURED HARD BLACK BABALY 534 658 RC GURED HARD BLACK BABALY 534 658   | ATHERED BABALY  AND BLACK VISCOUS BABALY  ATHERED BABALY, WICLAY  ATHERED BABALY, WICLAY  ATHERED BABALY, WICLAY  AND BLACK VISCOUS BABALY  AND BLACK VISCOUS BABALY  AND BLACK BABALY, FRACTURE  SEA  BOS  BOS  BOS  BOS  BOS  BOS  BOS  BO   | EATHERED BASALT  440 448 EDRIM HARD BABALY  440 448 448 448 EATHERED BABALT, WICLAY 450 EATHERED BABALT, FRACTURE 550 EATHERED BABALT, FRACTURE 550 EATHERED BABALT 610 EATHERED BABALT 610 EATHERED BABALT 610 EATHERED BABALT, CLAY 611 EATHERED BABALT, CLAY 612 EATHERED BABALT, CLAY 613 EATHERED BABALT, CLAY 614 EATHERED BABALT, CLAY 650 EATHERED BABALT 650 EATHERED | CKEN RED CIRCLERS  LATHERED BASALT  440  440  440  440  440  440  440  4   | COKEN RED CIRDERS 437 440 EATHERED BABALT 460 448 EDUM HARD BABALT 460 448 EDUM HARD BABALT 460 448 EATHERED BABALT 460 468 EATHERED BABALT, WICLAY 460 464 EATHERED BABALT, WICLAY 460 464 EATHERED BABALT, WICLAY 460 464 EATHERED BABALT, FRACTURE 560 666 EXTERNAL BABALT 561 666 EATHERED BABALT 661 666 EATHERED BABALT 661 666 EATHERED BABALT 661 666 EATHERED HARD BLACK BABALT 668 666 EATHERED BABALT EA | CKEN RED CIRDERS 457 440 LATHERED BABALT 440 441 DRUM HARD BABALT 440 451 RD BLACK VIECOUS BABALT 459 454 SATHERED BABALT, WICLAY 459 454 RD BLACK VIECOUS BABALT 500 564 RD BLACK VIECOUS BABALT 500 564 RD BLACK BABALT, FRACTURE 584 608 RY HARD BABALT 610 610 RD BLACK BABALT 611 652 RD BLACK BABALT 511 652 RD BLACK BABALT 512 654 654 CKEN HARD BLACK BABALT 553 654  
   | CREN RED CINDERS 457 446  ATHERED BABALT 440 441  DRUM HARD BABALT 440 450  RD BLACK VISCOUS BABALT 459 454  ATHERED BABALT, WICLAY 450 504  RD BLACK VISCOUS BABALT 500 564  RD BLACK BABALT, FRACTURE 584 608  RY HARD BABALT 610 610  RD BLACK BABALT 610 610  RD BLACK BABALT 610 650  RO BLACK BABALT 510  RD BLACK BABALT 510  | ACK BABALT 427 437 OKEN RED CINDERS 437 440 A44 A44 A44 A44 A44 A44 A44 A44 A44  | ACK EARALT 427 437 OKEN RED CINDERS 457 440 ATHERED BASALT 440 448 DOMM HARD BARALT 440 448 RD BLACK VISCOUS BARALT 440 454 ATHERED BASALT, WICLAY 454 50 RD BLACK VISCOUS BARALT 500 564 RD BLACK VISCOUS BARALT 500 564 RD BLACK BARALT, FRACTURE 584 500 RY HARD BASALT 500 618 RY BLACK BASALT 500 | LACK BASALT  AZ7 437  ROKEN RED CRIDERS  437 440  EATHERED BASALT  440 448  EDUM HARD BABALT  440 448  450 450  ARD BLACK VISCOUS BASALT  450 450  ROT BLACK BASALT  450 450  451 450  452 450  GROT BLACK BASALT  451 452  452 453  ACTURED HARD BLACK BASALT  453 453  454 455  455 455  456 456  457 456  457 456  458  |
| BLACK BABALT, FRACTURE 582 800 HARD BABALT 600 618 BLACK BABALT 618 682 BLACK BABALT, CLAY 564 666 TURED HARD BLACK BABAL 588 682 EN HARD BLACK BABALT 588 682 EN HARD BLACK BABALT, C 682 762 TURED BABALT, 762 763   | D BLACK BABALT  D BLACK BABALT, CLAY  D BLACK BABALT, CLAY  SEA  SEA  SEA  SEA  SEA  SEA  SEA  S   | ID BLACK BABALY 612 684 ID BLACK BABALY, CLAY 844 644 CTURED HAND BLACK BABAL 654 684 WEN HARD BLACK BABALY, C 684 KEN HARD BLACK BABALY, C 684 CTURED BABALY 702 CTURED BABALY 702 713  | D BLACK BABALT, CLAY 654 654  CTURED HARD BLACK BABAL 654 654  KEN HARD BLACK BABALT, C 554 702  CTURED BABALT, C 554 702  CTURED BABALT, C 554 702  CTURED BABALT, C 550 702  | ID BLACK BABALT, CLAY  BEA 684  CTURED HARD BLACK BABAL  KEN HARD BLACK BABALT  KEN HARD BLACK BABALT, C  CTURED BABALT  702  713  
   | ED BLACK BABALT, CLAY  GETURED HARD BLACK BABAL  SEA 684  SKEN HARD BLACK BABALT  SEA 684  SKEN HARD BLACK BABALT  SEA 684  CTURED BABALT  702  713   | CTURED HARD BLACK BASAL SR 68-<br>KEN HARD SLACK BASALY SIA 68-<br>KEN HARD SLACK BASALY, C 68-702<br>CTURED BASALY 702 713  | MEN HARD BLACK BABALT SEC 854 MEN HARD BLACK BABALT, C 654 762 CTURED BABALT 762 743  | OKEN HARD BLACK BABALY SE SE OKEN HARD BLACK BABALY, C SE 762 INCTURED BABALY 762 743  | OKEN HARD BLACK BASALT, C 682 762 ACTURED BASALT 762 713  
  | ACTURED BASALT 702 713  |  |  |   |  
   | RU BLACK VISCOUS BASALT 713 720  |   |  | RD BLACK VISCOUS BASALT 713 720  | D BLACK VISCOUS BARALT SO SEA D BLACK BARALT, FRACTURE SE 608 Y HARD BARALT SON 618 D BLACK BARALT, CLAY C BLACK BARALT, CLAY C TURED HARD BLACK BARAL SE 628 CCTURED HARD BLACK BARALT KEN HARD BLACK BARALT, C 654 KEN HARD BLACK BARALT, C 654 CTURED BARALT, C 654 TO 702 TURED BARALT TO 702 THE  
   | OUBLINARD BABALT  40 BLACK VISCOUS BABALT  ATHERED BABALT, WICLAY  45 60  50 BLACK VISCOUS BABALT  45 60  56 60  57 HARD BABALT, FRACTURE  58 608  17 HARD BABALT  58 658  58 658  58 658  58 658  618 684  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 658  658 762  658 762  658 762  658 762   | DRIM HARD BARALY 448 454 RD BLACK VISCOUS BARALY 449 464 ATHERED BARALY, WICLAY 484 504 RD BLACK VISCOUS BARALY 500 564 RD BLACK BARALY, FRACTURE 584 608 RY HARD BARALY 600 618 RD BLACK BARALY 618 684 RD BLACK BARALY 618 684 RD BLACK BARALY 618 684 RD BLACK BARALY 518 684 REP HARD BLACK BARALY 518 684 REP HARD BLACK BARALY 618 REP HARD BLACK BARALY 702 RETURNED BARALY 702 RETURNED BARALY 702 RETURNED BARALY 702   | ATHERED BASALT  AND BLACK VISCOUS BASALT  AND BLACK VISCOUS BASALT  AND BLACK VISCOUS BASALT  AND BLACK VISCOUS BASALT  AND BLACK BASALT, WACLAY  AND BLACK BASALT, FRACTURE  BASA  BASALT  BASACK BASALT, FRACTURE  BASACK BASALT  BASACK BASAC | EATHERED BASALT  640 644 650 660 660 660 660 660 660 660 660 660   | CKEN RED CIRCLERS  ATHERED BABALY  AND BABALY  AND BABALY  AND BLACK VISCOUS BABALY  AND BLACK VISCOUS BABALY  AND BLACK VISCOUS BABALY  AND BLACK VISCOUS BABALY  AND BLACK BABALY, WICLAY  RD BLACK BABALY, FRACTURE  SAN  BOD  BLACK BABALY  BLA | COKEN RED CIRDERS 457 440 EATHERED BABALT 460 448 EATHERED BABALT 460 448 EATHERED BABALT 460 448 EATHERED BABALT 460 448 EATHERED BABALT 460 468 EATHERED BABALT, WACLAY RD BLACK VISCOUS BABALT 860 864 RV HARD BABALT, FRACTURE 864 860 RV HARD BABALT 868 868 RV HARD BABALT 868 868 EATHERED BABALT 869 868 EATHERED HARD BLACK BABALT 860 868 EATHERED HARD BLACK BABALT 660 668 EATHERED HARD BLACK BABALT 660 668 EATHERED HARD BLACK BABALT 660 668 EATHERED BABALT EATHERED BABALT EATHERED BABALT EATHERED BABALT EATHERED BABALT EATHERED  | CREN RED CIRDERS 457 440 LATHERED BABALT 460 448 LATHERED BABALT 460 448 RD BLACK VISCOUS BABALT 460 468 RT BLACK VISCOUS BABALT 460 460 RT HARD BLACK VISCOUS BABALT 460 660 RT HARD BABALT, FRACTURE 560 670 RT HARD BABALT 460 660 RT HARD BABALT 460 660 RT HARD BLACK BABALT 460 | CREN RED CROSERS 457 446  ATHERED BASALY 440 448  DRIM HARD BASALY 448 458  RD BLACK VISCOUS BASALY 459 464  ATHERED BASALY, WACLAY 459 464  ATHERED BASALY, WACLAY 450 464  RD BLACK VISCOUS BASALY 560 564  RV HARD BASALY, FRACTURE 584 608  RV HARD BASALY 608 618  RV HARD BASALY 618 682  RD BLACK BASALY, CLAY 584 684  ACTURED HARD BLACK BASAL 584 684  CREN HARD BLACK BASALY 684 702  CRED BASALY 702 713   
   | ACK BABALT OKEN RED CINDERS 437 440 ATHERED BABALT ATHERED BABALT ATHERED BABALT ATHERED BABALT ATHERED BABALT ATHERED BABALT ATHERED BABALT, WICLAY ATHERED BABALT, WICLAY RD BLACK VISCOUS BABALT BO BLACK VISCOUS BABALT BO BLACK VISCOUS BABALT BO BLACK BABALT, FRACTURE BABALT RD BLACK BABALT BO BLACK BABAT BO BLACK B | ACK BABALT  ACK BABALT  OKEN RED CROCKS  AST 440  ATHERED BABALT  ATHERED BABALT  ATHERED BABALT  ATHERED BABALT  ATHERED BABALT  RD BLACK VIBCOUS BABALT  ATHERED BABALT, WICLAY  RD BLACK VIBCOUS BABALT  RD BLACK VIBCOUS BABALT  RD BLACK BABALT, FRACTURE  SS 408  RY HARD BABALT  RD BLACK BABALT  RCTURED HARD BLACK BABALT  SSA 654  ACTURED HARD BLACK BABALT  SSA 654  ACTURED HARD BLACK BABALT  SSA 654  ACTURED HARD BLACK BABALT  REN H | LACK BASALT  AZ7 437  ROKEN RED CRIDERS  EATHERED BASALT  EATHERED BASALT  COUNT HARD BASALT  ARB BLACK VISCOUS BASALT  ARB BLACK BASALT  ARB  |
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  | CK BABALT 437 OKEN RED CINDERS 437 440   | ACK BASALT 427 437   | ACK BASALT 427 437   |  |  
   |  |  | management From To Cluster   | Material From To State   | 1200  
  | Lieberta .   |

8) WELL TESTS (Minimum testing time is 1 h	our)
	Duration of Test
Flowing Arten 3500.0 G	1.0
Temperature of water 63 °F/C Depth ariselan flow	found ft.
Was water analysis done?	
By Whom? DAVID J. NEWTON ASSOCIATES	
Did any strata contain water not suitable for intended use?	Too Little   Salt
☐ Mudd ☐ Odor ☐ Colored Other	

DESCHUTES VALLEY WATER DISTRICT

Rotary Air Rotary Mud Cable

R. TO

R. TO

■ Abandonment

☐ Domestic ☐ Community ☐ Industria ☐ Irrigatio ☐ Injection

Depth of completed well

70.00

Material

Size

Begin End Meterial Depth Depth Amount Units

427.00 12.00 3

'n.

Type

ñ.

R.

Casing or Diameter Depth | End | Construction | Cauge | Meterial Weid | Threaded | Construction | Cauge | Caug

State OR Zip \$7741

Alter (Recondition) Alter (Repair)

Street 1141 8W CULVER HWY MADRAS

(2) TYPE OF WORK

New

□ Deepening

(3) DRILL METHOD

(4) PROPOSED USE

Special Standards 📋

9.00 427.00

How as seal placed: Method

(7) PERFORATION/SCREENS Perforation Method

Backfill placed from

Screens

(6) CASING/LINER

Filter pack from

Diameter From

Livestoc Thermal Other (5) BORE HOLE CONSTRUCTION

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and bailef.

WWC Number 1484

Signed By GREG MCINNIS

GEO-TECH EXPLORATIONS

RECEIVED

3 2004 MAY

#### STATE OF OREGON

#### WATER SUPPLY WELL REPORT

(as required by ORS 637.765)
Instructions for completing this report are on the last page of this form.

JEFF 50287

Amended	Page Received Dale 5/17/1998	Z
11/16/00	Received Dale 6/17/1998	
110190	Well D# L 22300	
	Slart Card # 112147	

(1) OWNER	Well Number	(9) LOCATION OF HOLE By legal des	cription
Name		County Jefferson Latitude	Longitude
DESCHUTES VALLEY WA	TER DISTRICT	Township 12.00 S Range 12.00 E	Subdivision
Street 1141 SW CULVER HWY		Tax lot 2800 Lot Block	Sulvinsion
City MADRAS	State OR Zip 97741	Section 33 SW 1/4 NE 1/4	
(2) TYPE OF WORK	AM (Mara de la contrata del la contrata de la c	Street Address of Well (or nearest address)	
	Alter (Recondition)	7676 SW LASALLE LANE, CULVER	
(3) DRILL METHOD		MAP with location indentified must be attached	
Rotary Air   Rotary Mu	ad   Cable   Auger	(10) STATIC WATER LEVEL	
	io Comic Comment	FI. below land surface.	Date
Olher		Artesian Pressure 50 lb/sq. in.	Date 5/28/1998
(4) PROPOSED USE	Indicate Interests Interests	(11) WATER BEARING ZONES	
Livestoc Thermal O	Industria   Irrigatio   Injectio	Depth at which water was first found #.	
		From To Est. Flow Rate SWL	: T
(5) BORE HOLE CONSTRU Special Standards	CTION  Depth of completed well 740 n.	437 740	
Explosives Used Amount	Туре		
From To Malerial	Amount Seel Units		RECEIVED
	Grout Weight		
410 427 CO	12 5		DEC 1 0 1998
			DEC 1 0 1998
		W	ATER RESOURCES DEPT.
			SALEM, OREGON
How as seal placed: Method Oth	ner	(12) WELL LOG Ground Elevation (1.	- milested a code información
Backfill placed from ft. TO	R. Material	Material From To SW	
Filter pack from ft. TO	fi. Size in.	BLACK BASALT 427 437	
(6) CASING/LINER		BROKEN RED CIND 437 440 WEATHERED BASA 440 445	
Diameter From To Gauge	Malerial Welded Glued Threaded	MEDIUM HARD BAS 445 456	
l	J	HARD BLACK VISC 455 484 WEATHERED BASA 484 504	
		HARD BLACK VISC 504 554	RECEIVED
		VERY HARD BASAL 605 615	- VECEIVED
		HARD BLACK BASA 615 654	MAY 3 2004
(7) PERFORATION/SCREENS	S	HARD BLACK BASA 654 655 FRACTURED HARD 656 684	MAY 3 2004
Perforation Method		BROKEN HARD BLA 584 694	WATER RESOURCES DEP
Screens Type	Material	FRACTURED BASAL 702 713	SALEM. OREGON
		HARD BLACK VISC 713 720 HARD BLACK BASA 720 740	
		124 PENON BRON 124 144	
		Dele started 5/11/1998 Cor	mpleted 5/28/1998
8) WELL TESTS (Minimum te	esting time is 1 hour)	(unbonded) Water Well Constructor Certification:	
••		I certify that the work I performed on the construction, alte	ration, or abandonment of
		this well is in compliance with Oregon well construction stal information reported above are true to the best knowledge a	ndards. Malerials used and Ind belief.
		WWC Nu	
Temperature of water 53 °F/	C Depth artesian flow found fl.	Signed By ROBERT STADELI	
Was water analysis done?	•	(bonded) Water Well Constructor Certification:	
By Witom? DAVID J. NEWTON ASSO	CIATES	I accept responsibility for the construction, atteration, or absperformed on this well during the construction dates reported	andonment work If above, All work
Did any strata contain water not suitable	e for intended use? 🔲 Too Little 🔲 Saity	sware downship with Oregon well construction standard the best of my knowledge and belief.	ls. This report is true to
Mudd Odor Colored	Other	1	nbe: 1464
Dopth of strata ft.		Signed By GREG MCINNIS	
1.9720		-	

### DUND WELL NO.Z

STATE OF OREGON	DWD WELL NO. Z
WATER SUPPLY WELL REPORT	FF 50418 Received Date 12/16/1998
(se required by ORS 637.768)	Well D Tag # L 29717
instructions for completing this report are on the last page of this form.	Start Card # 117224
(1) OWNER Wall Number 29717	(9) LOCATION OF HOLE By legal description
Name .	County Latitude Longitude
DESCHUTES VALEY WATER DISTRICT	Township 12.00 S Range 12.00 E Statement
Street 1141 SW CULVER HWY City MADRAS State OR Zip 97741	Tax lot 2500 Lot Block Subdivision
	Section 33 SW 1/4 NE 1/4
(2) TYPE OF WORK	Street Address of Weil (or resrect address)
⊠ New	7676 SW LASALLE LANE, CULVER MAP with location indentified must be attached
(3) DRILL METHOD    Rotary Air   Rotary Mad   Cable   Manage	(10) STATIC WATER LEVEL
☐ Rotary Air ☐ Rotary Mad ☐ Cable   ☑ Auger	46.0 Ft. below land surface. Date 12/05/1998
Other	Artesian Pressure Ib/sq. in. Date
(4) PROPOSED USE	(11) WATER BEARING ZONES
Domestic Community Industrial Irrigatio Injection	Depth at which water was first found 46 ft.
Livestock Thermal Other	From To Est Flow Rate 5VVL 17 245 1500 9
(5) BORE HOLE CONSTRUCTION	267 453 5000 46
Special Standards	
<u> </u>	(12) WELL LOG Ground Elevation ft.
Diameter From To Begin End Material 20.00 0.00 258 Material Depth Depth Amount Units	LOOSE SOIL & PUNICE FILL O N
15.00 58.00 513 Cement 0.00 65.00 110.0 8	BASALT RUBBLE 8 28
Cement 230.0 258.00 44.00 S	SAND & GRAVELS CONGLOMERA 25 41
	SAND STONE TUFF & BASALT 50 80
	CONGLOMERATE SO 79
Maria de la contraction de la	CEMENTED SAND & GRAVELS 79 108 LARGE COBBLES CEMENTED 108 117
How as seel placed: Method: C. Other  Beckill placed from 68 ft. TO 70 ft. Malerial BE	BASALT & GRAVELS (17 122
Filter pack from R. TO R. Stee In.	BROWN TUFF STONE 122 128
(6) CASING/LINER	TUFF & GRAVELS 128 223 BROKEN WEATHERED BASALT 223 248
Casina as	BASALT HARD REDDISH GRAY 243 287
Liner Begin End Location	BROKEN WEATHERED BASALT 267 268
	BROKEN WEATHERED BASALT 308 387
C 18.00 0.00 258.00 325 8	HARD BASALT 387 400
	BASALT HARD W/ SOME FRACTU 400 420 BROKEN WEATHERED BASALT 420 423
	BROKEN BASALT WITH CINDERS 423 422
(7) PERFORATION/SCREENS	BASALT GREY HARD 442 448
Perforation Method	HARD GREY BASALT WITH CINDERS 448 453 HARD GREY BASALT 453 513
Screens Type Material	704 010
(8) WELL TESTS (Minimum testing time is 1 hour)	Dele started 11/18/1998 Completed 2/08/4009
Type Yield Units Drawdown Stem at Duration	Unbonded) Weter Weil Constructor Certification:
Flowing 000.0 G 1.0	I carlly that the work I performed on the construction alteration or abandances as
	this well is in compliance with Oregon well construction standards. Meterials used and information reported above are true to the best knowledge and belief.
Temperature of water 53 °F/C Depth artesian flow found 267 ft.	Signed By ROBERT STADELI
Temperature of water 53 °F/C Depth artesian flow found 267 ft.  Was water enalysis done?	(bonded) Weter Well Constructor Certification: WWC Number 1822
By Whom? DAVID EVANS ASSOCIATES	accept responsibility for the construction, alteration, or abendonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon well construction standards.
Did any strate contain water not suitable for intended use? Too Little Saity	
Mudd   Odor   Colored Other	This report is true to the best of my knowledge and belief.  WWC Number 1464
Depth of strata R.	Stored by GREG MCINNIS GEO-TECH EXPLORATIONS RECEIVE
₹,	KECEIVEI

MAY 3 2004

WATER RESOURCES DEPT SALEM, OREGON

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DVWD WELL NO. 3 P.143

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

JUL 2 7 2000

WELL I.D. #L 38435

Instructions for completing this report are on the last page of this form.	START CARD# 7 TTOTAL
(1) OWNER: Well Number SALE	M, OFFICIATION OF WELL by legal description:
Name Deschots bulk, when istrict	County Jelferson Latitude Longitude
Address 381 Sil) Ciller Hir	12
City Marches State OR Zip 9774/	Section 33 SW 1/4 NE 1/4
(2) TYPE OF WORK	24
New Well Deepening Alteration (repair/recondition) Abandonment	Successfully
(3) DRILL METHOD:	Street Address of Well (or nearest address) 7055 Subcascilet
⊠ Rotary Air	(10) STATIC WATER LEVEL:
Other	1 1
(4) PROPOSED USE:	
Domestic Community Industrial Irrigation	Artesian pressure
Thermal Injection Livestock Other	(11) WATER BEARING ZONES:
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found 17
Special Construction approval Yes No Depth of Completed Well665 ft.	
Explosives used Yes No Type Amount	Form
HOLE SEAL	17/
Diameter From To Material From To Sacks or pounds	297
20"   0   17	
18' 17 270	
15" 270 66	
	(12) 11/12 \$ 1.00
How was seal placed: Method A B C D E	(12) WELL LOG: Ground Elevation
Do other bottom Sear Pumpel inside out	Glomic Fiedwick
Backfill placed from ft. to ft. Material	Material From To SWL
Gravel placed from ft. to ft. Size of gravel	Circle D 1
(6) CASING/LINER:	Ly Brisilt briblers + Great 1 100
Diameter From To Gauge Steel Plastic Welded Threaded	paratropoule thouseverte la 90
Casing: 16" 0 270 .275 🗵 🗆 🗷	Course Rightle Groves 90 100
	Carse Brisalt Gards Florido 10 110
	Basaltonud sonulatine and 110 24
	Wenthau Basalt 240 247
Liner:	WBardt-Hal-SmBrs15 247 250
	WRIGHTSOF HURLS 250 250
Final location of shoe(s)	Lexposal-margingin 25% 260
(7) PERFORATIONS/SCREENS:	Tiffw/Baralt. 260 200
Perforations Method	FireSonlySIB Title Was to favo 20 272
Screens Type Material	Harlkasalt 272 276
Slot Tele/pipe	Pasattabran chi 270
From To size Number Diameter size Casing Liner	RECEIVED
	Sec Attached - MAY 2 2001
	MAY 3 2004
	WATER RESOURCES DEPT
	SALEM OREGON
(8) WELLTESTS: Minimum testing time is 1 hour	Date started 5-3/- 2000 Completed 7-2-2000
	(unbonded) Water Well Constructor Certification:
Flowing  ☐ Pump ☐ Bailer ☐ Air ☒ Artesian	I certify that the work I performed on the construction, alteration, or abandonmen:
Yleid gal/min Drawdown Drill stem at Time	of this well is in compliance with Oregon water supply well construction standards.
l hr.	Materials used and information reported above are true to the best of me knowledge and belief.
3-400	0 www. Number /75/
	Signed Dade - E. Ber Date 7-11-200
Temperature of water 48 Depth Artesian Flow Found 297	(bonded) Water Well Constructor Certification:
Was a water analysis done? Yes By whom	I accept responsibility for the construction, alteration, or abandonment work
Did any strata contain water not suitable for intended use?	performed on this well during the construction dates reported above. All work
Salty Muddy Odor Colored Other	performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
Depth of strate:	WWC Number 1444
rychai or an are	
ODICINAL A DIDET CODY WATER RECOLDINGS DEPLACE OF	Signed Date 7/36/
ORIGINAL & FIRST COPY-WATER RESOURCES DEPARTMENT SE	COND COPY-CONSTRUCTOR THIRD COPY-CUSTOMER

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DUND WELLNO.3 P.

JUL 2 7 2000

# Well Log (Cont.) WATER RESOURCES DEPT. SALEM, OREGON

	U. LELIN, OF IEC	014
Basalt with Brown Silty Clay	276	277
Basalt some tan clays, gray to dark red	277	278
Basalt some silts, black and red	278	282
Basalt darken, less clay and silts	282	283
Basalt, dark gray, some weathered	283	284
Hard Dense Basalt	284	293
Hard Dense Basalt, some fractured	<b>29</b> 3	295
Hard Dense Basalt with tan clays	295	<b>29</b> 7
Fractured, broke basalt	<b>297</b>	300
Weathered red coarse sandstone & basalt gravel	300	304
Coarse Basalt and Gravel	304	308
Coarse Brown Sandy Silts, w/light brown ash	308	317
V. Coarse Basalt and Gravel	317	321
Weathered Basalt, w/some gravel	321	324
Hard Dense Basalt, weathered	324	335
Tan Sandy Silt and Clay	335	338
Less Weathered Hard Basalt	338	345
Coarse Sand and Gravel	345	353
Dark Gray Coarse Soft Sand and Silts	353	363
Some Hard Basalt	363	365
Sand and Gravel, Soft	365	370
Sand and Gravel	370	388
Hard Weathered Basalt, Small Fractured	388	410
Hard Dense Basalt	410	431
Weathered Broken Basalt, Some Tan Class Filling	431	437
Broken Basalt With Red Cinders	437	440
Broken Weathered Basalt, Hard	440	445
Hard Dense Basalt	445	448
Broken Weathered Basalt	448	450
Some Tan Clay	450	453
Hard Dense Basalt	453	500
Hard Fractured Basalt w/Tan Clay	500	505
Weathered Red Basalt With Tan Clay	505	RECEIVED

MAY 3 2004

JEFF 50654
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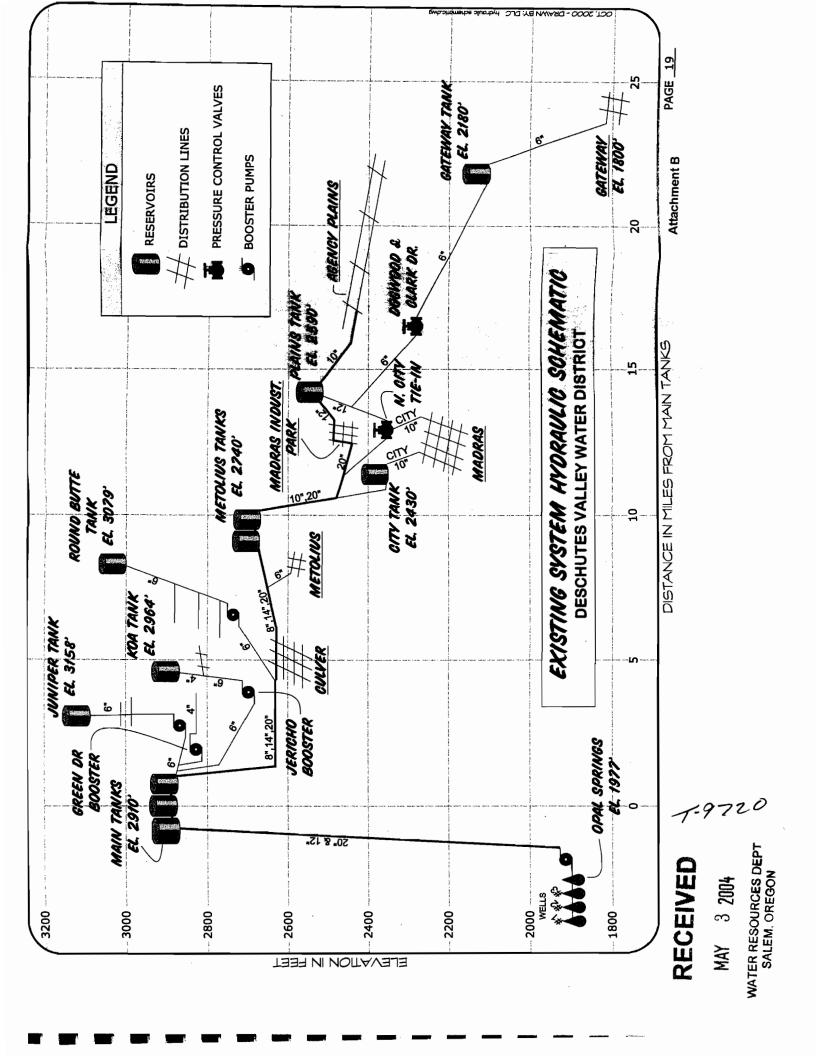
## DUND WELL NO.3 PS4:

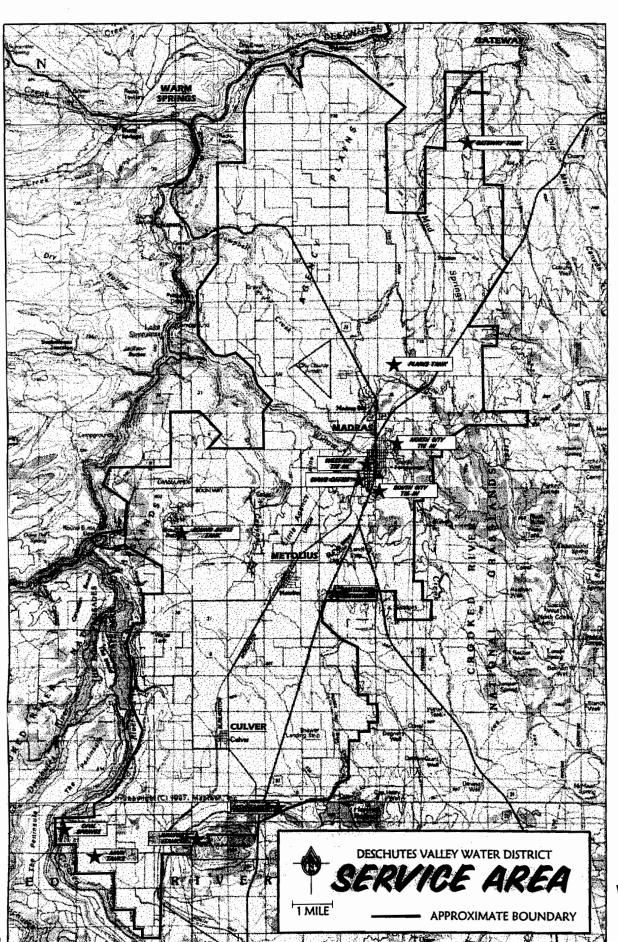
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J	UL	4	1	ZU	บบ

Hard Weathered Basalt With Tan Clays	510	521
Slightly Softer Basalt  Slightly Softer Basalt  SALEM, OREGON	EPT 521	530
Some Tan Clay	530	542
Cinders, Weathered Basalt, Tan Clay	542	545
Very Cindery, Weathered	545	547
Hard, Fractured Basalt With Tan Clay	547	572
More Fractured Broken Weathered Basalt	572	587
More Fractured Basalt, Tan Clay	587	<b>59</b> 1
Decreasing Fractured Basalt	<b>59</b> 1	600
Medium to Hard Basalt	600	601
U. Hard Basalt	601	607
Fractured, Weathered Basalt, With Tan Clay	607	611
Red Cinders, Weathered Basalt With Lots of Clay	611	620
Red Cinder, Weathered Basalt & Tan Clay	620	625
Decreasing Cinders	625	627
Decreasing Clay	627	630
Weathered Basalt	630	638
Large Fractured Tan Clay	638	640
Weathered Basalt and Tan Clay	640	650
Fractured Basalt, Tan Clay	650	652
Some Fractured Basalt, Clay	652	655
Harder Basalt, Some Fractured	655	660
Dense Hard Basalt	660	665

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WATER RESOURCES DEPT SALEM, OREGON

Attachment C