

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-23097

Exam Date: 10/5/2016

1. Current Owner:
KCM ENTERPRISES LP C/O RON MAYHEW
2098 W CHAMPAGNE CT EAGLE ID 83616 (208)939-8551

2. Accompanied by: Ron Mayhew
Phone No: (208) 939-8551
Address: 2098 W Champagne Court, Eagle, ID 83616
Relationship to Permit Holder: General partner of KCM Enterprises LP

3. **SOURCE:** GROUND WATER **TRIBUTARY:**

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None
2. Other water rights with the same point-of-diversion: None

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**GROUND WATER SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 7, Twp 06N, Rge 01E, B.M. GEM County

Method of Determination: Field exam and PLS data was used to verify the WR permit legal descriptions.

2.

PLACE OF USE: DOMESTIC

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	01E	18		X															

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
06N	01E	7															X	X	
06N	01E	18	X	X	X														

Method of Determination: Field exam and PLS data was used to verify the WR permit legal descriptions.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

☒ Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

☒ Aerial Photo Attached (required for irrigation of 10+ acres).☒ Photo of Diversion and System Attached

4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
D0047621	NA	10	NA	Hitachi	NA

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
Ultrasonic	Flow Meter	Octave	AWWA C750	13334236	3"; 175 psi; 250 GPM Max	2013

2. Measurements: During the field exam, the flow meter measured 120.5 GPM, which is equivalent to ~ 0.27 cfs shown in the attached picture.

E. FLOW CALCULATIONS

Measured Method: NA

____ Additional Computation Sheets Attached

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NA

2. Volume Calculations for OTHER Uses:

Domestic use is recommended with a rate of 0.03 cfs and a volume limit of 1.2 afa per Administrator's Memorandum 22 (permitted rate is only 0.03 cfs). Stockwater use is recommended with a rate of 0.05 cfs and a volume limit of 2.7 afa per Administrator's Memorandum 3 (50-150 range cattle).

G. NARRATIVE/REMARKS/COMMENTS

The field exam was conducted on October 5, 2016 by WA Aaron Skinner and was accompanied with the permit holder, Ron Mayhew, general partner of KCM Enterprises LP.

Taxlot data indicates KCM Enterprises as the current property owner matching ownership of WR permit no. 65-23097.

The well for WR permit no. 65-23097 was drilled on 11/20/2006 for domestic and irrigation use according to the well log on file. The well has a static level of 95' and a total depth of 213'. A Hitachi 10 Hp single phase pump was submerged, providing water to the developed system. A 3" Octave flow meter was incorporated into the system at the POD. A 4" PVC line follows the dirt road to the top of the hill, adjacent to the yurt. 10 - 2" risers are placed along the road used to fill water troughs for stockwater use. At the top of the hill, the 4" water line runs to a buried 1,050 gallon storage tank. A water line then runs to a valve box under the deck surrounding the yurt. The valve box controls domestic use. Troughs are located in various locations within the defined QQs of this field exam report. Troughs are routinely moved within the QQs so GPS locations were NOT obtained. Mr. Mayhew said he rents out the land to Little Enterprises LP for range cattle use. QQ SESW of section 7 was removed and not forwarded to licensing for stockwater use. QQs NENW, SENW, SENE, SWNW, NESW, and NWSE of section 18 were removed and not forwarded to licensing for stockwater use.

Although WR permit no. 65-23097 authorizes irrigation for 10 acres, the field exam indicated that irrigation was NOT put into beneficial use. Current and historical aerial imagery of the POU area was used to better establish a boundary of irrigated land. The imagery could not justify any irrigation use or boundary. Typical irrigation patterns are easy to visualize, but in this case, there was no difference in vegetation growth or color in the general area with respect to what was permitted to be irrigated. Mr. Mayhew explained that irrigation pipe and sprinklers were NOT present because the neighbor down the road was currently using them. The Department's definition of irrigation states, "IDWR generally does not recognize watering natural/native vegetation as an irrigation beneficial use when approving new water rights." As a result of this definition and exam findings, beneficial use of irrigation on the permit is not recommended to be forwarded to licensing. The POD is outside the Groundwater Management Area and other restricted areas. Therefore, irrigation can be used under the domestic exemption found in Administrator's memorandum # 22. This allows irrigation use up to ½ an acre. It is recommended that Mr. Mayhew reapply for irrigation use outside the ½ acre while establishing a beneficial use for the water.

Domestic use is recommended with a rate of 0.03 cfs (permitted rate) and a volume limit of 1.2 afa per Administrator's Memorandum 22. Stockwater use is recommended with a rate of 0.05 cfs and a volume limit of 2.7 afa per Administrator's Memorandum 3 (50-150 range cattle).

Overlap analysis for POD and POU areas did not expose any WRs within the same areas as WR permit no. 65-23097.

Condition 01M is recommended to be forwarded to licensing. Condition 004 is removed as the permit holder owns the land and no easement is necessary. Condition 121 was changed to 103 and forwarded to licensing. Condition 26A was removed. Condition R65 was removed as there is no irrigation BU associated with the license recommendations. Condition X02 was removed per Department policy. Condition 020 and X01 are recommended to be forwarded to licensing.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
STOCKWATER	01/01 to 12/31	0.05 CFS	2.7 AF
DOMESTIC	01/01 to 12/31	0.03 CFS	1.2 AF
	<u>Totals:</u>	0.080 CFS	3.90 AF

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION

Field Examiner's Name Aaron Skinner Date 10/5/2016

Reviewer Patrick Kelly Date 11-28-2016

System Diagram for WR Permit No. 65-23097

SWSE

SESE

7

06N01E

NWNE

NENE

18

Legend

- Well
- Valve_Box
- Storage_Tank
- Power Station
- 2" Riser
- 4" PVC Supply Line



0 125 250 500 Feet

NESW

POD/POU to WR Permit no. 6523097

NWSE

NESE

NWSW

7

8

SESW

SWSE

SESE

SWSW

NENW

NWNE

NENE

NWNW

00N01E

SENW

SWNE

SENE

17
SWNW

18

17

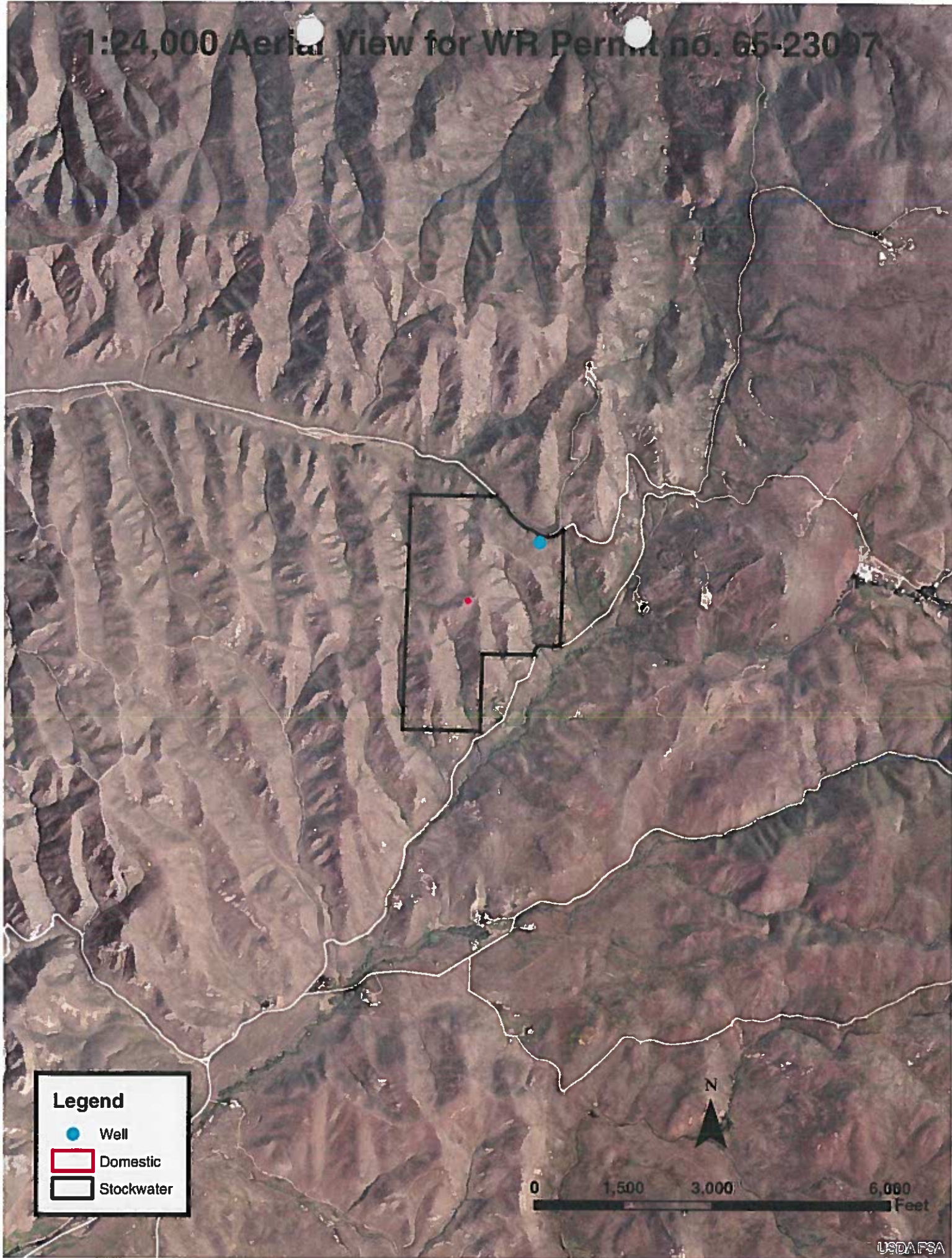
Legend

- Well
- Domestic
- Stockwater



0 375 750 1,500 Feet

1:24,000 Aerial View for WR Permit no. 65-23097



Legend

-  Well
-  Domestic
-  Stockwater

0 1,500 3,000 6,000 Feet



Flow measurement obtained during the field exam verifying 0.28 cfs as permitted. 120.5 gpm is equivalent to ~0.27 cfs.

October 5, 2016

Field Exam 65-23097

WRA Aaron Skinner

Overlap Analysis for WR # 65-23097 POD

06M01E7	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
Process	65-13166	N	LITTLE LAND & LIVESTOCK CO	SPRINGS																	
Water Right	65-23097	Y	KCM ENTERPRISES LP	GROUND WATER					X												
Water Right	65-9469	N	LITTLE LAND & LIVESTOCK CO; LITTLE, DAVID	SPRINGS										X							X

Overlap Analysis for WR # 65-23097 POU

06M01E7	BasinSequence	Draft	Owner	Source	Use	NENE	NWNE	SWNE	SENE	NENW	NWNW	SWNW	SENW	NESW	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE
Process	65-13166	N	LITTLE LAND & LIVESTOCK CO	SPRINGS																	
Water Right	65-23097	Y	KCM ENTERPRISES LP	GROUND WATER	STOCKWATER					X											X
Water Right	65-9469	N	LITTLE LAND & LIVESTOCK CO; LITTLE, DAVID	SPRINGS	STOCKWATER									X			X				X

65

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

RECEIVED

DEC 08 2006

843556

Location Corrected by IDWR To:

T06N R01E Sec. 7 SESESE

By: mciscell 2013-10-17

1. WELL TAG NO. D D0047621
 DRILLING PERMIT NO. 897435-843556
 Water Right or Injection Well No. 65-23097

2. OWNER:

Name KCM ENTERPRISES LP
 Address 2098 W. CHAMPAGNE CT.
 City EAGLE State ID Zip 83616

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub. or Directions to well.

Twp. 6 North ☒ or South ☐
 Rge. 1 East ☒ or West ☐
 Sec. 7 SW 1/4 SE 1/4 SE 1/4
 Gov'l Lot 100 County GEM 100 acres
 Lat: 43° 51' 48" N Long: 116° 20' 50" W
 Address of Well Site SANDHOLLOW RD.

City EMMETTLi. Blk. Sub. Name

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☒ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply

(Replacement etc.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>5/8 BENTONITE</u>	<u>0</u>	<u>19</u>	<u>1650 lbs.</u>	<u>12" OVERBORE</u>

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 1165'Was drive shoe seal tested? ☐ Y ☒ N How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
<u>8"</u>	<u>12</u>	<u>165</u>	<u>.250</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>6"</u>	<u>162</u>	<u>170</u>	<u>.250</u>	<u>STEEL</u>	☐	☒	☒	☐
<u>5"</u>	<u>211</u>	<u>213</u>	<u>.28</u>	<u>STEEL</u>	☐	☒	☒	☐

Length of Headpipe 7.9 Length of Tailpipe 2.0Packer ☒ Y ☐ N Type RUBBER K-PACKER

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method Screen Type & Method of Installation JOHNSON / PULLBACK

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>170</u>	<u>211</u>	<u>.020</u>	<u>304</u>	<u>5"</u>	<u>S.S.</u>	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>N/A</u>				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

95 ft. below ground Artesian pressure lb.
 Depth flow encountered ft. Describe access port or control devices:

12. WELL TESTS:

☐ Pump ☐ Bailor ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>150 +</u>		<u>165'</u>	<u>1 hr.</u>
<u>80</u>		<u>212'</u>	<u>1 hr.</u>

Water Temp. Bottom hole temp. Water Quality test or comments: Depth first Water Encounter

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water	Y	N
<u>12"</u>	<u>0</u>	<u>2</u>	<u>TOP SOIL</u>			☒
	<u>2</u>	<u>12</u>	<u>BROWN CLAY</u>			☒
	<u>12</u>	<u>19</u>	<u>TAN CLAY</u>			☒
<u>8"</u>	<u>19</u>	<u>40</u>	<u>BROWN CLAY</u>			☒
	<u>40</u>	<u>60</u>	<u>BROWN CLAY w/ SAND</u>			☒
	<u>60</u>	<u>110</u>	<u>BROWN CLAY</u>			☒
	<u>110</u>	<u>115</u>	<u>QUARTZ SAND</u>		☒	
	<u>115</u>	<u>140</u>	<u>SANDY CLAY</u>			☒
	<u>140</u>	<u>145</u>	<u>QUARTZ SAND</u>		☒	
	<u>145</u>	<u>155</u>	<u>BROWN CLAY</u>			☒
	<u>155</u>	<u>165</u>	<u>BROWN/BLACK CLAY</u>			☒
	<u>165</u>	<u>170</u>	<u>COARSE SAND / GENEZ w/ CLAY</u>		☒	
	<u>170</u>	<u>180</u>	<u>COARSE SAND</u>		☒	
	<u>180</u>	<u>200</u>	<u>HEAVING COARSE SAND</u>		☒	
	<u>200</u>	<u>208</u>	<u>CLAY w/ SAND STRIPS</u>		☒	
	<u>208</u>	<u>212</u>	<u>COARSE SAND</u>		☒	
	<u>212</u>	<u>213</u>	<u>BROWN CLAY</u>			☒

Completed Depth 213' (Measurable)Date: Started 11/17/06 Completed 11/20/06

14. DRILLER'S CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name D P W D Firm No. 332Principal Driller Mark B... Date 11/21/06Driller or Operator II Date Operator I Date

Principal Driller and Rig Operator Required.
 Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES



Power source for the well. This is located in the SESE QQ of section 7.



Power supply and marked with the correct township and range.

	Lever to power the well and pumps.
	Well ID tag D0047621.



Flow meter installed on the system and verified during field exam. 120.5 GPM = ~0.27 cfs.



POD and 4" PVC that diverts water to the various risers, storage tank, and yurt. The well pump is a 10 Hp single phase Hitachi.



One of the nine 2" risers that follow the road up to the yurt. These risers are theoretically used to irrigate 10 acres in QQs NENE and SWSE in section 7, QQs NWNE, NENE, and SWNE is section 18.



This type of riser is found at the top of the hill around the yurt – 2" pipe that has an adapter to 1.5" or 3/4".



Image was taken from the road up to the yurt looking northwest. This is a suggested beneficial use area for irrigation (SWSE QQ of section 7).



The road up to the yurt.



This is a suggested beneficial use area for irrigation (NWNE QQ of section 18).



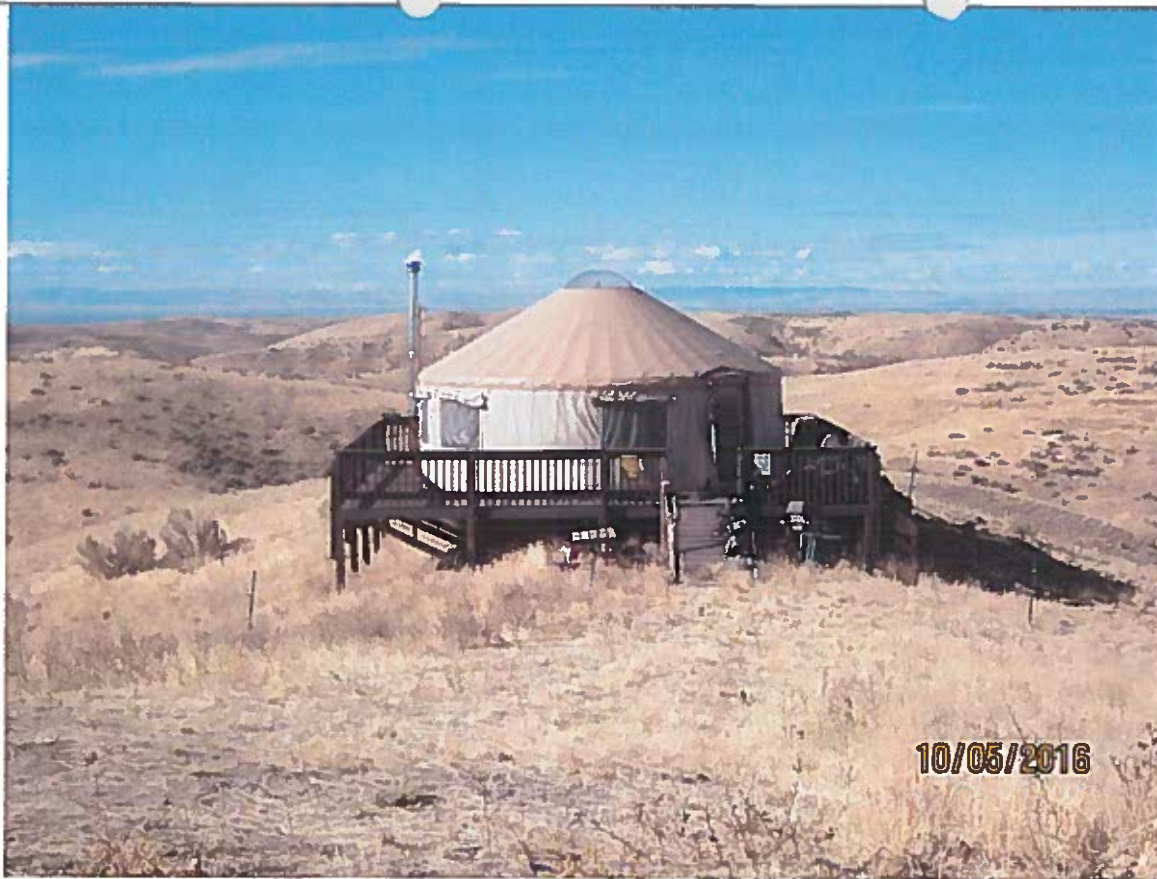
This is a suggested beneficial use area for irrigation (NWNE QQ of section 18).



Beneficial use area for irrigation up at the top of the hill by the yurt.



2" riser with a $\frac{3}{4}$ " reducer. This is located east of the yurt on top of the hill.



Yurt!!



Riser and
buried 1,050
gallon storage
tank for
domestic use.



Buried 1,050 gallon water storage tank.



A riser in the distance on the left of the image. This is located south of the storage tank and is theoretically used for irrigation and trough refill.



Another close up of the risers at the top of the hill by the yurt. These are installed for irrigation and to fill troughs for stockwater use.



Valve box under the deck that surrounds the yurt. This controls water for domestic use.



Another area
proposed for
irrigation
(draw in QQ
SESE in
section 7).