

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-9787

Exam Date: 07/15/2025

1. Current Owner:
TND HOLDINGS LLC 582 W HAYDEN AVE HAYDEN ID 83835-9726
2. Accompanied by: Brian Brinkmeier
Phone No: 208-265-1622
Address: 468945 HWY 95 Sagle ID 83860
Relationship to permit Holder: Representative

3. **SOURCE:**
GROUND WATER

Method of Determination: ArcMap and DRG Layer.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
96-7240	Ground Water	Commercial, Domestic	License
96-7918	Ground Water	Irrigation, Commercial, Domestic	License
96-8128	Ground Water	Irrigation, Domestic	License
96-8572	Ground Water	Irrigation, Domestic	License
96-8316	Ground Water	Commercial	License
96-9004, 96-9429	Ground Water	Municipal	License

Comments: Backfile review of the licensed Water Right(s) listed above shows that none are associated with the Permit Holders private groundwater well developed for industrial water use.

- 96-7240 & 96-7918 are associated with a trailer/RV park that was designated with a 40-ac tract POU.
- 96-8128 is associated with a multi-home (45) subdivision that was designated with a 40-ac tract POU.
- 96-8572 is associated with a 30-unit mobile home park that was designated with a 40-ac tract POU.
- 96-8316 is associated with a gas station & grocery store that was designated with a 40-ac tract POU.
- 96-9004 & 96-9429 are owned by Sagle Valley Water & Sewer District, which has a large municipal service area but does not serve water to the Permit Holder's parcel.

There is no concern for overlap toward licensing this Permit as each WR is evaluated through the Clark Fork Pend Oreille River Basin Adjudication (CFPRBA) process POU shape designations shall be refined accordingly. The well-construction business located on the parcel associated with this Permit; H2O Well Services Inc, has 2ea private GW wells located on the property.

2. Other water rights with the same point-of-diversion: NO Overlap

Comments: D0084421 uses water for industrial use and well D0086622 is currently serving the business building domestic use with up to ½ acre irrigation under Domestic use covered by §42-111. It is not apparent if a Notice of Claim will be filed in the CFPRBA for the domestic water usage from well D0086622, but it isn't required by current statute.

C. DIVERSION AND DELIVERY SYSTEM1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER NW¼ NW¼, Sec. 15, Twp 56N, Rge 02W, B.M. BONNER County

Method of Determination: GPS. POD is located at -116°33.753, 48°12.284 well D0084421.

PLACE OF USE: INDUSTRIAL

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
56N	02W	15						X	X										

Method of Determination: Beneficial use field exam and ArcMap aerial imagery.

3.

X Delivery System Diagram Attached (required). Indicate all major components and distances between components.
X Indicate weir size/pipe as applicable.

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

X Aerial Photo Attached (required for irrigation of 10+ acres).

X 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
D0084421	Franklin Electric	7.5		Goulds – Model 85GS	Direct discharge from well head 2-inch hose adapter

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
NONE						

2. Measurements: Water system as developed uses direct open port discharge from well-head to fill trailered water tanks. No tanks were available at time of exam to perform flow measurements. The well construction company, H2O Well Services Inc., who operates the business and water system provided pump curve data to facilitate flow rate determination.

E. FLOW CALCULATIONS

X Additional Computation Sheets Attached

Measured Method: flow measurements are not required in accordance with IDAPA 37.03.02 – Beneficial Use Examination Rules, Section 035.01.q.iii., which authorizes diversion rates of less than 0.24 cfs for any other use than irrigation or storage as long as the point of diversion can be validated by documents including the well driller report and records including pump information and pump capacity documents.

- Permit authorized Industrial beneficial use with a diversion rate of 0.22 cfs.
- Pump curve data supplied by the well construction company demonstrates the 7.5 hp well pump operating at very low pressure (open porting to fill tanks) has a capacity of 108 gpm – 120 gpm or 0.24 cfs – 0.27 cfs.
- Theoretic Pump Equation considering the 7.5 hp pump is hung at depth of 180 ft and open port operations at approximately 20 PSI result in a flow rate of 105 gpm or 0.23 cfs considering Department rounding standards.
- I'm recommending the maximum diversion rate of 0.22 cfs for licensing purposes. The Permit Holder is limited by the permit authorized diversion rate which can't be enlarged at time of licensing.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation: N/A

2. Volume Calculations for Other Uses: I'm not recommending an annual volume or maximum diversion volume be applied to the face of the license. Volume limitations shall be set forth in conditions of approval to **no more than 2,500 gpd for industrial use.**

G. NARRATIVE/REMARKS/COMMENTS

I conducted the beneficial use field exam on 7/15/2025 with the Permit Holder's representative, Brian Brinkmeier – H2O Well Services Inc., which showed an 8-inch cased ground water well being used for industrial purposes related to a well drilling and pump company. At the POD, well D0084421 has been developed with a direct open port discharge 2-inch hose connection that is used to fill trailer mounted water tanks and trucks used for a well construction activity off site from the POU for this Permit. The well tag information is different than what was entered on the Statement of Completion submitted by the Applicant, but this was an apparent miss-information as the well D-Tag is clearly visible welded to the side of the 8-inch casing.

Pump performance curve data supplied by Mr. Brinkmeier demonstrates that the 7.5 hp Goulds pump matched with Franklin Electric motor can produce **0.22 cfs**, which is what I recommend for licensing the beneficial industrial use authorized by the Permit. Higher flow rates are accomplished by direct discharge (open port) operations where pumping is not restricted in the delivery of water from well head to water tank. While I was unable to perform a flow measurement during the exam, Idaho Code discussed above makes allowances for water systems that produce less than 0.24 cfs to not incorporate a flow measurement if adequate information is able to be collected to validate the water system diversion rate.

The Industrial POU has been designated as the small parcel which houses H2O Well Services Inc., and the well head is in a fenced gravel yard where trailered water tanks are filled in preparation for well construction activities. I used ArcMap aerial imagery to assign the POU for licensing purposes. Mr. Brinkmeier asserts that there isn't a flow meter installed to collect volumetric data, but that each year is variable on the amount of construction water that is needed to facilitate a couple of well drilling crews. Additionally, the construction water necessary to drill a well is variable depending on the type of well being constructed. Mr. Brinkmeier did assert that each tank is around 1,200 gallons and that normal operations are to fill two tanks per day throughout the year. This made evaluating an annual volume to assign as a maximum diversion volume inconclusive due to there not being any volumetric data on file from the development period.

I have recommended that there be no maximum diversion volume or annual volume assigned to the face of the Water Right License. Instead, I recommend incorporating Condition of Approval X03, which reads "**The daily diversion volume for the industrial use authorized under this right shall not exceed 2,500 gallons per day.**" This condition was used prior to 7/1/2025 when State Legislation changed the definition of Domestic for Idaho Code §42-111(1)(b), but the development of beneficial use occurred prior to 7/1/2025 with submission of the Statement of Completion form received by the Department on 2/3/2025. While the water system doesn't conform entirely with §42-111(1)(b) in that the diversion rate exceeds 0.04 cfs, the daily volume limitation is reasonable for the historic use from the well for industrial beneficial use by the well drilling company. If the Permit Holder finds their operations expand and additional tank fills beyond 2,500 gallons per day are needed a new application for permit is required to add additional water rights from well D0084421.

During licensing review, I have removed conditions 26A and 046 based on compliance by the Permit Holder in project development. I have added condition X03 to designate volume allowance for the Water Right. All other conditions on the Permit shall be carried forward to the license. There was not a condition related to installation of a flow measuring device

which limits IDWR from requiring one on the License, but I recommend the Right Holder consider installing a flow meter to enable them to track daily volume and/or know when additional water rights are necessary. As it stands, until time the Sagle area falls within water measurement district no flow meter installation is mandated for this water system.

I've detailed all overlapping water right concerns on PG1 of this report; there aren't any overlapping concerns toward licensing 96-9787.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS

1. Recommended Amounts

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>
INDUSTRIAL	01/01 to 12/31	0.22 CFS

Totals: 0.22 CFS

2. Recommended Amendments

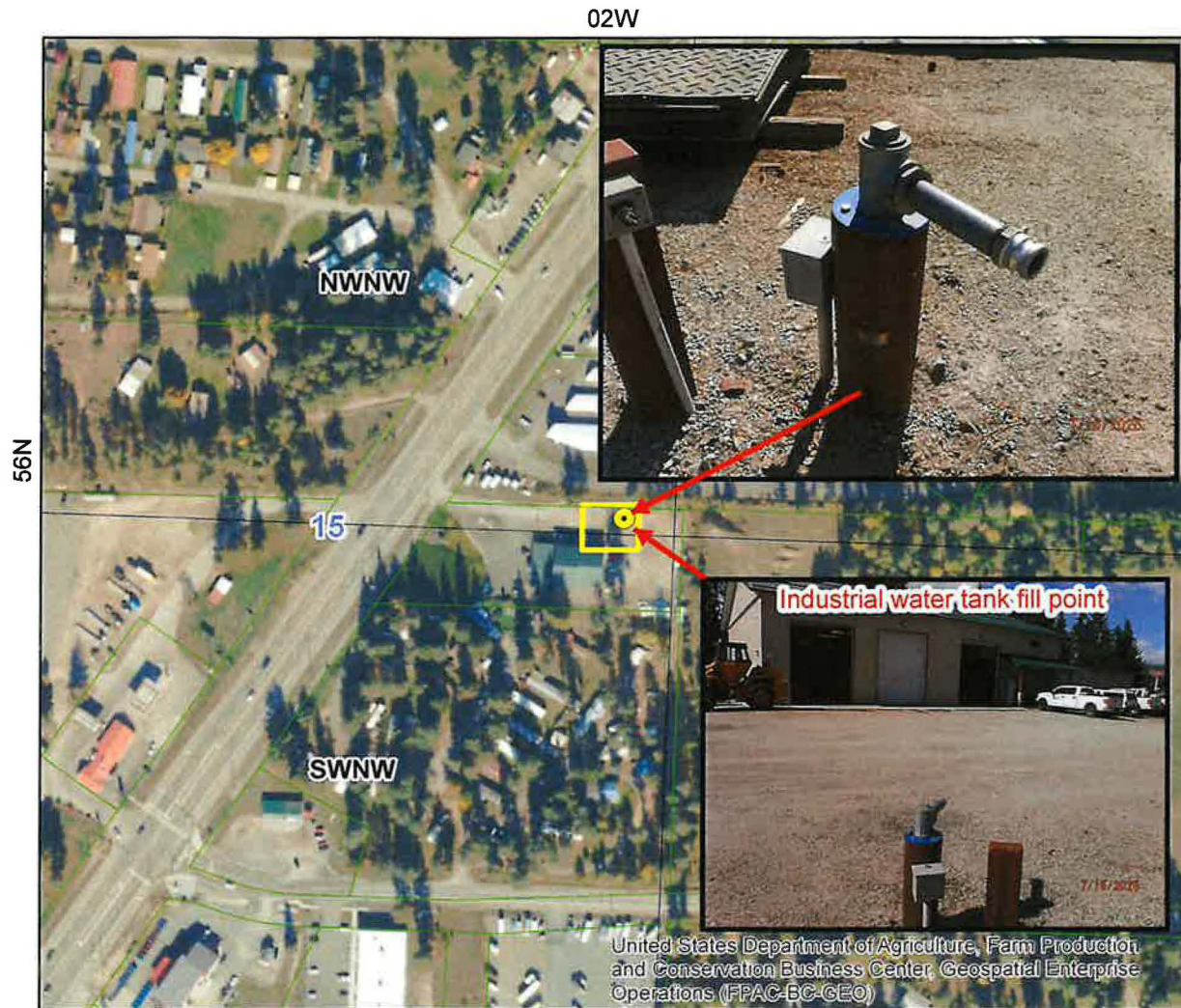
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None
☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☒ None

I. AUTHENTICATION Luke Bates – Sr Water Resource Agent

Field Examiner's Name  Date 11/5/2025
 Reviewer Michelle Richne Date 6/30/2026

State of Idaho
Department of Water Resources
Attachment to Field Exam
96-9787

This map depicts the INDUSTRIAL system diagram.



0 0.035 0.07 0.14 Miles

-  Place Of Use Boundary
-  Point of Diversion
-  Townships
-  PLS Sections
-  Quarter Quarters



Bates, Luke

From: Brian Brinkmeier <BrianB@h2owell.com>
Sent: Monday, August 4, 2025 2:37 PM
To: Bates, Luke
Subject: RE: Permit 96-9787

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Luke,
There should be very little to no pressure, as it feeds to open discharge, (air gap) to our water tender trucks.

Respectfully,

Brian Brinkmeier
General Manager / Sagle, ID
Project Sales Manager
Off. # (208) 265-1622
Cell # (208) 659-7610
brian@h2owell.com



582 West Hayden Avenue - Hayden Lake, Idaho 83835

(208) 772-4004 Office - (800) 772-4901 Toll Free - (208) 772-4892 Fax

From: Bates, Luke <Luke.Bates@idwr.idaho.gov>
Sent: Monday, August 4, 2025 2:34 PM
To: Brian Brinkmeier <BrianB@h2owell.com>
Subject: RE: Permit 96-9787

Brian,
Good afternoon. Thank you for sending that information forward. I will add it to the Permit's licensing exam documentation.

Follow-up question, what PSI does the system operate under when pumping?

Thank you,

Bates, Luke

Idaho Department of Water Resources
Water Resource Agent
Northern

(208) 762-2817 Work
Luke.Bates@idwr.idaho.gov
7600 Mineral Drive
Suite 100
Coeur d'Alene, Idaho 83815-7763

From: Brian Brinkmeier <BrianB@h2owell.com>

Sent: Monday, August 4, 2025 2:06 PM

To: Bates, Luke <Luke.Bates@idwr.idaho.gov>

Subject: RE: Permit 96-9787

CAUTION: This email originated outside the State of Idaho network. Verify links and attachments BEFORE you click or open, even if you recognize and/or trust the sender. Contact your agency service desk with any concerns.

Luke,

Good afternoon sir. Please see attached the pump specs, along with the pump curve, for which is the pump in our well for filling the water trucks. Please feel free to reach out with any further questions you might have.

Respectfully,

Brian Brinkmeier
General Manager / Sagle, ID
Project Sales Manager
Off. # (208) 265-1622
Cell # (208) 659-7610
brian@h2owell.com



582 West Hayden Avenue - Hayden Lake, Idaho 83835

(208) 772-4004 Office • (800) 772-4901 Toll Free • (208) 772-4892 Fax

From: Bates, Luke <Luke.Bates@idwr.idaho.gov>

Sent: Tuesday, July 22, 2025 12:30 PM

To: Brian Brinkmeier <BrianB@h2owell.com>

Subject: Permit 96-9787

Brian,

Good afternoon. Thank you for meeting with me on 7/15 to conduct the field exam toward licensing Permit 96-9787.

As discussed, IDWR requests the well pump information for the 8" well and a pump curve demonstrating the flow capacity as it is currently set up.

If we are unable to collect this data, I will need to revisit and have an empty tank or truck of known volume which we can time to full; this would enable me to calculate a diversion rate based on time to fill.

Thank you,

Bates, Luke

Idaho Department of Water Resources
Water Resource Agent
Northern

(208) 762-2817 Work

Luke.Bates@idwr.idaho.gov

7600 Mineral Drive

Suite 100

Coeur d'Alene, Idaho 83815-7763

Residential Water

MODEL 85GS

SELECTION CHART

Horsepower Range 3 - 10, Recommended Range 40 - 120 GPM, 60 Hz, 3450 RPM

Pump Model	HP	PSI	Depth to Water in Feet/Ratings in GPM (Gallons per Minute)																							
			20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	440	480	520	
85GS30	3	0		112	103	92	79	64	48																	
		20	100	88	74	59	42																			
		30	86	72	57	39																				
		40	70	54																						
		50	52																							
		60																								
Shut-off PSI			66	58	49	40	32																			
85GS50	5	0				114	109	103	97	90	83	74	66	57	47											
		20	119	113	107	101	95	88	80	72	63	54	43													
		30	112	106	101	94	87	79	70	62	52	41														
		40	105	100	93	85	77	69	60	51	40															
		50	99	92	84	76	68	59	49																	
		60	91	83	75	66	58	48																		
Shut-off PSI			128	119	111	102	93	85	76	67	58	50	41	33	24											
85GS75	7½	0					119	115	111	108	104	100	95	91	86	81	76	71	65	59	52					
		20				118	114	110	106	102	98	94	89	84	80	74	69	63	57	50	41					
		30				117	113	110	106	102	98	93	88	84	79	74	68	62	56	48	40					
		40	120	116	113	109	105	101	97	92	88	83	78	73	67	61	55	47								
		50	116	112	109	105	101	96	92	87	82	77	72	66	60	54	46									
		60	112	108	104	100	95	91	86	81	76	71	66	59	53	45										
Shut-off PSI			203	194	185	177	168	159	151	142	133	125	116	107	99	90	81	73	64	55	47	38				
85GS100	10	0						119	116	114	111	108	104	101	97	94	90	87	83	79	71	62	52			
		20					118	116	113	110	107	103	100	96	93	89	85	82	78	74	70	61	50			
		30					120	118	115	112	109	106	103	99	96	92	89	85	81	77	73	69	55	42		
		40				120	117	115	112	109	106	102	99	95	92	88	84	81	77	73	68	64	59	48		
		50			120	117	114	111	108	105	102	98	95	91	87	84	80	76	72	68	63	58	53	40		
		60	119	117	114	111	108	105	101	98	94	91	87	83	79	75	71	67	63	58	52	46				
Shut-off PSI			265	257	248	239	231	222	213	205	196	188	179	170	162	153	144	136	127	118	110	101	84	66	49	

GOULDS 85GPM PUMP END 7.5 H.P.

FRANKLIN 7.5 H.P. SINGLE PHASE MOTOR

SET DEPTH 180'

PUMPING APPROX. 108GPM - 120GPM

THEORETICAL PUMPING EQUATION(S) FOR WR# 96-9787

Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to lift 108 ft, and running at 45 psi.

PUMP EQUATION

WATER RIGHT No. 96-9787

D0084421	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
$Q = \frac{HP \cdot 8.8 \cdot \text{Eff}}{H}$	7.5	284.0816	0.8	180	45
$Q =$ 0.186 cfs 83.6 gpm					

Theoretical Pumping Equation is required because system did not allow for a proper measurement. Pump is estimated to lift 108 ft, and running at 45 psi.

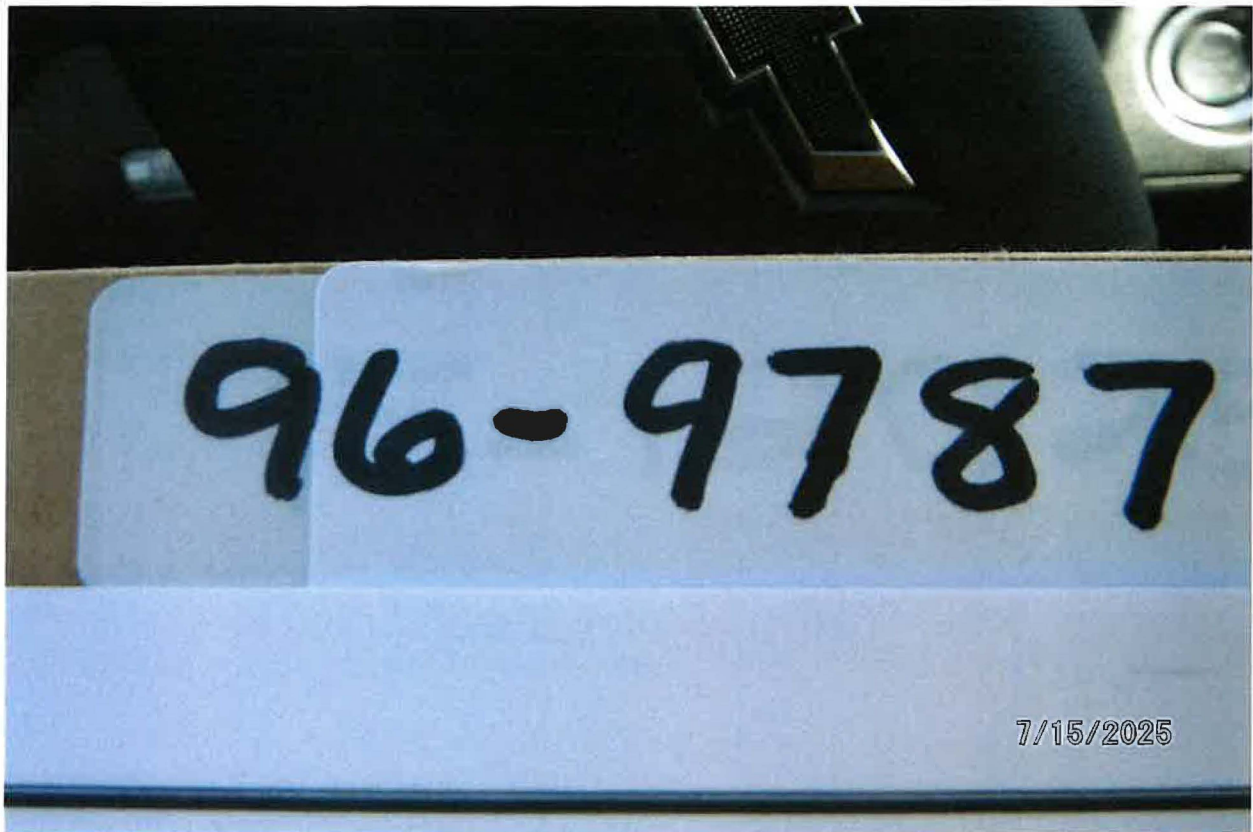
PUMP EQUATION

WATER RIGHT No. 96-9787

D0084421	HP	H in feet	Efficiency as a decimal	Pumping lift in feet	System pressure in PSI
Q = $HP \cdot 8.8 \cdot \text{Eff} / H$	7.5	226.2585	0.8	180	20

Q = **0.234 cfs** **104.9 gpm**

Pumping to open Discharge reduces operating PSI ;
 Reference this pump curve found in email correspondence
 with this Theoretical Pump Equation. The Pump Curve
 is reasonable based on "open Discharge Pumping".



BENEFICIAL USE FIELD EXAM DATE 7/15/2025



POD - 8-INCH CASED GROUND WATER WELL



POD – GW WELL D-TAG D008421



FRANKLIN ELECTRIC EATON MODEL ECN0522BAA 7.5 HP PUMP MOTOR RELAY CONTROL PANEL, ATTACHED TO A GOULDS MODEL 85 GS 7.5 HP WELL PUMP



PUMP MOTOR RELAY CONTROL PANEL – 7.5 HP



INDUSTRIAL POU – WELL CAPPED WITH WATER TRUCK FILL POINT ADAPTER –
INDUSTRIAL USE TO FILL WATER TANKS/TENDER TRUCKS IN SUPPORT OF WELL
CONSTRUCTION ACTIVITIES.