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CENTENNIAL PROJECT \mathcal{H} WELD COUNTY, COLORADO \checkmark Notice of Intent Modification MD-03 File No. P-2008-043 \checkmark

RESPONSE TO DIVISION OF RECLAMATION, MINING, AND SAFETY SEPTEMBER 25, 2009, LETTER



5575 DTC Parkway, Suite 140 Greenwood Village, Colorado 80111 USA

28 October 2009



October 27, 2009

Allen C. Sorenson Senior Environmental Protection Specialist Division of Reclamation, Mining and Safety 1313 Sherman Street, Room 215 Denver, Colorado 80203

RE: Request for Additional Information (Notice of Intent (NOI) MD-03, File No. P-2008-043) Centennial Project, Weld County, Colorado

Dear Mr. Sorenson:

In response to your letter dated September 25, 2009, please find enclosed Powertech's responses to the request for additional information received from the Colorado Division of Reclamation Mining and Safety (DRMS). We understand that the requested information is necessary in order for DRMS to complete its review of the Modification (MD-03) to NOI File Number P-2008-043. Below is a list of information and attachments enclosed herewith that are intended to assist DRMS in its review.

- Report prepared by Powertech that responds to NOI MD-03 File Number P-2008-043 Completeness Issue Items 1 through 5; 7 through 10; 15; and 16 a, b, d, e, and f.
- Attachments referenced in the Powertech NOI MD-03 File Number P-2008-043 Completeness Issue Items report.
- Report prepared by Petrotek Engineering Corporation that responds to NOI MD-03 File Number P-2008-043 Completeness Issue Items 6; 11 through 14; and 16 c.

If you have any questions or require additional information, please feel free to contact me at (303)790-7528 or Michael Beshore at (970)556-5988.

Respectfully yours, hdE.Bull

Richard E. Blubaugh Vice President-Environmental Health & Safety Resources

Enclosures cc: W. Mays J. Mays T. Walsh M. Beshore E. Ethington, CDPHE V. Shea, EPA D. Bauer, Weld County



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Centennial Project, Completeness Issues of Notice of Intent Modification MD-03, File No. P-2008-043

1. Provide a plan for cleaning and testing water containment vessels and appurtenances to demonstrate that they will not be a source of contamination.

Please refer to Completeness Issue Item #1 Attachment for the Powertech (USA) Inc. (Powertech) Produced Water Vessel – Cleaning and Inspection Procedure. All cleaning and inspection procedures outlined in the Powertech Produced Water Vessel – Cleaning and Inspection Procedure will be adhered. to and will be certified as complete before water containment vessels are brought on the site. All manifolds, valves, and transfer pumps will be cleaned as described in the attached procedure. Additionally, piping will be new and National Sanitation Foundation or otherwise certified for potable water.

2. Provide details on the specific type(s) of water containment vessels to be deployed.

Water containment vessels will be fully enclosed and obtained through Rain for Rent. Please refer to Completeness Issue Item #2 Attachments for a photograph of the type of water containment vessel to be used and a diagram showing the dimensions of the vessels.

3. DRMS will require that all injection wells be specified in MD-03; there will be no latitude to use wells for injection that have not been specifically approved by DRMS for that purpose. At this time, the only potential injection well identified in MD-03 is well IN08-33-PW1.

Powertech is in agreement and will comply with this completeness item. At this time, only IN08-33-PW1 has the potential to be utilized as an injection well, as has been identified in MD-03.

4. DRMS requires the submittal of mechanical integrity test results, electrical resistivity logs, and well completion reports for all injection wells.

Please refer to Completeness Issue Item #4 Attachments for the results of mechanical integrity testing and well completion details for IN08-33-PW1.

5. Provide details on the fence to be installed around the pump test facilities.

Fencing will be installed around the pump test facilities in such a way to restrict entrance by livestock, and in accordance with the specifications requested by the landowner. Fencing will consist of fourstrand barbed wire with the bottom wire located 16 inches from the ground surface and the top wire located 48 inches above the ground surface. The two remaining wires will be evenly spaced between the bottom and top wires. Corner posts will be #1 treated 6" X 8" rail-road ties, and will be planted at least 4 feet into the ground. Gateways will also be strengthened to prevent sagging with rail-road ties mounted at each end. Between the rail-road tie corner posts, steel T-posts that are 6 feet in length will be placed every 16 feet. Additionally, 2 stays will be evenly spaced between all corner posts and T-posts in order to prevent sagging.

- 6. Refer to the attached Petrotek Report.
- 7. DRMS requires submittal of completion and development reports for all wells. Critical to DRMS review are the geophysical logs, drilling/mud logs, and Powertech's interpretation of their relation to the stratigraphy.

Please refer to Completeness Issue Item #7 Attachments. Colorado State Engineers Office (SEO) Groundwater Well Construction and Test Reports are included for all recently drilled wells in section 33, and to be monitored during pumping test activities. Additionally, Powertech has included well logs for these groundwater wells which display well construction details, geophysical logs, and Powertech stratigraphic interpretations. Also included in the attachment are groundwater well development field reports for all wells recently constructed and to be monitored during the pump test.

8. The pumping well and monitoring wells installed for and used in the previous pumping test need to be shown on the Centennial Pump Test Plan map. Since these wells are going to be monitored in the pumping test proposed in MD-03, the information listed in item #7 above must also be provided for these wells.

Please refer to the Completeness Issue Item #8 Attachment for an updated Centennial Pumping Test Plan Map (Figure 4 of the Centennial Section 33 Pump Test Plan), which includes the locations of all groundwater wells to be monitored at the pump test location. SEO Well Construction and Test Reports for groundwater wells utilized during the previous pumping test have been submitted to the DRMS in the form of the confidential Surety Reduction Request for NOI P-2007-015. Please refer to that report for well completion details. Development reports and drilling/mud logs were not developed and, thus, are not available for these wells. Information used for completing the screened interval of these wells in the target geologic units was derived from exploration boreholes that were advanced immediately adjacent to the previous pumping test groundwater well locations. It should be pointed out that A2 Sand and WE Sand water levels, and differences in hydrostatic head, in the groundwater wells used in the previous pumping test correlate well with water levels in the same geologic units completed in groundwater wells to be utilized in this proposed pumping test. Powertech's position is that this is adequate evidence that the subsurface geology and hydrogeology at the proposed pumping test site is similar to that at the previous pump test site located about 500 feet away, and that groundwater well screens are completed in the target intervals intended at both pump test locations.

9. Provide detailed description of the IN-14-33 core including the results of any geotechnical testing conducted, and provide the plugging and abandonment report for the hole.

Core hole IN-14-33 was advanced and abandoned on April 28, 2009, and all available and required information is included as Completeness Issue Item #9 Attachments.

10. Which aquifer testing software will be utilized to analyze the pump test data?

The software utilized to analyze the pump test data will be AquiferTest Pro, Version 4.2.

- 11. Refer to the attached Petrotek Report.
- 12. Refer to the attached Petrotek Report.
- 13. Refer to the attached Petrotek Report.
- 14. Refer to the attached Petrotek Report.
- 15. If and when MD-03 is approved, DRMS must be provided five working days prior notice of commencement of the initial step-rate test so that inspections can be scheduled.

Powertech is in agreement with this requirement and will provide the DRMS with five working days prior notice of commencement of the initial step-rate test so that inspections can be scheduled.

- 16. What remains to be determined for reclamation bond purposes is the amount to be required if DRMS were to forfeit the bond while the pump test water is still stored in tanks. Powertech must provide rental cost information for the tanks, preferably in the form of bid documents or equivalent. If the transfer pump and other injection appurtenances are to be rented, provide cost documentation for those items as well. In order for DRMS to estimate costs for tanked water disposal, the following issues must first be addressed.
 - a. Feasibility of injection.

As demonstrated in the Petrotek responses to Completeness Issue Items 11, 14, and 16c, Powertech and their expert hydrogeologic consultants are fully confident that the immediate reinjection of all produced pump test water back into the same well from which it was derived is not only feasible, but highly likely.

- b. No completeness issue item b was included in the DRMS September 25, 2009 review of P-2008-043 MD-03.
- c. Refer to the attached Petrotek Report.
- d. If additional water containment vessels are to be brought onto the site as discussed on page 7 of the Section 33 Pumping Test Plan, then additional bond for tank rental and tank water disposal would have to be posted and accepted by DRMS prior to deployment of the additional tanks.

It is proposed that the pumping test will generate about 43,200 gallons of water, not including the small quantity of water that will be generated during the step-rate test. Powertech will have 4 water containment vessels onsite with a total holding capacity of 84,000 gallons, providing ample excess containment. However, in the case that additional water containment vessels are needed to be brought onsite during the pumping test, Powertech will immediately inform the DRMS of this, and appropriate bond will be placed before bringing them onsite. Included in this report as Completeness Issue Item #16

Attachment, please find a bid from Rain for Rent that outlines the cost of water containment vessel rental for the 4 units, and individual units that may be needed. Also included in the bid document are the rental costs for the transfer pump, new piping and fittings, and vessel cleaning.

e. In accordance with Rule 4.1.2(7) DRMS will require that the amount of bond required for tanked water disposal be posted in an easily valued and convertible instrument, such as cash for deposit in the State Treasury or a bank certificate of deposit.

Powertech is in full agreement with this item.

f. In addition, DRMS will consider any bonding proposals Powertech may have that are not discussed above.

Powertech appreciates, and is in full agreement with this item.



CENTENNIAL PROJECT WELD COUNTY, COLORADO Notice of Intent Modification MD-03 File No. P-2008-043

RESPONSE TO DIVISION OF RECLAMATION, MINING, AND SAFETY SEPTEMBER 25, 2009, LETTER

Items 6, 11, 12, 13, 14, and 16c.



POWERTECH (USA) INC.

5575 DTC Parkway, Suite 140 Greenwood Village, Colorado 80111 USA

October 27, 2009

Prepared by Petrotek Engineering Corporation 10288 West Chatfield Avenue, Suite 201 Littleton, Colorado 80127-4239 Phone: 303-290-9414 Fax: 303-290-9580

RESPONSE TO DRMS SEPTEMBER 25, 2009 LETTER

In its letter dated September 25, 2009, the Division of Reclamation, Mining and Safety (DRMS) requested clarification of a number of items related to Powertech (USA) Inc.'s proposed modification MD-03 to Notice of Intent to Conduct Prospecting P-2008-043. The specific items identified in DRMS's September 25, 2009, letter and addressed in this response are shown below in italics.

6. The Section 33 Pumping Test Plan included with MD-03 states on Page 5 that the monitoring wells will be located spatially in order to define the regional potentiometric gradients in the Laramie Formation, A₂ Sand, and B Sand. Initial measurements for this purpose must be collected and the data provided to the DRMS prior to commencement of the proposed pumping test. These initial measurements, which may be single hand tagged measurements, if not already done should be taken as soon as possible, and are in addition to the baseline groundwater level data to be collected over a 72- to 96-hour period prior to initiation of pump testing as described on page 6 of the Pumping Test Plan.

Response:

The locations of the pumping well (IN08-33-PW-1[PW-1]) and monitoring wells for the Section 33 Pumping Test are shown on Figure 6-1. PW-1 is completed within the A_2 Sand horizon, which is the primary mineralized zone. In aggregate, six monitoring wells in Section 33 are also completed within the A_2 Sand, four monitoring wells are completed in the overlying Laramie Formation, two monitoring wells are completed in the underlying WE Sand, and three monitoring wells are completed within the underlying B Sand.

The static water-level elevations for the pumping and monitoring wells are summarized in Table 6.1. Within the overlying Laramie Formation, groundwater occurs as a series of discontinuous perched lenses, as indicated by the wide variations in observed static water-level elevations. Within the A₂ and B Sand horizons, the regional potentiometric gradients are generally toward the south and southeast. In Section 33, the potentiometric surface elevations within the B Sand are generally 26 to 30 feet higher than those within the A₂ Sand and on the order of 20 feet higher than those within the WE Sand.

Potentiometric levels measured on September 28, 2009, for the Section 33 Laramie monitoring wells are shown on Figure 6.2. Potentiometric contour maps for the A_2 and B Sands are shown on Figures 6.3, and 6.4, respectively.

The Section 33 monitoring wells will be instrumented with pressure transducers (LevelTrolls[®]) and static water levels monitored prior to and during the pumping test and during reinjection of the produced fluids.



Response to DRMS September 25, 2009 Letter

Table 6.1

Powertech (USA) Inc., - Centennial Project

Section 33 Pumping Test - Pre-Test Static Water-Level Elevations

Completion Zone	Location ID	Elevation - Top of Casing (ft amsl)	Elevation - Ground Surface (ft amsl)	8/29/2009	9/17/2009	9/28/2009	10/22/2009
Laramie Fm	IN08-33-MO1	5569.97	5569.97	5378.65	5378.77	5378.78	5378.95
	IN08-33-MO2	5574.36	5573.30	5397.21	5397.78	5397.93	5398.18
	IN08-33-MO3	5535.89	5534.30	5435.09	5435.26	5428.48	5428.60
	IS-003Ta	5542.36	NM	NM	NM	5419.55	5419.67
L.	1						
A ₂ Sand	IN08-33-PW1	5573.34	5572.40	5270.50	5268.79	5268.79	5268.92
	IN08-33-MM1	5554.86	5553.30	5268.07	5268.26	5268.26	5268.47
	IN08-33-MM2	5574.40	5573.20	5266.55	5266.65	5266.72	5266.90
	IN08-33-MM3	5533.90	5532.60	5266.98	5267.28	5267.31	5267.45
	IN08-33-MM4	5613.96	5512.90	5268.84	5269.11	5269.13	5269.32
	IN08-33-MM5	5517.14	5515.50	5265.89	5266.11	5266.20	5266.33
	IS-003T	5541.94	NM	NM	NM	5267.91	5268.10
		-					
WE Sand	IN08-33-MU1	5566.11	5565.00	5273.88	5274.04	5274.05	5274.26
	IS-003Tb	5541.24	NM	NM	NM	5272.53	5272.73
							5007.00
B Sand	IN08-33-MUU1	5563.76	5562.60	5296.26	5297.43	5297.43	5297.63
	IN08-33-MUU2	5573.97	5572.60	5302.74	5303.55	5303.64	5304.63
	IN08-33-MUU3	5537.34	5536.00	5297.09	5297.81	5297.90	5298.15
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Legend

NM - Not Measured

Petrotek

Response to DRMS September 25, 2009 Letter

11. Discussion on page 8 of the Section 33 Pumping Test Plan under the heading "Produced Water Disposal" raises the following issues:

- a. The Pumping Test Plan states that Powertech will demonstrate through Mechanical Integrity Testing that there is no potential for injectate to flow from the well into the Laramie Formation where the well passes through that formation. MD-03 lacks discussion of how it will be assured and demonstrated that injectate will not flow into strata above or below the injection well screened strata after it is discharged to that strata, via either natural or manmade (e.g., other wells) pathways.
- b. The Pumping Test Plan states that the injection well is not expected to be operated under pressure but allows that the injection might be pressurized as needed. If the injection is pressurized, the potential for injectate to flow into other water bearing strata above or below the screened interval is increased. If the injection proceeds under atmospheric pressure only, it is unlikely that flow paths other than those occurring under natural conditions in the A₂ Sand will develop, but the development of such new paths even under atmospheric pressure alone cannot be ruled-out.

In order to address issues 11.a and b, Powertech may choose to commit to storing the pump test water in Baker Tanks until the pump test data are analyzed and a demonstration can be made that the A_2 Sand is sufficiently contained to allow pressurized injection without migration of injectate into overlying or underlying strata. However, it is possible hydraulic connection between the A_2 Sand and other strata via open or ineffectively plugged wells will not be detected during the pump test. This is particularly true if injectate were to flow along a leaky well and into a lenticular water bearing strata in the Laramie Formation in which none of the pump test monitoring wells have been screened. See item no. 12 below for further discussion of this issue. Another option would be for Powertech to combine existing available information with a commitment to inject at or slightly above ambient A_2 Sand pressure to demonstrate that injectate will not migrate under natural conditions. Alternatively, DRMS will review any other proposals Powertech may offer to address these issues.

Response:

Based on previous pumping tests conducted by Powertech in Section 33 and the observed aquifer response during development of pumping well PW-1, it is estimated that PW-1 can be produced at a sustainable rate of 8 to 10 gallons per minute for the planned test duration of 3 to 5 days. Based on the preliminary estimates of transmissivity and storativity for the A_2 Sand, the drawdown in the pumping well at the end of 72 hours of pumping at 10 gallons per minute is estimated to be substantially less than 100 feet.



Given that the potentiometric surface for the A_2 Sand horizon, depending on location, ranges from 250 to more than 300 feet below ground surface, Powertech is proposing to reinject the produced fluid under a vacuum into the same zone from which it was produced.

As noted in the response to Item 6, the Section 33 monitoring well network will be instrumented with pressure transducers (LevelTrolls[®]) and potentiometric levels in the Laramie and A₂, WE, and B Sands monitored during the pumping test and reinjection of the produced fluids. Observed aquifer responses in each completion zone will be evaluated in order to confirm the preliminary hydrogeological characterization prior to reinjection of the produced fluids.



Response to DRMS September 25, 2009 Letter

12. It is necessary to determine if there are any wells or bore holes within the potential zone of flow for the injectate and the status condition of those wells or bore holes. Powertech must provide a report that includes the following:

- a. A technical analysis delineating the potential zone of flow for injectate.
- b. A map illustrating all wells and boreholes within the potential zone of flow, a discussion of the sources of information for the wells and bore holes, and a description of the efforts put forth to assure that all wells and bore holes within the zone have been identified.
- c. A description of the status condition of each well and bore hole including the sources of information for and investigations conducted to determine the status conditions.
- d. For any wells or bore holes that are identified as being potential flow pathways for injectate or that cannot be ruled out as potential flow pathways, provide a plan to prevent injectate from traveling along these pathways and entering strata other than the A_2 Sand.

Response:

As noted, Powertech is proposing to reinject the produced fluids from the Section 33 pumping test under vacuum into the same well from which it was produced.

a. Regarding the potential zone of flow for injectate, based on the best estimate of aquifer properties for the A2 Sand, it is proposed that during the planned pumping test, PW-1 will be pumped at a constant rate of approximately 10 gallons per minute for 72 hours, producing in aggregate 43,200 gals. Assuming "piston-like" displacement, the radius of fluid displacement around the injection well for different effective porosities and for assumed aquifer thicknesses (b) of 10 and 20 feet is summarized in the following table. As shown, in the most conservative (worst) case, the radius of fluid displacement would be less than 50 feet. The closest residential well is located more than 3,800 feet from the pumping/injection well PW-1.

		_	Radius of Fluid	Displacement
Effective	Aquifer Volume feet)	(cubic	b = 10 feet	B = 20 feet
10 %	57.750		42.9	30.3
15 %	38,500		35.0	24.8
20 %	28.875		30.3	21.3
25 %	23,100		27.1	19.2

The actual thickness of the A_2 Sand in the A_2 monitoring wells ranges from 23.5 to 30 feet.



b. The records of the State Engineer's Office (SEO) indicate that there is only one registered well located in Section 33 T10N, R67W, other than the monitoring wells installed by Powertech. According to SEO's records, this well is shallow, 259 feet deep, and therefore, believed to be completed within the Laramie Formation. This well is used for livestock watering. According to the property owner, Mr. Howard Diehl, there are no domestic or other agricultural wells in Section 33.

The locations of the Section 33 monitoring wells are shown on Figure 6.1. In addition, numerous exploration holes dating back to the 1970s and 1980s have been drilled in Section 33 and in adjacent sections. A map showing known exploration holes in Section 33 is presented as Figure 12.1. Also shown on Figure 12.1 are the shallow Laramie well used for watering livestock and the Section 33 monitoring well network.

c. The pumping well PW-1 and the monitoring wells installed as part of the 2009 drilling program were completed by drilling to the top of the proposed screen interval, setting casing, and grouting from total depth to the ground surface. The screen intervals were installed by under-reaming discrete sand intervals based on geology identified from the e-logs. As such, there is a high degree of confidence that these wells will not provide a potential conduit for vertical migration of injectate.

The condition of the exploration boreholes and monitoring wells installed by others is unknown but will be evaluated through ongoing monitoring during the pumping test and reinjection of the produced fluid.

The detailed review of available potentiometric-level data for Section 33 monitoring wells shows the data to be consistent and does not indicate any apparent anomalies, which may be caused by vertical leakage through artificial penetrations.

d. At this time there are no known wells or bore holes that have been identified as being potential flow pathways for injectate. As described, Powertech is proposing to re-inject the produced fluid under vacuum into the same zone from which it was derived, using the pumping well. As noted, the established monitoring well network in Section 33 will be instrumented and monitored during pumping and re-injection of the produced fluids.

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13. Item 11 above discusses the DRMS's current position that injectate be contained within the A_2 Sand or be managed such that migration into overlying and underlying strata be no greater than would occur under natural conditions. DRMS will consider modifying this position if Powertech can demonstrate that water quality impacts to the other A Sands and the WE Sand can be minimized even with the introduction of injectate into those strata. Such a determination would be largely dependent on water quality in these other sands compared to the water quality in the A_2 Sand.

Response:

As described in the responses to Items 11 and 12 above, Powertech is proposing to reinject the produced fluid from the Section 33 pumping test under vacuum into the same zone from which it was derived, using the pumping well PW-1.

Petrotek

14. Powertech stated in since withdrawn modification MD-02 to prospecting notice P-2008-043 that it has done preliminary hydrogeologic modeling and water production calculations for the strata to be investigated by the proposed pump test. DMRS has further discussed with Powertech that data collected during development of recently drilled wells in Section 33 has allowed for refinement of the modeling and calculations. This information will be useful in determination of whether or not pump test water can be injected into the A_2 Sand with assurance that impacts to other water bearing strata are sufficiently minimized, and must be provided.

Response:

Powertech has not performed groundwater modeling for the A_2 Sand, but has carried out a series of Theis simulations of the pressure response to pumping to estimate pumping rates and duration for the proposed test. These simulations were performed to match the observed drawdowns during development of the recently completed A_2 wells and the results from the previous Section 33 pumping tests.

The results from the Theis simulations for the well development scenario and from the previous pumping tests are consistent and indicate the order of magnitude of hydraulic conductivity and storativity. The results for the best fit analysis are shown below.

Powertech (USA), Inc. - Centennial Section 33 Pumping Test (Theis Simulations)

Trial #11b		
K =	2.05	ft/day
S =	4.18E-05	
Q =	10.0	gpm
H =	31	ft

Observation Well Distance (feet)

Pump Time (hours)	Pump Time (days)	0.5 Drawdown (ft)	100 Drawdown (ft)	250 Drawdown (ft)	500 Drawdown (ft)	1800 Drawdown (ft)	3600 Drawdown (ft)
1.0	0.0	31.90	6.49	2.54	0.54		
1.5	0.1	32.88	7.43	3.34	0.98		
2.0	0.1	33.57	8.11	3.94	1.37		
6	0.3	36.22	10.72	6.39	3.34	0.10	
12	0.5	37.89	12.38	8.01	4.82	0.47	
24	1.0	39.56	14.05	9.66	6.39	1.26	0.10
48	2.0	41.22	15.71	11.31	8.01	2.40	0.47
72	3.0	42.20	16.69	12.28	8.97	3.18	0.88

Patrotek

16c. If Powertech provides an acceptable demonstration that injection at ambient pressure will minimize adverse water quality impacts, as discussed in item 11 above, DRMS can require sufficient bond for this type of injection. For this bonding option, Powertech must provide a technical evaluation of how long it would take to complete injection under ambient pressure.

Response:

In theory, the rate at which an aquifer can be produced by pumping and the rate of injection at the same head differential are the same but opposite in sign (i.e., positive or negative). In the case of the Section 33 pumping test, if the production well PW-1 is pumped at 10 gallons per minute for 72 hours, under the same head differential, one should be able to reinject the produced water back into the same well at the same rate over the same period, i.e., 72 hours.

In practice, however, there may be other factors such as skin effects that may limit either production from the aquifer or the rate of injection into the aquifer. These factors may act either way, i.e., the rate of injection into the aquifer may be either greater than or less than the rate of production due to pumping. In most situations, the rate of injection is less than the rate of pumping.

At the Centennial pumping test location, there is more available head for reinjection under a vacuum than there is available drawdown above the A_2 Sand during pumping. As noted in the responses to Items 11 and 14, based on the preliminary estimates of transmissivity and storativity for the A_2 Sand, the projected drawdown in the pumping well at the end of 72 hours of pumping at 10 gallons per minute is less than 100 feet.

Petrotek









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NOI P-2008-043 MD-03 Completeness Issue Item #1 Attachments

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Produced Water Vessel - Cleaning and Inspection Procedure

Powertech has strict guidelines that must be adhered to when bringing water containment vessels onto project properties, specifically when those vessels are being used to contain groundwater produced from uranium ore-bearing aquifers and re-injected into the aquifer from which the groundwater originated. The purpose of these guidelines is to ensure that no residual chemicals or micro-organisms are present within a vessel due to the previous user of the vessel, and thus eliminate the possibility of cross-contamination of chemical or biological substances. The contractor that Powertech selects to supply water containment vessels must be fully aware of our strict adherence to this policy. The contractor selected for cleaning and testing of vessels must certify that all water containment vessels will be cleaned to a specific standard before the vessels are mobilized onsite. The standard operating procedure that will be utilized is summarized in this document. Before vessels are brought onsite, the following procedures must be conducted:

- Remove solids and/or liquids from exterior surface of vessel;
- Thoroughly inspect the vessel(s) for any exterior structural or mechanical damage;
- Perform atmospheric testing prior to cleaning crew entering the vessel;
- Remove and properly dispose of any solids and liquids within the interior and valves of the vessel, including any oil and grease;
- Perform bleach wash on interior and valves;
- Perform high pressure rinse on the interior and valves of the vessel with water that is at or above a temperature of 180 degrees Fahrenheit;
- The interior of the vessel shall be drained and dried of any residual water following the cleaning procedure;
- Provide Powertech a signed certification (Certificate of Cleaning) that vessel(s) has been cleaned pursuant to this (and any other relevant) procedure.

Prior to bringing the water containment vessel(s) onsite, Powertech personnel shall perform the additional steps to ensure the vessel(s) is clean and in proper condition:

- Cross reference the Certificate of Cleaning vessel number with that of each delivered vessel before it enters the site;
- Visually inspect the interior, exterior, and valves of the vessel to ensure cleanliness. Do not enter the vessel. Check for the following items, and if any exist, the vessel must be rejected:
 - o Oil, grease or other removable foreign substance on exterior of the vessel,
 - o Sediment and other solids in bottom of vessel,
 - o Presence of foreign substance(s) on interior of vessel,
 - o Water and other liquids within the vessel, and
 - o Damage to the tank and/or valves and/or other mechanical problems.



- Radiological measurements using an alpha and gamma probe shall be conducted on the containment vessel before it is utilized onsite and, again, after onsite use; all readings will be documented on the appropriate Powertech form.
- Powertech employees shall not enter the tank without proper confined space entry training and appropriate work permit, unless authorized by the mine manager and deemed safe by the onsite representative of the EH&S Department.
- Radiological measurements of the interior shall be made through the portholes and man-ways of the vessel.
- Initially, natural background radiation levels shall be measured and recorded.

Approved By:

Date:



NOI P-2008-043 MD-03 Completeness Issue Item #2 Attachments





Completeness Issue Item #2 Attachment

NOI P-2008-043 MD-03 Completeness Issue Item #4 Attachments

.

SUMMARY; Initial MIT Evaluation; Powertech (USA) Inc.; Wellington, CO; Wellbore: IN08-33-PW1

On July 23rd, 2009, an initial MIT was performed on wellbore IN08-33-PW1. Prior to installation of testing equipment, a visual inspection of the wellhead and surrounding work site for hazards to field personnel and/ or hindrances to working conditions was conducted.

After satisfactory completion of the visual inspection, the borehole was then prepared for installation of the testing equipment. The surface casing, spline, and o-ring were cleaned/ lubricated and the packers were lowered to 470 feet bgs. The testing wellcap were then bolted to the wellhead flange and the packers inflated with nitrogen to 550 PSI. Packer inflation pressure was monitored for approximately 15 minutes and continually checked for leak-down. After satisfactory testing of the packer inflation pressure, the borehole was then filled with water through a port in the wellcap with the relief valve remaining open to allow air to escape. Upon completing of the filling of the borehole, the injection and relief valves were closed to allow any air remaining in the fluid column to migrate to the wellhead. The remaining air was bled off and the system pressurized with water. The wellhead flange pressure was held for approximately 30 seconds at approximately 105.3 PSI before the inlet valve was shut and the test begun.

At 1352 Hours on 23 July 2009, borehole IN08-33-PW1 begun the initial MIT test. After 15.1 minutes of testing, approximately 8.0 PSI of leakdown occurred equating to approximately 7 percent of pressure loss. IN08-33-PW1 passed the initial MIT test with the requisite <10% leakdown in >15 minutes.

After completion of the initial MIT test, the relief valve was opened and the packers deflated, beginning the falling head/ recovery test. After completion of the falling head/ recovery test, the testing wellcap was removed, the packer was retrieved and the original wellcap re-secured.

Edward W. Farinsky, Hydrogeophysical Engineer

Date



COLOG Borehole Geophysical Services Completeness Issue Item #4 Attachment



WELL INTEGRITY REPORT

Borehole Geophysical Services

Date of Test: MIT			Name of Contra	actor Performing Pr	essure Test:	
Operator: E. FACINS!	, < /					
Address: 810 Qua, 1 S	D suit	e E	Telephone Num	iber: ?79-013	7/ State:	Zip Code: 80215
Well Name and Number: INOS - 33 - 1	PW1		Field:			
Location of Well	Qtr-Qtr	Section	Township	Range	County	State

WELL DATA

Tool Type:	Packer Model:
Wireline Straddle Packer	TAM-350-LI-01, BASKI
Contractor Rig Unit#:	Pressure Gauge Model / SN:
F28, F26 F14	Druck 0-700 PST
Well Construction Information:	
6" ID Puc	
Well Type (Disposal Well, Production Well, Recovery Well, Other):	
Pumping	
Reason for Test (MIT, Workover, etc.):	Type of Test (Initial MIT, MIT, Annual MIT, Other):
Stated MIT	INITIAL

EFORE TEST

Casing Pressure:	Comments:
d PST	

START OF TEST

Starting Surface Casing Flange P	ressure:	Comments:	
105 20 1	QST		
			-
······································			

END OF TEST

Ending Surface Casing Flange Pressure:	Comments:
98.042 PSL	TASS

TEST DATA

Length of Test:	Initial Depth to Water:	Amount of Fluid Needed to Fill:
15 millations	~ 210 bsc	365 0015

RESULTS:

Approved MIT	- No Visible leak At surface
Failed MIT	- Lio% leakdown in 15 minutes
Conditionally Approved MIT	See Attached Girmp

Person Performing Test, Name / Title: Geophysical Engineer DWAR 1<, -2 nature: COLOG

A Division of Layne Christensen Company

810 Quail Street, Suite E Lakewood, Colorado 80215 Phone: (303)279.0171 FAX: (303) 278.0135

Completeness Issue Item #4 Attachment



FORM NO. GWS-31 04/2005	W STATE OF COL 1313 Sherman St. Phone – info (303) Fax (303) 866-358	ELL CONSTI ORADO, OFFI , Room 818, Den) 866-3587 Main 19	CE OF THE S ver, CO 80203 (303) 866-358 http://www	TATE ENG					
1. WELL PER	MIT NUMBER:	048502-	-MH				4		
2. WELL OWN	ER INFORMATION	l NowarTect	(USA)	Inc.					
NAME OF V	VELL OWNER. F	S DTC Da	rkway S	uite 1	40		1		
MAILING AL	JURESS: JJI	Jago STATE			ZIP CODE:	80111			
TELEPHON	E NUMBER: (303)790-752	28						
3. WELL LOC	TION AS DRILLE	<u>: SW 1/4, N</u>	NE_1/4, Se	ec. <u>33</u>	Twp. <u>10</u>	🕅 N or 🗌	S, Range 6		X W
DISTANCE	S FROM SEC. LINE	ES: <u>2081</u>	ft. from 🕅	N or S	section line a	and <u>3702</u>	ft_from L		section line.
SUBDIVISIO	DN:				, LOT_	DLC	Owner's V	Vell Designati	ONTNO 8-3
Optional G	PS Location: GPS	Unit must use t	the following s	settings: Fo	TZone 12 0	r [] Zone 13	Easting: _		
must be me	ters, Datum must t	LOCATION:	111231 00 001 1				Northing:		
STREET AL	DURESS AT WELL	LUCATION	fact		DRILLING	METHOD	Mud Rot	arv	``
4. GROUND S	URFACE ELEVAT	-09 T	OTAL OFPTH	528	feet	DEPTH CO	MPLETED	526 feel	
DATE CON	INCO		UTAL DEF IN		6. HOLE	DIAM (in.)	From (ft)	To (ft)
5. GEULUGIU	Tvoe	Grain Size	Color	Water Loc	8 3/	4			502
	377	1			10 1	/2	502		526
10 - 470	ALLUVIAL Laramie				5 3/	4	526		528
470 - 528	FoxHills				7. PLAIN	CASING:		- (2)	T - (A)
				<u> </u>		Kind PVC	Wall Size (in) SDR17	From (π) +1	10 (π) 500
			<u> </u>	<u> </u>					
		<u> </u>		1		• •••••••••••••••			
			1		PERFOR	ATED CASI	NG: Screen SI	ot Size (in):	030
					3	PVC	sch80	_500	
				Ļ					-
			<u></u>	<u> </u>				. <u></u>	-
				+		PACK	9 PACK		ENT:
					Material d	silica	santipe		
			1	1	Size	0/20			
					Interval §	500-526	Depth		
					10. GROL	ITING RECO	ORD		
		<u> </u>	<u> </u>	L	Material	Amount	Density I	nterval	Placement
Remarks:					Bent-	049			
					-	7475-			
		<u>,</u>			Amt. U	sed			
12. WELL TE	ST DATA: Che	k box If Test D	ata is submitte	ed on Form	Number GW	S 39 Supple	mental Well Te	st.	
TESTING ME	THOD							<u></u>	
Static Level	ft. D	ate/Time meas	ured:		······	Production	Rate	gpm.	
Pumping Lev	elft. D	ate/Time meas	ured			Test Lengt	n (hrs)	·	
Remarks:	Moniter w	ell to b	the contents the	d at a	Later	date.	. This document	is signed and	certified in
13. I have read	the statements made Rule 17.4 of the Wal	er Well Construct	tion Rules, 2 CC	CR 402-2.	he filing of a d	ocument that	contains faise sta	tements is a vi	olation of
section 37-91-1	08(1)(e). C.R.S., and	is punishable by f	ines up to \$500	0 and/or revo	Phoi	contracting lice	ense.j	License Num	ber:
Sharpe	Drilling	Company			(3)	07632-9	523	1316	
Mailing Adds	P.Q.BO	x 20147	Cheyen	ne, WY	8200	3			
Signature.			Print Na	ame and Tit	e				Date 26-09
	111		1 77						

Completeness Issue Item #4 Attachment

NOI P-2008-043 MD-03 Completeness Issue Item #7 Attachments

FORM NO. GWS-31 04/2005	WELL CONSTRUCTION AND TEST REPORT STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Room 818, Denver, CO 80203 Phone – Info (303) 866-3587 Main (303) 866-3581 Fax (303) 866-3589 http://www.water.state.co.us					Fc -	or Office Use C	ny	
. WELL PER	MIT NUMBER:	048502-	MH				4		
WELL OWN	ER INFORMATION	l owerrech		Tnc.					
NAME OF V	VELLOWNER. F	E DEC Da	rkway 9	$\frac{1}{1} + \alpha = 1$	40]		
MAILING AL	DURESS: 557	J STATE			ZIP CODE:	20111]		
TELEPHON	ENUMBER: (303)790-752	8						
WELL LOCA	TION AS DRILLED	: SW 1/4, N	IE_1/4, S	ec.33	wp. <u>10</u>	N or	S, Range 6		XW
DISTANCE	S FROM SEC. LINE	s: <u>2081</u>	ft. from 🛛		ection line and	3702 	ft_from L CK, Fl Owner's V	LING (UNIT) Vell Designat	
Optional Gi must be me	PS Location: GPS ters, Datum must b	Unit must use the NAD83, Unit	the following must be set f	settings: For to true N,	mat must be t Zone 12 or	Zone 13	Easting: _		
STREET AD	DDRESS AT WELL	LOCATION:				FTHOD	Mud Dot	2 r V	
4. GROUND S	URFACE ELEVAT	ON		570		EPTH CO	MPLETED	526 fee	t
DATE COM	PLETED 9=07-	-09 10	UTAL DEPTR	1 320	6. HOLE DIA	M (in.)	From	(ft)	To (ft)
5. GEOLOGIC	LOG:	Grain Siza	Color	Water Loc	8 3/4	<u></u>			-502
Depth	туре	Giairoize		1	10 1/	2	502		526
0-10	<u>Alluvial</u>	+		1	5 3/4		526		528
10-470	Laramie	1			7. PLAIN CA	SING:			
470-528					OD (in) 6	Kind PVC	Wall Size (in) SDR17) From (ft) +1	500 500
								· · · · · · · · · · · · · · · · · · ·	
					PERFORAT	PVC	NG: Screen S sch8(lot Size (in): 500	<u>.030</u> <u>526</u>
			ļ		8. FILTER F	PACK:	9. PACK	ER PLACEM	ENT:
					Material s j Size 1 (lica_)/20	santype		
					Interval 50	0-526	Depth		
					10. GROUT	ING RECO	ORD	1_4	Discourse
Remarks:	l		<u> </u>		_ Material	Amount 829	Density <u>131bs</u> (interval) - 500	Hallibur
						yais			
11. DISINFE		x box if Test D	ata is submitt	ed on Form	Amt. Use Number GWS	ed 39 Supple	emental Well T	est.	
TESTING MI		sto/Time mase	ured:		, F	Production	Rate	gpm.	
Pumping Level	relft_D Moniter w	ate/Time meas vell to h	ured	ed at a	later d	fest Lengt date.	h (hrs)		Logitized in
13. I have read accordance with section 37-91-1	the statements made Rule 17.4 of the Wa 08(1)(e). C.R.S., and	herein and know ter Well Construction is punishable by	the contents t tion Rules, 2 C fines up to \$50	hereof, and the CR 402-2. [T] 00 and/or revo	ey are true to my ne filing of a doc cation of the co	y knowledge ument that ntracting lic	e. This documer contains faise st ense.)	atements is a v	violation of
Company Na Sharpe	me: Drilling	Company			(30'	7)632-9	2523	1316	
Mailing Adds	-SR P.Q.BC	x 20147	Cheyer	nne, WY	82003				0-4-
I MIGHINIG MORE									

Completeness Issue Item #7 Attachment

WELL PERMIT WELL OWNER II NAME OF WELL MAILING ADDRE CITY: Greenw TELEPHONE NU WELL LOCATION DISTANCES FRO SUBDIVISION: Optional GPS Lo must be meters, STREET ADDRE GROUND SURFA	NUMBER: NFORMATION OWNER: PO ESS: 5575 Wood Vill JMBER: (303 N AS DRILLED: OM SEC. LINES OCCATION: GPS U Datum must be ESS AT WELL L	werTech DTC Pa: ageSTATE: 790 75: SW 1/4, NI 2315	(USA), rkway, <u>CO</u> 28 <u>E</u> 1/4, Se ft from A must be set to	Inc. Suite c33_T Nor[]Ss	1 4 0 ZIP CODE: Twp. 10	80111 Nor 13 and 3792	S, Range <u>67</u>	Eor⊼ Eor⊼¥Ws	XW ection line.
WELL OWNER II NAME OF WELL MAILING ADDRE CITY: Greenw TELEPHONE NU WELL LOCATION DISTANCES FRO SUBDIVISION: Optional GPS Lo must be meters, STREET ADDRE GROUND SURFA	NFORMATION OWNER: PO ESS: 5575 WOOD VIII JMBER: (303 N AS DRILLED: OM SEC. LINES OCCATION: GPS U Datum must be ESS AT WELL L	werTech DTC Pa: age STATE: 790 75 SW 1/4, NJ 3: 2315	(USA), rkway, CO 28 E_1/4, Se ft from A must be set to	Inc. Suite	140 ZIP CODE: fwp. 10 ection line a , LOT _	80111 Nor 13 nd 3792	5, Range <u>67</u>	Eor⊼ Eor⊼¥Ws	KW ection line.
NAME OF WELL MAILING ADDRE CITY: Greenv TELEPHONE NU WELL LOCATION DISTANCES FRO SUBDIVISION: Optional GPS Lo must be meters, STREET ADDRE GROUND SURF/	COWNER: 10 ESS: 5575 WOOD Vill JMBER: (303 N AS DRILLED: OM SEC. LINES Cocation: GPS U Datum must be ESS AT WELL L	DTC Pa: age STATE: 790 75 SW 1/4, M 3: 2315	rkway, CO 28 E_1/4, Se ft from A must be set to	Suite	1 4 0 ZIP CODE: Fwp. 10 ection line a LOT _	80111 80111 Nor 14 and 3792	5, Range <u>67</u>	_ ⊡ E or K E or K¥W sa	KW ection line.
MAILING ADDRE CITY: Greeny TELEPHONE NU WELL LOCATION DISTANCES FRO SUBDIVISION: Optional GPS Lo must be meters, STREET ADDRE GROUND SURF/	ESS: 5575 wood Vill JMBER: (303 N AS DRILLED: OM SEC. LINES ocation: GPS U Datum must be ESS AT WELL L	BIC Fall age STATE: 790 75 SW 1/4, NJ 3: 2315 Init must use the NAD83, Unit in CONTION: 1000000000000000000000000000000000000	E1/4, Se fl_ from [A] me following a must be set to	nc. <u>33</u> . T N or S S ettings: For	I'WP. 10 ection line a	80111 K N or C 1 nd 3792	5, Range <u>67</u>	EorK_ EorK¥Ws	XW ection line.
CITY: Greenv TELEPHONE NU DISTANCES FRO SUBDIVISION: Optional GPS Lo must be meters, STREET ADDRE GROUND SURFA	WOOD VIII JMBER: (303 N AS DRILLED: OM SEC. LINES ocation: GPS U Datum must be ESS AT WELL L	SW 1/4, N : 2315	28 E1/4, Se ft from A ne following a must be set to	xc. <u>33</u> . T N or ⊡ S s ettings: Fon	Twp. <u>10</u> ection line a	K N or □ 1 Ind 3792	S, Range <u>67</u>	Eor Eor ∑¥W se	KW ection line.
VELL LOCATION DISTANCES FRO SUBDIVISION: Optional GPS Lo must be meters, STREET ADDRE GROUND SURFA	MBER: (505 N AS DRILLED: OM SEC. LINES ocation: GPS U Datum must be ESS AT WELL L	<u>SW</u> 1/4, <u>N</u> 3: 2315 Init must use th NAD83, Unit I	E1/4, Se ft_from [A] me following a must be set to	.c. <u>33</u> . T Nor □ S s ettings: For	wp. <u>10</u> ection line a	K N or □ 1 Ind 3792	S, Range <u>67</u>	_ ⊟EorK EorXXWs	KW ection line.
DISTANCES FRI SUBDIVISION: Optional GPS Lo must be meters, STREET ADDRE GROUND SURF/	ocation: GPS U Datum must be	2315	ft. from A	N or Ss	ection line a	nd 3792	A from 1	E or AW s	ection line.
Optional GPS Lo must be meters, STREET ADDRE GROUND SURFA	ocation: GPS U Datum must be	Init must use the NAD83, Unit i	he following a must be set to	ettings: Fon	LOT_				1
Optional GPS Lo must be meters, STREET ADDRE GROUND SURF/	ocation: GPS U Datum must be ESS AT WELL L	Init must use the NAD83, Unit I	he following a must be set to	ettings: Fon		, BLO	CKFIL	ING (UNIT) _	NOB-3
STREET ADDRE	Datum must be	NAD83, Unit	must be set to		mat must be	UTM, Units	Easting:		M. F. O.
STREET ADDRE	ESS AT WELL L	OCATION.		true N, 🗌	Zone 12 or	Zone 13	g		
GROUND SURF		UUATION.					Northing:	+	
DATE COMPIET		N	feet		DRILLING	METHOD	Mua Ro		
	TED 9-2-0)9 TC	TAL DEPTH	505	feet	DEPTH COM	IPLETED 5	<u>13 feet</u>	
	3				6. HOLE D	HAM (in.)	From (ft)	Το (π)
Dooth TVD	<u> </u>	Grain Size	Color	Water Loc.	83	/4	470		<u> </u>
	2				10 1	/2	4/8		505
$\begin{array}{c c} 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 0 \\ 1 \\ 1$	ramie				55	/8	501	-	
10-447 11a	xHills				7. PLAIN C	CASING:		F	To (#)
997-20210					OD (in)	Kind DVC	Wall Size (in) SDR 17	From (π) + 1	476
						TED CASIN	G: Screen Sig	t Size (in); . (030
					PERFORA	PVC	- sch80	476	501
					8. FILTER	PACK:	9. PACKE	R PLACEME	NT:
					Material S	ilica s	sand		
		1			Size 10	/20	_ _		
					Interval 4	76-501	Depth		
					10. GROU	TING RECO	RD		Placement
					Material Bent-	Amount 792gals	Density In 5 13 lbs	0-477	Hallibur
Remarks:					cem			-	
					1 Amt 1h				
11. DISINFECTION	N: Type	how if Tool De	ta la estimitta	d on Form N	lumber GWS	5 39 Suppler	nental Well Tes	t.	
12. WELL TEST DA		UUX II TESLUA				••			
TESTING METHO	D	Time				Production F	tate	gpm.	
Static Level		Time measur				Test Length	(hrs)	[.]	
Pumping Level			tostod	at a 1	ater d	ato			atilities in
Remarks: Mon	atements made he	rein and know t	he contents the	reof, and they	y are true to m	ny knowledge.	This document is	s signed and Ca ments is a viol	ation of
accordance with Rule	17.4 of the Water	Well Construction	on Rules, 2 CC les up to \$5000	R 402-2. [The and/or revoc	e mang of a do ation of the ca	ontracting fices	160.]		
ection 37-91-108(1)(e Company Name:	e), G.R.S., and IS	NUMBER OF UT			Phon	e: 2) (22) (cense Numbe	^{sr:} 1316
	Sharpe D	rilling	Company	<u> </u>	1(30	51 032 9	1223		
Mailing Address:	P.O, Box	20147	Cheyenr	ne, WY	82003				
Signature:	4	14	Print Nat	me and Title		harpo	Drecider	10 11	0-26-09

Completeness Issue Item #7 Attachment
FORM NO. GWS-31 04/2005	FORM NO. GWS-31 04/2005 UMELL CONSTRUCTION AND TEST REPORT For Omce Use Only For O										
1 WELL PE	RMIT NUMBER:	048508-M	IH				4				
2. WELL OW	NER INFORMATION	l oworTech	(USA)	Tnc.							
NAME OF	WELL OWNER:	Ower rech		Suite 1	40		-1				
MAILING A	DDRESS: 5575	DTC Par	rway, a			80111	-1				
CITY: GI	reenwood Vi	11ageTATE			ZIP CODE:	00111	-1				
TELEPHON	NE NUMBER: (303	SE	NIN ALA C	33 -	10		S. Range 67	□ E or [XW	1	
3. WELL LOC	ATION AS DRILLED	$\frac{1}{1609}$	11W 114, 5		action line an	d 192	ft. from	Eor	ection line.		
DISTANCE	S FROM SEC. LINE				LOT	, BLC	OCK FIL	ING (UNIT)_			
SUBDIVISI			he following	aettinas: For	mat must be	UTM, Unit	Owner's W	ell Designatio	m: <u>_1NUO</u> -	2	
Optional G	eters. Datum must b	e NAD83, Unit	must be set t	to true N,	Zone 12 or	Zone 13	B Casury			MM2	
CTREET A	ODRESS AT WELL	LOCATION:					Northing:	P U		4	
STREET A	SURFACE ELEVATI	ON	feet		DRILLING M	ETHOD_	Muu Koca	- y 		-	
A. GROUND	APLETED 9-14	-09 TO	OTAL DEPTH	487	feet D	EPTH CO	MPLETED 48	3.5 feet		-	
E GEOLOGIO					6. HOLE DU	AM (in.)	From (fi)	<u>To (ft)</u>	-	
Depth	Type	Grain Size	Color	Water Loc.	$-\frac{83}{101}$	/4	- 460		485	1	
0 10	Alluvial					/ 2 / <u>4</u>	- 400		487		
10-415	Laramie					/ 3	405			4	
415-487	FoxHills			ļ	7. PLAIN C	ASING:		E	To (#)	{	
	1				OD (in)	Kind	Wall Size (m)	+1	458.5		
						FVC				1	
				<u> </u>							
					PERFORAT	TED CASI	NG: Screen Slo	t Size (in):	030		
				+	3	PVC	- sch80	458.5	483.5	-	
ļ				1						-	
										-	
										4	
		1			8. FILTER F	ACK:	9. PACKE	R PLACEME	NT:		
					Material S	$\frac{111ca}{0.120}$	_sange _				
				ļ	Size	<u>0/20</u>					
				ļ	Interval	430.3				1	
					No. GRUUI	Amount	Density Ini	erval	Placement		
	L	1	L		Bent-	765ga	ls 13 lbs	0-459	Hallibu	rtor	
Remarks:					cem					,	
										4	
	TION: Tune				Amt. Use	d				4	
12. WELL TE	ST DATA: Chec	k box if Test Da	ta is submitte	d on Form N	lumber GWS	39 Supple	mentai Well Tes	L			
TESTING ME	THOD				p	Production	Rate	gpm.			
Static Level	ft. Da	ie/ i me measu	iou			est Length	n (hrs)				
Pumping Lev	Monitor W	ell to b	e teste	d at a	later d	late.			-100-31-	4	
Remarks: 13. I have read accordance with	the statements made I Rule 17.4 of the Wate	nerein and know i r Weil Constructi	the contents the on Rules, 2 CC	ereof, and they R 402-2. [The	are true to my	knowledge	. This document is contains false state	s signed and o ments is a viol	entities in lation of		
section 37-91-10	08(1)(e), C.R.S., and is	punishable by fi	nes up to \$500	U and/or revoc	Phone:			cense Numb	er. 1316	1	
Company Na	Sharpe	Drillin	g Compa	ny	307	1632-9	523			-	
Mailing Adde	P/0, B	px 20147	Cheye	nne, WY	82003	3					
Signature:			Print Na	me and Title	LVID SI	Jarne	Preside	at [Date	9	
LAA	1 Kin	<u> </u>								1	
10-											

FORM NO. GWS-31 04/2005	WELL CONSTRUCTION AND TEST REPORT For Office Use Only STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman SL, Room 818, Deriver, CO 80203 Phone - Info (303) 886-3587 Main (303) 886-3581 From Control of State Color State Col									
1. WELL PE	RMIT NUMBER: (A8504-M	H ch (USA), Inc.						
NAME OF	VELL OVINER.	DTC Par	kway, S	uite 14	0					
MAILING A	eenwood Vi.	lagestate	· CO		ZIP CODE:	80111	4			
TELEPHON	E NUMBER: (30.	3 ₎ 790_ 75	28					67	- 570 147	
3. WELL LOC DISTANCE	ATION AS DRILLER S FROM SEC. LINE	<u>): NE_{1/4,} 5: 760</u>	<u>NE</u> 1/4, S ft_from [iec. <u>33</u> , 1 ŽN or ⊡ S s	ection line a	[4] N or [1] and BLO	S, Range 7ft_from ICK, f		V section line.	
Optional G must be m	PS Location: GPS sters, Datum must b	Unit must use be NAD83, Unit	the following t must be set	settings: For to true N,	mat must b Zone 12 o	e UTM , Units r 🔲 Zone 13	Easting:			
STREET A	DDRESS AT WELL	LOCATION:					Mud Rota	arv		
4. GROUND	SURFACE ELEVAT	ION	feet	560	DRILLING	METHOD	HOLETED C	F.C 50	et	
DATE COM	PLETED 9-15-	-09 T	OTAL DEPTI	1	feet	DEPTH CO	Emm	(ff)	To (ft)	
5. GEOLOGI	LOG:		T	T	6. HOLE	5/4		1.11	533	
Depth	Туре	Grain Size	Color	Water Loc.	10	1/2	533		557	
0-10	Alluvial	<u> </u>	 	+		3/4	557		559.5	
10-480	Laramie	<u> </u>			7 DI AINI	CASING				
480-560	FoxHills	·			OD (in) 6	Kind PVC	Wall Size (in SDR17	n) From (fi +1	i) To (ft) 531	
						· · · · · · · · · · · · · · · · · · ·				
					PERFOR	ATED CASI PVC	NG: Screen &	Not Size (in):	<u>.03</u> 0 556	
					8. FILTER Material Size	PACK: silica <u>10/20</u> 531-55	9. PACH	(ER PLACE)	AENT:	
					Interval	TING RECO	RD			
					Material Bent-	Amount 876gal	Density	interval s 0-53	Placement 1 Hallibu	
Remarks:					cem					
					<u> </u>					
11. DISINFE	TION: Type ST DATA: Chec	k box if Test D	ata is submitt	ed on Form N	Amt U lumber GW	sed S 39 Supple	mental Well T	'est.		
TESTING MI Static Level	ETHODft. Da	ate/Time meas	ured:		•••••••••••••••••••	Production Test Length	Rate	gpm.		
Pumping Lev Remarks: 13. I have read	Monitor	well to herein and know	be test	ted at a	a late:	r date. my knowledge	. This docume	nt is signed an latements is a	d certified in violation of	
accordance with section 37-91-1 Company Na	Rule 17.4 of the Wat 08(1)(e), C.R.S., and I ime: Sharpe	er Weil Construct spunishable by f Drillir	ion railes, 2 Cl ines up to \$500 19 COMDA	Diand/or revoc	ation of the c	ontracting lice	anse.] 523	License Nu	mber: 1316	
Mailing	- P/Q. F	lox 20147	7 Cheyer	nne, WY	8200	3				
- BREAKING AND A	cao. ////		Drint N	ome and Title				t in one de	Date	

	FORM NO. WELL CONSTRUCTION AND TEST REPORT Por Once ose only GWS-S1 STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Room 818, Deriver, CO 80203 04/2005 Phone – Info (303) 886-3587 Main (303) 888-3581 Fax (303) 886-3589 http://www.water.state.co.us										
		MIT NUMBER: (48509-MI	H							
1-	WELL OWN	ER INFORMATION	I _	1 (2203) The			}			
	NAME OF \	WELL OWNER:	PowerTee	ch (USA), Inc.			4			
\vdash	MAILING A	DORESS: 55	75 DTC Pa	arkway,	Suite	140		4			
	CITY. Gr	eenwood Vi.	LageSTATE	: CO		ZIP CODE:	80111	4			
-	TELEPHON	E NUMBER: (30	3 ₁ 790 <u>75</u>	28				1 67	<u> </u>	7.44	
3.	WELL LOC	ATION AS DRILLED S FROM SEC. LINE	: <u>NW</u> 1/4, 1/4, 1/4, 1/4, 1/4, 1/4, 1/4, 1/4,	<u>NE</u> 1/4, Se fL from K	ec]Nor []Ss	Twp section line ar	11 N or 11 nd 3320	S, Range	_ ∐EorL]Eor∐ÄWs	ection line.	•
	SUBDIVISI	ON:				LOT	, BLO	Owner's W	eli Designatio	<u></u>	3-M№
	Optional G must be me	PS Location: GPS eters, Datum must b	Unit must use t e NAD83, Unit	he following a must be set t	ettings: For true N, []	mat must be] Zone 12 or	UTM, Units	Easting:		[]	MM4
	STREET A	DDRESS AT WELL	LOCATION:					Northing:			
1	GROUNDS	URFACE ELEVATI	ON	feet		DRILLING N		Mud Rota			
1	DATE COM	PLETED 0-16-	09 TC	OTAL DEPTH	591	feet [EPTH COL	MPLETED D	<u>feet</u>		
5	GEOLOGIC	LOG:				6. HOLE DI	AM (in.)	From (fi	t)	$\frac{10(\pi)}{564}$	
Ť.	enth	Туре	Grain Size	Color	Water Loc.			564		389	
5	1.0	Alluvial			ļ		۷	580		591	
11	0-516	Laramie				5 3/4		509			
5	16-591	FoxHills				7. PLAIN C	ASING:		Emm (R)	To (ff)	
٣					ļ	OD (in)	Kind DVC		+1	563	
					ļ						
F						PERFORA	TED CASIN	iG: Screen Sio -sch80	t Size (in): 563	.030 589	
L											
-											
-						8. FILTER	PĄCK:	9. PACKE	R PLACEME	NT:	
-						Material S J	lica s	santype _			
						Size 1	$\frac{0/20}{50}$				
					ļ	Interval	003-30				
						HO. GROUT	ING RECU	KU Density Ist	tonral	Placement	
				L	L	Bent-	925gal	ls 13 lbs	5 0-564	Hallibu	rtoi
R	temarks:					cem					
-		<u></u>									
F						Amt Use	ed				
11 12	. DISINFEC	TION: Type ST DATA: Check	box if Test Da	ta is submitte	d on Form N	lumber GWS	39 Suppler	mental Well Tes	t.		
T	ESTING ME	THOD					Production	Rate	gpm.		
S	static Level _ umping Leve	ft. Da elft. Da	te/Time measu te/Time measu	red:		1	Test Length	(hrs)			
F 13	Remarks: 1	the statements made to Rule 17.4 of the Wete	1 to be herein and know the r Well Construction	tested the contents the on Rules, 2 CC	at a 1 sreof, and they R 402-2. [The	<u>ater</u> da y are true to my e filing of a doc	te knowledge. ument that o	This document to ontains false state	s signed and coments is a vio	ertified in lation of	
40 50	ction 37-91-10	8(1)(e), C.R.S., and is	punishable by fir	nes up to \$5000) and/or revoc	ation of the co	ntracting lice	nse.j	cense Numb	er;	
C	Company Na	me: Sharpe D	rilling	Company		(307	<u>j632</u> 9	523		1316	
N	Mailing Addre	ss: P BOX	20141	cneyenr	ie, wr	02003					
S	ilgnature:	f. d	In	Print Na	me and Title	Lyle Sh	arpe,	Presiden	it 1	0-26-09	ł
	/										

FORM NO. GWS-31 04/2005	W STATE OF COLU 1313 Sherman St., Phone – Info (303) Fax (303) 868-358	EPORT For Office Use Only NEER			
1. WELL PER	MIT NUMBER:	048506-M	H		
2. WELL OWN	ER INFORMATION	PowerTe	ch (USA), Inc	
NAME OF V	VELL OWNER:	DTC Par	kwav. S	uite 1	40
MAILING AL	DRESS: 5575	11000TATE	<u> </u>		ZIP CODE: 80111
CITY: GT	eenwood VI	11490-752	8		
TELEPHON	E NUMBER. (303	NE 1/4 S	E 1/4. Se	xc.33	Wp. 10 Nor S, Range 67 E or W
3. WELLLOCA	EPOM SEC. LINE	s 3811	ft from 2	NorDSs	ection line and <u>4213</u> ft. from E or A W section line.
SUBDIVISIO					, LOT, BLOCK, FILING (UNIT) BLOCK, FILING (UNIT) BLOCK, BLOCK, BLOCK, FILING (UNIT), BLOCK, BLOCK, FILING (UNIT), FILING (UNIT), BLOCK, FILING (UNIT), FILING (UNIT)
Optional G	PS Location: GPS	Unit must use t e NAD83, Unit	he following a must be set t	ettings: For true N, [Tone 12 or C Zone 13 Easting: MM5
	DDESS AT WELL	LOCATION:			Northing:
SINCELAL	UPEACE ELEVATI	ON	feet		DRILLING METHOD
HA GROUND S	PLETED 9-97-	09 T	OTAL DEPTH	475.5	feet DEPTH COMPLETED 469 feet
	LOG:				6. HOLE DIAM (in.) From (π) 10 (ii.) 446
5. GEOLOGIO	Type	Grain Size	Color	Water Loc.	
0_10	Alluvial				$\frac{101/2}{52/4}$ $\frac{100}{470}$ $\frac{4755}{4755}$
10-412	Laramie				
412-475	5 FoxHills				17. PLAIN CASING:
		-			6 PVC SDR17 +1 444
				<u> </u>	
			<u> </u>		
					PERFORATED CASING: Screen Slot Size (in): 030 3 PVCSCN80 444 469
					8. FILTER PACK: 9. PACKER PLACEMENT:
					Materia Silica san dype
				<u> </u>	Size 444-469
					Interval Depth
			<u> </u>	ļ	10. GROUTING KECORU Andrewski Amount Dansity Interval Placement
		<u> </u>	<u> </u>	L	Bent- 743gals 13 1bs 0-444 Halliburto
Remarks:					cem
					Amt. Used
11. DISINFEC	ST DATA: Chec	k box if Test Da	ata is submitte	ed on Form I	Number GWS 39 Supplemental Well Test.
TESTING ME	THOD	to Olimper and Col	und:		Production Rate gpm.
Static Level	ft. Da	ner i ime measi	med		Test Length (hrs)
Pumping Lev	Monitor	well to	be test	ed at a	a later date.
13. I have read	the statements made Rule 17.4 of the Wat	herein and know ar Well Construct	the contents th ion Rules, 2 CC	ereof, and the R 402-2. [Th 0 and/or revo	e filing of a document that contains faise statements is a violation of cation of the contracting license.]
section 37-91-10 Company Na	08(1)(e),C.R.S., and 1 me: Sharpe	Drillin	g Compa	ny	Phone: (607)632-9523
	P.O.	020 20147	Cheve	nne, W	Y 82003
Signature: (/	Print Na	me and Tit	Lyle Sharpe, President 10-26-09
لإ	ty he st	ma			
V	1				

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FORM NO. GWS-31 04/2005	W STATE OF COL 1313 Sheman St. Bhone - Info (303)	ELL CONST ORADO, OFFI Room 818, Der 866-3587 Mair	RUCTION A CE OF THE S wer, CO 80203 1 (303) 866-358	ND TEST R STATE ENGI 3	EPORT NEER	FO		
WELL PE	Fax (303) 866-358	9 048503-	http://ww -MH	w.water.state.c	0.U\$			
WELL OWN	IER INFORMATION	owerTecl	n (USA)	, Inc.				
NAME OF V	VELLOWNER: 1	DTC Par	rkway.	Suite 1	40			
MAILING A	DDRESS: 5575	Jagestati	E. CO		ZIP CODE: 801	1		
CITY: GI		790 75	28					
TELEPHON	ATION AS DRILLE	- SW 1/4	NE 1/4. S	ec. 33 1	wp. 10 🖄 No	r 🗌 S, Range <u>67</u>	EorXW	
3. WELL LOU	S FROM SEC. LINE	ES: 2116	ft. from	NorDSs	ection line and _3	702 ft. from] E or V wection line	ł.
SUBDIVISI	ON:	-5-1-0	-		LOT	BLOCK, FII	/ell Designation: INO 8	-3
Ontional G	PS Location: GPS	Unit must use	the following	settings: For	mat must be UTM,	Jnits Easting:		
must be m	eters, Datum must b	be NAD83, Uni	t must be set	to true N, L		e io		
STREET A	DDRESS AT WELL	LOCATION:				- Mud Rota	CV	
4. GROUND	SURFACE ELEVAT	ION	feet		DKILLING METHU	COMPLETED 36	7. feet	
DATE COM	MPLETED 9-9-(<u>)9 </u>	OTAL DEPTI	H 300	6 HOLE DIAM (in) From (1	ft) To (ft)	
5. GEOLOGIO	CLOG:		Color	Water I on	8 3/4	0	351	
Depth	Type	Grain Size		Trater Low	10 1/2	351	366	
0-10	httuv tat	+	+		5 3/4	366	368	
10-368	Laramie	+			7. PLAIN CASING	:	- 44	
					OD (in) Kin	d Wall Size (in)	From (ft) To (ft) +1 350	
							· · · · · · · · · · · · · · · · · · ·	
		<u> </u>		+		ASING: Screen SI	ot Size (in): .030	
					3 PV	C sch80	350 365	
					[· ····································	
]			
					8. FILTER PACK	9. PACK	ER PLACEMENT:	
			+		Material 51110)		
<u></u>				+	Interval 350-3	65 Depth		
					10. GROUTING F	ECORD		
					Material Ameu	nt Density D	nterval Placemen	it bu
Remarks:					Cem			
11. DISINFE	CTION: Type	ok hav if Teet F	lata is submit	ted on Form	Tumber GWS 39 St	pplemental Well Te	est.	
12. WELL IE	STUAIA. LI CITE	UN DUA II I COLL						
TESTING M		ate/Time mean	sured:		, Produc	tion Rate	gpm.	
Static Level	vel fi D	ate/Time meas	sured		Test L	ength (hrs)	<u></u> .	
Remarks:	Moniter	Well to	be test	ed at a	<u>later</u> dat	e Indea This desument	le sinned and cartified in	
13. I have read accordance with	the statements made h Rule 17.4 of the Wat	ter Well Construct	w the contents i ction Rules, 2 C fines up to \$50	thereof, and the CR 402-2. [The 100 and/or revo	e filing of a document cation of the contraction	nage. This document that contains false state g license.]	tements is a violation of	
Company N	ame: Sharpe	Drillir	ng Compa	any	Phone: (307632	-9523	License Number: 1316	
Mailing Add	P.O. B	ox 20147	7 Cheye	enne, W	<u>82003</u>		Date Date	
Signature:	-XL		FINK P		Lyie Snarg	e, rreside	inc 10-26	-0
				the second s				

FORM NO. WELL CONSTRUCTION AND TEST REPORT GWS-31 STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 04/2005 1313 Sherman St., Room 818, Denver, CO 80203 Phone – Info (303) 866-3587 Main (303) 866-3581 Fax (303) 866-3589 http://www.water.state.co.us									
WELL PER	MIT NUMBER:	048505-M	H						
2. WELL OWN	ER INFORMATION	l PowerTec	h (USA)	. Inc.					
NAME OF V	VELL OWNER:	FOWELLEC	rkway.	Suite	140				
MAILING A	DDRESS: 557				ZIP CODE: 80111				
CITY: Gre	enwood VII	1 agestate	8						
TELEPHON	IE NUMBER: (50-	SE	NW 4/4 Se	33 -	wp 10 VN or S, Range 67 E or W				
3. WELL LOCA	ATION AS DRILLE	$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{4}$		Nor∏Ss	ection line and 1968 ft. from E or KW section line.				
DISTANCE	S FROM SEC. LINI	-8: _1625_			LOTBLOCKFILING (UNIT)TN08-3				
SUBDIVISI	ON:		ho following s	ettings For	mat must be UTM, Units Casting:				
Optional G must be me	PS Location: GPS eters, Datum must I	Unit must use to be NAD83, Unit	must be set t	o true N,	Zone 12 or Zone 13 Zone 12 or Xorthing:				
STREET A	DDRESS AT WELL	LOCATION:			DRIVING WETHOD Mud Rotary				
4. GROUND S	SURFACE ELEVAT	ION	feet	344	feet DEPTH COMPLETED 341 feet				
DATE COM	PLETED 9-25	-09 T	JTAL DEPTH		B HOLE DIAM (in.) From (ft) To (ft)				
5. GEOLOGIO	LOG:		Oalar	Mator Loo	<u>6</u> <u>0</u> <u>326</u>				
Depth	Туре	Grain Size	Color	vvalei Luu	10 1/2 326 342				
0-10	Alluvial	<u> </u>			5 3/4 342 344				
10-344	Daramite		<u> </u>		7. PLAIN CASING:				
					OD (in) Kind Wall Size (in) From (ft) To (ft)				
		+			6 <u>PVC SDR17 +1 325</u>				
		+			020				
					PERFORATED CASING: Screen Slot Size (in): -030				
					<u>3 PVC SCHOU 525 540</u>				
			L						
			<u> </u>		8. FILLER PACK IS. FACKERT BROKEN				
			<u> </u>		Size 10/20				
					interval 325-340 Depth				
L			-	+	10. GROUTING RECORD				
L	<u> </u>		+		Material Amount Density Interval Placement				
L	<u> </u>		<u> </u>	<u></u>	Bent- 561gals 13Lbs 0-326 Hallibur				
Remarks:					cem				
	CTION: Type				Amt. Used				
12. WELL TE	ST DATA:	ck box if Test D	ata is submitt	ed on Form	Number GWS 39 Supplemental Well Test.				
TESTING M	ETHOD								
Static Level	fL C	ate/Time meas	ured:		Production Rate gpm.				
Pumping Le	vel ft. C	ate/Time meas	ured		Test Length (hrs)				
Remarks:	Moniter W	ell to b	e teste	a at a	LACEL UALE				
13. I have read	the statements made	herein and know ter Well Construct	tine contents the tion Rules. 2 CO	CR 402-2.	e filing of a document that contains false statements is a violation of				
section 37-91-1	108(1)(e). C.R.S., and	is punishable by	ines up to \$500	0 and/or revo	cation of the contracting license.]				
Company N	^{ame:} Sharpe I	rilling	Company		3'07632 9523 1316				
Mailing Add	ese P.O. Bos	20147	Cheyen	ne, WY	82003				
Signature:	1.11		Print N	ame and Titl	^e Lyle Sharpe, President 10-26-0				
and the second se	11 11				• • •				

FORM NO. GWS-31 04/2005	W STATE OF COL 1313 Sherman St Phone – Info (303 Fax (303) 868-35	/ELL CONSTI ORADO, OFFI ., Room 818, Den) 866-3587 Main 89	RUCTION A CE OF THE S ver, CO 80203 (303) 866-358 http://www	ND TEST F TATE ENGI 1 v.water.state.c	NGINEER				
	RMIT NUMBER:04	8507-MH					4		
2. WELL OWN	IER INFORMATIO	N	th (USA)	. Inc.					
NAME OF \	WELL OWNER:	TE DEC De	rkway	Suite1	40	<u> </u>	1		
MAILING A	DDRESS: 55	15 DTC Pa	. CO			80111	1		
CITY: Gre		1.790 75	28				4		
TELEPHON	E NUMBER: (50	NE 44 1	NE 1/4 S	33 -	Two 10	Nor	S, Range 67		N
3. WELL LOC	ATION AS DRILLE	D: -1/4, =	f from []	JN or ∏Ss	ection line at	1d _500	e_ft. from	E or 🙀 W sec	tion line.
DISTANCE	S FROM SEC. LIN	ES. <u>/83</u>		A	, LOT	BLC	CK, FIL	ING (UNIT)	N08-33
SUBDIVISI	0N	Linit must use	the following s	settinas: Fo	mat must be	UTM, Units	Owner's W	ell Designation	100 3
Optional G	eters. Datum must	be NAD83, Unit	must be set t	to true N,	Zone 12 or	Zone 13	Lasung		
STREET A	DORESS AT WELL	LOCATION:					Northing:		
A CROUND		ION	feet		DRILLING M	NETHOD _	Aud Rotal	<u>Y</u>	
4. GROUND	API FTED 9-11.	-09 T	OTAL DEPTH	269	feet (DEPTH CO	MPLETED 2	57 <u>feet</u>	(6)
5 GEOLOGI	CLOG:				6. HOLE D	AM (in.)	From (1	t) I	$\frac{o(\pi)}{237}$
Depth	Туре	Grain Size	Color	Water Loc		172			267
0-10	Alluvial				$\frac{10}{-52}$	TA		·······	269
10-269	Laramie		<u> </u>	<u> </u>	5 5	/ 4	207		
				<u> </u>	7. PLAIN C	ASING:	Moll Size (in)	From (ft)	To (ft)
			ļ		1 00 (in) 1 6	PVC	SDR17	+1	236
			<u> </u>		·				
		_ <u>_</u>	+						
				<u> </u>					
			<u> </u>	1	PERFORA	TED CASI	NG: Screen Sl	ot Size (in): 0	30
					3	PVC	sch80		200
								<u> </u>	
			<u> </u>					D DI ACEMENI	
			<u></u>	<u></u>	8. FILTER	PACK silica	sand	RPLACEMEN	"
			<u> </u>	+	_ Matenai	10/20	''ype		
ļ				+		236-2	66 Depth		
	+		1	1	10. GROUT	TING RECO	ORD		
	+		1		Material	Amount _		nterval	acement
Remarks.	1				Bent-	423 g	ars 1210		
							-		
					1				
11. DISINFE	CTION: Type			ad on fame l	Amt. Us	ed 39 Supple	mental Well Te	st	
12. WELL TE	ST DATA: Che	CK DOX IT TEST D	ata is sudmitti	eu un ronn i	Annael Gaad	, or outple			
TESTING M						Production	Rate	gpm.	
Static Level	ft C	ate/ I me meas	ured:		ا مىمىيى مىر	Test Lenat	n (hrs)		
Pumping Lev	Monitor We	11 to be	tested	at a :	Later d	ate.			
Kemarks: 13. I have read accordance with	the statements made h Rule 17.4 of the Wa	herein and know ter Well Construct	the contents the tion Rules, 2 CC	ereof, and the CR 402-2. [Th	e filing of a do	y knowledge cument that	 This document contains false state ense.] 	is signed and cer iements is a violat	tified in tion of
Company Na	ame: Sharpe	Drilling	Compan	<u>.</u> Ү	Phon (30	; 7 ₎ 632_9	523	license Number	1316
Mailing Add	, P. O. BC	5x 20147	Cheyen	ne, WY	82003				
Signature	7 + 12	<u> </u>	Print No	ame and Title	Lyle S	harpe.	Preside	nt 1	te 26-09
1	AT I I		1		• · · · ·	- /		1	

Image: Number 2008/00/2008 Control (USA), Inc. NAME OF WELL OWNER: PowerTech (USA), Inc. MALING ADDRESS 5575 DTC Parkway, Suite 140 MULMA ADDRESS 5575 DTC Parkway, Suite 140 OTY Greenwood VillargeTATE_CO ZPCODE: 80111 TELEPHONE NUMBER(303) 790.7528 TS MULMA ADDRESS 5575 DTC Parkway, Suite 140 DISTANCES FROM SEC. LINES: TS SUBDIVISION:		FORM NO. WELL CONSTRUCTION AND TEST REPORT For Onice das only GWS-31 STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman SL, Room 818, Danver, CO 80203 04/2005 Phone - Info (303) 866-3587 Main (303) 868-3581 Fax (303) 866-3589 http://www.water.state.co.us										
2 WELL OWNER INFORMATION POWEYTECH (USA), Inc. NAME OF WELL OWNER: PoweyTech (USA), Inc. MALING ADDRESS: 5575 DTC Parkway, Suite 140 MALING ADDRESS: 5575 DTC Parkway, Suite 140 MALING ADDRESS: 5575 DTC Parkway, Suite 140 TC Pa	11.	WELL PE	MIT NUMBER:	048502-1	1H				4			
NULING ADDRESS: 575 DTC Parkway, Suite 140 MALING ADDRESS: 575 DTC Parkway, Suite 140 ITC: Greenwood VillageStrate: CO ZP CODE: 80111 ITELEPHONE NUMBER: (303 790.7528) n. Fom CM or C secton file M or C secton fil	2.	WELL OWN	IER INFORMATION	PowerTec	ch (USA), Inc.						
International control of the state of t		MAILING A	DDRESS: 557	5 DTC Pa	arkway,	Suite	140]			
TELEPHONE NUMBER: (303, 790, 7528 3. WELLLOCATION AS DRULED: SW 14, NE 14, Sec. 33 Tup, 10 DN or 5, Range 67 DE or 5W Section ine. DISTANCES FROM SEC. LINES: 175, NE 14, Sec. 33 rup, 10 DN or 5, Range 67 DE or 5W Section ine. SUBDIVISION:		CITY: Gr	eenwood Vil	lageSTATE	CO		ZIP CODE:	80111	4			
3. WELLUCATION AS DRILED: SW 14, NE 14, Sec. 33 top. 10 [3] wards, karge		TELEPHON	E NUMBER: (303	<u>8) 790- 75</u>	28		10	-X., 5	6	TIEard	£1.44	
DISTANCES FROM SEC. UNES:	3. 1	WELL LOC	ATION AS DRILLED	SW 1/4, 1	<u>NE</u> 1/4, S		Twp	PNor∐ and 369	8, Range	Eor∐)Eor∐ Wa	section line.	
ODDINGEN CPG00al GPS Location: GPS Unit must use the following settings: Format must be UTNL, Units Central Constraints Easting: MUI1 mist be meters, Ostum must be NADS3, Unit must be set to true N, Cli Zone 12 or Clone 13 Northing: Northing: Northing: STREET ADDRESS AT Well LOCATION: Northing: Northing: Northing: Northing: ACROUND SURFACE ELEVATION feet DEPTH COMPLETED 539 feet DEPTH COMPLETED 539 feet ACROUND SURFACE ELEVATION feet DEPTH COMPLETED 539 feet 5374 5399 601 A GEOLOGIC LOGS: B. HOLE DAMA (IN) Fran (II) To (II) 5374 5399 601 A GEOLOGIC LOGS: Color Water Log TO 17/2 564 599 601 A GEOLOGIC LOGS: Color Grain Size Color (II) for (III) 5374 5399 601 10-460 Libraramie FORMING: Op (IIII) Size (IIII) Size (IIII) Size (IIIIIIIII) Op (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		DISTANCE	S FROM SEC. LINE	:8:			LOT	, BLC	CKFIL	ING (UNIT)		3-MU
Industry, dual notes Notifug: STREET ADDRESS AT WELL LOCATION: PRELING METHOD, Mud. Rot ary 4. GROUND SURFACE ELEVATION: feet DRILLING METHOD, Mud. Rot ary 5. GEOLOGIC LOS: 5. HOLEDUAM (n.) From (ft) To (ft) 6. GEOLOGIC LOS: 5. 37.4 5.99 601 10.450 Laranie 7. PLAIN CASING: 5.99 601 10.450 Laranie 7. PLAIN CASING: 00 (n) From (ft) To (ft) 4.60-501 FOXHills 00 (n) Kind Vall Size (n) From (ft) To (ft) 4.60-501 FOXHills 00 (n) Kind Wall Size (n) From (ft) To (ft) 9 9 Size 0.70 Size 5.77 To (ft) 5.82.5 9 0.10 1 PERFORATED CASING: Screen Slot Size (n) .030 9 Size 107/20 Screen Slot Size 5.97 9 Size 107/20 Screen Slot Size 5.97 9 Size 107/20 Screen Slot Size 5.97 9 Size 107/20 Screen Slot Size Size 9 Size 107/20 Screen Slot Size Size 9 Size		Optional G	PS Location: GPS	Unit must use t e NAD83, Unit	he following a must be set t	ettings: For	mat must b] Zone 12 o	e UTM, Unit r 🔲 Zone 13	Easting:	eli Designau		MU1
SIREE NUMERACE ELEVATION feet DRILLING METHOD Much RCC11Y LARCUND SURFACE ELEVATION feet DEPTH COMPLETED 599 feet S. GEOLOGIC LOG: is HULEDIAM (in) To (it) To (it) S. GEOLOGIC LOG: Grain Size Color Water Loce 8 374 599 599 Data Data District (in) From (it) To (it) 584 Desth Type Grain Size Color Water Loce 8 374 599 601 10 -460 Laramie 7. PLAIN CASING: Color VC SDR17 +1 582.5 0 0 6 PVC SDR17 +1 582.5 597 0 0 0 0 Water Sore Sore Sore Sore Sore Sore Sore So			NDESS AT WELL	OCATION:					Northing:			
4. GROUND SOMPLETED 9-22-09 TOTAL DEPTH 601 feet DEPTH COMPLETED 9-22-09 feet 0. GEOLOGIC LOG: 2.22-09 TOTAL DEPTH 601 Foot (ft) Foot (ft) 584 0.10 All Luvial 574 599 601 10.460 Laramie 534 599 601 10.460 Foot (ft) 534 599 601 10.460 Foot (ft) 534 599 601 10.460 Foot (ft) State (ft) 7. Foot (ft) 60 460-601 Foot (ft) State (ft) 7. Foot (ft) 582.5 00 Foot (ft) State (ft) 7. 582.5 597 10.10 Foot (ft) State (ft) 7. 582.5 597 10.10 Foot (ft) State (ft) 7. 582.5 597 10.10 Foot (ft) State (ft) 7. 57.7 57.7 10.10 State (ft) State (ft) 7. 57.7 57.7 10.10 State (ft) State (ft) State (ft) <t< td=""><td>-</td><td>STREET A</td><td>UDEACE ELEVAT</td><td>ON</td><td>feet</td><td></td><td>DRILLING</td><td>METHOD_</td><td>Mud Rotai</td><td>cy</td><td></td><td></td></t<>	-	STREET A	UDEACE ELEVAT	ON	feet		DRILLING	METHOD_	Mud Rotai	cy		
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10-460 Laramie 3.374 500 460-601 FoxHills 7. PLAIN CASING: OD (in) Kind Well Size (in) From (ft) To (ft) 9 00 Kind Well Size (in) From (ft) To (ft) 582.5 9 00 Kind Well Size (in) From (ft) To (ft) 9 9 Size 10 9 Size 10 0.00 0.00 9 9 Size 10 Size 10720 Size 1020 Size 10720 Size 1020 Size 1000000000000000000000000000000000000		-10	Alluvial					1/2 TA	- 504		601	
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State 582-597 Depth Interval 582-597 Depth Interval 582-597 Depth Interval GROUTING RECORD Placement Material Amount Density Interval Placement Bernt 955gals T31bs 0-583 Halliburton Interval 10 GROUTING RECORD Pasterial Amt Used Interval Interval 955gals T31bs 0-583 Halliburton Interval Interval Static Level Amt Used Interval gpm. Static Level ft Date/Time measured Test Length (hrs) gpm. Pumping Level ft Date/Time measured, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of							Material 1	0720	_ 'ype _			
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11. DISINFECTION: Type Amt. Used 12. WELL TEST DATA: [] Check box if Test Data is submitted on Form Number GWS 39 Supplemental Well Test. TESTING METHOD Static Levelft. Date/Time measured:Production Rategpm. Pumping Levelft. Date/Time measuredProduction Rategpm. Remarks: MONITOR well to be tested at a later date. Remarks: MONITOR well to be tested at a later date. Remarks: Monitor well to be tested at a later date. Remarks: Monitor well to be tested at a later date. Remarks: Monitor well to be tested at a later date. Remarks: Monitor well to be tested at a later date. Remarks: Monitor well to be tested at a later date. Remarks: Monitor well to be tested at a later date. Remarks: Monitor well to be tested at a later date. Remarks: Monitor well to be tested at a later date. Remarks: Monitor well to be tested at a later date. Remarks: State Provent Well Construction Rules, 2 CCR 402-2. [The filling of a document that contains false statements is a violation of accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filling of a document that contains false statements is a violation of accordance.] Company Name: Sharpe Drilling Company [307] 632.9523 License Number: 1316 Mailing Address: P.O. Box 20147 Cheyenne, WY 82003 Signature: Date	R	marks:					Dente-					
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TESTING METHOD ft Date/Time measured:	72	WELL IES	TUOD									
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Pumping certaining certain grade Monitor well to be tested at a later date. Remarks: Monitor well to be tested at a later date. 13. Have read the statements made herein and know the contants thereof, and they are true to my knowledge. This document is signed and certified in accordance with Rule 17.4 of the Water Weil Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of accordance with Rule 17.4 of the Water Weil Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of accordance with Rule 17.4 of the Water Weil Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of accordance with Rule 17.4 of the Water Weil Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.] License Number. 1316 Company Name: Sharpe Drilling Company [307] 632.9523 License Number. 1316 Mailing Address: P.O. Box 20147 Cheyenne, WY 82003 Date 10-26-09 Signature: Print Name and Title Lyle Sharpe, President Date 10-26-09	St	auc Level _	iL Da	te/Time measu	red			Test Length	(hrs)			
The read the statements made herein and know the contents thereof, and they are true to my knowledge. This document it is sented and content of accordance with Rule 17.4 of the Water Weil Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.] Company Name: Phone: (307) 632. 9523 License Number: 1316 Mailing Address: P.O. Box 20147 Cheyenne, WY 82003 Signature: Print Name and Title Lyle Sharpe, President Date 10-26-09		amarka. Amarka	Monitor we	ll to be	e testec	lat a	later	date.	This deputtion of h	eigned and (entified in	
Section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.] Company Name: Sharpe Drilling Company Phone: (307) 632.9523 License Number: 1316 Mailing Address: P.O. Box 20147 Cheyenne, WY 82003 Signature: Print Name and Title Lyle Sharpe, President Date 10-26-09	13.	I have read	the statements made h	r Weil Construction	he contents the on Rules, 2 CC	ereof, and they R 402-2. [The	y are true to f e filing of a do	ny knowledge ocument that c	ontains false state	ments is a vio	lation of	
Company Name: Sharpe Drilling Company 1316 Mailing Address: P.O. Box 20147 Cheyenne, WY 82003 Mailing Address: Print Name and Title Lyle Sharpe, President Date Signature: Print Name and Title Lyle Sharpe, President 10-26-09	acc sec	tion 37-91-10	8(1)(e), C.R.S., and is	punishable by fir	tes up to \$5000	0 and/or revoc	ation of the c	ontracting lice	nse.]	cense Numb	er.	
Malling Address: P.O. Box 20147 Cheyenne, WY 82003 Signature: Print Name and Title Lyle Sharpe, President Date 10-26-09	C	ompany Nai	ne: Sharpe	Drilling	g Compar	ıy	(30	7,632.	9523		1316	
Signature: Print Name and Title Lyle Sharpe, President 10-26-09	 		P.O. Bo	x 20147	Cheyer	nne, WY	8200	3	_			
1. 1. Alm 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	Si	gnature:			Print Na	me and Title	Lvle	Sharpe	. Preside	nt	Date 0-26-09	
		7.0	- JIm								0 20 07	

	FORM NO. GWS-31 04/2005	W STATE OF COL 1313 Sherman SL Phone – Info (303) Fax (303) 866-368	ELL CONST ORADO, OFFI Room 818, Den 866-3587 Main 9	RUCTION A CE OF THE S wer, CO 80203 (303) 868-358 http://www	ND TEST F TATE ENGI 1 v.water.state.c	REPORT NEER	For Ome	e Use Only	
1.	WELL PE	RMIT NUMBER:	048502	-MH					l
2.	WELL OWN	NER INFORMATION	PowerTe	ch (USA)). Inc.				l
	NAME OF V	WELL OWNER:	5575 DT	C Parkw	av. Sui	te 140			
L	MAILING A	DDRESS:		$\sim CO$		718 CODE: 80111			
L	CITY: GI		3, 790 75	28		Lir 0002.			l
-	TELEPHON	VE NUMBER: (3 CT	SW 1/A	NE 1/4 S	33 1	wp. 10 P¥N or □ 8	5, Range <u>67</u>]Eor 🛛 W	
3.	DISTANCE SUBDIVISI	IN AS DRILLED	s: <u>2194</u>	ft. from	N or Ss	ection line and 3698	ft from E or K FILING (W section line.	-MUU
	Optional G must be me	PS Location: GPS eters, Datum must b	Unit must use i e NAD83, Unit	the following s must be set t	ettings: For o true N,	mat must be UTM, Units Zone 12 or Zone 13	Easting:		MUUI
	STREET A	DDRESS AT WELL	LOCATION:			N	Northing:		ſ
4	GROUND S	SURFACE ELEVATI	ON	feet	<i>c</i> 2 <i>c</i>	DRILLING METHOD	634	- for cal	ļ
	DATE CON	PLETED 9-18-	-09 T	OTAL DEPTH	030	feet DEPTH COM	PLETED 034		
5.	GEOLOGIC	LOG:				6. HOLE DIAM (in.)	<u></u>	614	ĺ
	epth	Туре	Grain Size	Color	Water Loc.	$\frac{0.3/2}{10.1/2}$	614	635	
۵	10	Alluvial				5 3/4	635	636	
Ľ	-10					DI AINI CARING			
11)-455	Laramie				7, PLAIN CASING:	Wall Size (in) Fro	om (ft) To (ft)	
4	55-636	FoxHills	<u></u>			6 PVC	SDR17 +1	613	
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\vdash						PEREORATED CASING	3: Screen Slot Size	(in):	
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F								OFMENT	
						8. FILTER PACK:	9. PACKER PL	CEMENT.	[
						Material SIIICa S			
				ļ		Size $\frac{10720}{10720}$	- Depth		
						IN CROLITING RECOR	<u>100pt:</u>		
						Material Amount	Donsity Interval	Placement	
	ليسبب	l	L	L		Bent- 1002ga	<u>ls 131bs 0-</u>	<u>-613 Hallibu</u>	rton
R	emarks:					cem			
-									
F	DIGINEEO	TION Type				Amt. Used			
12	WELL TES	ST DATA: Check	k box if Test Da	ta is submitte	d on Form N	umber GWS 39 Supplem	ental Well Test.		
-	ESTING MF	THOD							
s	tatic Level	ft. Da	te/Time measu	red:		Production R	ate 9P	m.	
P	umping Leve	ei ft. Da	te/Time measu	red	<u> </u>	Test Length (hrs)		l
	emarks:	Monitor we	11 to be	tested	at a	Later uate.	This document is sland	ed and certified in	
13	I have read	the statements made t	norein and know i r Well Construction	ine contents the on Rules, 2 CC	R 402-2. [The	fling of a document that co	ntains faise statements	is a violation of	
se	tion 37-91-10)8(1)(e), C.R.S., and is	punishable by fir	nes up to \$5000	and/or revoci	ation of the contracting licens	icense	Number:	
C	ompany Nar	^{me:} Sharpe	Drilling	Compan	У	(307) 632 95	523	1316	
\vdash		P2 0 BO	x 20147	Cheven	ne, WY	82003	-		
	ailing Addre	35. 7 170		Print Na	me and Title	Tula Ohanna	Drocident	Date	Í
۲ ا		attu				Lyre Snarpe,	rrestaeur	110-20-09	ł

FORM NO. WELL CONSTRUCTION AND TEST REPORT For Office Use Only GWS-31 STATE OF COLORADO, OFFICE OF THE STATE ENGINEER 1313 Sherman St., Room 818, Denver, CO 80203 04/2005 1313 Sherman St., Room 818, Denver, CO 80203 Phone – Info (303) 866-3587 Phone – Info (303) 866-3587 Main (303) 866-3581 Fax (303) 866-3589 http://www.water.state.co.us	
1. WELL PERMIT NUMBER: 048504-MH	
2. WELL OWNER INFORMATION PowerTech (USA), Inc.	
NAME OF WELL OWNER: 5575 DTC Parkway, Suite 140	
MAILING ADDRESS: STOP FILE CO. ZIP CODE: 80111	
CITY: GIEENWOOd VIIIdgesiAre oo Zir cobe	
TELEPHONE NUMBER: (000) SE1/4 NW 1/4 Sec 33 Two 10 A Nor S. Range 67 E or W	
3. WELL LOCATION AS DRILLED. 1648 ft from [4N or [] S section line and 2022 ft. from [] E or [] W section line.	
SUBDIVISION:	Э M71
Optional GPS Location: GPS Unit must use the following settings: Format must be UTM, Units Optional GPS Location: GPS Unit must be set to true N I Zone 12 or I Zone 13 Owner's Well Designation: INUO-3 Easting:	2
must be meters, Datum must be nados, One must be set to date it, E zone iz a E zone in a Northing:	IUU2
STREET ADDRESS AT WELL LOCATION: Mud Rotary	
4. GROUND SURFACE ELEVATION teet 603 feet DEPTH COMPLETED 600 feet	
DATE COMPLETED 9_25_09 TOTAL DEPTH INCOMPLETED 9_25_09 TOTAL DEPTH	
5. GEOLOGIC LOG: Size Color Water Loc 8 3/4 0 581	
Depth Type Chair one Oster 10 1/2 580 600	
10-417 Laramie	
417-603 FOXHILLS 7. PLAIN CASING:	
OD (in) Kind Wall Size (in) From (ft) To (ft)	
6 PVC SDR17 +1 380	
PERFORATED CASING: Screen Slot Size (iii)	
8. FILTER PACK: 9. PACKER PLACEMENT:	
Material silica sand	
Size 10/20	
Interval 580-600 Depth	
10. GROUTING RECORD	
Material Amount Density Interval Placement Bent- 952gals 13 lbs 0-580 Hallibur	ton
Remarks:	
Amt Hood	
11. DISINFECTION: Type [Annu Oscu	
Static Level ft. Date/Time measured: Production Rate gpm.	
Pumping Levelft_ Date/Time measured Test Length (hrs)	
Remarks: Monitor well to be tested at a later date.	
13. I have read the statements made nerem and know the contents thereon, and they are due to the internet that contains false statements is a violation of accordance with Rule 17.4 of the Water Well Construction Rules, 2 CCR 402-2. [The filing of a document that contains false statements is a violation of	
section 37-91-108(1)(e), C.R.S., and is punishable by fines up to \$5000 and/or revocation of the contracting license.]	
Company Name: Sharpe Drilling Company (307) 632 9523	
Mailing Address: P.O. BOx 20147 Cheyenne, WY 82003	
Signature: Print Name and Title Lyle Sharpe, President Date 10-26-09	

GWS-31 04/2005	STATE OF COLU 1313 Sherman St., Phone – info (303) Fax (303) 886-358	ELL CONSTR DRADO, OFFIC Room 818, Den 806-3587 Main			
WELL PER	MIT NUMBER:	048502-	-MH		
WELL OWNE		PowerTec	ch (USA)), Inc.	
NAME OF W	ELLOWINER.	DTC Par	rkway,	Suite 1	40
MAILING AD	DRESS: enwood Vil	lagestate	. CO		ZIP CODE: 80111
CITY: 010	ANI IMPED. (303	790 75	28		
		• NE 1/4 N	E 1/4. S	ec. 33 -	$[wp. \frac{10}{10} \square N \text{ or } \square S, \text{ Range } \frac{67}{10} \square E \text{ or } \square W$
DISTANCES	FROM SEC. LINE	s:810	ft_ from [NorDSs	ection line and 4977 ft. from $\Box E \text{ or } \Box W$ section line.
SUBDIVISIO	N:	•	-		LOT BLOCK FILING (UNIT)
Optional GP	S Location: GPS	Unit must use t e NAD83, Unit	he following s must be set t	settings: For	mat must be UTM, Units Zone 12 or Zone 13
OTDEET AD	DESS AT WELL	OCATION:			Northing:
SIREETAU	IDEACE ELEVATA	<u></u>	feet		DRILLING METHOD Mud Rotary
, GROUND SU	ETED 0 21	00 T(DTAL DEPTH	660	feet DEPTH COMPLETED 658 feet
GEOLOGIC I	OG:				6. HOLE DIAM (in.) From (ft) To (ft)
Denth -	Type	Grain Size	Color	Water Loc.	$\begin{array}{c} 0 3/4 \\ 10 1/2 \\ \hline 639 \\ \hline 658 \\ \hline \end{array}$
0 10 1	lluwial			ļ	<u> </u>
10-507 I	aramie			ļ	5 5/4 050 000
507-660	FoxHills			ļ	7. PLAIN CASING:
		<u>.</u>		<u> </u>	6 PVC SDR17 +1 638
				<u> </u>	
					PERFORATED CASING: Screen Slot Size (in):030
				1	<u>3 PVC - sch80 638 658</u>
]	
				L	8. FILTER PACK: 9. PACKER PLACEMENT.
					Material 10/20
					size 638-658 Depth
				+	10 GROUTING RECORD
				1	Material Amount Density Interval Placement
		L	L		Bent-1040gals 13lbs 0-638 Halliburt
Remarks:					Cem
	10N: Type				Amt. Used
2. WELL TEST	TDATA: Check	box if Test Da	nta ls submitte	d on Form h	lumber GVV5 39 Supplemental VVBL 1 Col.
TESTING MET	нор				Develueites Date (IDM)
Static Level	fL Da	te/Time measu	red:		Togt Length (hrs)
Pumping Level	ft. Da	te/Time measu	red		lator date
Remarks: N	ionitor we	LL to be	tested	ereof, and the	are true to my knowledge. This document is signed and certified in
 I have read th ccordance with R 	tule 17.4 of the Wate	Well Constructi	on Rules, 2 CC	R 402-2. [Th	s filing of a document that contains false statements is a violation of a document the contracting license.]
ection 37-91-108 Company Nam	(1)(e), C.R.S., and is e: Sharpe	punknable by fi Drilling	Compan	u and/or revoc	Bione: 632 9523 License Number: 1316
		- 20147	Chavon	DO LIV	82003
	P_0 / /BO	X 2014/	- Cheven	me. wi	02003
Mailing Addres	P.0./BO	x 20147	Ciseyen	me and Title	Date

			Attach	ment A	: R Squa	nred In	ic.					
			Well	Develo	opment R	lecord			1		2	
			1 1				ĸ	SHEET	-> ->	01	2 , .+	L.
	Project Name:	-C. Kuil	a1	د هده معمور و مودهای	Pr	oject No	.: <u>J</u>	etter	33	Pemp	the le	57
	Well ID:	08-33.	- PUU1		Da	ate Instal	iled:					
	Casing Diameter:	12										
	METHOD OF DE	VELOPMEN	I									
	Swabbing	🗖 Bailing	Punip Punip	ing 🛌	Describ	C						
	Equipment decontar	ninated prior t	o developme		LYes □	l No						
	Describe	PFB	allod	. 11	16 = 6	Ue!!	V	io lum	2	. Tu	nnte (1
	CA PUMP	At 693.	1 on 8	19/09	.							
	1 1			,, ·								
	CASING VOLUM	E INFORMA	TION	~ •				7 15	<u>. 1</u>	30		
	Casing III (inch)	10 (mla) 0.04	15 2	4 22 16 64		40	0.75	20	1.5	20	26	
	Chin Cashig Volume 194	(famil) 104			11.477							
	PURGING INFOR	MATION	j-rolla	- 49:	1-							
	Measured Well Dep	oth (B) <u>し</u> タギ	4:500	Siren	1325A		[7 7				
	Measured Water Le	vel Depth (C)	<u></u> t	T	fì.			ſ	ç			
	Length of Static Wa	ner Column (E) <u>525</u> .	27-1	- <u>48</u> fi.		$h \sim$	- 1	+	1		
	Cocing Water Volu	248	1.5	<u>``</u> '3	72				Γi	•		
	t anig that i vola	(A)	(D)									
	Volume of Water A	dded to Well I	During Instal	lation = _	<u> </u>					1		
	Total Purge Volume	312	(gal)									
<u> </u>		Water Level	Volume						.			
/ Duta	Pump Time Pum	Depth	Removed	511	Cond 7.4S/cm)	Temper	rature	Turbidity		Commen	ite	
< 1949		771	20		7257		<u>`</u>	ENL	1	<		
	1530 114	211	0,51	11.H	225	64	·	43 9	++	~1L	in /	
	The Olaria	319	1,0	117	5718	1.25	5	219		clear		
al ialist	C949 84PM	350	1.5	11,19	\$68,5	63	91	118,	3 /	yurky	four	
Differ.	1010 Sym	360	2,0	10.92	1:30.0	64.	70	25.8	~	cleal	-	
rused	1031 10gm	368.7	2.5	10,79	585.	64,	03	22.9		cleo	v-]	- Jen
	Samplers Signature	\square		- •				Date:	5/1	5/09	- 8	19[57

	Attachment A: R Squared Inc. Well Development Record
	Project Name: <u>Critennii</u> Well ID: <u>INO8-33-PW1</u> Project No.: <u>Settin 33 Punply</u> Test Date Installed:
	METHOD OF DEVELOPMENT
	Swabbing 🗆 Builing 🖉 Europing 🗖 Describe
	Equipment decontaminated prior to development
	Describe Aqua Clear PFD addled. Cov = well velorae. Shut 10g 14n pring 16+ at 1116 & 3725 by, Turned larger pumpin at 1525 @305,7 and larger pumpin at 1525 @305,7
	CASING VOLUME INFORMATION
	Clasing (J) (mcn) 10 15 20 22 50 40 43 50 61 70 K0 Sing (J) (mcn) 10 15 20 22 50 40 43 50 61 70 K0 Sing (J) (mcn) 0.04 0.04 0.05 0.37 0.65 0.75 1.0 1.5 30 34
	PURGING INFORMATION
	Measured Well Depth (B)ft.
	Measured Water Level Depth (C)ft,
	Length of Static Water Column (D) $-\frac{148}{(C)}$ $-\frac{148}{(C)}$
	('asing Water Volume x = gal
	(A) (D) 0
	Volume of Water Added to Well During Installation =gal
	Total Purge Volume - <u>57.4</u> (gal)
	Pump Water Level Volume Time Rate (fi) (gal) pH (mS/em) Tomperature Turbidity Time Rate (fi) (gal) pH (mS/em) For C (NTU) Comments
	1055 16 40m 777 7 20 105 550 65 13.0 in loss-
	1112 Carin 3725 3.5 9,99 517165 12.0 trai-
7	1533 159pm 386,5 4,0 10,67,001,6 64.5 31.3 - clear
	1848 15:00 312.5 4.5 9.47 5347 64.65 51.5 ~ Fizzyulik
	1600/169p. 400.0 5.0 9.82 545,4 64.81 20.7 ~Fizzyuhite
	1614 16 spin 403,9 5,5 9,63 549.8 64.82 15.9 4:22 yuluk
	Samplers Signature: Date: 8/9/01

, Anni P Jim .

	Attachment A: Well Develog	R Squared 1 oment Record	inc. J Sheet	3 of	3
Project Name Certennial		Project N	Section 3	3 Punjah	a Tost
Well ID: @# IN/08-33	- PW1	Date Ins	alled:		<u></u>
Casing Diameter: 6 **					
METHOD OF DEVELOPMENT					
Swabbing 🛛 Bailing	B-Pumping C	Describe			
Equipment decontaminated prior to d	evelopment K	Yes 🗆 No			
Describe August (17) 4/4 1728 with 420,8	teet draw	ill vitum	en 1137.	n punç	that at at
CASING VOLUME INFORMATI	<u>on</u>				
Casing ID (inch) 1.0	15 20 22	30 40	43 50	60 70	XO
Unit Casing Volume (A) (gal/ft) 0.04	009 016 02	0.37 0.65	075 10	1.5 2,0	20
PURGING INFORMATION Measured Well Depth (B) Measured Water Level Depth (C) Length of Static Water Column (D) Casing Water Volume	(B) (C) (D)	f. f. f. gn]			
Volume of Water Added to Well Dur Total Purge Volume - 372	ring Installation = (gal)	gal		<u>↓ ♥</u>	
Water l evel Water l evel Pump Depth R Time Rate (ft)	conoved (cal) pH	Cond Temp Is Siem)	erature Turbidi	y Commer	us
1625 17gp= 405.3 6	0 9.48	565 64	65 10,7	Fier	1
1651 18gran 409. 6	9,55	5 75,2 69	68 11.8	~CRar	
1697 Tapin 4142	$\frac{7}{2} \leq \frac{1}{2} = \frac{1}{2}$	TO,6 67	20 10,0	cheqi	
1670 1401 110, 7	r_{1} j_{1} j_{2}	200,0 GT	27 10,0	- Clear	
1710 1710 son Tall U C	5 915	120 1	1 2 1 7	100	<u></u>
TFILS 1930m 4.20.5 Samplers Signature:	1.0 9,16	611.8 64	. 75 6.2 Date:	8/19/01	

Project Name:	<i>ienter</i>	Jal			1990-1997 - 1. 1. <u>1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1</u>	P	roject N	o.: <u>Se</u>	SHEE	33	of _	Jug 7
Well ID:	1-33-	· M/	<u> </u>			D	ate Inst	alled:				
Tasing Diameter:_	6"											
<u>METHOD OF DI</u>	EVELOP	MENT	<u> </u>									
1 Swabbing	🗖 Ballin	ıg	🗖 Pu	mping		Descrit)e			·		
Equipment deconta	aminated p	orior to	develop	ment	٦U	ies D] No					
Ague L	bar	PF	*Þ	adde	zd.	wv	3	we	<u> </u> v	0/04	ne.	
ASING VOLUN	1E INFO	RMA'	<u>rion</u>									
naina 113 (meb)		10	1.5	24)	22	30	40	43	50	60	70	80
asing its (men)	1	0.414	0.00			1 1 2 2 2		1	1			
Init Casing Volume (A PURGING INFO Acasured Well De Acasured Water L sength of Static W) (gal/ft) RMATIO pth (B) evel Deptf ater Columnation	0.04 <u>N</u> N N N N N N N N	9.00 9.476 2.476 2.45	9.16 4- 4 5 cra 5 - 25	02 (H. 3 En; 5	3 501 ñ. 106 ñ.	965	675	1.0		20	26
Init Casing Volume (A PURGING INFO Acasured Well De Acasured Water L Acasing Water Volume (asing Water Volume folume of Water / fotal Purge Volum	n) (gal/ft) RMATIO pth (B) evel Depth ater Column inter <u>1</u> , <u>4</u> (A Added to V	0.04 <u>N</u> (C)_ nn (D) 5 () Well D 8 2 5	9 (D) 9 (C) 9	0.16 L- 4 5Cre 5 - 215 (C 16 	02 (74. 5 (74. 5) (74.	0.37 3 501 1 1 1 1 1 1 1 1 1 1 1 1 1	0.65	() 75			20	26
Init Casing Volume (A PURGING INFO Acasured Well De Acasured Water L Acasured Water L Acasured Water L Acasured Water Volume asing Water Volume Yolume of Water 4 Yolume of Water 4	RMATIO pth (B) evel Depth ater Columniater Columnia	0.04 <u>N</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u> <u>S</u>	9 009 9 <0/1 9 <0/1 9 <0/1 9 <0/1 9 <0/1 (B) (B) (B) (B) (C) (D) uring Ins (gal) Volume Removed (JAU)	0.16 4 5 - 25 (C 5 (C 5 5 (C 5 5 (C 5 5 (C 5 (C 5 (C) (C) 5 (C) (C) 5 (C) (C) (C) (C) (C) (C) (C) (C) (C) (C)	02 (74. 5 5 _ 4 324	0.37 3 501 ft. 1 1 1 1 1 1 1 1 1 1 1 1 1	Temp		Turbidit		Comune	26
Init Casing Volume (A PURGING INFO Acasured Well De Acasured Water L Acasured Water L Acasured Water L Acasured Water Volume asing Water Volume folume of Water / Yolume of Water / Yolume of Water / Time Pump Rate	i) (gal/ft) RMATIO pth (B) evel Depth evel Depth ater Colum fater Colum (A dded to V even Water Leven Depth (ft)	0 04 <u>N</u> (C)_ nn (D) 5 .) Well D 5 .)	0 109 3 <0/1 476 283 501 (B) (B) (D) wring Ins (gal) Volume Removed (Gal)	0.16 L- 4 scre 5 (C 16 (C 16 (C 16 (C 16 (C 16 (C 16 (C) 1	02 (74. 5 5 -1) 324 104	0.37 3 501 ft. 4 gal 0 gal (Cond (\$5'cm) (\$703)	Terrance	(175	1.0		Comme	2 b
Init Casing Volume (A Init Casing Volume (A PURGING INFO Acasured Well De Acasured Well De Acasured Water L Acasing Water Water L Issing Water Volume 'olume of Water A 'olume of Water A Time Pump Rate 1/5 1/5	RMATIO pth (B) evel Depth ater Column inter (A Added to V inter Water Lev Depth - (fl) 2.85 3.15	0 04 <u>N</u> (C) nn (D) S Well D S Vel	0 109 9 - co/ - 476 - 295 - 501 (B) - x (D) - y - (gal) - Volume Removed - (gal) - Volume Removed - (gal) - (gal)	0.16 L- 4 scre - 25 (C 16 (C 16 (C 16 (C 16 (C 16 (C 16 (C 16 (C 16 (C 16 (C 16 (C 16) (C) (C) (C) (C) (C) (C) (C) (C	02 (74. 5 5 _1 324 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0	0.37 3 501 ft. 4 1 1 1 1 1 1 1 1 1 1 1 1 1	теля Го 60	(175 11.0)	1.0 Turbidit (FM)1 382. 17.5		Comme	26 nis
Aving ID (men) Init Casing Volume (A URGING INFO Acasured Well De Acasured Water L ength of Static W 'asing Water Volume 'asing Water Volume 'alume of Water Z 'olume of Water Z 'otal Purge Volume Time Pump Rate 850 1/5 1/5 1/5 1/5	$\frac{(gul/ft)}{(gul/ft)}$ RMATIO pth (B) evel Depth ater Columnation (A Added to V (A Added to V (A Added to V (A (A (A (A (A (A (A (A (A (A	0 04 <u>N</u> (C)_ nn (D) S Well D S Vel	0 109 3 - co/ 3 - co/ 4 - 7 (2 - 8 - co/ 5 - co/ (B) - x - co/ (B) - x - co/ (B) - x - co/ (D) - x - co/ - (D) - x - co/ - x - co/	0.16 - 4 scre - 25 (C - (C - (C - (C) - (C)	02 74.5 5 324 324 104 855	0.37 3.01 ft. 4. gal 0. gal (Cond 45/cm) 7.03 7.662 1.3724	тени (Г) (С) (С) (С)	11.0 11.0 11.0 11.0 1.0 1.0	Turtidii (FM 1) 382. 17.5 250,		Comme	2 b
WRGING INFO Nit Casing Volume (A URGING INFO Icasured Well De Icasured Water L ength of Static W asing Water Volume Colume of Water A Time Pump Rate 850 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5	$\frac{(gul/ft)}{(gul/ft)}$ RMATIO pth (B) evel Depth (ater Columnation of the columnatio	0 04 <u>N</u> (C) nn (D) S Well D S Vel Vel	0.09 y - co/ - 476 - 243 - 501 (B) - (B) - (D) - (gal) - (gal) - Volunie Removed - (gal) - Volunie Removed - (gal) - (ga	0.16 (102 171. 5 5 -1 3,2 1 106 106 106 106 106 106 106	0.37 3 501 ft. 4 6 1 1 1 1 1 1 1 1 1 1 1 1 1		11.0 11.0 rature rC 	Turnidia (10) Turnidia (10) 382. 17.5 2.50, 55%		Comme Lurky Aurky	nts
Asing 10 (nch) Init Casing Volume (A PURGING INFO Acasured Well De Acasured Well De Acasured Well De Acasured Water L ength of Static W 'asing Water Volume 'asing Water Volume 'all Purge Volume Time Pump Rate 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5 1/5	$\frac{(gul/ft)}{(gul/ft)}$ RMATIO pth (B) evel Depth ater Columnate (A Added to V (A Added to V (A Added to V (A (A (A (A (A (A (A (A (A (A	0 04 N (C) nn (D) Vell D Vell D Vel	0 100 9 - co/ - 476 - 295 - 501 (B) - x (D) - (gal) Volume Removed - (gal) - (gal)	0.16 - 4 scre - 25 (() - () - (02 74.55 5 324 106 855 17 450	0.37 3.01 ft. 4. gal 4. gal 0. gal 4. Som 5. 703 5. 703	1 (F) (F) (G) (G) (G) (G) (G) (G) (G) (G) (G) (G	11.0 11.0 11.0 11.0 11.0 1.0 1.0 1.0 1.0	Turțidii (M) 382. 17.5 250. 434.		Comme Lurky Lorky	2 b

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	Attachment A: R Squared Inc Well Development Record	e. Sheet	of 3	
Project Name: <u>Centenn</u> Well ID: <u>INO 8-33-</u> Casing Diameter: <u>6</u>	Project No. <u>MM 1</u> Date Install	: <u>Section 73</u>	pomping ;	fe st
METHOD OF DEVELOPMENT	Pumping Describe	n (1) de la ferrar a	and the standard from the second state of the state of the second state of the second state of the second state	١
Equipment decontaminated prior to o Describe Areas Clear PFT	development \Box Yes \Box No Δ added. $\omega \omega = \omega$	Ich volume		
		•		

CASING VOLUME INFORMATION

Casing ID (inch)	10	15	211	22	30	411	43	4 ij	60	711	80
Unit Casing Volume (A) (gal/ft)	0.04	0.09	916	02	037	0.65	075	1.0	15	20	26

PURGING INFORMATION

Measured Well Depth (B)			ິ ຄ.
Measured Water Level Depth (C)			ft.
Length of Static Water Column (D)		-	-2/6 A.
	(B)	(C)	
Casing Water Volume	X	· ·	32 9 gal
(A)	(D)		
Volume of Water Added to Well Di	aring Ins	stallation =	gal





	Pump	Water I evel Depth	Volume Removed		Cond	Temperature	Turbidity	
Time	Rate	(fi)	المي المعنين ا	pH	(bS/cm)	Oor C	"ZNU	Comments
110	ha	290	2,5	10.07	365,9	62,78	366.1	MURKY
1232	Jan.	285	3.0	9,62	388.0		195.4	- Murky
1300	6.3	289	8.5	9.48	4253	63	81.6	~ melotky
1401	114	292	4.0	1.31	438,9	62.19	78.4	-murky'
K 0	ોત	295	4,5	9.01	476.0	63.2	722	~ clear
1507	na	286	4.75	8.14	416.1	63.62	10.3	~dear
Samplers	s Signatur	e:					Date:	5/09

SOP No. 66,0

		,		Atta V	ichmen Vell Dev	t A: /eloj	R Squ pment F	ared I Record	nc. I	SHEET	3	of	3	
	Project Nam Well ID: Z Casing Dian	10: Cente No 8-3 Incter: 6	nnlq 3-1	MM	L		Pi	r oject N ate Inst	lo.: Se alled:	et los	3	370	mph	y Test
	METHOD	OF DEVELO	MEN	<u>r</u>										
	Swabbing Swabbing	g 🛛 🛛 Bail	ing	🗖 Pi	imping	[Describ	×						
-	Equipment of Constitution	lecontaminated	prior t	o develoj	pment	QU.	Yes 🗆] No						
	Describe ALJE	Clear ;	PF	D as	lded	•	wu	2	We	ll vo	lun	re.		
	No San	belletu	Tala	a. Pr	oblem	٤	4ett	Inc	Yie (d fes	+-	recl	hane	5
	CASING V	ast. Olume info)RMA	() TION			•	e	-				J	-
	Casing ID (inc)	1)	10	15	20	27	30	44	43	50	60	70	80	1
	Unit Casing Vo	olume (A) (gal/ït)	0.04	0499	016	02	0.37	0.65	075	10	15	20	26	
	PURGING	INFORMATI	ON											-
	Measured W	ell Depth (B)					0.			-] -	1		-	
	Measured W	ater Level Dep	(h (C)_			en en alton anar - na	fi.				ç	•		
	Length of St	atle Water Coli	ımn (D)			216 A.							
	Casing Wate	er Volume		(B)	(C) ۲	32	Y gal		11,0			A 		
	Mahama (FA) 	A) 	(D)			,				>			
	Total Purse	Volume - 3	24	uung n	ананол 1	÷	gai		L					
	rotari urge	venunce	-+-		1									
		Water L	cvel	Volum		Τ	<i></i>	113		T. L. Alter	Τ			
	Time 1	Rate (fl)	"	Kemove (W)	и рН		(US/cm)	Ð	r C			Comme	nts	
lun	1520 1	11 28	1	4.8 5	8.8	Ī,	505.2	62	61	58.7	~	clea	22	
Baller	1607 ,	28	1	4.9	8.7	<u>'</u>	517:7	557	A	47.7	-	cea	<u> </u>	
to bottom	1615	111 28'	5	4.9:	5 8.7	3	5/8,2	62.	97	45,0	1-	de	5	
Stimes	1625 1	<u>a</u> 985	2	5.	8.1	1	573.9	62	. 60	33.1	-	Cler	ir	
	Samplers Sig	gnature:	D_{7}							Date: 8	15	19		
	•									``````````````````````````````````````		T		
-	0/05/00				D		7		·	*		n c		
	8/02/08		Cor	nnlete	rage) ness le	010 10	/ e.ltem:	#7 Δt	tachn	nent		k Squ	iared li	пС.

				Atta W	chmer ell De	nt A: velop	R Squ ment F	ared I Record	nc. I		,		1	
Project N Well ID Casing I METHO	Name: :N Diameter: DD OF DI	ente 09- 6	33- MENT	 - MA	13		Pi	ro ject N al e Inst	io.: _}	sheet	33	_or איל ק	ding	test
Swat	obing	🗆 Bail	ing	0 Pu	nping	E M) Descrit)e			560- 7		Manual Addres (1 . 1. 1. 1	
Equipma Describe	G VOLUN	- PF] AE INFO	prior to	led .	WV :	9 . 5 W	es L el V	1 No 10 Um	<u>ı</u>	996, p. 444				
Casing ID	(meh)		10	15	20	22	30	44)	41	50	40	70	8 1)	1
finit Casir	vg Volume (A	() (gel/l'))	0.04	0.09	1116	<u> </u>	037	0.65	075	10	15	20	26	1
PURGI Measure Measure Length o Casing V Volume Total Pu	NG INFO ed Well De ed Water L of Static W Water Volu of Water J orge Volum	RMATE pth (B) <u>(</u> evel Dep fater Colu ime <u>/ 7</u> (Added to ie	0N (C)_ umn (D 7 A) Well D 265;	- 016 - 451, - 30 - 477 (B) - x _ 1. (D) Ouring Ins - (gal)	5 5 - 5 5 - 5 5 - tallation	3¶9 (144.) 26	- try 497 11 127 11 5.5 gal 0 yal	to p u	s1 do 	wh to		34.		,
Time	Pump Rate	Water J Dept (ft)	.evel h	Volume Removed	M bi	н (("ond nSi/em)	Term	crature r C	Turbidity	,	Commer	ns	
B40	Ain	300	0	10 54	1 10	,39	1906	60.	84	96.1	Gn	cy Mu	rky	
	air	1711		ルぐ	1/0	39	1777	171.1	11	759	1~	Llea	r /	1

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3.0 Date:_

R Squared Inc.

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(**136** Samplers Signature:

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			Attac We	bment A ell Devel	A: R Squ Iopment I	ared Inc. Record		ר ר		
	Project Name: Well ID:	(entenn Noz-3:	14/ 3- MM3	5	Р Г	roject No.: Date Installed:	sheet Hn	of de	y test	
	METHOD OF D	EVELOPMI	ENT	******						
	Swabbing	Bailing	 K Pun	nping	Descri	be				
	Equipment decon	taminated pric	or to develop	nent 🚺	Syes [] No	2			
	Describe	echarge	overnlyh	<u>t +i11</u>	1400	S DOT	Stoppe	i gola	t dize	
	(630 en Dump. Casing volu	BIRORA	ALION	let c	echarg	more	e. Will	Can fin de	5 7.FUSE	
	Casing ID (mch)	1	0 15	20 2	2 30	40 43	50	60 7(1 1	5 ()	
	Unit Casing Volume (A)(gal/ft) 0	000 KG	016 B	2 0 37	0.65 0.75	10	1.5 2.0	2.6	
	PURGING INFO Measured Well D Measured Water I Length of Static V Casing Water Vol	DRMATION Cepth (B) Level Depth (Water Column lume	(`) (D) (B)x		n - <u>321</u> f /13,5a					
	Volume of Water Total Purge Volu	Added to We	I During Inst	allation =	<u> </u>					
	Pimp Time Rate	Water Level Depth (fl)	Volume Removed	jų pH	Cond (S/cm)	Temperature For C	Turbidity	Comments		
817-	1440 1 19	444	1.5	10.64	311.8	62.90	20.1	~clear		
8114	0155 n/a	314	2.0	9.11	277,2	60.51	77.(grejage	er	
1 4 = 7	0125 N/A	361	2,5	1,15	261.5	60.72	42.2	" clear		
SMIT	1976 6 80	522	25	92	2939	63.5	6.	clean		
(used	-0930 6 1917	522	3.75	- 9.56	3.29,9	5.5	11.0	cheur		
~8/K81	Samplers Signatu	re:D				<u>net stat</u>	Date:	12/09-8	[18/09	
									•,.	

			Attach Wel	ment A I Develo	: R Squ pment R	ared Inc. lecord				
	Project Name: Well ID: Casing Diameter:_	entenny 08-33 6"	<u> </u> - ММЗ)	Pr	oject No.: <u>&</u> ale Installed:_	SHEET_	(or) 33 ponpi	ing test	
	METHOD OF D	EVELOPME	NT							
	Swabbing	🗆 Bailing	Pum	oing	🛛 Describ	¢	andris a local de la companya de la			
	Equipment decont	aminated prior	r to developm	ent 🕅	Lyes C	No				
	Describe April 4	ar PFI) adde	d w) = We	11 volum	e, Ri	charge it	<u> </u>	
	slow Had	to sto W Maila	to MM	3 44 9	3/11/04	utter i	drewing	down abo	velj-collar	í
	CASING VOLU	ME INFORM	ATION	· •						
	Casing ID (inch)	10) 15 :	20 22	10	40 47	< U	6N 7N 8	40	
	Unit Casing Volume (a	A) (gal-fi) 0.0	4 (159 1	16 0.2	037	0.65 0.75	1.0	15 2,0 2	6	
	PURGING INFO	RMATION	; - collar	527.7	-					
	Measured Well De	epth (B)	m: 531	xreen:	<u>556</u> 11.					
	Measured Water I	evel Depth (C) <u> </u>	21	ft.					
	Length of Static V	ater Column ((D) 330 -	XXT (C)	- 221 A.	h~	$\sim - \dot{\tau}$			
	Casing Water Vol	ume $\frac{329}{(A)}$	<u>x</u> <u>1, 5</u>	<u> </u>	<u>3,5</u> gal	ήo				
	Volume of Water	Added to Well	Durjpg Instal	lation =	D gal					
	Total Purge Volur	ne - <u>493</u>	(gai)			L				
	ſ	Water Level	Volume							
	Pump Tima Pata	Depth	Removed		Cond	l'emperature	Turbidity	Contractor		
	1100 40011	27-2	2001			5997	FIL	Comments		
	11.39	352	0.5	11.27	9350	60.16	23.1	-c ber		
	1900 11	461	1.0	11.75	2493	62.78	174.1	gney	-	
	2050 11	501	1.33	143	839	62.63	158.5	grey,		
elizion	6939	-00-	1.5-	4.56	3077	- 67.12	Net	- Lalleer	2	
0	1045	491	3.00	6.80	3249	64.95	-2/-0-	see	<u> </u>	
	Samplers Signatur	e:)	T				Date; 8	11/07 - 8/1:	2/09	
								•	1	
				-						

Page 5 of 7 Completeness Issue Item #7 Attachment

			Attacl We	hment A: Il Develo	R Squ pment F	ared Inc. Record	SHEET		
	Project Name: Well 1D: O	Centeni 18-33	nial -MM	4	Pi	roject No.:	eiftm?	33 psychogen	fest
	Casing Diameter:	6"							
	METHOD OF DE	VELOPME	<u>NT</u>						
	Swabbing	🗖 Bailing	🗖 Pum	ping [🛛 Descrit	×			
	Equipment deconte	uninated prior	to developm	ent 🔁	Yes C] No			
	Describe	Dr	5 1		ant -			Public	• • •
	Hava Cle	ar pp	D ad	lea i	- U	well	101 um	Ci Irod el	I at
	14 17 KOL	0) <u>a 7</u> 1	011504	<u> </u>	1 , 14	12A 7-1	MACTO	post pi	inco eccomo
	CASING VOLUN	IE INFORM	<u>ATION</u>						
	Casing ID (mch)	10	1,5	24 22	30	40 43	50	60 70 80	7
	Unit Casing Volume (A	.) (gal/ft) 0.0	4 0.09	016 02	0 37	0.65 0.75	10	15 20 26	-
-	DIRCINC INFO	PMATION	Tripllo	.557	3				
	Measured Well De		563 5	creen: 5	78 0	P			
-	Measured Water L	evel Denth (C	33	9	A			Į 🖡	
	Length of Static W	ater Column (D) 588 .	339	.)49n			ľ	
	-	<u><u></u> <u></u></u>	(B)	· · · · · · ·	725	~	~ 7	z R 	
	Casing Water Volu	$\frac{\sqrt{71}}{\sqrt{4}}$	<u></u>	`	y al	н,	0		
	Volume of Water A	vo) Nddad to Well	During Inste	llation #	0				
	Total Purge Volum	e- 393	5 (eal)				≭		
	Burn	Water Level	Volume	ΤΤ	Cand	Tomportum	Turkidiu		7
	Time Rate	(fi)	ار (الحتها)	pH	(Sicin)	Cor C	ENU	Comments	
elle Eph	1430 40	339	10 gal	11,43	7811	64	206.6	graymurk	2
	1613 111	334	0,5	11.52	1415	62.44	49.7	murley	T
817	0855 My	350	1,0	11.30	637,2	60,66	20,5	~ dear	
	1120 11	326	1.5	1,76	311,5	63	132.0	~ clear	
	1400 14	594	2,10	0 72	344 7	ales	30,2	TTRY char	4
	[1995]	313		1,37	2741	6461	141.5	on cierro	
	Samplers Signature	64 • • <u></u>	<u> </u>				Date:	8 6 0 9 - 8	rjo n
									•

Page 5 of 7 Completeness Issue Item #7 Attachment

R Squared Inc.

			Attac We	hment A ell Devel	A: R Squ opment I	ared Inc. Record		`	`	
Project N Well ID; Casing D	tame:	$\frac{1}{69}$	3- MA	14	P	roject No.:	sнеет (4 3)	J Pump	agtes,	F
METHO	<u>)D OF D</u>	EVELOPM	ENT	•	6					
Line war	eng nt daaret	tsaining ininatad pri		nping ment				99999- fe	**************************************	
Describe Age	n Cle Mag	No Ye	FD add	led . [K - si	www.	litell Worklag	Volume too slo	. No s wt re	and pad	ko fy
CASING Casing ID	inch)	TE INFOR	MATION	20 2	2 30	40 4	50	60 70	80	
linit Casin	g Valume (A	() (galat) (04 0.09	016 0	2 037	0.65 07	5 1.0	15 2.0	26	
Acasure Acasure Length o Tasing V Aolume Fotal Pur	d Well De d Water L f Static W Vater Volu of Water A rge Volun	pth (B) evel Depth (/ater Column ume(A) Added to Wr ne =	(C) (B) (B) x (D) ell During Insi 3,5 (gal)	(C)	ft. ft. - 241 ft. gal gal	· · · · · · · · · · · · · · · · · · ·			_	
Time	Pump Raie	Water Leve Depth (ft)	l Volume Removed	pH	Cond (b S/cm)	Temperatur Por C	e Turbidity	Comme	nis	
518	<u>hq</u>	365	3.0	9.11	355,5	63,01	49.3	~cle	41	
530	าส	367	3.15	9.00	3529	62.81	39.4	Incker		
570	<u>4</u> 4	268	- 3	7.93	267.5	63.90	29.9	~clear	<u> </u>	
7 20	114	367	25	8.90	2693	63.28	11-1-	ECH		
(7))	*14				7-11		1 7000	land		
Samplers	Signature		· · ·				_ Date:	47/09		

			At	tachm	ent A:	: R Squ	ared I	nc.				
				Well I)ev <mark>c</mark> lo	opment R	lecord			1	7	
		- 1							SHEET_	of	d	
	(Center	nal.1	•				Se	ctim	33 D.J.	a Ju	Test
Project N	ame:	-4 70		\sim		Pr	ojeci N	0.:		// /0.	- peop	
Well ID:_	IN	08-5-	<u>5 - Mr</u>	5		D	ate Inst	alled:				
Casing Di	ameter:	<u>(</u>										
METHO	<u>d of de</u>	VELOPN	<u>IENT</u>									
Swabb	oing	🗖 Bailing	8 D	Pumpin	g l	🗖 Describ	e	a	de: 1944 5 1000 1000 1000 1000 1000 1000 1000		a baata	
Equipmen	it deconta	minated p	rior to deve	lopment		Lves D	No					
Describe		•		•	•	-						
Aco	Cke	ar P	FD	Idad	1. 1	N=	11)ell	Vo(J	me.		
		f			₩	¥	V.H				1.2000,000,000,000,000,000,000,000,000,00	
- an												
CASING	VOLUN	1E INFOR	MATION									
Casing ID (nch)	T	1.0 1.5	20	22	30	40	43	10	64 70	80	1
linit Cacino	Volume (A) (gal/ft)	0.04 0.08	0.16	0.2	6 37	0.65	075	10	15 20	26	
	1 414110 (11											i
PURGIN	G INFO	RMATIO	N j-c-	Var	439	1.1						
Measured	Well De	oth (R)	1942 4	44 50	ran	:469 a		r				
Medsined	Men De			50								
Measured	water L	evel Depui		4	300	219				Î		
Length of	Static W	ater Colun	nn (D)(N			» <u>aa t</u> n.		h~	~ -			
A *** - * * * * * * *		21		1.5	ેં 3:	15			II	Ï		
Casing w	ater volu	ime (A))		gai		на	4			
Valuma a	F Water (Adual to M	vell During	Installa	tion					_		
The LO		37	15	111314110		<u> </u>			₹	<u> </u>		
i olai Purj	ge volum			gar)								
		Water Lev	vel Volu	me								1
	Pump	Depth	Remo	ved		Cond	Temps	erature	Turbidity			
Time	Rate	(ft)	(411	WW4	рН	(US/cm)	Đa	rC	122	Comm	ents	
0850	111	ALL S	2 50		//.7	3885	50	1,22	. 9 9 ,)	Grev	thar	
0910	All	278	0,5	- 1	1.60	1468	51	143	41.7	Nlea	~	
1920		272	. 1.	0 1	1.51	1373	60	.74	133.9	Greva	·/ Kar	ł
0951		220	1.5	- 1	D.D	3515	61.	58	51.0	NEI	Lar	
1010	11	244	2.0)	1.25	3135	61	19	16.5	- 110	ar	
1026	<u>•ःक</u> ्	270	2.9		272	430.5	41	न	67.5	-cke		1
IV AT I	ب			L	<u>ru</u> zi				- // -		- 	J
Samplers	Signature	:							Date:	5/4/09		•

				A	ttach Wel	men I De	nt A: velo	: R Sqi pment	uared I Record	lnc. d	SHEET	2	of	2	
Project N	Name:	enter	nni4	4	<u>م</u>	iyas Miyashar			Project 1	No.: 50	Hm]	3	<u>tu n</u> p	ingt	-est
Well ID:	<u>N</u>	00-)	<u>, 2- 1</u> 1		15				Date Ins	talled:					
Casing L	Diameter:_			•											
METHC	<u></u> 		ALLAL		1.5										
Swab	bing	LI Baili	ng	Ľ	l Pumj	sing	L	LI Descr.	ibe						
Equipme	int deconti	aminated	prior to	deve	elopm	ent	Ľ	Yes I	LI No						
Describe	che	· · · · ·	157) L	1140	Ł	w	V =	well	1 10	1.)me		Ne	>	
Sand	Inule	- A	10-11		Y.	id .	LAC:	+ est	inch	- +		191	20)	61
7.10	peac			7-	110	14	ट्य	- C .J.					- 000	-H	
CASING	<u>: volu</u>	ME INFO	RMA	rion	1										
Casing ID	(inch)		1.0	1	5	20	2.2	30	40	43	50	n I)	70	80	1
Unit Casin,	g Volume (A	(gal/ft)	0.04	0.0	N U	16	02	037	0.65	0.75	1.0	15	2.0	2.6	1
				.					4						
PURGI	NG INFO	RMATIC	<u>NO</u>											_	
Measure	d Well Do	epth (B)							1.		7 -	1		•	
Measure	d Water L	evel Dep	1h (C)_					1	t.			ć			
Length o	of Static W	ater Colu	ımn (D') /B		10	<u> </u>	- 219	ł.	-	~ -	+	3		
Casino V	Vater Voli	1112		ري بر			,	0	a ł			Γi			
Claining V		(i	A)	· " _ (D)						' 	D			
Volume	of Water	Added to	Well D	uring	g Insta	Ilatio	n =	(D)g	al				7		
Total Pu	rge Volun	ne - <u>Ji</u>	71.2	<u></u>	(gal)					L					
		Water 1	evel	Vol	ume			0.1]
Time	Rate	(ft)	n	rtem (J)	avea Mile III	pl		(US/cm)		br C	CS 1115	1	Comme	nts	
1041	110	225	2 -	3,0	$\overline{\boldsymbol{\Sigma}}$	٩.	उर्ा	<u>4</u> 74.1	61.	97	176	17	6.1	•	1
1056	175	292		3,5	5	8	n	505.9	1/1	15	11.2		lear	*	1
1118	154	175		Ý .	0	7	14	536	7 61	12	6.9	6	lear		1
135	44	281		4,6	5	7.	13	551.4	61	90	7.1		clea	~	1
1141	म ल्	281		4,	8	7.	19	557.9	61	75	4,6		clegi]
ı					I]
Cumalan	Ciopolis]	55								Datas	8/8	5109		-
Samplets	- កាន់ពេលព	u									17816:	-/-			-

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		Attachmen Well Dev	t A: R S velopmen	quared Inc it Record	2. 	1 2	-
Project Name: Well ID:	Centernie	1 IN08-3	3-M0	Project No. Date Install	sheet 	Fump/hg	
METHOD OF D	EVELOPMEN	I D Pumping	Des	cribe			
Equipment decont Describe	taminated prior t	o development	Ja Yes	□ No			
	•		·				

CASING VOLUME INFORMATION

Casing ID (inch)	10	15	211	2.2	10	40	43	50	60	70	8 U
I mit Casing Volume (A) (gal/ft)	0.04	0.09	Ú 16	02	0.37	0.65	0.75	10	15	20	26

PURGING INFORMATION 365

Measured Well Depth (B)	_ñ.
Measured Water Level Depth (C) 192"	_ Ħ.
Length of Static Water Column (D) 365 - 192 - 12	îĥ.
Casing Water Volume 1, 5 x 365 - 259.5	gal
(A) (D)	
Volume of Water Added to Well During Installation	gal
lotal Purge Volume (gal)	



Time	Pump Rate	Water Level Depth (A)	Volume Removed	plŧ	Cond (mS/cm)	Temperature Dor C	Turbidity	Comments
Ilizo A	11/4	210	1 well 161	11.09	443.Z	60.	21.0	clear
11:29 A	مربع مراجع	290		9.25	561,4	57.47	32.9	clear
12:04	nk	215		8.91	\$\$7.2	60.6	20.8	clear
12:29	Ma	292		8.10	569.5	45-14	40.4	slightmurd
1246	ヵ月	274	2 well vo	8.74	592,2	59.5	45.3	slight mur
1524	11.00	275		1.52	665	êrces	2060	murky
Sampler	s Signatur	e:	Dart	T fh	8		Date:	7/31/01

, /

Project Name:	Center Section	Attack Wei Alt / 33	iment A Il Develo PJMP,	: R Squ opment F	ared Inc. Record	sheet Centre	2 or 2 Innial 533	Punying
Well ID:	6	<u>mo 1</u>	. <u>.</u>	D	ate installed:_			ics j=
METHOD OF DI	VELOPMEN	<u>vt</u>						
Swabbing	Bailing	🗖 Pum	ping	Descrit)e		an a	
Equipment decont	uninated prior	to developm	ent 🛱	hies E] No			
Describe	Clean	- P	FD	U	sed.	WX	' = well v	olome
No	Sand	pac	, L	ret	Vring.	Annon	ecto viela	d
15 5 CASING VOLUN	HPM -	ATION	15 m	In re	charge	fro.	m 307	
Casing ID (mchi	14	1.6	20 22	2 30	40 43	\$0 0	60 70 80	
Unit Casing Volume (A	.) (gal/(t) 0.0-	4 0.09 0	116 0;	2 37	0.65 0.75	10	15 20 26	
PURGING INFO Measured Well De Measured Water L Length of Static W Casing Water Volu Volume of Water 7 Total Purge Volum	RMATION pth (B) evel Depth (C ater Column (ume (A) Added to Well te =) (B) X (D) During Insta (gal)	(C) 2 Nation -	ft ft ft gal				
Pump l'ime Rate	Depth (ft)	Removed	pH	Cond (S/cm)	Tenenerature (For C	Tarbidity (NFU)	Comments	
1630 MM	301	4.5WV	8.3	720	59.8	780	morky	
1653 MA	307	4,79	19.3	722	59.76	200	clearing	
1703 ny	305	2	1.5	723	60.0	200	clearing	
1710 114	<u> </u>	3.5	1.5	TIT	60	700	Clearing	
Samplers Signature		TER	V		4	Dale: 7	31/09	

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					Attac We	hmen 11 Dev	it A: velop	R Squ oment I	ared l Record	inc. I		1		1		
	Project ? Well ID Casing I	Name:	Enter TNO 9	111)4 6 -3	/	107	<u> </u>	P	roject N ale Inst	lo.: alled:	sheet.	33	or_ Pur	- mps hg	Test	
	METH	OD OF DI	EVELOP	MENT	[
	K Swat	obing	🗖 Baili	ing	🗖 Pun	iping	C	Descrit)¢							
	Equipme	ent decont	aminated	prior to	o developn	nent	دَه.	, Čes [] No							
	Describe	e Cle	ar P	FD	adde	d.	ivi	i = u	кll	volu.	me,	ku	lit at	Ba	hours f	•
	1.5	WY T	t wi	+ 11	- new	<u>su</u>	146	inps	<u>. </u>	062	to M	1002	11. 1	الايمنا	Ine Used	
	CASING	f cf 8 GVOLUN	/2/9 16 info	<u> </u>	& Scc' <u>FION</u>	, 20	170	c-1 &	140	5 7	Diwsi	i al	45;	Pun	np strwl	sae,
	Caving ID	(inch)		10	15	20	22	30	40	43	50	50	70	8 ()		1
	Linn Cusin	ng Volume (A	v) (gal/(1)	0.04	0(19)	016	02	0 37	0.65	0.75	10	15	20	26		
	PURGI Measure Length c Casing V Volume Total Pu	NG INFO ed Well De ed Water L of Static W Water Volu of Water / rge Volun	$\frac{\mathbf{RMATIC}}{\mathbf{PRMATIC}}$ $\frac{\mathbf{RMATIC}}{\mathbf{PRMATIC}}$ $\frac{\mathbf{RMATIC}}{\mathbf{PRMATIC}}$ $\frac{\mathbf{RMATIC}}{\mathbf{RMATIC}}$ $\frac{\mathbf{RMATIC}}{\mathbf{RMATIC}}$ $\frac{\mathbf{RMATIC}}{\mathbf{RMATIC}}$	2N A 3 ing th (C)_ imm (D) 5 (7. 3 Well D (7. 3	$\frac{1 - c_{e}}{2} \frac{1}{325} \frac{325}{175} \frac{175}{340} \frac{340}{(B)} \frac{x}{x} \frac{1.5}{(D)}$ wring lnsta (gal)	r' 3 <u>~17</u> (C)	24 24	8 <u>3 - (7</u> ft. <u>//2 5</u> ft. 7 <u>7 5</u> col 2gal		н,о						
	Time	Pump Kate	Water L Depti (fl)	evel)	Volume Removed	pH		Cond (S/cm)	Temps	erature r C	Turbidity		Conumer	nts		
	0930	nla	[75		15 991	11.4	13	3686	63	59	27.5	~	lex-			
	1050	nlu	201		1.0	11.	80	161	51,	28	<u>39,6</u> 705 0	Inci	1 ky (Kar		
5/20/09	1724	nla	217		$\frac{10}{LS}$	$\frac{1}{1}$	2	4767	<u>ic c</u>		1951	mu	I T			
STATER	1725	Sam	267.	3+	20	10.	íd f	462.2	60	.62	54.3	1 <u>/4</u> 0 .~~C	rry lear			
pump	1745	Hann	297	15	3.5	9.1	23	5 38,3	62.	64	6.5	2	Car			
-	1820 Samplers	Signature	247.5	1.91	3.0	814	5 (103516	62	.69	4.5 S	\$/26	िष			

			Attach Wel	ment A I Devel	A: R Squ opment I	ared II Record	oc.	снрет	(مر 0	2	
Project N Well ID: Casing D	lame: Zy/c Diameter:	<u>estenal</u> 18-33-	M03		P	roj ect No Jat e Insta	o.:_ _\$ illed:	eftr	.33		why -	fe
METHO	D OF DI	EVELOPMEN	<u>ar</u>									
2 Swab	bing	Bailing	🗖 Pump	oing	D Descrit	ж	-					
Equipme Describe	nt deconta	aminated prior	to developme	mt p ^R), wi	<u>1⊻es</u> [1 <i>⇒ ω</i> (10/01	ne				
CASING	7 VOLUN	<u>1E INFORM</u>	ATION									
Casing ID	(mch)	10	15 2	0 23	30	40	43	50	60	7.0	80	
Unit Casin	g Volume (A	.) (gal/ft) 0.04	9 0 00 p	16 01	2 0.32	065	(175	10	15	2.0	26	
Length o Casing V Volume o Total Pur	f Static W Vater Volu of Water A rge Volum	tater Column (i) $Ime \frac{151}{(A)}$ Added to Well Ime = 235,	$\begin{array}{c} \begin{array}{c} \begin{array}{c} \begin{array}{c} 265 \\ (B) \\ x \\ \hline \end{array} \\ \begin{array}{c} 1.5 \\ (D) \end{array} \end{array}$ During Instal $\begin{array}{c} \begin{array}{c} \end{array} \\ \begin{array}{c} \begin{array}{c} \end{array} \\ \begin{array}{c} \end{array} \end{array} $	106 (C) 2	- <u>/5</u> ¶ft 38,5 _{gal} D _{gal}	 	U,0					
Time	Pinup Rate	Water Level Depth (fi)	Volume Removed	pH	Cond (65/cm)	Temper	rature · ('	Turbidity		oninici	115	
0130	nli	106	2094/	11.42	4553	64.	6	24.7	-	- ka		
1055	114	<u>A5</u>	15	1.74	2600	604	51	H 62.0	91	ay e	lean	
1109	dia_	176	5.0	11.67	1616	57.	67	63.2	<u> </u>	rey	der	
130	-sta-	170	<u>d</u> 15		942,5	63	41	63.41	<u> ~ </u>	rey	clear	
1330	gla_	177	3.0	10,51	7522	65		317.5	M	with the second		-
Samplers	Signature		>,)		<u> </u>	60		142.5 Date:	5/13	01		

8/05/08

ict s

		Attacl We	hment A II Develo	.: R Squ opment F	ared Inc. Record		~	
Project Name: Well ID: Casing Diameter:	ntCnnla/ 8 - 33 6 -	- 403	5	Pi D	roject No.	SHEET	or مرم 33	Ingly fe
METHOD OF DE	VELOPMEA	∐ ∏Pum	nino	Describ	1 14			
Equipment decontar	ninated prior	to developm	ent 🗆	Yes [~] No			
Describe Anna [lear Estimate	PPD - From	140'	= 30	= we//	wharge o	e) 181 10	lleld ,	test .s.
CASING VOLUM	E INFORMA	ATION	20 23	30	40 43	50	60 70	80
Unit Casing Volume (A)	(gal4it) 0.04	0.00	016 02	0.37	0.65 0.75	10	15 20	26
Length of Static Wa Casing Water Volun Volume of Water Ad Total Purge Volume	ter Column (1 ne	$D_{(B)} = \frac{x}{(D)}$ $During Instance (gal)$	(C) 	0 gal	",			
Pump	Water Level Depth	Volume Removed		Cond	lemperature	Turbidity		
	<u>Ca</u>	10	/0 //	212	517	PAR	Comm	china d
14~5	180	4.5	10.11	740.9	591.4	427	Grey	(les
R 1500 min	179	5.0	10.09	723.3	58.56	51.2	Grev	Jean
1/30 11	61	5.5	9.98	713.2	51.51	49.0	Greve	lear
1640 mg	180	6.0	9.78	737.7	57.91	42.3	Grey o	lear
704	190	6.5	1.74	751.7	58.35	35,1	Gray C	era
1735 Samplers Signature:	174 21	7.0	9.66	751.6	51.19	5 0,3 Date: 0	Boy	
8/05/08		Р	age 5 of	7			R So	uared Inc.

Page 5 of 7 Completeness Issue Item #7 Attachment

			At	tachmei Well De	nt A: evelop	R Squa oment R	ecord	()4 14 1 1 - 11	1	2
Project N Well ID: Casing D	lame: Diameter:	<u>enten</u> 2-33- 6° si	la (- MUJ DR 17	PVC		Pr Da	ojeci No.: S ue installed:	ection_	33 PUN	phy Tes
METHC M Sugh	<u>DD OF DE</u> bina	C Rolling		Dumping	r] Describ	(a			
Equinme	ong nt deconta	minated pric	or to devel	looment		Yes 🛛	No			Bandada ya ku ku
Describe	va Cle	ar Pl	=D	adde	<u>d</u>	W	l= u	nell u	olum	
CASING	; VOLUM	<u>IE INFORM</u>	<u>1ATION</u>							
Casing ID	(inch)	1	0 15	20	22	3.6)	40 43	50	60 70	8 (r
Una Casin	g Volune (A) (gal/ft) 0	64 6.05	116	02	0.37	465 075	10	15 20	26
PURGII Measure Measure Length c Casing V Volume Total Pu	NG INFO d Well De d Water I. of Static W Water Volu of Water 4 rge Volum	$\frac{\text{RMATION}}{\text{pth}(B)} \\ \text{evel Depth}(ater Columnater Column\frac{1.5}{(A)} \\ \text{Added to We} \\ \text{he} = \underline{461}$	J- 4 (C) 29 (D) 59 (B) (B) (B) (B) (C) (B) (C) (B) (C) (B) (C) (C) (C) (C) (C) (C) (C) (C	011 17.5 c 10 25 - 2 ((67.5 -)) Installatic gal)	56 -5145 10 10	1.25 gul 0 gul		~ °		
Time	Pump Rate	Water Leve Depth (ft)	l Volu Remo	ime ovod		(Cond (Sicm)	Temporature (For C	Turbidity (NTTI) FNU	Com	nents
1013	14	260	13		.61	2360	61	113	~ 40	9~
1460	i yila	370		10	3	0-0	62	10	- 41	· av-
1424		403	11.5	9	10	333	63	35.9	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	lear

Samplers Signature:

r. .

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63.5

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57.2

Date:

8/3

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</00

clear

Attachment A: R S Well Developmen	quared Inc. it Record
Project Names Centennial	Brainer No. Section 33 Pure in TEST
Well ID: INO8-33-MUL	Date installed:
Casing Diameter:	
METHOD OF DEVELOPMENT	
Swabbing 🛛 Bailing 🗖 Pumping 🗖 Des	crihe
Equipment decontaminated prior to development	
Describe As Clear PFD, dded. Approx Chemany 13 4.1pm 485 Feet. CASING VOLUME INFORMATION	WU = well volume. After 15 min recharge from
Casing ID (inch) 10 15 20 22 31	40 43 50 60 70 80
Unit Casing Volume (A) (gal/ft) 0.04 0.09 0.16 0.2 0.3	7 065 075 10 15 20 26
PURGING INFORMATION Measured Well Depth (B) Measured Water Level Depth (C) Length of Static Water Column (D) (B) (C) (B) (C) (C) 307-5 (A) (D) Volume of Water Added to Well During Installation – Fotal Purge Volume –	ft. ft. gal gal uo
Water Level Volume Pump Depth Removed Cond Time Rate (fi) Image: Cond Cond	a) Dor C Der Comments
1735 14 490 3 9.91 420	(42.0(25 27.3 ~ ckar
1740 14 485 3.1 1:81 427	63.5 35.8 -clear
1750 11 488 3.2 8.9/ 436	63.5 25.0 ~ clear
1759 n/a 499 3.3 9.92 443	5 63.41 21.0 - clear
1808 Ma 494 3,4 8,87 451.	6 63.48 17.9 ~ clear
13121 14 1985 3.5 3.73 463.	5 65.6+ 11.5 -ckar
Samplers Signature:	Date: 8/3/0 9

				Atta W	chment A ell Devel	.: R Squa opment R	ared Inc. lecord		,	2
Project N Well ID:		inten 8-3	m iq 3-	 	u1	Pr D	oject No.: ate Installed:	SHEET Section	of	- Bing To
Casing D)immeter:	6"								
<u>METHC</u>	<u>)D OF DE</u>	VELOP	MENT	•						
🕅 Swab	bing	🗖 Bailir	ng	🗖 Pu	mping	Describ	e			
Equipme	int deconta	minated p	orior lo	develop	ment C	Yes D] No			
Describe	a Clear	· PF	D	used	. WV	' = v	vell u	10 (Un	C	
CASIN	<u>G VOLUN</u>	IE INFO	RMA'		10 1 3	a b a			60 70	1 80
Casing ID	(inch)	N. (10	6.00	2 0 2 A A A	2 30	0.65 0.7	c 10	15 20	26
Length Casing V	of Static W Water Volu of Water 4	ater Colut ime $\frac{37}{4}$	mn (D A) Well D	$\frac{(B)}{(D)}$	$\frac{263}{(C')}$	<u>-5 FU</u> fi 155 ga <u>O</u> ga				
Total Pi	irge Volun	Water L	evel	(gal		Cond	Temperatur	e Turbidit	v	1
Time	Pump Rate	Deptl (ft)	n	(gal)	JU pli	(65/cm)	FAC	41177	Com	nents
Time	Pump Rate	Deptl (ft)	b	(gul) (UV pIT	(1957-41)	61.45	#20	Comm Murk	nents
Time 1000	Pump Rate	Depti (fi) 263 421	n 	(get) ((get) (15 get 0,5	U pit 1 /1,8 1 /1,72	(b);/cm) 5741 1966	61,45	# 10 8 2 - 56 2	Murk - cle	nents
Time 1000 (052	Pump Rate	Deptl (ii) 263 421 519	h	15 34 0,5	U plī 1 //, 8 //, 72 //, 55	(b)/cm) 5741 1966 2071	61,45 61,45 61,45	8 - 56, 2 - 60, 3	Comm Murk 	
Time 1000 (052 1/37	Pump Rate	Depti (ii) 263 421 519 535		(ant) ((ant) (0,5 1,0 1,1	1 /1,8 /1.72 /1.72 /1.55	(b)s/cm) 5741 1966 2071 319	61,45 61,45 6600 67,0	# 562 - 562 - 60.3 - 74.5	Comunication	
Time 1000 (052 1/37 145	Pump Rate	Depti (fi) 263 421 579 535 570		(gent) ((gent) (0,5 1,0 1,1 1,3	1 /1,8 1 /1,8 /1.72 /1.55 (0.8 9.95	(bk/cm) 5741 1946 2071 319 189.4	61,45 61,45 6600 67,0 64.6	+ 56 2 - 56 2 - 60.3 74.5	Comm Murk cle cle cle cle cle	r clear
Time 1000 (052 1/37 145 1239 1245		Depti (11) 263 421 519 535 570 570	- 	(gent) ((gent) (0,5 1,0 1,1 1,3 1,5	1 /1, 8 /1.72 /1.72 /1.55 /0.85 9.95 9.95	(bac/cm) 5741 1966 2071 319 189,4 189,4	61.45 61.45 6 6 67.0 64.6 64.7	+ 11 8 - 56,2 - 60,3 74,5 136.9 53,5	Comunication Murk 	y y clear clear

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SHEET of	
Project Name: <u>Centennia</u> Project No.: <u>Section 33 Pompy</u> Muli ID: <u>ZND 8-33-MUU1</u> Date Installed:	ist-
Casing Diameter:	
METHOD OF DEVELOPMENT	
Kswabbing 🛛 Bailing 🖓 Pumping 🖓 Describe	
Equipment decontaminated prior to development Yes No	
Describe Assacher-PFD added WU = Well volume, Es	Hmat
Prill test from 582 for Suis was 6 apon No Sunda	de.
inchatting IS and from Sand was Bapting	i ch
CASING VOLUME INFORMATION	
Casing ID (inch) 10 15 20 22 30 40 43 50 60 70 80	
Unit Casing Volume (A) (gal/h) 0.04 0.09 0.16 0.2 0.37 0.65 0.75 1.0 1.5 2.0 2.6	
Measured Well Depth (B)ft. Measured Water Level Depth (C)ft. Length of Static Water Column (D) -276 , (B) (C) Casing Water VolumexST gal (A) (D) Volume of Water Added to Well During Installation =gal Total Purge Volume =(gal)	
Water Level Volume	
Pump Depth Removed Cond Temperature Turbidity Time Rate (fi) fpH (fpS/cm) fpr C pH Comments	
1345 At 579 1.75 9.51 224.1 6633 25.7 - deer	
1427 1 582 2.0 9.31 215.0 64.80 24.0 Elrat	
1440 10 579 2.1 926217.4 65.38 14.4 clear	
(450 14 580 2.2. 9.20217,2 64.36 13.1 clear	
1513 11 567 2.33 9.19 224.2 65.0 11.7 clear	
1500 11 579 2.50 9.06 246.4 64.5 H. 2 Clear	
\$/4/-0	



8/05/08

			Attac	hment A	: R Squ	ared Inc.								
			We	ll Develo	opment I	Record		1 7						
		, t					SHEET	I of X						
		Provide Section 33 Divide Fort												
		Wall in. TAIDS -	33-111	112	r	rojeci No,: <u>-</u>		- 1000	3101					
		Consistent Constant	777010	Ч	U	ate instance;_								
									·					
		METHOD OF DEVELO	MENT											
		Equipment decontaminated prior to development Equipment decontaminated prior to development												
		Describe	PEN 11	. 1	,	11 11	1	The D	Ĵ.					
		At lear	PD "da	the u	u = l	ucu vz	WALLY,	1044 13,	mp in 17	0900				
		have at 4401 of PATE at 275, N. wither-trip to 200° and remove & jants												
		fractived runing,	Arphae **	170° r	at DT	Sund Ch	At 103	O and PTW	F 265					
		CASING VOLUME INFO	DRMATION 1	1		TI UTTO	10351	set port		CM 17				
		Casing ID (inch)	10 15	20 22	30	411 43	50	64 70 8		x{ 515				
		Linit Casing Volume (A) (gal/fi)	0.04 0.09	016 02	0.37	0.65 0.75	10	15 20 2	h Prace					
		PURCING INFORMATI	on i-cell	1 57	3.5									
		Manurad Walt Danih (B) C	48141 580	SC MPCL	:6000			<u> </u>						
		Measured Wen Deput (B)	265	2	<u></u> n.			T ♣						
		Mensured water Level Dep		265	275									
		Length of Static Water Coli	$\min\left(D \subseteq C \subset B\right)$	<u>()</u>	~ 2~/11.		イイ	± [
		Casing Water Volume	55 [1,5	25	CJ. Smil			Ï						
		(A) ^ (D)	an a	Biel I	1,0	, 1 1							
		Volume of Water Added to	Well During Insta	llation -	() gal									
		Total Purge Volume - 57	$\mathcal{O}_{\mathcal{A}}, \mathcal{J}_{(gal)}$			L		V						
		Water L	evel Volume											
		Pump Dept Lime Rate (ft)	h Removed	nll	Cond ubS/cm	Temperature /Far C	Turbidity	Comments						
		1140 1. 7/6		1123	1719		FRY							
		1010 MA 200	020941	1.01	Crisi	61.6	11 did	is a metric	×					
		1922 14 777	0.05	11.72	2 277	6/12	2319	marky /						
		1055 174A 3F		11.32	4120	62.21	15.2	~ Cleart						
my set	berta	1219 19 april 31		7.29	J J7.9	65,81	4,8	Clear						
		10(1) TO:M 9)		Nild	476.0	OTILS	607	Clear						
		1-2.716 gpm 366	PIXO	1.8114	501, 3	67.02	6. t	allar	-J,					
		Samplers Signature:	<u>DI</u>				Date:	8/20/04 -5	bite ?					
		, 21.												

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		Atta V	ichme Vell Do	nt A: evelop	R Squ ment I	ared I Record	nc. I	SHEE	_ ک	- of C)_
Project Name: C.t.	unia - Mi	1 1 1 1		gana da Jina da Sana d	р р	roject N Date Inst	lo.: 5¢	17acm	33	iump	ing test
Casing Diameter:				n Ouanaithille un al 124							
Swabbing Bail Equipment decontaminated	<u>MENT</u> ing prior to	develoj	imping pment	□ Øv	Descril 'es E	b e] No					
Describe Ag in Urar PFT. 1454. CASING VOLUME INFO	> add	ed, 1	N	= i	vell 1	plum	ie.	PJ	Imp	of4	at
Casing ID (inch)	1.0	15	20	22	10	40	43	50	60	70	80
Unit Casing Volume (A) (gal/ft)	0.04	0.09	016	02	0.37	0.65	0.75	1 P	15	20	24
PURGING INFORMATIC Measured Well Depth (B) Measured Water Level Dep Length of Static Water Colu ('asing Water Volume (4) Volume of Water Added to Fotal Purge Volume	DN ih (C) imm (D) A) Well Di D: J. , 5	(B) × iying In >(gal		``) n	ft 3335_ft gai	!	1,0				

l'ime	Pump Rate	Water Level Depth (ft)	Volume Removed	pH	(Cond (K)em)	Temperature Por C	Turbidity	Comments
1410	69pm	507.6	2.5	7,17	514.9	70	\$,3	clear
454	O PA	503.5	30	7.13	586.8	68.39	7.3	clear
•	- 3, .							
Sampler	s Signature	<u> </u>	T	21 24			Date: 3	121/09

				Attach Wel	iment A	A: R Squ opment F	ared Inc. Record		, ,	`						
	Project N Well ID: Casing D METHO	ame: iameter:	Centeni 1-33- 6" EVELOPMEN	nia 1 MUU 3	3	Pi	roject No.: ate Installed	SHEET Section	of 33 pump	<u> ling</u> test						
	Swabl	bing	Bailing		ping	Descrit)e	<u></u>								
	Equipme	nt decont	aminated prior	to developm	ent 🖊	I¥es [] No									
	Describe Agreet ULM Probe	ther well	PFD Gme Data ad a great	dded.	WV= 259 ment	well in li From	Volim 2 hour Underrea	e. Su S(12m,1 mlage	100 601 100 8/149 10/ 50 me	am) (algter a s						
	Casure ID (inch)			20 2	30	40 43	50	b9 7 0	80						
	Unit Casing	Volume (A	(gal/ft) 0.04	(109)	10 11	2 0.37	0.65 0.7	5 10	15 20	26						
	Length of Casing W Volume o Total Pur	f Static W /ater Voli of Water . ge Volun	$\frac{4}{4} \operatorname{der Column} (1)$ $\frac{4}{(A)}$ Added to Well $\operatorname{dee} = 63L$	$D \frac{(B)}{x} - \frac{(B)}{(D)}$ During Insta S = (gal)	(C)	- <u>92/</u> ft 63 <i>L</i> 5 8a 0 gal		~~ -/								
	Time	Pump Rate	Water Level Depth	Volune Removed	pH	('ond (S/cm)	Temperatur Fr C	e Turbidity	, Commen	Its						
	1500	Ňя	237	159A	11.81	6813	60.69	32.5	Grey-1	lear						
	1615	<u>ha</u>	382	0.5	11.99	6214	61.27	33.6	- Elen							
a lutar	1970	<u>ha</u>	460	1,0	11,11	4754	67.22	26.7	~ Clea							
Se.lled	1100	<u>tin</u>	175	1.5	11.21	121	610	21.7	- Cica							
201 2	1205	-s.h	502	2.5	10.91	3420	64.29	1/7.7	rden							
3" 0	Samplers	Signatur	. DJ					Date:	8/10/09	-8/1/01						
					Attac We	hment ell Deve	A: 1 elopn	R Squ nent F	ared I Record	inc. I	SHEET	2	of	2		
------	------------------------	------------------------------------	---------------------------	-----------------------	--	-------------------	-------------------	-----------------	-----------------------	----------------	-----------	--------------	----------	-----------------------------------	-------------------	--------
	Project N Well ID:_	ame:	Center 8-3	aia / 3-/	I MUU	3		Pi D	roject N Patë Inst	lo.: alled:						
	METHO	D OF DI	VEI OP	MENT	r											
	Swabi	bing	Bailin	ng	L D Pun	nping		Describ	ж					angestale st orage eren og		
	Equipmer	nt deconta	aminated [orior to	o developn	nent		es 🗆] No							
	Describe Dee	epest	DI	-W	when	sun	d:	= 5	7/2		8/	<u>II.</u>	Gadh	4/5 0	Nib	
	prob	lems	_a!	-00	nd !	490	to	500	<u> </u>	plut,	Slow	15	down	L 50	Jak tothy	praces
	יאטי <u>Casing</u>	tch fo VOLUN	MM <u>1e info</u>	ን † _{RMA}	o Alivo <u>TION</u>	MJi Yield	+ 3 (tr	o red est	nrye From	ovu Sc	of white	tint 25 i	• • •	n, 1. . J	3 mg 0 9 p 19.	
	Casing ID (uicht		10	15	20	22	30	4,0	43	50	60	70	80	,	
	Unit Casing	Volume (A	.) (gal/ft)	0.04	0.09	0.16	02	0 37	065	0.75	10	15	2.0	26]	
	PURGIN Measured	i <mark>G INFO</mark> I Well De	<u>RMATIC</u> pth (B)	<u> </u>				n.	•	r		†		•		
	Measured	l Water L	evel Dept	h (C)_	and the second			î.				ļ Ç	ſ			
	Length of	'Static W	ater Colu	mn (D)) (B)		^	42/ ft.			~ -	F I	 }			
	Casing W	ater Volu	ime(A	()	N(D)		6 <i>51.</i> C) gal	l	цo		D D				
	Volume c Total Pur	of Water / ge Volum	Added to $\frac{1}{6}$	Well D 346	ouring Inst	allation	• •	gal				,	<u> </u>			
	Time	Pump Rate	Water Lo Depth (ft)	ivel	Volume Removed	рH	j.	Cond (S/cm)	Tenn	erature C	Turbidity		Comme	กร		
	1405	<u>h5</u>	485	•	3.0	10,1	5 3	23,0	65	:33	31.7	~	clea			
4/12	0930	HA	410		3.5	9,5	63	03.3	63	,12	16.6	~	, dea	-]	
- X	1045	na	491		4.0	1.50	0 30	269	64	,20	21.0	~	clea	~	-	
	1250	ilk	498		4.5	9,15	3	85,0	65	.35	284	1~	chea	<u> </u>	-	
	1335	4114	484		4.2	19.1	13	75.6	64,	65	27.9	-	clequ			
	Samalar	Signatur	. 7								Date:		10A	-4	1 1 1	
	muniters	Summer	Ge	4								-			- 117	



Legend



file hat	1	11	- Starter	1+0 100 X
No.	(raine	1-		men
75			12	J.
- Land	TIMER C	DCDU	1	Stor 1
N	4	- NE	1	1. J. J.
Coll		TE	dine)	in the part of the second
- California	men He	Find	- Anne and -	None sale de

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Completeness Issue Item #8 Attachment

NOI P-2008-043 MD-03 Completeness Issue Item #9 Attachments