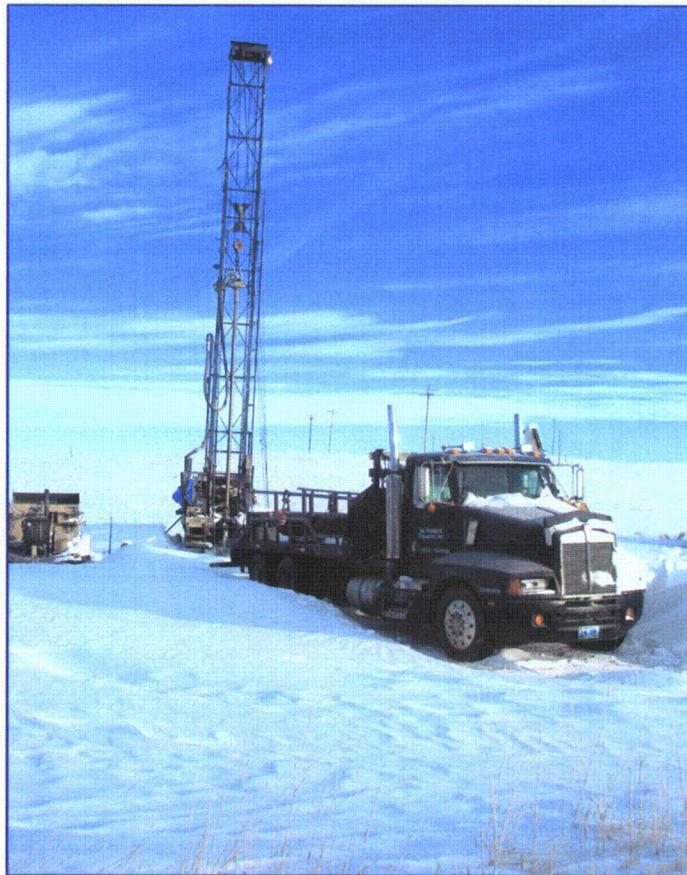


PHOTO DOCUMENTATION OF THE ROSS ISR PROJECT BASELINE WELL INSTALLATION PROGRAM

Prepared for:



2009 and 2010



Photo 01 12-18 Well Cluster



Photo 02 Display 550' Drill Cuttings



Photo 03 Drill Cuttings (600')

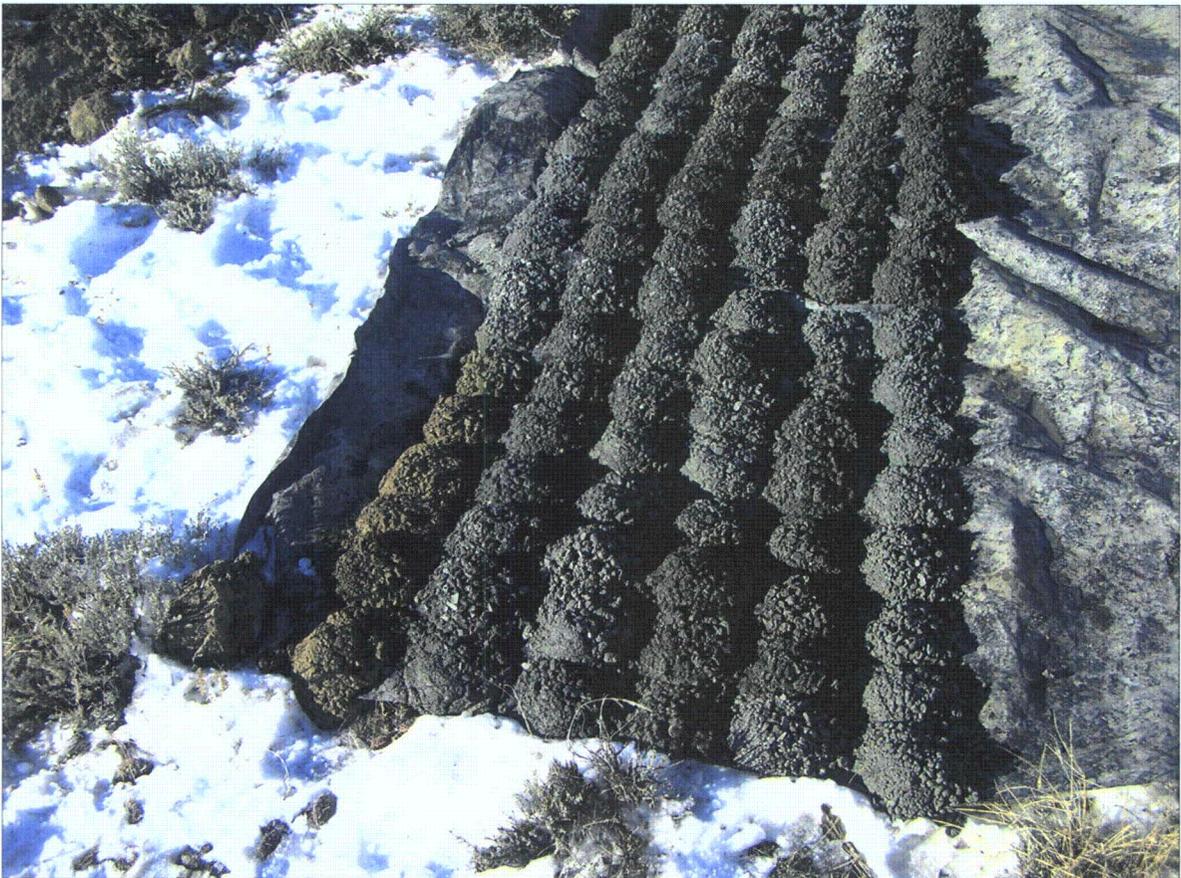


Photo 04 Drill Cuttings



Photo 05 Electric Log-Pilot Hole





Photo 07 Certainteed Casing-Top Ends



Photo 08 Certainteed Casing-Bottom Ends



Photo 09 Casing Pins and Centralizers

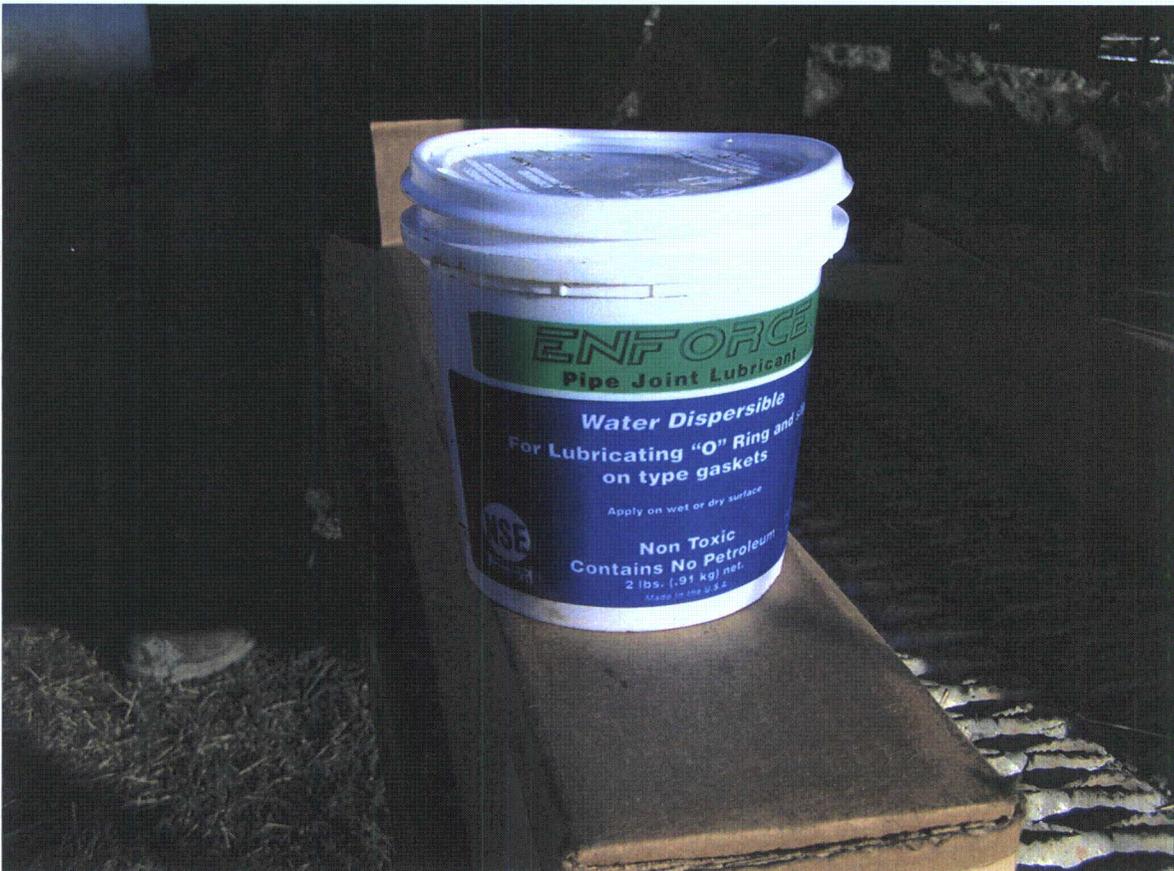


Photo 10 O-Ring Casing Lubricant



Photo 11 Inserting Casing Lock Pin In Collar



Photo 12 Pin Prior to Installation in Lock Channel



Photo 13 Running Casing



Photo 14 Ready to Cement Casing

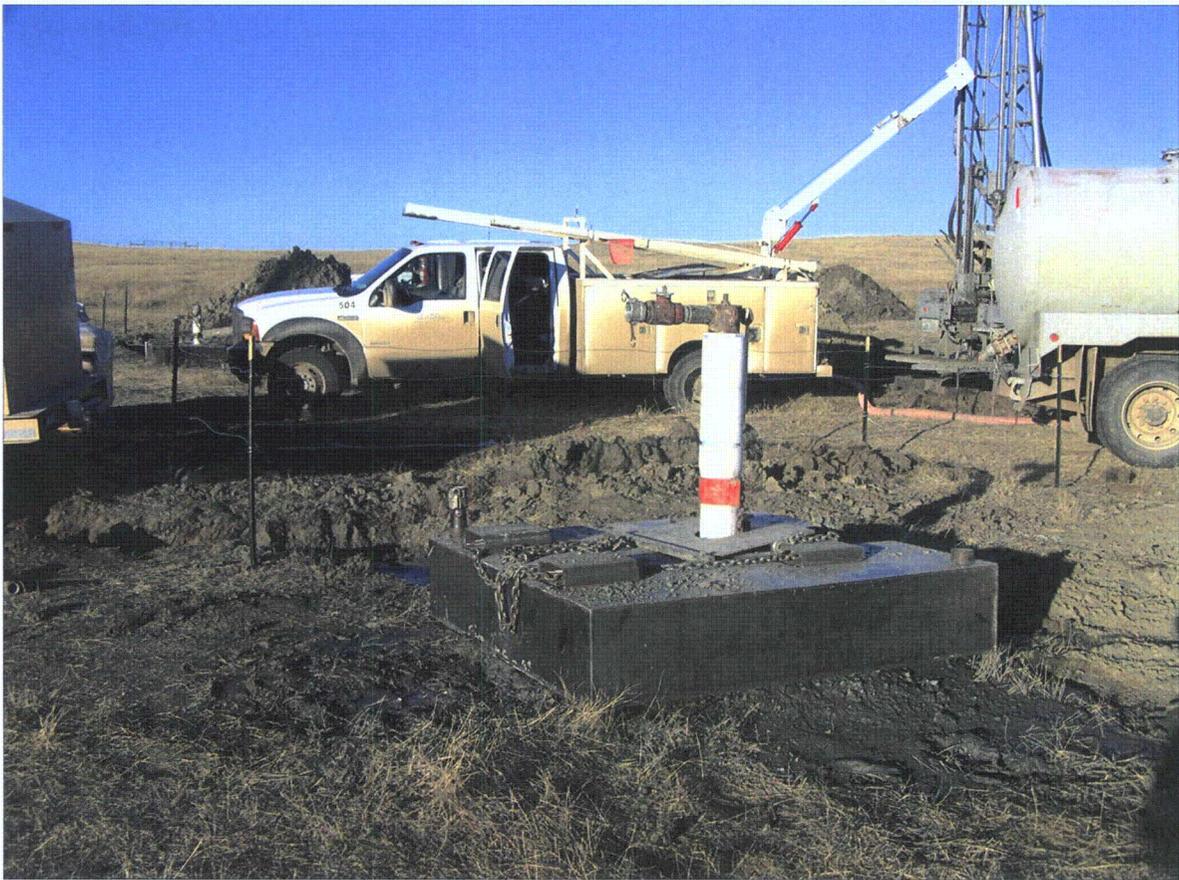


Photo 15 Completed Casing, Well Weight, Cementing Fittings and E-Log

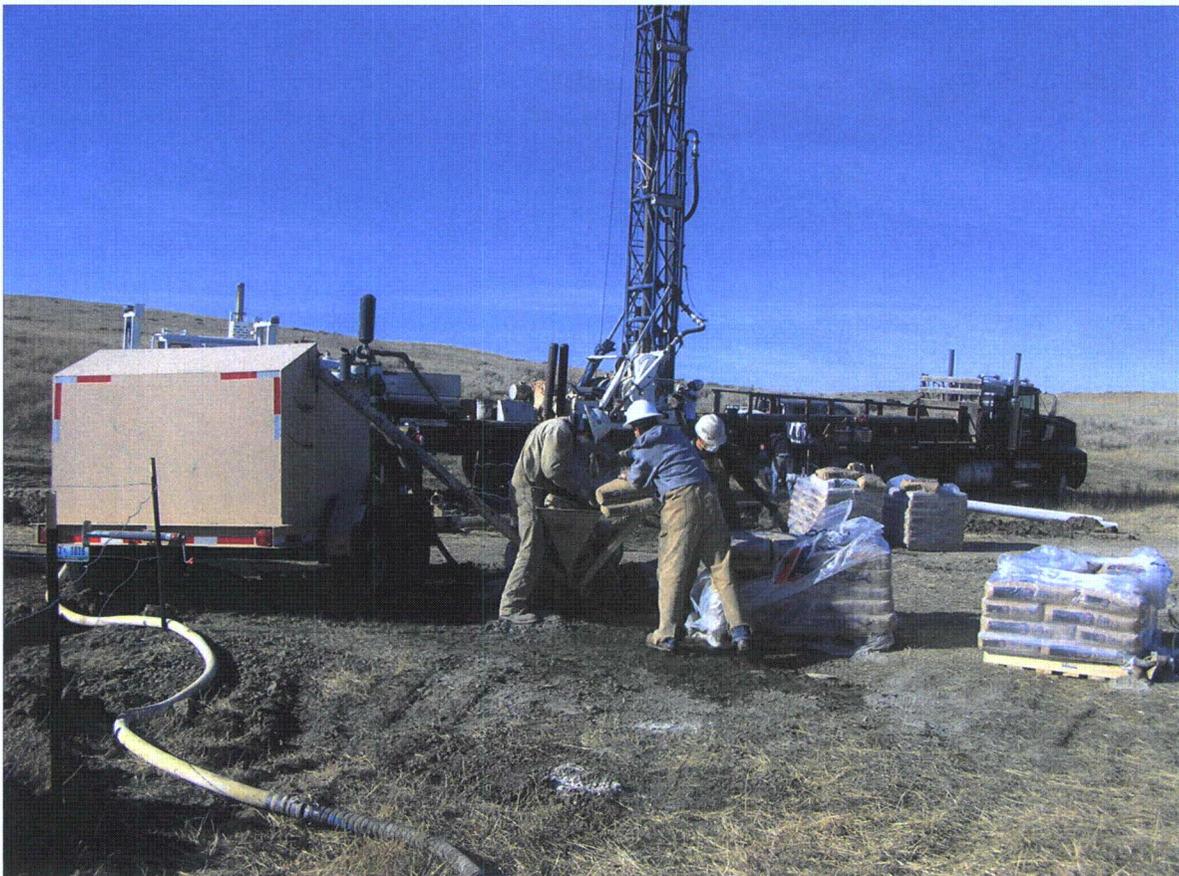


Photo 16 Mixing Cement-Up to 23 Barrel Batch



Photo 17 Mud Balance (15lbs per gal)



Photo 18 Mixing Cement



Photo 19 Pumping Cement-Note Water Returns



Photo 20 Filling Well Weight With Excess Cement



Photo 21 Well Weight



Photo 22 Stuck Casing in Hole or on Bridge While Being Lowered in Hole



Photo 23 Mixing Cement

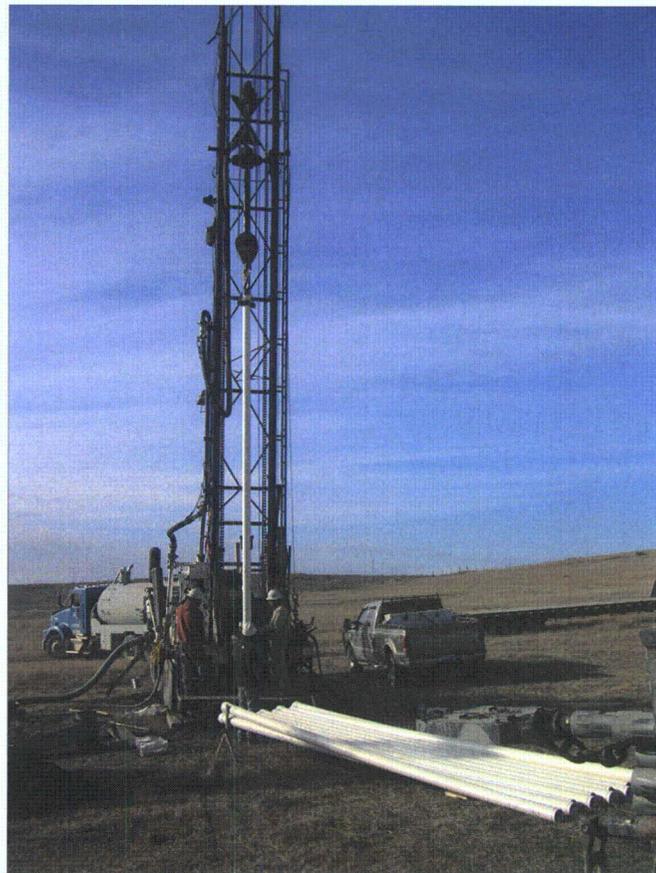


Photo 24 Running Casing



Photo 25 Mixing Cement

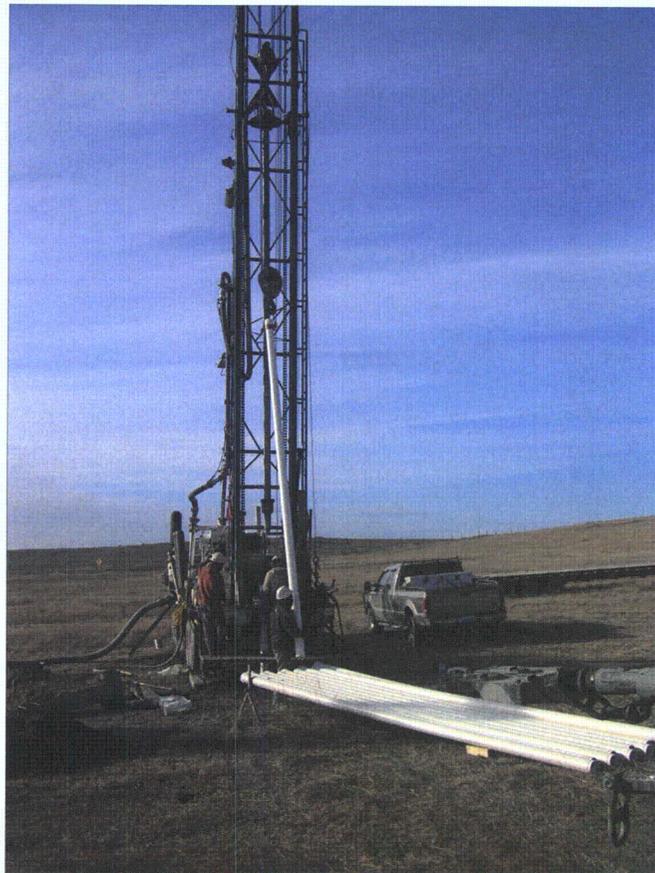


Photo 26 Running Casing



Photo 27 Both Rigs Mixing Cement



Photo 28 Topping Off Surface Cement



Photo 29 Topping Off Cement



Photo 30 Topping Off With New Cement



Photo 31 Under Reaming!



Photo 32 Preparing to Install Screen and Filter Sand While Under Reaming

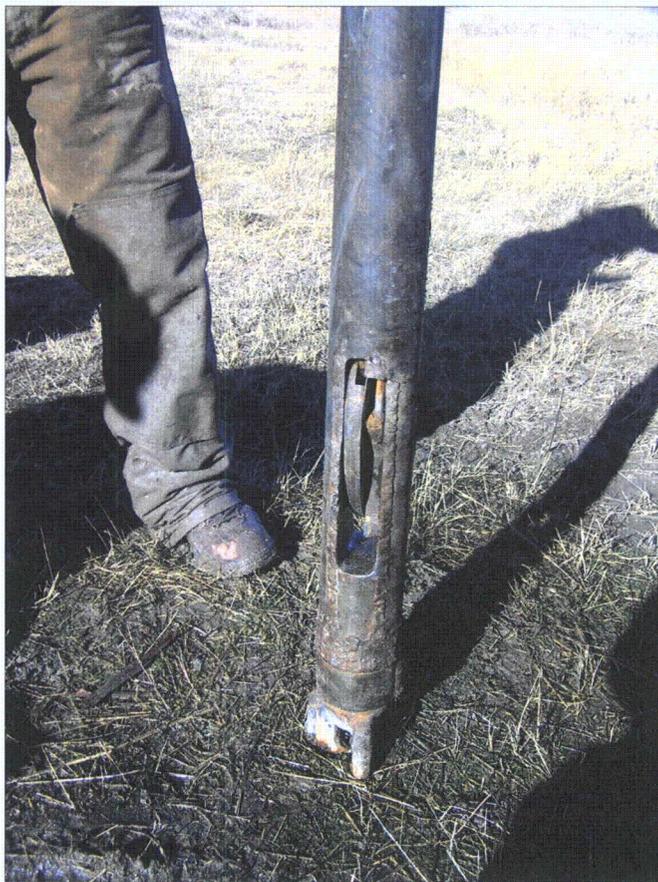


Photo 33 Under Ream Tool-Blades Retracted



Photo 34 Bent Blades on Under Ream Tool



Photo 35 Blades Stuck Open

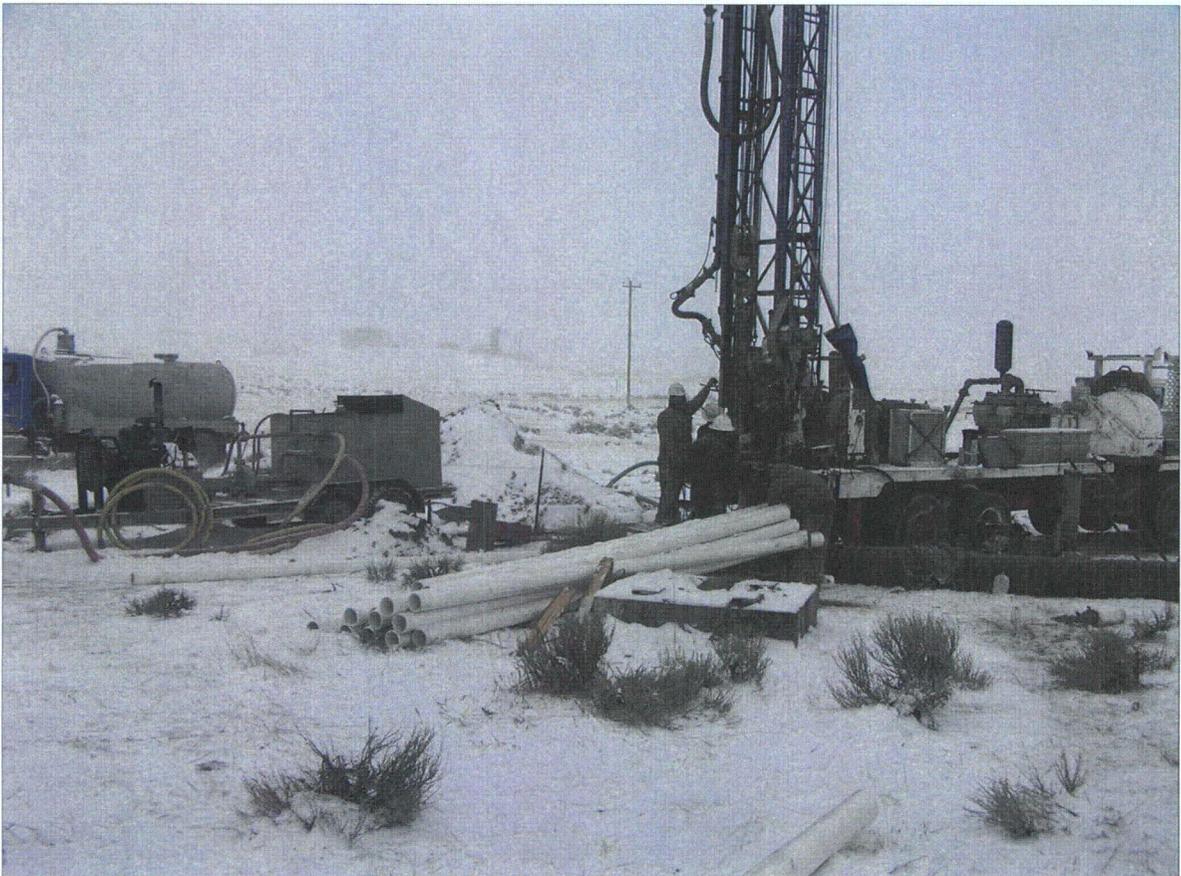


Photo 36 Running Casing



Photo 37 Running Casing-Note Centralizers

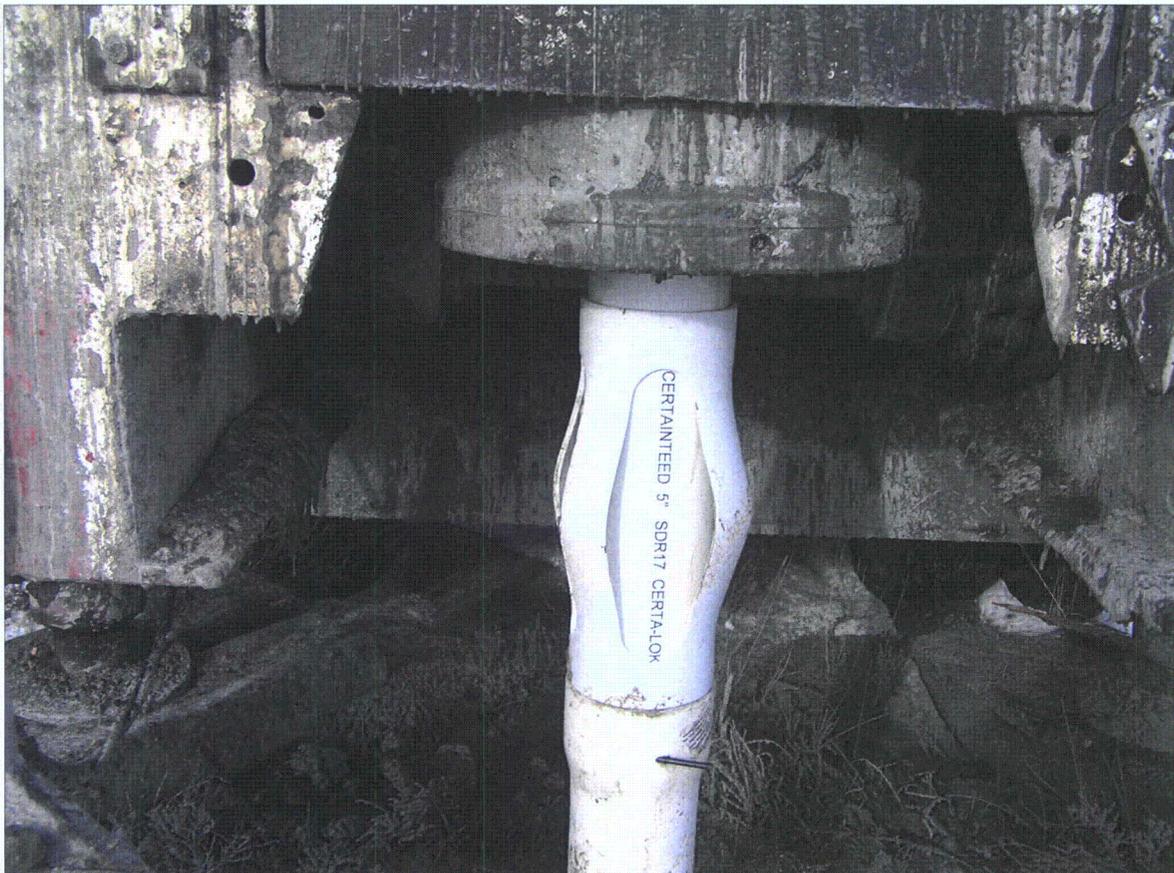


Photo 38 Centralizer



Photo 39 Placing Well Weight with Backhoe



Photo 40 Jake Kellog Preparing Cement Hose for Flange



Photo 41 Well Weight, Landing Plate, Casing, Elevator, Cementing Fittings



Photo 42 Preparing to Mix Cement (approx 10,000 dry pounds)

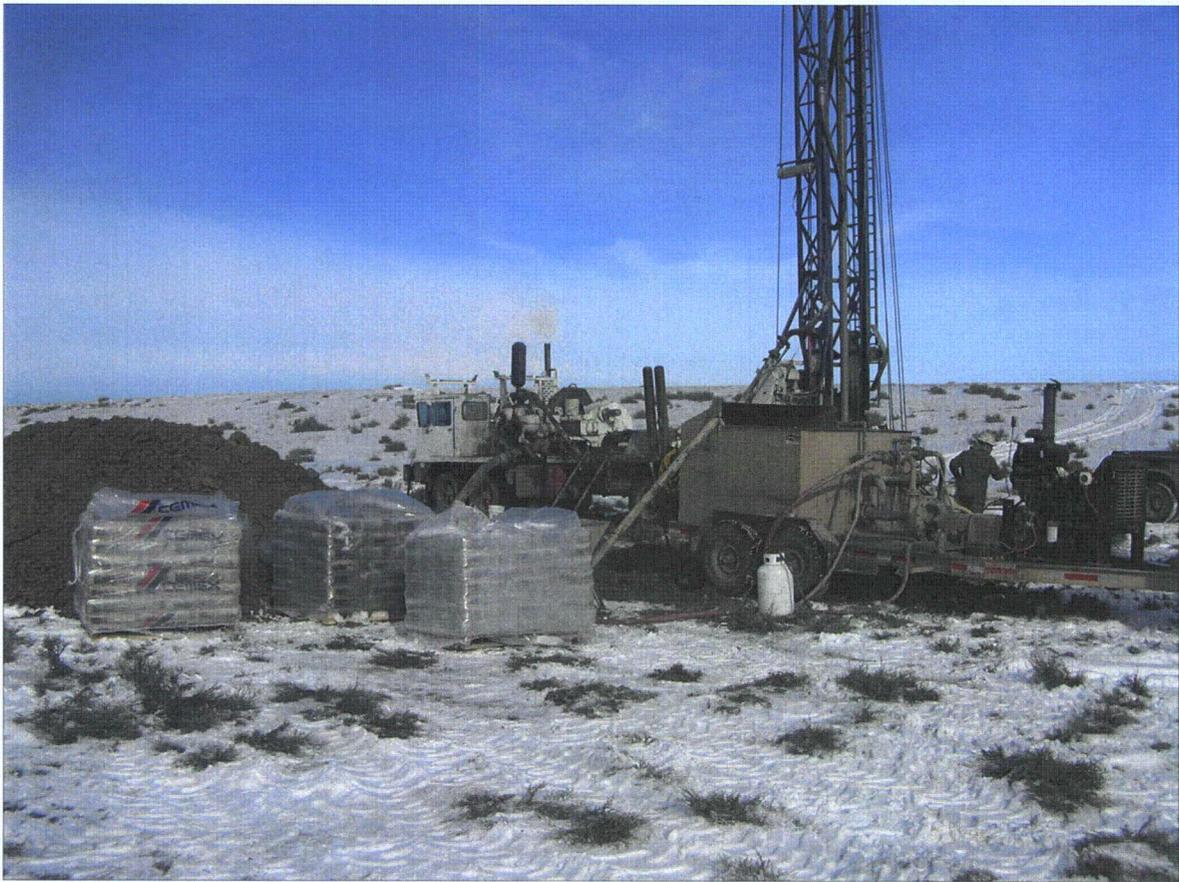


Photo 43 Preparing to Mix Cement



Photo 44 Cement Returns At Surface

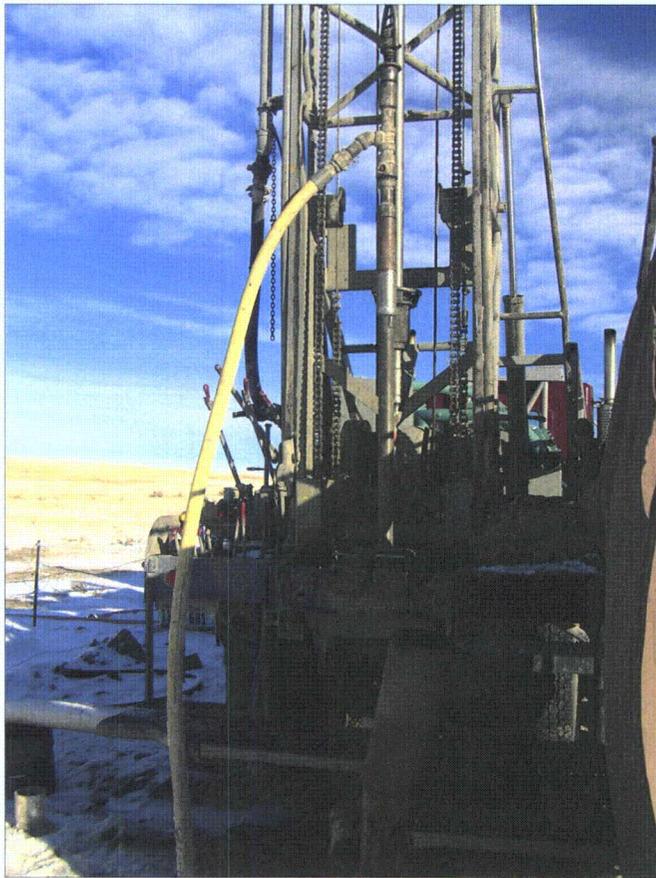


Photo 45 Water Line for Filter Pack Installation



Photo 46 Bottom Screen Trap Assembly



Photo 47 J-Tool and Packer Assembly



Photo 48 J-Tool and Top of Packer Assembly



Photo 49 Top Screen Assembly



Photo 50 Thirty Five Foot Screen Assembly



Photo 51 Screen Bottom Assembly and Galvanized Stinger



Photo 52 Screen Assembly



Photo 53 Sewer Trap Bottom Screen Assembly

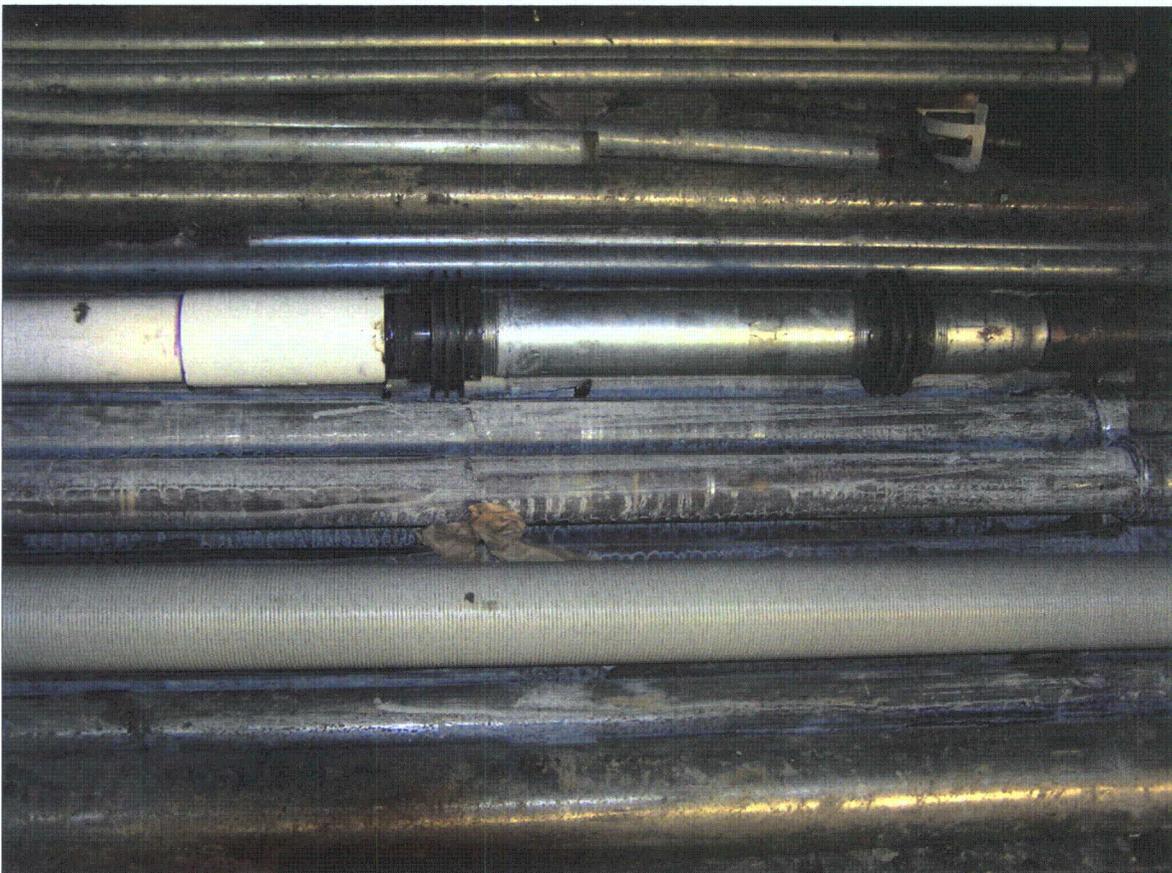


Photo 54 J-Packer and Screen on Trailer

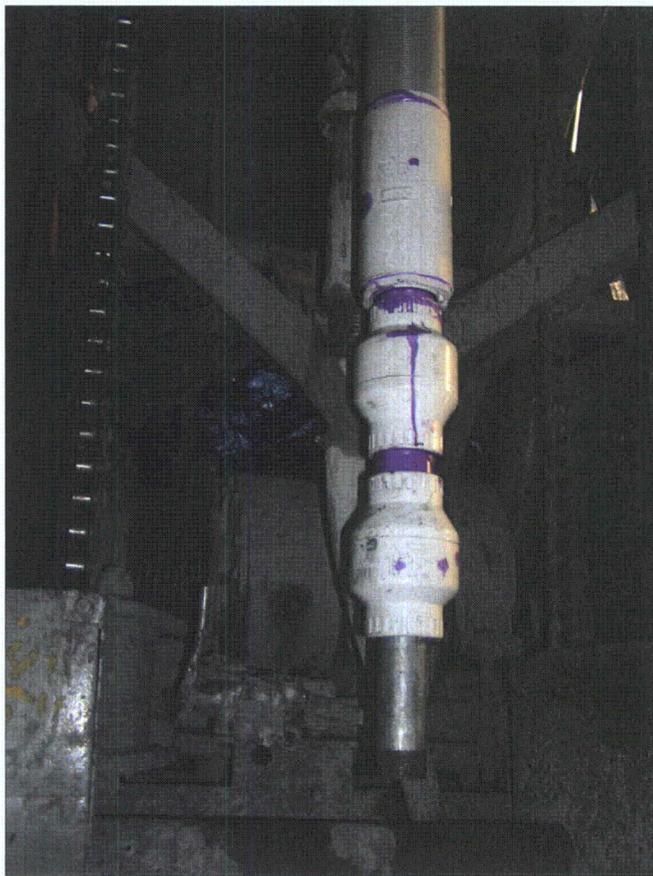


Photo 55 Bottom Screen Assembly and Galvanized Stinger



Photo 56 Ten Foot Screen Assembly

CIVIL/WATER RESOURCE ENGINEERING

- › Pumps and pipelines
- › Surface and groundwater modeling
- › FEMA floodplain assessments
- › Hydraulic and hydrologic analysis and design
- › Dam design and rehabilitation
- › Water supply, treatment and distribution
- › Wastewater treatment and disposal
- › Irrigation systems
- › GPS and conventional surveying
- › Civil engineering design, plans and specifications
- › Construction engineering
- › Water rights
- › Computer-aided design and drafting (CADD)
- › GIS mapping
- › Stormwater management
- › Geotechnical sampling
- › 404 permits

MINE SERVICES

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- › Mining and reclamation design and permitting
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- › Reservoir and dam design
- › Haulroads and stream crossings
- › Annual reports and bond calculations
- › Blast monitoring and reporting
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- › Mine simulation modeling
- › Postmine topography design
- › Reclaimed stream channels, AVF reclamation and wetland mitigation design
- › Abandoned mine land reclamation

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- › Utility replacement
- › Drainage design
- › Bicycle/pedestrian pathways
- › Parking facilities
- › Construction administration

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- › Geomorphologic investigations
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- › Hydrologic and water quality monitoring
- › Hazardous and non-hazardous waste management planning
- › Site remediation planning and design
- › Soil and groundwater cleanup plans
- › Underground storage tanks investigation and removal plans
- › NEPA compliance documents
- › Environmental audits
- › Wetland delineation and mitigation

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