



June 24, 2015

Project Number 140-4221

Celestine Ngam
New Mexico Environment Department
Petroleum Storage Tank Bureau
2905 Rodeo Park Drive E., Bldg. 1
Santa Fe, NM 87505

RE: NOTICE OF COMPLETION OF DELIVERABLE ID 17138-2; INSTALLATION OF PILOT TEST WELL, LOVINGTON 66, LOVINGTON, NEW MEXICO

FACILITY #: 1489 RELEASE ID#: 1182

Dear Mr. Ngam:

I am transmitting this letter to advise you that Golder has completed the task associated with Deliverable Identification number 17138-2, which included drilling and installing a pilot test well (DPE-1) at the above referenced site. Proposed equipment and tasks were set forth in our April 30, 2014 workplan.

The pilot test well was drilled and completed on June 14, 2015. The well installation was completed by HCI Drilling Inc. Additionally, HCI developed the well on June 14, 2015. The attached photos show the specific equipment used, soil cuttings, and installation of the well.

Agency workplan approval sets forth an approved budget of \$20,812.57 for this task; we anticipate that we will issue a claim for the full amount upon receipt of your acceptance of deliverable for deliverable identification number 17138-2. If you have any questions regarding this transmittal, please do not hesitate to contact either of us.

Sincerely,

GOLDER ASSOCIATES INC.

A handwritten signature in black ink, appearing to read 'Clay Kilmer'.

Clay Kilmer
Senior Hydrogeologist

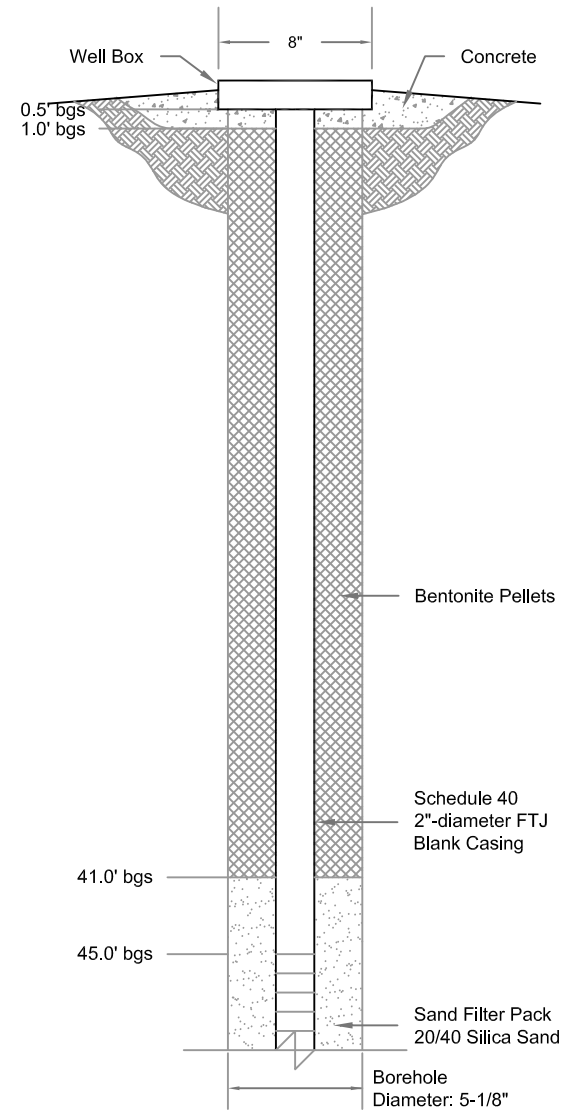

A handwritten signature in black ink, appearing to read 'Phil Carrillo'.

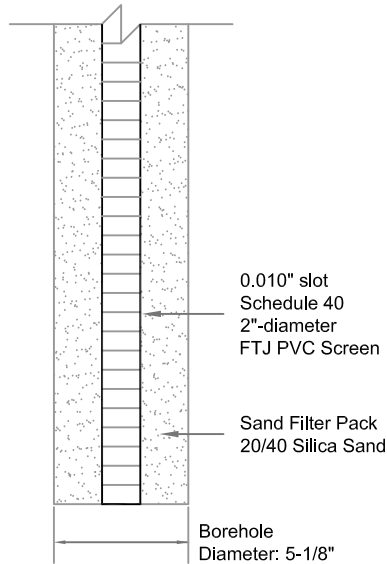
Phil Carrillo
EIT


Attachments: Figures (2): DPE-1 Log
 Photo Log.—Photos of DPE-1 installation

CK/rj



FLUSH WELL DIAGRAM		SAMPLER TYPE	BLOW COUNTS	SAMPLE INTERVAL	RECOVERY (INCH)	PID READING	USCS SOIL TYPE	DEPTH (FEET BGS)	SOIL DESCRIPTION
		GRAB	NA			153.8	SL	5	ASPHALT SILTY SAND, SLIGHTLY MOIST, DARK BROWN (7YR, 7/2)
						2.7		10	CALICHE, WHITE TO PINK, SLIGHTLY MOIST, NO ODOR (7.5YR 7/2)
						0.0		15	CALICHE, SOME SILT, LIGHT BROWN WITH WHITE AND PINK, SLIGHTLY MOIST, NO ODOR (2.5YR, 6/3)
						25.7		20	CALICHE, LIGHT BROWN TO WHITE, SOME PINK, SLIGHTLY MOIST, NO ODOR (7.5YR, 7/2)
						15.4		25	CALICHE, LIGHT BROWN TO WHITE, SOME PINK, SLIGHTLY MOIST, NO ODOR (7.5YR, 7/2)
						7.8	CALICHE	30	
						7.6		35	CALICHE WITH GRAVEL (1/2" DIA.), WHITE TO PINK, SLIGHTLY MOIST, NO ODOR (7.5YR, 8/2)
						9.7		40	CALICHE SAND WITH GRAVEL (1/2" DIA.), WHITE TO PINK, SOME PINK, SLIGHTLY MOIST, NO ODOR (7.5YR, 7/2)
						4.6		45	SAME AS ABOVE WITH SOME SANDSTONE
								50	
Project: Lovington 66		Drilling Company: Harrison and Cooper			LOVINGTON 66, 424 SOUTH MAIN LOVINGTON, NEW MEXICO				
Drilling Rig/Bit: Air Rotary Ingersol Rand OD - 5-1/8"		Driller: Kenny Cooper			BORING LOG/ WELL CONSTRUCTION DETAIL DPE-1				
Start Date/Time: 6/14/15 / 0900		Completion Date/Time: 6/14/15 / 0928			PAGE 1 of 2				
Boring Depth: 75.0 feet below ground surface		Logged by: Phillip Carrillo							



SAMPLER TYPE	BLOW COUNTS	SAMPLE INTERVAL	RECOVERY (INCH)	PID READING	USCS SOIL TYPE	DEPTH (FEET BGS)	SOIL DESCRIPTION
GRAB	NA			18.4	CALICHE	55	CALICHE WITH SAND AND SOME GRAVEL (1/4"-1/2"), LIGHT BROWN TO PINK, SOME ODOR, SLIGHTLY MOIST (7.5YR, 8/3)
				780.3		60	CALICHE SAND, STRONG ODOR, WHITE TO PINK, LIGHT BROWN, SLIGHTLY MOIST (7.5YR, 7/3)
CUTTINGS				2709	SL	65	
				2091		70	CUTTINGS RETURNING, WET, SATURATED
				379.8		75	SAND WITH SILT, BROWN, WET, SLIGHT ODOR (7.5YR, 6/3)
				81.4		75	
						80	
						85	
						90	
						95	
						100	
Project: Walstad 66 Drilling Company: Harrison and Cooper Drilling Rig/Bit: Air Rotary Ingersol Rand OD - 5-1/8" Driller: Kenny Cooper Start Date/Time: 6/14/15 / 0900 Completion Date/Time: 6/14/15 / 0928 Boring Depth: 75.0 feet below ground surface Logged by: Phillip Carrillo				LOVINGTON 66, 424 SOUTH MAIN LOVINGTON, NEW MEXICO BORING LOG/ WELL CONSTRUCTION DETAIL DPE-1 PAGE 2 of 2 			

**Lovington 66 - Installation of Pilot Test Well DPE-1****PHOTO 1**

Drill rig setting up on DPE-1 location for drilling.

2015-06-14

**PHOTO 2**

Cutting through the asphalt in the parking lot. Nominal diameter was 7-7/8".

2015-06-14



**PHOTO 3**

The first return on cuttings.
Drill depth is approximately
5-ft BGS.

2015-06-14

**PHOTO 4**

Cuttings were collected and
transferred to 55-gal steel
drums for off-site disposal.

2015-06-14



**PHOTO 5**

Some of the cuttings collected for off-site disposal. Composition was mostly Caliche with varying particle sizes.

2015-06-14

**PHOTO 6**

Small amounts of cuttings were collected every 5-ft of drill depth for PID screening. Additionally a soil sample was collected from the interval producing the highest PID reading.

2015-06-14



**PHOTO 7**

Drill encountered saturation at approximately 60-ft BGS. Cuttings return wet.

2015-06-14

**PHOTO 8**

Lower section of 4-inch well being rigged for insertion into borehole.

2015-06-14



**PHOTO 9**

Silica sand was packed around the well screen to approximately 3-ft above the top of the screen.

2015-06-14

**PHOTO 10**

The well vault was flush mounted with concrete. The casing was cut approximately 6-inches BGS.

2015-06-14



**PHOTO 11**

The final surface condition
of DPE-1

2015-06-14

**PHOTO 12**

Gandy was present onsite
for developing well. Gandy
was responsible for
collecting and disposing of
water from well
development.

2015-06-14



**PHOTO 13**

The water content of DPE-1 contained sediment and suspended solids.

2015-06-14

**PHOTO 14**

DPE-1 was pumped until the water was clear and free of suspended solids. A total of approximately 150 gallons was pumped.

2015-06-14



**PHOTO 15**

Five steel 55-gal drums were used for collecting cuttings and stored on-site. Gandy Marley retrieved the 55-gal drums for proper soil disposal.

2015-06-14

