SITE INFORMATION

.

.... -----_

| | | Repo | ort Type: W | ork Pla | an | |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------------------------------------------|
| General Site Info | rmation: | | | | | |
| Site: | | Myox 31-13 | Flow line | | | |
| Company: | | COG Operat | ing LLC | • | | |
| Section, Townsh | ip and Range | Unit P | Sec. 31 | T-25-S | R-28-E | |
| Lease Number: | · · · · · | API-30-015-3 | 7497 | | | |
| County: | | Eddy | | | : | - |
| GPS: | | | 32.08029° N | • | 1 | 104.11799° W |
| Surface Owner: | · | State | | | | |
| Mineral Owner: | | | | | | |
| Directions: | | Intersection of travel west on location in pas | Hwy 285 and White City Rd 2.5 ture east of lease n | e City Hoac ni, right 1.0 oad | I (Approximatel mi, left 0.5 mil | y 12 miles south of Malaga, NM), es, right over cattle guard 0.5 mi to |
| Release Data: | | | | | | |
| Date Released: | ing the second | 2/10/2012 | | | innen in | |
| Type Release: | | Produced Wa | iter | | | |
| Source of Contam | ination: | Flow line | | | | |
| Fluid Released: | | 20 bbls | | | | |
| Fluids Recovered. | | None | | | مرتبع والمعالي المراجع المراجع المراجع | |
| Official Commun | ication: | | | | | |
| Name: | Pat Ellis | | | A. ANALAS AN ANALAS AND A | Ike Tavarez | an day, yan Currier, dan serier da |
| Company: | COG Operating, LL | С | | ··· ··· ·· ·· ·· | Tetra Tech | |
| Address: | 550 W Texas Ave | Ste 1300 | | | 1910 N Big | Spring |
| Address. | 550 W. TEXAS AVE. | | | | To to the Dig | cpinig |
| P.U. BUX | Miller 1 Trees 707 | | | | Midland Tax | |
| | Midland Texas, 797 | 01 | | | | as |
| Phone number: | (432) 686-3023 | | | | (432) 682-45 | 59 |
| Fax: | (432) 684-7137 | | | | | · · · · · · · · · · · · · · · · · · · |
| Email: | pellis@conchoreso | urces.com | | | ike.tavarez | @tetratech.com |
| Ranking Criteria | | | | | r starte si | |
| Depth to Groundw | ater | · · · · · · · · · · · · · · · · · · · | Banking Score | 1 | | Site Data |
| <50 ft | | | 20 | | | |
| 50-99 ft | | | 10 | | | |
| >100 ft. | | | 20 | | | 20 |
| WellHead Protectiv | · | ····· | Banking Score | 1 | | Site Data |
| Water Source <1.0 | 00 ft., Private <200 ft | ł. | 20 | | | |
| Water Source >1,0 | 00 ft., Private >200 ft | • | 0 | | • | 0 |
| Curfore Reducef M | latavi | <u>. </u> | Penking Coore | 1 | | Site Data |
| <pre>Surface body of w <200 ft</pre> | | | 20 | | | She Dala |
| 200 ft - 1.000 ft.` | | | 10 | 1 | · | |
| >1,000 ft. | | · · · · · · · · · · · · · · · · · · · | 0 | | | 0 |
| . Tota | al Ranking Score: | herde fan de states fan | 20. | | i Baldin - Antonio Angelando Angelando Angelando | |
| | | Accepta | ble Soil RRAL (| ng/ka) 🛝 | | |
| | | Benzene | Total BTEX | TPH | - | |
| | | 10 | 50 | 100 | 1 | |
| | and a start of the | | | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | an an the second statement of the second statement of the second statement of the second statement of the second |



May 31, 2012

Mr. Mike Bratcher Environmental Engineer Specialist Oil Conservation Division, District 2 1301 West Grand Avenue Artesia, New Mexico 88210

Re: Work Plan for the COG Operating LLC., Myox 31-13 Flow line, Unit P, Section 31, Township 25 South, Range 28 East, Eddy County, New Mexico.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Myox 31-13 Flow line located in Unit P, Section 31, Township 25 South, Range 28 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.08029°, W 104.11799°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on February 10, 2012, and released approximately twenty (20) barrels of produced water due to a grass fire melting the flow line. To alleviate the problem, COG personnel replaced the damaged line. COG was unable to recover any of spilled fluids. The spill initiated from the damaged flowline and migrated across the native pasture impacting an area approximately 60' x 180'. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 31. The New Mexico State Engineers Office showed two wells were listed in Sections 20 and 28 with depths to groundwater of 96.0' and 90.0' below surface, respectively. According to the NMOCD groundwater map, one well is listed in Section 29 with a depth to groundwater of 15.0' below surface. This well appears to be located near a draw with a relative elevation of 2969'. The site relative

Tetra Tech



elevation is approximately 3014', which the groundwater depth at the site should be at approximately 50.0' below surface. Based on the limited groundwater data, Tetra Tech will inventory water wells in the area and confirm the groundwater depth from any water wells accessible near the area. The groundwater data is shown on Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 100 mg/kg.

Soil Assessment and Analytical Results

On March 7, 2012, Tetra Tech personnel inspected and sampled the spill area. Seven (7) auger holes (AH-1 through AH-7) were installed to a depth of 5-5.5' below surface using a stainless steel hand auger to assess the impacted soils. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory reports and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all of the submitted samples were below the RRAL for TPH and BTEX. Elevated chloride concentrations were detected at all of the auger holes, with the exception AH-1 and AH-7. Auger holes (AH-1 and AH-7) did not show a significant impact to the soils. Auger hole (AH-2) showed a shallow impact declining to 608 mg/kg at 2-2.5' below surface. The remaining auger holes were not vertically defined.

On April 16, 2012, Tetra Tech personnel supervised the installation of four (4) boreholes (BH-1 through BH-4) utilizing an air rotary drilling rig. Samples were collected to a depth of 40.0' below surface. The sampling results are summarized on Table 1. Referring to Table 1, the elevated chloride concentrations significantly declined with depth at 5.0' to 7.0' below surface. The deeper samples from 7.0' to 25.0' did show chloride



concentrations ranging from 1,020 mg/kg to 1,740 mg/kg, but declined with depth.

Work Plan

COG proposes to removal of impacted material as highlighted (green) in Table 1 and shown on Figure 4. No impact was encountered in the areas of AH-1 and AH-7. To remove the elevated chloride concentrations, the area of AH-2 will be excavated to a depth of approximately 2.0'.below surface. The areas of AH-4 and AH-5 will be excavated to a depth of approximately 5.0' and AH-3 and AH-6 to a depth of 7.0' below surface. Once excavated to the appropriate depths, the excavated areas (AH-3, AH-4, AH-5 and AH-6) will be capped with a 40 mil liner at 4.0' to 5.0' below surface and backfilled to grade with clean soil.

Due to the location of the spill, the proposed excavation depths and areas may not be achieved due to wall cave ins, oil and gas equipment, electrical, structures or lines which may not be feasible or practicable to be removed due to safely concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable. If the impacted soil is not accessible, the soil will be deferred unit the abandonment of the facility. If deeper excavation cannot be achieved, the impacted soil will be capped with a 40 mil liner 4.0' to 5.0' below surface and backfilled with soil to grade

Upon completion a final report will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call me at (432) 682-4559.

Respectfully submitted,

TETRA TECH Ike Tavarez

Senior Project Manager

cc: Pat Ellis - COG

Figures







Drewn By: Isabel Mermolejo



Drewn By: teabel Marmoleja

Tables

Table 1COG Operating LLC.Myox 31-13 Well SiteEddy County, New Mexico

.

| Sample | Sample | Sample | Soil | Status | - | ГРН (mg/k | g) | Benzene | Toluene | Ethlybenzene | Xylene | Total | Chloride |
|--------|----------|------------|---------|---------|-------|-----------|-------|---------|---------|--------------|---------|---------|----------|
| ID | Date | Depth (ft) | In-Situ | Removed | GRO | DRO | Total | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| AH-1 | 3/7/2012 | 0-1 | Х | | <2.00 | <50.0 | <50.0 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <200 |
| | łt | 1-1.5 | Х | | _ | - | - | - | - | _ | - | - | 207 |
| | 11 | 2-2.5 | Х | | - | - ' | - | - | - | - | - | - | <200 |
| | II | 3-3.5 | Х | | - | - | - | - | - | - | - | - | <200 |
| | 11 | 4-4.5 | Х | | - | - | | - | - | - | - | - | <200 |
| | II | 5-5.5 | Х | | - | - | - | - | - | - | - | - | <200 |
| AH-2 | 3/7/2012 | 0-1 | X | | <2.00 | <50.0 | <50.0 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 11,800 |
| | II | 1-1.5 | X | | - | - | | | | | - | | 10,600 |
| | 11 | 2-2.5 | Х | | - | - | - | - | - | - | - | - | 608 |
| | 11 | 3-3.5 | Х | | - | - | - | - | - | - | - | - | <200 |
| | 11 | 4-4.5 | Х | | - | _ | - | - | - | - | - | | 218 |
| | 11 | 5-5.5 | Х | | - | - | _ | - | - | - | - | - | <200 |

Table 1

COG Operating LLC.

Myox 31-13 Well Site

Eddy County, New Mexico

| Sample | Sample | Sample | Soil | Status | | TPH (mg/k | g) | Benzene | Toluene | Ethlybenzene | Xylene | Total | Chloride |
|--------|-----------|------------|---------|---------|--------------|--------------|-------|---------|----------|----------------|-------------|------------|----------|
| ID | Date | Depth (ft) | In-Situ | Removed | GRO | DRO | Total | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| AH-3 | 3/7/2012 | 0-1 | X | | <2.00 | <50.0 | <50.0 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 15,700 |
| | N | 1-1.5 | Х | | : ' = | - | - | _ | _ | | - | | 13,300 |
| | H | 2-2.5 | X | | - | - | · - | - | - | - | | - | 11,700 |
| | 11 | 3-3.5 | X | | - | - 1.4 | - | ÷ «, | - ` | - | ** - | | 11,600 |
| | 11 | 4-4.5 | X | | - | · - | - | - | - | , e 1 - | _ | | 8,310 |
| | u | 5-5.5 | Х | | - | - | - | - | - | - | - | | 1,280 |
| BH-1 | 4/16/2012 | 0-1 | X | | - | - | - | - | - | - | - | . <u>-</u> | 18,300 |
| | 11 | 2-3 | X | | - | - | - | - | - | - | | 1 | 14,400 |
| | . h | 4-5 | X | | - | - | - | | - | - | - | т. Пара | 6,590 |
| | II | 6-7 | X | | _ | - | - | - | - | - | | - | 2,210 |
| | IJ | 9-10 | Х | | - | - | - | - | - | - | - | - | 1,470 |
| | u | 14-15 | Х | | - | - | - | - | - | - | - | - | 986 |
| | 11 | 19-20 | Х | | - | - | - | - | - | | - | - | 1,020 |
| | li | 24-25 | X | | - | - | | - | - | - | - | - | 719 |
| | 11 | 29-30 | X | | - | - | - | - | - | - | - | - | 405 |
| | 11 | 39-40 | Х | | - | - | - | - | - | - | - | - | 258 |

Table 1COG Operating LLC.Myox 31-13 Well SiteEddy County, New Mexico

| Sample | Sample | Sample | Soil | Status | 1 | FPH (mg/k | g) | Benzene | Toluene | Ethlybenzene | Xylene | Total BTEX | Chloride |
|--------|-----------|------------|---------|---------|---------------------------|-----------|------------------------|---------|---------|--------------|---------|--------------------------------------------------------------------------------------------------|----------|
| ID | Date | Depth (ft) | In-Situ | Removed | GRO | DRO | Total | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| AH-4 | 3/7/2012 | . 0-1 | X | | <2.00 | <50.0 | <50.0 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 16,000 |
| | H | 1-1.5 | X | | ، ۱۹۰۰ - ۲۰۰۰ - این ۱۹ | | | | | | - | | 17,600 |
| | U | 2-2.5 | X | | - | 9 | | | | | | | 15,700 |
| | 11 | 3-3.5 | X | | - | | φ 5 5 - ρειση ζ. τ. | - | | | | 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 12,600 |
| | 11 | 4-4.5 | X | | | - | i a c | 4 | | | | | 10,300 |
| | i) | 5-5.5 | X | | - | - | | | | | - | | 2,580 |
| BH-2 | 4/16/2012 | 0-1 | X | | 4 | | | | | | | 1 1 | 2,910 |
| | 11 | 2-3 | X | | | - | - , , , | - | - | | - | - | 5,620 |
| | 11 | 4-5 | X | | | _ | | | ÷ | | | | 7,450 |
| | 11 | 6-7 | X | Ť. | - | _ | - | - | - | - | | - | 1,280 |
| | n | 9-10 | Х | | - | - | - | - | - | - | - | - | 1,740 |
| | 15 | 14-15 | X | | - | - | - | - | - | - | - | - | 743 |
| | li | 19-20 | Х | | - | - | - | - | - | - | - | - | 991 |
| | 11 | 24-25 | X | | - | - | - | - | - | - | - | - | 827 |
| | n | 29-30 | Х | | - | - | - | - | - | - | - | - | 319 |
| | El . | 39-40 | Х | | - | - | - | - | - | - | - | - | 177 |

Table 1COG Operating LLC.Myox 31-13 Well SiteEddy County, New Mexico

| Sample | Sample | Sample | Soil | Status | | ГРН (mg/k | g) | Benzene | Toluene | Ethlybenzene | Xylene | Total | Chloride |
|-------------|-----------|------------|---------|---------|---------------|-----------|--------------|---------|---------|--------------|---------|------------|----------|
| ID | Date | Depth (ft) | In-Situ | Removed | GRO | DRO | Total | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| AH-5 | 3/7/2012 | . 0-1 | X | | <2.00 | <50.0 | <50.0 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 12,700 |
| | U | 1-1.5 | X | | - | | | | | | - | | 14,800 |
| | H | 2-2.5 | X | | | - | | | | | | | 14,800 |
| | H | 3-3.5 | Χ. | | هه . به رو | - | | | | | | | 9,350 |
| 2 | të. | 4-4.5 | X | | | | | | | | | | 7,230 |
| | i s | 5-5.5 | X | | ÷ | | _^^ ^ | - 0, | | | | | 9,830 |
| BH-3 | 4/16/2012 | 0-1 | X | | | | | | | | | | 9,360 |
| | 13 | 2-3 | X | | | | - | | - | | - |). 4 | 13,900 |
| | 11 | 4-5 | X | | | | - | | | | - | 4 - | 10,400 |
| | 11 | 6-7 | X | | - | - | - | - | - | - | - | - | 922 |
| And and and | U | 9-10 | Х | | - | - | - | - | - | - | - | - | 1,430 |
| | U | 14-15 | X | | - | - | | - | - | - | - | - | 1,170 |
| | 11 | 19-20 | Х | | - | - | - | - | - | - | - | - | 1,180 |
| | 13 | 24-25 | X | | - | | - | - | - | - | - | - | 1,100 |
| | H | 29-30 | X | | - | - | - | - | - | - | - | - | 587 |
| | 19 | 39-40 | Х | | - | - | - | - | - | - | - | - | 304 |

Table 1

COG Operating LLC.

Myox 31-13 Well Site

Eddy County, New Mexico

| Sample | Sample | Sample | Soil | Status | - | TPH (mg/k | g) | Benzene | Toluene | Ethlybenzene | Xylene | Total | Chloride |
|--------|-----------|------------|---------|----------|----------|-----------|--------------------------------------------------------------|---------|---------|------------------------------------------------|---------|------------------------------|----------|
| ID | Date | Depth (ft) | In-Situ | Removed | GRO | DRO | Total | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| AH-6 | 3/7/2012 | 0-1 | X | | <2.00 | <50.0 | <50.0 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | 14,600 |
| | 11 | 1-1.5 | X | 4 4 | | | | | | ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲. ۲ | | ۲. ۲. بر ایر ۲. بر ایر | 14,000 |
| | 11 | 2-2.5 | X | 4.45 | | | 4. 0.3 1.5 1.5 | | - | | - | | 10,200 |
| | 15 | 3-3.5 | Χ. | | | | | | | | | | 5,570 |
| | II | 4-4.5 | Х | | | - | | | | | - | | 696 |
| | 11 | 5-5.5 | X | | - | | | | - | | - | | 1,190 |
| BH-4 | 4/16/2012 | 0-1 | X | - D | | | - | | | | - 4 | | 17,600 |
| | 11 | 2-3 | X | | | - | | - | - | | - | a | 13,200 |
| | IL | 4-5 | X | | -, | | - | ÷ | | 3 | - | 1 | 1,560 |
| | II | 6-7 | X | 5 | | | 1994 1997 1997 1997 1997 1997 1997 1997 | | | | - | - | 2,380 |
| | п | 9-10 | X | | <u> </u> | - | - | - | - | - | - | - | 1,110 |
| | 11 | 14-15 | X | | - | - | - | - | - | - | - | - | 1,050 |
| | 11 | 19-20 | X | | - | - | - | - | - | - | - | - | 849 |
| | 11 | 24-25 | Х | | - | - | - | | - | - | - | - | 679 |
| | U | 29-30 | Х | | - | - | - | - | - | - | - | - | 506 |
| | " | 39-40 | Х | | - | - | - | - | - | - | - | - | 288 |



Table 1

COG Operating LLC. Myox 31-13 Well Site Eddy County, New Mexico

| Sample | Sample | Sample | Soil | Status | - | TPH (mg/k | g) | Benzene | Toluene | Ethlybenzene | Xylene | Total | Chloride |
|--------|----------|------------|---------|---------|-------|-----------|-------|---------|---------|--------------|---------|---------|----------|
| ID | Date | Depth (ft) | In-Situ | Removed | GRO | DRO | Total | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) | (mg/kg) |
| AH-7 | 3/7/2012 | 0-1 | Х | | <2.00 | <50.0 | <50.0 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <200 |
| | u | 1-1.5 | Х | | - | - | - | - | - | _ | - | - | <200 |
| | u | 2-2.5 | Х | | - | - | - | - | - | - | - | - | <200 |
| | п | 3-3.5 | Х | | - | - | - | - | - | _ | - | - | <200 |
| | u | 4-4.5 | Х | | - | - | - | - | - | - | - | - | <200 |
| | U | 5-5.5 | Х | | - | - | - | - | - | _ | - | - | 330 |

(-) Not Analyzed

Proposed Excavation Depths

Liner Installation and Depth

COG Operating LLC Myox 31-13 Eddy County, New Mexico Assessment Date: March 24, 2011



View north - Near fire and source of flowline rupture



View east - Terrain of impacted area

Appendix A



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| District 1 1625 N. French Dr., Hobbs, NM 88240 District II 201 W. Gamet Augure Asteria NM 88210 | State of Minerals | New Mex | lico Il Resources | | Form C-141 Revised October 10, 2003 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV | il Conse 220 Sout | rvation Div h St. Franc | vision is Dr. | | Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back |
| 1220 S. St. Francis Dr., Santa Fe, NM 87505 | Santa F | e, NM 875 | 505 | | side of form |
| Release Not | ificatio | n and Co | orrective A | ction | an na an ta bha an an an an ann ann ann ann ann ann a |
| | | OPERA' | ΓOR | 🖂 In | itial Report 🔲 Final Repor |
| Name of Company COG OPERATING LLC | [| Contact | P | at Ellis | |
| Address 550 W. Texas, Suite 100, Midland, TX 7 | 9701 | Telephone l | No. 432- | 230-0077 | |
| Facility Name Myox 31-13 | | Facility Typ | e Wel | llocation | |
| Surface Owner State Miner | ral Owner | ··· | | Leas | e No. (API#) 30-015-37497 |
| D.I | CATIO | N OF REI | LEASE | | |
| Unit LetterSectionTownshipRange $SE = P$ 3125S28E | he North | /South Line | Feet from the | East/West Lin | e County Eddy |
| Latitude | 32 04.821 | Longit | ade 104 07.083 | <u> </u> | |
| N | ATURE | OF REL | EASE | | |
| Type of Release Produced water | | Volume of | Release 20bbls | Volum | e Recovered None |
| | | 02/10/2012 | | 02/10/ | 2012 6:00 p.m. |
| Was Immediate Notice Given? | x Required | If YES, To | Whom? | | |
| By Whom? | | Date and H | lour | L _ 187-4 | |
| Yes X No | | 11 165, 90 | nume impacting t | ne watercourse. | , |
| If a Watercourse was Impacted, Describe Fully.* | | <u>. </u> | | | |
| Describe Cause of Problem and Remedial Action Taken.* | | · · · · · · · · · · · · · · · · · · · | | | |
| Heat from a gas fire melted a nearby poly produced water line | causing the | release. The | bad section of the | e poly line has b | een replaced. |
| Describe Area Affected and Cleanup Action Taken.4 | | | | | |
| Initially roughly 20bbls were released from the poly line and we pasture area off of the well location. Tetra Tech will sample the a remediation work plan to the NMOCD for approval prior to | we were una he spill site any signific | ble to recover area to deline ant remediation | any fluid with a ate any possible con work. | vacuum truck. S ontamination fro | The spill area is located in the om the release and we will present |
| I hereby certify that the information given above is true and co regulations all operators are required to report and/or file certa public health or the environment. The acceptance of a C-141 is should their operations have failed to adequately investigate ar or the environment. In addition, NMOCD acceptance of a C-1 federal, state, or local laws and/or regulations. | emplete to the in release noreport by the report by the remediat 41 report d | he best of my otifications an e NMOCD me e contaminationes not relieve | knowledge and us d perform correct arked as "Final Ru on that pose a three the operator of r | nderstand that pa live actions for a sport does not a st to ground wa esponsibility for | ursuant to NMOCD rules and eleases which may endanger elieve the operator of liability ter, surface water, human health compliance with any other |
| Signature: | | | OIL CONS | ERVATIO | N DIVISION |
| Printed Name: Sest-Rosso | | Approved by I | District Superviso | f: | |
| Title: HSE Coordinator | | Approval Date | | Expiratio | n Date: |
| E-mail Address: jrusso@conchoresources.com | | Conditions of | Approval: | | Attached |
| Date: 02/23/2012 Phone: 432-212-2399 | | | | | |

^o Attach Additional Sheets If Necessary

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Water Well Data Average Depth to Groundwater (ft) COG - Myox 31-13 Eddy County, New Mexico

| 24 | Sout | 1 | 27 East | t | | | 24 | Sout | th | 1 | 28 Ea | st | | | | | 24 \$ | South | 29 |) East | _ |
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23 24 29 28 27 26 25 30 29 28 27 26 40 25 32 33 34 35 36 31 32 33 34 35 36 17 16 15 14 13 16 15 14 13 20 21 22 23 24 96 33<!--</td--><td>24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 8 26 9 10 11 12 27 17 16 15 14 13 17 16 15 14 13 17 16 15 14 13 14 22 28 27 26 25 30 29 28 27 26 25 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32<td>24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 8 26 9 10 11 12 27 16 15 14 13 17 16 15 14 13 17 16 15 14 13 18 17 16 15 14 13 18 17 16 15 14 13 19 20 21 22 23 24 20 21 22 23 24 30 29 28 27 26 40 25 31 32 33 34 35 36 31 32 3 34 35 36 25 South 27 East 25 South 28 East 1 16 5 14 13 12 1 1 1 12 1 1 11 12 12</td><td>24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 0 4 30 3 2 55 1 60 70 5 30 4 30 3 2 55 1 60 77 73 160 17 10 11 12 73 140 17 16 15 14 13 13 12 23 24 10 12 22 23 24 10 11 12 73 160 17 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24 24 24 24 24 24 24 24 24</td><td>24 South 27 East 24 South 28 East 24 South 28 East 24 South 29 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 6 7 8 60 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 13 14 13 14 13 14 13 14 13 14 13 14 13 16 15 14 13 16 16 16 16 16 16 16 16 16 16 16</td></td></td> | 24 South 27 East 24 South 28 Ea 5 4 3 2 1 6 70 5 30 4 30 3 2 8 26 9 10 11 12 7 8 50 9 10 11 20 17 16 15 14 13 31 17 16 15 14 20 21 22 23 24 19 20 21 22 23 29 28 27 26 25 31 32 33 34 35 20 21 22 23 24 19 20 21 22 23 30 29 28 27 26 25 31 32 33 34 35 5 4 3 2 1 18 17 16 15 14 17 16 | 24 South 27 East 24 South 28 East 28 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 8 26 9 10 11 12 27 1 16 15 14 13 17 16 15 14 13 17 16 15 14 13 17 16 15 14 13 17 16 15 14 13 18 17 16 15 14 12 29 18 17 16 15 14 12 18 17 16 15 14 13 11 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 26 27 26 4 35 3 2 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36< | 24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 8 26 9 10 11 12 7 8 50 9 10 11 12 73 17 16 15 14 13 14 17 16 15 14 13 20 21 22 23 24 19 20 21 22 23 24 29 28 27 26 25 30 29 28 27 26 40 25 32 33 34 35 36 31 32 33 34 35 36 17 16 15 14 13 16 15 14 13 20 21 22 23 24 96 33 </td <td>24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 8 26 9 10 11 12 27 17 16 15 14 13 17 16 15 14 13 17 16 15 14 13 14 22 28 27 26 25 30 29 28 27 26 25 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32<td>24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 8 26 9 10 11 12 27 16 15 14 13 17 16 15 14 13 17 16 15 14 13 18 17 16 15 14 13 18 17 16 15 14 13 19 20 21 22 23 24 20 21 22 23 24 30 29 28 27 26 40 25 31 32 33 34 35 36 31 32 3 34 35 36 25 South 27 East 25 South 28 East 1 16 5 14 13 12 1 1 1 12 1 1 11 12 12</td><td>24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 0 4 30 3 2 55 1 60 70 5 30 4 30 3 2 55 1 60 77 73 160 17 10 11 12 73 140 17 16 15 14 13 13 12 23 24 10 12 22 23 24 10 11 12 73 160 17 16 15 14 13 13 13 14 13 19 20 21 22 23 24 19 30 29 28 27 26 40 25 31 31 32 33 34 35 36 31 31 32 33 34 35 36 31 31 32 33 34</td><td>24 South 27 East 24 South 28 East 24 S 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 17 16 15 14 13 18 17 16 15 14 13 19 20 21 22 23 24 9 18 17 16 15 14 13 13 32 33 34 35 36 29 31 32 33 34 35 36 36 29 23</td><td>24 South 27 East 24 South 28 East 24 South 28 East 24 South 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 7 8 50 9 10 11 12 7 8 9 10 11 12 7 8 9 160 17 16 15 14 13 14 13 14 13 17 16 15 14 13 14 13 14 12 20 21 22 23 24 19 20 21 22 23 24 19 20 21 22 23 24 19 20 21 22 23 24 10 160 18 17 18 12 13 30 29 28 27 26 40 25 30 29 28 27 26 40 25 30 29 28 27 26 25 30 31</td><td>24 South 27 East 24 South 28 East 6 5 4 3 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 13 14 13 14 13 14 13 14 13 14 13 12 13 12 23 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24</td><td>24 South 27 East 24 South 28 East 24 South 28 East 24 South 29 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 6 7 8 60 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 13 14 13 14 13 14 13 14 13 14 13 14 13 16 15 14 13 16 16 16 16 16 16 16 16 16 16 16</td></td> | 24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 8 26 9 10 11 12 27 17 16 15 14 13 17 16 15 14 13 17 16 15 14 13 14 22 28 27 26 25 30 29 28 27 26 25 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 33 34 35 36 31 32 <td>24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 8 26 9 10 11 12 27 16 15 14 13 17 16 15 14 13 17 16 15 14 13 18 17 16 15 14 13 18 17 16 15 14 13 19 20 21 22 23 24 20 21 22 23 24 30 29 28 27 26 40 25 31 32 33 34 35 36 31 32 3 34 35 36 25 South 27 East 25 South 28 East 1 16 5 14 13 12 1 1 1 12 1 1 11 12 12</td> <td>24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 0 4 30 3 2 55 1 60 70 5 30 4 30 3 2 55 1 60 77 73 160 17 10 11 12 73 140 17 16 15 14 13 13 12 23 24 10 12 22 23 24 10 11 12 73 160 17 16 15 14 13 13 13 14 13 19 20 21 22 23 24 19 30 29 28 27 26 40 25 31 31 32 33 34 35 36 31 31 32 33 34 35 36 31 31 32 33 34</td> <td>24 South 27 East 24 South 28 East 24 S 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 17 16 15 14 13 18 17 16 15 14 13 19 20 21 22 23 24 9 18 17 16 15 14 13 13 32 33 34 35 36 29 31 32 33 34 35 36 36 29 23</td> <td>24 South 27 East 24 South 28 East 24 South 28 East 24 South 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 7 8 50 9 10 11 12 7 8 9 10 11 12 7 8 9 160 17 16 15 14 13 14 13 14 13 17 16 15 14 13 14 13 14 12 20 21 22 23 24 19 20 21 22 23 24 19 20 21 22 23 24 19 20 21 22 23 24 10 160 18 17 18 12 13 30 29 28 27 26 40 25 30 29 28 27 26 40 25 30 29 28 27 26 25 30 31</td> <td>24 South 27 East 24 South 28 East 6 5 4 3 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 13 14 13 14 13 14 13 14 13 14 13 12 13 12 23 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24</td> <td>24 South 27 East 24 South 28 East 24 South 28 East 24 South 29 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 6 7 8 60 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 13 14 13 14 13 14 13 14 13 14 13 14 13 16 15 14 13 16 16 16 16 16 16 16 16 16 16 16</td> | 24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 8 26 9 10 11 12 27 16 15 14 13 17 16 15 14 13 17 16 15 14 13 18 17 16 15 14 13 18 17 16 15 14 13 19 20 21 22 23 24 20 21 22 23 24 30 29 28 27 26 40 25 31 32 33 34 35 36 31 32 3 34 35 36 25 South 27 East 25 South 28 East 1 16 5 14 13 12 1 1 1 12 1 1 11 12 12 | 24 South 27 East 24 South 28 East 5 4 3 2 1 6 70 5 0 4 30 3 2 55 1 60 70 5 30 4 30 3 2 55 1 60 77 73 160 17 10 11 12 73 140 17 16 15 14 13 13 12 23 24 10 12 22 23 24 10 11 12 73 160 17 16 15 14 13 13 13 14 13 19 20 21 22 23 24 19 30 29 28 27 26 40 25 31 31 32 33 34 35 36 31 31 32 33 34 35 36 31 31 32 33 34 | 24 South 27 East 24 South 28 East 24 S 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 50 9 10 11 12 7 8 17 16 15 14 13 18 17 16 15 14 13 19 20 21 22 23 24 9 18 17 16 15 14 13 13 32 33 34 35 36 29 31 32 33 34 35 36 36 29 23 | 24 South 27 East 24 South 28 East 24 South 28 East 24 South 5 4 3 2 1 6 70 5 30 4 30 3 2 55 1 60 7 8 50 9 10 11 12 7 8 9 10 11 12 7 8 9 160 17 16 15 14 13 14 13 14 13 17 16 15 14 13 14 13 14 12 20 21 22 23 24 19 20 21 22 23 24 19 20 21 22 23 24 19 20 21 22 23 24 10 160 18 17 18 12 13 30 29 28 27 26 40 25 30 29 28 27 26 40 25 30 29 28 27 26 25 30 31 | 24 South 27 East 24 South 28 East 6 5 4 3 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 13 14 13 14 13 14 13 14 13 14 13 12 13 12 23 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 24 | 24 South 27 East 24 South 28 East 24 South 28 East 24 South 29 East 5 4 3 2 1 6 70 5 30 4 30 3 2 55 6 7 8 60 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 7 8 9 10 11 12 13 14 13 14 13 14 13 14 13 14 13 14 13 16 15 14 13 16 16 16 16 16 16 16 16 16 16 16 |

New Mexico State Engineers Well Reports

USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

Site Location



IO MILES



New Mexico Office of the State Engineer Water Column/Average Depth to Water

| (A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) | (R=POD been rep O=orpha C=the file closed) | has laced, ned, e is | (quarter | 's ai 's ai | re 1 re s | =N ma | W 2= | NE 3= o large | SW 4 | =SE) (NAD83 UTM | f in meters) | | (In feet) | |
|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------|----------|----------------|--------------|----------|------|------------------|------|--------------------|-------------------------|---------|-----------|-------|
| , | , | POD | | Q | Q | Q | | - | | | | Donth D | onth W | tor |
| POD Number | Code | Subbasin | County | 64 | 16 | 4 | Sec | Tws | Rng | х | Y | Well W | aterCol | umn |
| <u>C 01668</u> | | | ED | | 3 | 3 | 12 | 26S | 28E | 589957 | 3546554* | 250 | 100 | 150 |
| <u>C 02160</u> | | | ED | 4 | 1 | 2 | 14 | 26S | 28E | 589243 | 3546044* | 300 | 120 | 180 |
| <u>C 02160 S</u> | | | ED | 1 | 1 | 2 | 14 | 26S | 28E | 589043 | 3546244* | 300 | 120 | 180 |
| C 02160 S2 | | | ED | 1 | 1 | 2 | 14 | 26S | 28E | 589043 | 3546244* | 300 | 120 | 180 |
| <u>C 02160 S3</u> | | | ED | 2 | 2 | 1 | 14 | 26S | 28E | 588834 | 3546241* | 300 | 120 | 180 |
| <u>C 02160 S4</u> | | | ED | 2 | 2 | 1 | 14 | 26S | 28E | 588834 | 3546241* | 300 | 120 | 180 |
| C 02160 S5 | | | ED | 1 | 1 | 1 | 14 | 26S | 28E | 588225 | 3546237* | 300 | 120 | 180 |
| <u>C 02160 S6</u> | | | ED | 3 | 3 | 1 | 14 | 26S | 28E | 588232 | 3545635* | 300 | 120 | 180 |
| <u>C 02160 S7</u> | | | ED | 3 | 3 | 1 | 22 | 26S | 28E | 586638 | 3543998* | 300 | 120 | 180 |
| C 02160 S8 | | | ED | 2 | 3 | 3 | 12 | 26S | 28E | 590056 | 3546653* | 200 | 120 | 80 |
| <u>C 02160 S9</u> | | | ED | 3 | 3 | 2 | 02 | 26S | 28E | 589020 | 3548868* | 300 | 120 | 180 |
| <u>C 02477</u> | | CUB | ED | | 1 | 1 | 03 | 26S | 28E | 586687 | 3549347* | 150 | | |
| <u>C 02478</u> | | CUB | ED | | 2 | 1 | 05 | 26S | 28E | 583848 | 3549325* | 100 | | |
| <u>C 02479</u> | | CUB | ED | | 4 | 4 | 10 | 26S | 28E | 587909 | 3546534* | 200 | | |
| <u>C 02480</u> | | CUB | ED | | 4 | 4 | 10 | 26S | 28E | 587909 | 3546534* | 150 | | |
| <u>C 02481</u> | | CUB | ED | | 1 | 1 | 14 | 26S | 28E | 588326 | 3546138* | 200 | | |
| <u>C_02894</u> | | С | ED | 2 | 2 | 3 | 12 | 26S | 28E | 590458 | 3547061* | 240 | | |
| <u>C_02924</u> | | C | ED | 1 | 3 | 2 | 11 | 26S | 28E | 589032 | 3547451* | | | |
| | | | | | | | | | | Avera | ige Depth to Minimum | Water: | 118 feet | 1 |
| | | | | | | | | | | | Maximum | Depth: | 120 feet | t |
| Record Count: 18 | | | | | | | | | | | , | | | • • • |
| PLSS Search: | | | | | | | | | | | | | | |
| Township: 26S | Range: 2 | 28E | | | | | | | | | | | | |
| *UTM location was derived fro | m PLSS - : | see Help | | | | | | | | | | | | |

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

5/30/12 12:08 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer Water Column/Average Depth to Water

| (A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) | (R=POD been rep O=orpha C=the file closed) | has laced, ned, e is | (quarter (quarter | rs ai rs ai | re 1 re s | =N' mai | W 2= llest t | NE 3= o large | :SW 4 est) | ≂SE) (NAD83 UTN | / in meters) | | (In feet) | |
|-------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|------------------------------------|--------------------------------|----------------|-----------------|------------|------------------|-------------------|------------------|------------------------------------|------------------------------------------------|-----------------------------------------|-------------------------------------|------------|
| POD Number | Code | POD Subbasin | County | Q 64 | Q 16 | Q 4 | Sec | Tws | Rng | x | Ŷ | Depth D Well W | epth Wat /aterColu | er Imn |
| <u>C 02218</u> | | CUB | ED | 4 | 1 | 4 | 07 | 26S | 27E | 573039 | 3546725* | 35 | | |
| <u>C 02219</u> | | CUB | ED | 4 | 4 | 4 | 05 | 26S | 27E | 575033 | 3547948* | 35 | | |
| <u>C 02474</u> | | CUB | ED | | 4 | 3 | 02 | 26S | 27E | 578964 | 3548029* | 100 | | |
| <u>C 02475</u> | | CUB | ED | | 2 | 4 | 13 | 26S | 27E | 581450 | 3545252* | 100 | | |
| <u>C 02476</u> | | CUB | ED | | 4 | 1 | 24 | 26S | 27E | 580653 | 3544032* | 150 | | |
| <u>C 02930</u> | | С | ED | 2 | 3 | 4 | 22 | 26S | 27E | 577938 Avera | 3543284* age Depth to Minimun Maximun | 100 o Water: n Depth: n Depth: | 50 50 feet 50 feet 50 feet | 50 |
| Record Count: 6 | | | | | | | | | | | | | | |
| PLSS Search: | | | | | | | | | | | | | | |
| Township: 26S | Range: 2 | 27E | | | | | | | | | | | | |
| *UTM location was derived fi | om PLSS - : | see Help | | | | | | | | | | | | |
| The data is furnished by the NMOS implied, concerning the accuracy, co | E/ISC and is mpleteness, | s accepted by reliability, usat | the recipie pility, or suil | nt w Iabil | ith t ity fo | he brai | expre: ny par | ssed u ticular | nderst purpos | anding that the se of the data. | OSE/ISC m | ake no wa | rranties, exp | pressed or |
| 5/30/12 12:08 PM | | | | | | | | | | | WA | TER COL | UMN/ AVI | ERAGE |

New Mexico Office of the State Engineer Water Column/Average Depth to Water

| (A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) | (R=POD h been repla O=orphan C=the file closed) | nas aced, ed, is | (quarter (quarter | s ar s ar | re 1 re s | =N ma | W 2= | NE 3= o large | SW 4 | =SE) (NAD83 UTN | / in meters) | | (In feet) | |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------------------|----------------------|--------------|--------------|----------|------|------------------|------|--------------------|--------------------------|---------------|-----------|-----|
| POD Number | Code | POD Subbasin | Country | Q | Q 16 | Q 4 | Sec | Twe | Bng | x | v | Depth De | epth Wat | ter |
| | Code | Subbasiii | County | 04 | | - | 360 | 1 11/3 | nng | | | wen w | | |
| <u>C_01278</u> | | С | ED | | 4 | 3 | 28 | 25S | 28E | 585470 | 3551338* | 205 | 90 | 115 |
| <u>C 01411</u> | | С | ED | 4 | 4 | 2 | 04 | 25S | 28E | 586289 | 3558522* | 69 | 35 | 34 |
| <u>C 01453</u> | | С | ED | | 1 | 2 | 26 | 25S | 28E | 589096 | 3552612* | 70 | 40 | 30 |
| <u>C 01522</u> | | С | ED | | | 1 | 22 | 25S | 28E | 586843 | 3554004* | 150 | | |
| C_01573 POD1 | | С | ED | 3 | 1 | 4 | 20 | 25S | 28E | 584144 | 3553361 | 176 | 96 | 80 |
| <u>C 02668</u> | | С | ED | 2 | 1 | 2 | 09 | 25S | 28E | 585890 | 3557525* | 150 | | |
| C 03263 POD1 | | | ED | 1 | 1 | 1 | 07 | 258 | 28E | 581628 Avera | 3557501* age Depth to | 133 Water: | 65 feet | |
| | | | | | | | | | | | Minimum | Depth: | 35 feet | |
| | | | | | | | | | | | Maximum | Depth: | 96 feet | |
| Record Count: 7 | • | | | | | | | • | · • | · | | ••• | | |
| PLSS Search: | | | | | | | | | | | | | | |
| Township: 25S | Range: 2 | 8E | | | | | | | | | | | | |
| *UTM location was derived f | rom PLSS - s | ee Help | | | | | | | | | | | | |

5/30/12 12:06 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

| (A CLW##### in the | (B=POD | has | | | | | <u> </u> | | 3 | | | | | |
|------------------------------------------------------------------------------------------|-----------------------|------------------------|----------|------|-----------|----|----------|---------|-------|-------------|--------------|-------------------|---------------------|-------------|
| POD suffix indicates the POD has been replaced & no longer serves a water right | O=orpha C=the file | laced, ned, e is | (quarter | s ar | e 1= | =N | W 2= | NE 3= | SW 4= | SE) | (in motors) | | (in fact) | |
| nie.) | ciosed) | BOD | (quarter | ১ না | c 31 ∩ | | nest t | u large | -50 | (11/003 011 | n in meters) | | (in leet) | _ |
| POD Number | Code | Subbasin | County | 64 | 16 | 4 | Sec | Tws | Rng | х | Y | Depth D Well W | epth Wa /aterCol | iter umr |
| <u>C 02588</u> | | С | ED | 3 | 4 | 3 | 33 | 25S | 27E | 575645 | 3549575* | 81 | 19 | 62 |
| C 03261 POD1 | | | ED | 3 | 2 | 1 | 20 | 25S | 27E | 574007 | 3554006* | 351 | | |
| C 03262 POD1 | | | ED | 2 | 1 | 2 | 22 | 25S | 27E | 577837 | 3554244* | 75 | • | |
| | | | | | | | | | | Avera | age Depth to | Water: | 19 feet | : |
| | | | | | | | | | | | Minimum | Depth: | 19 feet | t |
| | | | | | | | | | | | Maximum | Depth: | 19 feet | t |
| Record Count: 3 | , | <i></i> | | | | | • | ••• | • • | | | • • · • | · ·· | , . |
| PLSS Search: | | | | | | | | | | | | | | |
| Township: 25S | Range: 2 | 27E | | | | | | | | | | | | |

5/30/12 12:07 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Appendix C

Summary Report

Ike Tavarez Tetra Tech 1910 N. Big Spring Street Midland, TX 79705

Report Date: March 16, 2012

Work Order: 12030929

Project Location:Eddy Co., NMProject Name:COG/Myox 31-13 Well SiteProject Number:114-6401312

| | | | Date | Time | Date |
|--------|-------------|--------|-----------------------|-------|----------------|
| Sample | Description | Matrix | Taken | Taken | Received |
| 290984 | AH-1 0-1' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290985 | AH-1 1-1.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290986 | AH-1 2-2.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290987 | AH-1 3-3.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290988 | AH-1 4-4.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290989 | AH-1 5-5.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290990 | AH-2 0-1' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290991 | AH-2 1-1.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290992 | AH-2 2-2.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290993 | AH-2 3-3.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290994 | AH-2 4-4.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290995 | AH-2 5-5.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290996 | AH-3 0-1' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290997 | AH-3 1-1.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290998 | AH-3 2-2.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 290999 | AH-3 3-3.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291000 | AH-3 4-4.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291001 | AH-3 5-5.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291002 | AH-4 0-1' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291003 | AH-4 1-1.5' | soil | 2012-03-07 | 00:00 | 2012 - 03 - 09 |
| 291004 | AH-4 2-2.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291005 | AH-4 3-3.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291006 | AH-4 4-4.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291007 | AH-4 5-5.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291008 | AH-5 0-1' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291009 | AH-5 1-1.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291010 | AH-5 2-2.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291011 | AH-5 3-3.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291012 | AH-5 4-4.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291013 | AH-5 5-5.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |

Report Date: March 16, 2012

Work Order: 12030929

Page Number: 2 of 7

| | | | Date | Time | Date |
|--------|-------------|--------|----------------|-------|------------|
| Sample | Description | Matrix | Taken | Taken | Received |
| 291014 | AH-6 0-1' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291015 | AH-6 1-1.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291016 | AH-6 2-2.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291017 | AH-6 3-3.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291018 | AH-6 4-4.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291019 | AH-6 5-5.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291020 | AH-7 0-1' | soil | 2012 - 03 - 07 | 00:00 | 2012-03-09 |
| 291021 | AH-7 1-1.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291022 | AH-7 2-2.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291023 | AH-7 3-3.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291024 | AH-7 4-4.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |
| 291025 | AH-7 5-5.5' | soil | 2012-03-07 | 00:00 | 2012-03-09 |

| | BTEX | | | | TPH DRO - NEW | TPH GRO |
|---------------------|----------|----------|--------------|----------|---------------|---------|
| | Benzene | Toluene | Ethylbenzene | Xylene | DRO | GRO |
| Sample - Field Code | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) | (mg/Kg) |
| 290984 - AH-1 0-1' | < 0.0200 | < 0.0200 | < 0.0200 | < 0.0200 | <50.0 | <2.00 |
| 290990 - AH-2 0-1' | < 0.0200 | < 0.0200 | < 0.0200 | < 0.0200 | <50.0 | <2.00 |
| 290996 - AH-3 0-1' | < 0.0200 | < 0.0200 | < 0.0200 | < 0.0200 | <50.0 | <2.00 |
| 291002 - AH-4 0-1' | < 0.0200 | < 0.0200 | < 0.0200 | < 0.0200 | <50.0 | <2.00 |
| 291008 - AH-5 0-1' | < 0.0200 | < 0.0200 | < 0.0200 | <0.0200 | <50.0 | <2.00 |
| 291014 - AH-6 0-1' | < 0.0200 | < 0.0200 | < 0.0200 | <0.0200 | <50.0 | <2.00 |
| 291020 - AH-7 0-1' | < 0.0200 | < 0.0200 | < 0.0200 | < 0.0200 | <50.0 | <2.00 |

Sample: 290984 - AH-1 0-1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <200 | mg/Kg | 4 |

Sample: 290985 - AH-1 1-1.5'

.

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | 207 | mg/Kg | 4 |

Sample: 290986 - AH-1 2-2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|----|
| Chloride | | <200 | mg/Kg | 4 |

Sample: 290987 - AH-1 3-3.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|---------------------|
| Chloride | | <200 | mg/Kg | 4 |

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| Report Date: March | h 16, 2012 | Work Order: 12030929 | Page | Number: 3 of 7 |
|--------------------|----------------------------------------|-------------------------|-------|---------------------|
| Sample: 290988 - | • AH-1 4-4.5' | | | |
| Param | Flag | Result | Units | \mathbf{RL} |
| Chloride | | <200 | mg/Kg | 4 |
| Sample: 290989 - | · AH-1 5-5.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | ······································ | <200 | mg/Kg | 4 |
| Sample: 290990 - | • AH-2 0-1' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 11800 | mg/Kg | 4 |
| Sample: 290991 - | AH-2 1-1.5' | | | |
| Paranı | Flag | Result | Units | RL |
| Chloride | | 10600 | mg/Kg | 4 |
| Sample: 290992 - | · AH-2 2-2.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 608 | mg/Kg | 4 |
| Sample: 290993 - | AH-2 3-3.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | <200 | mg/Kg | 4 |
| Sample: 290994 - | AH-2 4-4.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 218 | mg/Kg | 4 |
| Sample: 290995 - | AH-2 5-5.5' | | | |
| Param | Flag | Result | Units | \mathbf{RL} |
| Chloride | | <200 | mg/Kg | 4 |

| Report Date: March 1 | 6, 2012 | Work Order: 12030929 | Page 1 | Number: 4 of 7 | |
|----------------------|-------------|-------------------------|--------|---------------------|--|
| Sample: 290996 - A | .H-3 0-1' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 15700 | mg/Kg | 4 | |
| Sample: 290997 - A | .H-3 1-1.5' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | 0 | 13300 | mg/Kg | 4 | |
| Sample: 290998 - A | .H-3 2-2.5' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 11700 | mg/Kg | 4 | |
| Sample: 290999 - A | .H-3 3-3.5' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 11600 | mg/Kg | 4 | |
| Sample: 291000 - A | .H-3 4-4.5' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 8310 | mg/Kg | 4 | |
| Sample: 291001 - A | H-3 5-5.5' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 1280 | mg/Kg | 4 | |
| Sample: 291002 - A | .H-4 0-1' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | 16000 | mg/Kg | 4 | |
| Sample: 291003 - A | H-4 1-1.5' | | | | |
| Param | Flag | Result | Units | \mathbf{RL} | |
| Chloride | V | 17600 | mg/Kg | 4 | |

| Report Date: March 16, 2012 | | Work Order: 12030929 | Page | Number: 5 of 7 |
|-----------------------------|--------------------------|-------------------------|-------|---------------------|
| Sample: 291004 · | - AH-4 2-2.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 15700 | mg/Kg | 4 |
| Sample: 291005 - | - AH-4 3-3.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 12600 | mg/Kg | 4 |
| Sample: 291006 · | - AH-4 4-4.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 10300 | mg/Kg | 4 |
| Sample: 291007 | - AH-4 5-5.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 2580 | mg/Kg | 4 |
| Sample: 291008 | - AH-5 0-1' | | | |
| Param | $\mathbf{F}\mathbf{lag}$ | Result | Units | RL |
| Chloride | | 12700 | mg/Kg | 4 |
| Sample: 291009 - | - AH-5 1-1.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 14800 | mg/Kg | 4 |
| Sample: 291010 - | - AH-5 2-2.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 14800 | mg/Kg | 4 |
| Sample: 291011 - | - AH-5 3-3.5' | | | |
| Param | Flag | Result | Units | \mathbf{RL} |
| Chloride | 0 | 9350 | mg/Kg | 4 |

| Report Date: March 16, 2012 | | Work Order: 12030929 | Page | Number: 6 of 7 |
|-----------------------------|-----------------------|-------------------------|-------|---------------------|
| Sample: 291012 - | - AH-5 4-4.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | 0 | 7230 | mg/Kg | 4 |
| Sample: 291013 - | - AH-5 5-5.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 9830 | mg/Kg | 4 |
| Sample: 291014 - | - AH-6 0-1' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 14600 | mg/Kg | 4 |
| Sample: 291015 - | - AH-6 1-1.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 14000 | mg/Kg | 4 |
| Sample: 291016 - | - AH-6 2-2.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 10200 | mg/Kg | 4 |
| Sample: 291017 - | • AH-6 3-3.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 5570 | mg/Kg | 4 |
| Sample: 291018 - | · AH-6 4-4.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 696 | mg/Kg | 4 |
| Sample: 291019 - | AH-6 5-5.5' | | | |
| Param | Flag | Result | Units | RL |
| Chloride | | 1190 | mg/Kg | 4 |

| Report Date: March 16, 2012 | | Work Order: 12030929 | Page | Page Number: 7 of 7 | |
|-----------------------------|---------------|----------------------|-------|---------------------|--|
| Sample: 291020 - AH-7 0-1' | | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | <200 | mg/Kg | 4 | |
| Sample: 291021 | - AH-7 1-1.5' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | <200 | mg/Kg | 4 | |
| Sample: 291022 - | - AH-7 2-2.5' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | <200 | mg/Kg | 4 | |
| Sample: 291023 - | - AH-7 3-3.5' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | <200 | mg/Kg | 4 | |
| Sample: 291024 - | - AH-7 4-4.5' | | | | |
| Param | Flag | Result | Units | RL | |
| Chloride | | <200 | mg/Kg | 4 | |
| Sample: 291025 - | - AH-7 5-5.5' | | | | |
| Param | Flag | Result | Units | \mathbf{RL} | |
| Chloride | | 330 | mg/Kg | 4 | |