

District I
1625 N French Dr Hobbs NM 88240
District II
811 S First St Artesia, NM 88210
District III
1000 Rio Brazos Road Aztec NM 87410
District IV
1220 S St Francis Dr Santa Fe NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St Francis Dr
Santa Fe NM 87505

Form C 144
Revised June 6 2013

For temporary pits below grade tanks and multi well fluid management pits submit to the appropriate NMOCD District Office
For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

15816

Pit, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

OIL CONS DIV DIST 3

- Type of action
- Below grade tank registration
 - Permit of a pit or proposed alternative method
 - Closure of a pit below grade tank or proposed alternative method
 - Modification to an existing permit/or registration
 - Closure plan only submitted for an existing permitted or non permitted pit below grade tank or proposed alternative method

JAN 12 2017

Instructions Please submit one application (Form C 144) per individual pit below grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water ground water or the environment Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules regulations or ordinances

1
Operator ConocoPhillips Company OGRID # 217817
Address P O Box 4289, Farmington, New Mexico 87499
Facility or well name YEAGER COM 1
API Number 30 045 24015 OCD Permit Number _____
U/L or Qtr/Qtr C Section 6 Township 30N Range 11W County San Juan
Center of Proposed Design Latitude 36 845587 N Longitude 108 034986 W NAD 1927 1983
Surface Owner Federal State Private Tribal Trust or Indian Allotment

2
 Pit Subsection F G or J of 19 15 17 11 NMAC
Temporary Drilling Workover
 Permanent Emergency Cavitation P&A Multi Well Fluid Management Low Chloride Drilling Fluid yes no
 Lined Unlined Liner type Thickness _____ mil LLDPE HDPE PVC Other _____
 String Reinforced
Liner Seams Welded Factory Other _____ Volume _____ bbl Dimensions L _____ x W _____ x D _____

3
 Below grade tank Subsection I of 19 15 17 11 NMAC
Volume Max 120 bbl Type of fluid Produced Water
Tank Construction material Metal
 Secondary containment with leak detection Visible sidewalls liner 6 inch lift and automatic overflow shut off
 Visible sidewalls and liner Visible sidewalls only Other _____
Liner type Thickness 45 mil HDPE PVC Other LLDPE

4
 Alternative Method
Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

5
Fencing Subsection D of 19 15 17 11 NMAC (Applies to permanent pits temporary pits and below grade tanks)
 Chain link, six feet in height two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence school hospital institution or church)
 Four foot height four strands of barbed wire evenly spaced between one and four feet
 Alternate Please specify 4 hog wire fence with a single strand of barbed wire on top

27

6

Netting Subsection E of 19 15 17 11 NMAC (*Applies to permanent pits and permanent open top tanks*)

- Screen Netting Other _____
- Monthly inspections (If netting or screening is not physically feasible)

7

Signs Subsection C of 19 15 17 11 NMAC

- 12 x 24 2 lettering providing Operator s name site location and emergency telephone numbers
- Signed in compliance with 19 15 16 8 NMAC

8

Variations and Exceptions

Justifications and/or demonstrations of equivalency are required Please refer to 19 15 17 NMAC for guidance

Please check a box if one or more of the following is requested if not leave blank

- Variance(s) Requests must be submitted to the appropriate division district for consideration of approval
- Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

9

Siting Criteria (regarding permitting) 19 15 17 10 NMAC

Instructions The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below Siting criteria does not apply to drying pads or above grade tanks

General siting

Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below grade tank.

- NM Office of the State Engineer iWATERS database search USGS Data obtained from nearby wells

- Yes No
- NA

Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi Well Fluid Management pit

- NM Office of the State Engineer iWATERS database search USGS Data obtained from nearby wells

- Yes No
- NA

Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978 Section 3 27 3 as amended (**Does not apply to below grade tanks**)

- Written confirmation or verification from the municipality Written approval obtained from the municipality

- Yes No

Within the area overlying a subsurface mine (**Does not apply to below grade tanks**)

- Written confirmation or verification or map from the NM EMNRD Mining and Mineral Division

- Yes No

Within an unstable area (**Does not apply to below grade tanks**)

- Engineering measures incorporated into the design NM Bureau of Geology & Mineral Resources USGS NM Geological Society Topographic map

- Yes No

Within a 100 year floodplain (**Does not apply to below grade tanks**)

- FEMA map

- Yes No

Below Grade Tanks

Within 100 feet of a continuously flowing watercourse significant watercourse lake bed sinkhole wetland or playa lake (measured from the ordinary high water mark)

- Topographic map Visual inspection (certification) of the proposed site

- Yes No

Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption

- NM Office of the State Engineer iWATERS database search Visual inspection (certification) of the proposed site

- Yes No

Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15 000 mg/liter)

Within 100 feet of a continuously flowing watercourse or any other significant watercourse or within 200 feet of any lakebed sinkhole or playa lake (measured from the ordinary high water mark) (Applies to low chloride temporary pits)

- Topographic map Visual inspection (certification) of the proposed site

- Yes No

Within 300 feet from a occupied permanent residence school hospital institution or church in existence at the time of initial application

- Visual inspection (certification) of the proposed site Aerial photo Satellite image

- Yes No

Within 200 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes or 300feet of any other fresh water well or spring in existence at the time of the initial application

- NM Office of the State Engineer iWATERS database search Visual inspection (certification) of the proposed site

- Yes No

Within 100 feet of a wetland
US Fish and Wildlife Wetland Identification map Topographic map Visual inspection (certification) of the proposed site

Yes No

Temporary Pit Non-low chloride drilling fluid

Within 300 feet of a continuously flowing watercourse or any other significant watercourse or within 200 feet of any lakebed sinkhole or playa lake (measured from the ordinary high water mark)
Topographic map Visual inspection (certification) of the proposed site

Yes No

Within 300 feet from a permanent residence school hospital institution or church in existence at the time of initial application
Visual inspection (certification) of the proposed site Aerial photo Satellite image

Yes No

Within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes or 1000 feet of any other fresh water well or spring in the existence at the time of the initial application
NM Office of the State Engineer WATERS database search Visual inspection (certification) of the proposed site

Yes No

Within 300 feet of a wetland
US Fish and Wildlife Wetland Identification map Topographic map Visual inspection (certification) of the proposed site

Yes No

Permanent Pit or Multi-Well Fluid Management Pit

Within 300 feet of a continuously flowing watercourse or 200 feet of any other significant watercourse or lakebed sinkhole or playa lake (measured from the ordinary high water mark)
Topographic map Visual inspection (certification) of the proposed site

Yes No

Within 1000 feet from a permanent residence school hospital institution or church in existence at the time of initial application
Visual inspection (certification) of the proposed site Aerial photo Satellite image

Yes No

Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes in existence at the time of initial application
NM Office of the State Engineer WATERS database search Visual inspection (certification) of the proposed site

Yes No

Within 500 feet of a wetland
US Fish and Wildlife Wetland Identification map Topographic map Visual inspection (certification) of the proposed site

Yes No

¹⁰
Temporary Pits, Emergency Pits, and Below grade Tanks Permit Application Attachment Checklist Subsection B of 19 15 17 9 NMAC

Instructions Each of the following items must be attached to the application. Please indicate by a check mark in the box, that the documents are attached.

- Hydrogeologic Report (Below grade Tanks) based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC
- Hydrogeologic Data (Temporary and Emergency Pits) based upon the requirements of Paragraph (2) of Subsection B of 19 15 17 9 NMAC
- Siting Criteria Compliance Demonstrations based upon the appropriate requirements of 19 15 17 10 NMAC
- Design Plan based upon the appropriate requirements of 19 15 17 11 NMAC
- Operating and Maintenance Plan based upon the appropriate requirements of 19 15 17 12 NMAC
- Closure Plan (Please complete Boxes 14 through 18 if applicable) based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC

Previously Approved Design (attach copy of design) API Number _____ or Permit Number _____

¹¹
Multi Well Fluid Management Pit Checklist Subsection B of 19 15 17 9 NMAC

Instructions Each of the following items must be attached to the application. Please indicate by a check mark in the box, that the documents are attached.

- Design Plan based upon the appropriate requirements of 19 15 17 11 NMAC
- Operating and Maintenance Plan based upon the appropriate requirements of 19 15 17 12 NMAC
- A List of wells with approved application for permit to drill associated with the pit
- Closure Plan (Please complete Boxes 14 through 18 if applicable) based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC
- Hydrogeologic Data based upon the requirements of Paragraph (4) of Subsection B of 19 15 17 9 NMAC
- Siting Criteria Compliance Demonstrations based upon the appropriate requirements of 19 15 17 10 NMAC

Previously Approved Design (attach copy of design) API Number _____ or Permit Number _____

12
Permanent Pits Permit Application Checklist Subsection B of 19 15 17 9 NMAC

Instructions Each of the following items must be attached to the application. Please indicate by a check mark in the box, that the documents are attached.

- Hydrogeologic Report based upon the requirements of Paragraph (1) of Subsection B of 19 15 17 9 NMAC
- Siting Criteria Compliance Demonstrations based upon the appropriate requirements of 19 15 17 10 NMAC
- Climatological Factors Assessment
- Certified Engineering Design Plans based upon the appropriate requirements of 19 15 17 11 NMAC
- Dike Protection and Structural Integrity Design based upon the appropriate requirements of 19 15 17 11 NMAC
- Leak Detection Design based upon the appropriate requirements of 19 15 17 11 NMAC
- Liner Specifications and Compatibility Assessment based upon the appropriate requirements of 19 15 17 11 NMAC
- Quality Control/Quality Assurance Construction and Installation Plan
- Operating and Maintenance Plan based upon the appropriate requirements of 19 15 17 12 NMAC
- Freeboard and Overtopping Prevention Plan based upon the appropriate requirements of 19 15 17 11 NMAC
- Nuisance or Hazardous Odors including H₂S Prevention Plan
- Emergency Response Plan
- Oil Field Waste Stream Characterization
- Monitoring and Inspection Plan
- Erosion Control Plan
- Closure Plan based upon the appropriate requirements of Subsection C of 19 15 17 9 NMAC and 19 15 17 13 NMAC

13
Proposed Closure 19 15 17 13 NMAC

Instructions Please complete the applicable boxes Boxes 14 through 18 in regards to the proposed closure plan

- Type Drilling Workover Emergency Cavitation P&A Permanent Pit Below grade Tank Multi well Fluid Management Pit
 Alternative
- Proposed Closure Method Waste Excavation and Removal
 Waste Removal (Closed loop systems only)
 On site Closure Method (Only for temporary pits and closed loop systems)
 In place Burial On site Trench Burial
 Alternative Closure Method

14
Waste Excavation and Removal Closure Plan Checklist (19 15 17 13 NMAC) **Instructions** Each of the following items must be attached to the closure plan Please indicate by a check mark in the box, that the documents are attached.

- Protocols and Procedures based upon the appropriate requirements of 19 15 17 13 NMAC
- Confirmation Sampling Plan (if applicable) based upon the appropriate requirements of Subsection C of 19 15 17 13 NMAC
- Disposal Facility Name and Permit Number (for liquids drilling fluids and drill cuttings)
- Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC
- Re vegetation Plan based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC
- Site Reclamation Plan based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC

15
Siting Criteria (regarding on site closure methods only) 19 15 17 10 NMAC

Instructions Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency Please refer to 19 15 17 10 NMAC for guidance.

Ground water is less than 25 feet below the bottom of the buried waste NM Office of the State Engineer iWATERS database search USGS Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is between 25 50 feet below the bottom of the buried waste NM Office of the State Engineer iWATERS database search USGS Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Ground water is more than 100 feet below the bottom of the buried waste NM Office of the State Engineer iWATERS database search USGS Data obtained from nearby wells	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Within 100 feet of a continuously flowing watercourse or 200 feet of any other significant watercourse lakebed sinkhole or playa lake (measured from the ordinary high water mark) Topographic map Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet from a permanent residence school hospital institution or church in existence at the time of initial application Visual inspection (certification) of the proposed site Aerial photo Satellite image	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 horizontal feet of a private domestic fresh water well or spring used for domestic or stock watering purposes in existence at the time of initial application NM Office of the State Engineer iWATERS database Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Written confirmation or verification from the municipality Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within 300 feet of a wetland US Fish and Wildlife Wetland Identification map Topographic map Visual inspection (certification) of the proposed site	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	<input type="checkbox"/> Yes <input type="checkbox"/> No

adopted pursuant to NMSA 1978 Section 3 27 3 as amended Written confirmation or verification from the municipality Written approval obtained from the municipality	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD Mining and Mineral Division	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within an unstable area Engineering measures incorporated into the design NM Bureau of Geology & Mineral Resources USGS NM Geological Society Topographic map	<input type="checkbox"/> Yes <input type="checkbox"/> No
Within a 100 year floodplain FEMA map	<input type="checkbox"/> Yes <input type="checkbox"/> No

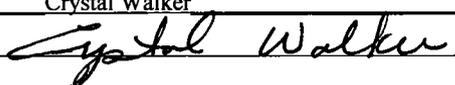
16
On Site Closure Plan Checklist (19 15 17 13 NMAC) *Instructions Each of the following items must be attached to the closure plan. Please indicate by a check mark in the box, that the documents are attached.*

- Siting Criteria Compliance Demonstrations based upon the appropriate requirements of 19 15 17 10 NMAC
- Proof of Surface Owner Notice based upon the appropriate requirements of Subsection E of 19 15 17 13 NMAC
- Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19 15 17 11 NMAC
- Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) based upon the appropriate requirements of 19 15 17 11 NMAC
- Protocols and Procedures based upon the appropriate requirements of 19 15 17 13 NMAC
- Confirmation Sampling Plan (if applicable) based upon the appropriate requirements of 19 15 17 13 NMAC
- Waste Material Sampling Plan based upon the appropriate requirements of 19 15 17 13 NMAC
- Disposal Facility Name and Permit Number (for liquids drilling fluids and drill cuttings or in case on site closure standards cannot be achieved)
- Soil Cover Design based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC
- Re vegetation Plan based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC
- Site Reclamation Plan based upon the appropriate requirements of Subsection H of 19 15 17 13 NMAC

17
Operator Application Certification

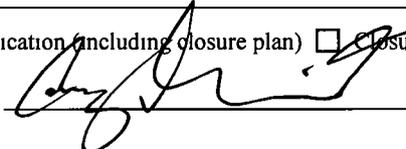
I hereby certify that the information submitted with this application is true accurate and complete to the best of my knowledge and belief

Name (Print) Crystal Walker Title Regulatory Coordinator

Signature  Date 1-10-2017

e mail address crystal.walker@conocophillip.com Telephone 505 326 9837

18
OCD Approval Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)

OCD Representative Signature  Approval Date 3/29/17

Title Environmental Spec OCD Permit Number _____

19
Closure Report (required within 60 days of closure completion) 19 15 17 13 NMAC

Instructions Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

Closure Completion Date _____

20
Closure Method

Waste Excavation and Removal On Site Closure Method Alternative Closure Method Waste Removal (Closed loop systems only)

If different from approved plan please explain _____

21
Closure Report Attachment Checklist *Instructions Each of the following items must be attached to the closure report. Please indicate by a check mark in the box, that the documents are attached.*

- Proof of Closure Notice (surface owner and division)
- Proof of Deed Notice (required for on site closure for private land only)
- Plot Plan (for on site closures and temporary pits)
- Confirmation Sampling Analytical Results (if applicable)
- Waste Material Sampling Analytical Results (required for on site closure)
- Disposal Facility Name and Permit Number
- Soil Backfilling and Cover Installation
- Re vegetation Application Rates and Seeding Technique
- Site Reclamation (Photo Documentation)

On site Closure Location Latitude _____ Longitude _____ NAD 1927 1983

Operator Closure Certification

I hereby certify that the information and attachments submitted with this closure report is true accurate and complete to the best of my knowledge and belief I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan

Name (Print) _____ Title _____

Signature _____ Date _____

e mail address _____ Telephone _____

ConocoPhillips Company requests a variance for the items listed below. The requested variance per 19 15 17 15 A provides equal or better protection of fresh water, public health & the environment.

1 Fencing

- Fencing as described in Section 5 under Alternate COPC will construct all new fences around the below grade tank utilizing 48 steel mesh field fence (hog wire) on the bottom with a single strand of barbed wire on top. T posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T post. Below grade tanks will be fenced regardless of location.

2 Geo membrane Liner

- The geo membrane liner consists of a 45 mil flexible LLDPE material manufactured by Brawler Industries LLC as SuperScrim H45. SuperScrim H45 is manufactured with LLDPE and is 45 mil inch thickness and is reinforced with polyester scrim. The geomembrane liner has a hydraulic conductivity of less than 5×10^{-14} cm/s and is resistant to ultraviolet light, petroleum hydrocarbons, salts and acidic and alkaline solutions. The manufacturer specific sheet is attached.

3 COPC will notify Public Entity Surface Owners by email in lieu of certified mail. Private Entity Surface Owners will still be notified via certified mail.



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 has been replaced
O=orphaned
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q Q Q			Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
				64	16	4								
<u>SJ 00135</u>			SJ	1	4	07	30N	11W	229764	4079745	180	23	157	
<u>SJ 00162</u>			SJ	3	1	4	07	30N	11W	229663	4079644	58	23	35
<u>SJ 00183</u>			SJ	1	1	08	30N	11W	230601	4080532	360	300	60	
<u>SJ 00220</u>			SJ	3	2	2	08	30N	11W	231695	4080392	60	36	24
<u>SJ 00228</u>			SJ	4	2	2	08	30N	11W	231895	4080392	67	38	29
<u>SJ 00249</u>			SJ	2	4	2	08	30N	11W	231879	4080189	46	30	16
<u>SJ 00259</u>			SJ	4	2	07	30N	11W	230184	4080137	25	12	13	
<u>SJ 00329</u>			SJ	3	1	4	07	30N	11W	229663	4079644	63	20	43
<u>SJ 00332</u>			SJ	2	2	08	30N	11W	231796	4080493	52	34	18	
<u>SJ 00358</u>			SJ	3	4	1	07	30N	11W	229289	4080055	61	38	23
<u>SJ 00387</u>			SJ	3	4	1	07	30N	11W	229289	4080055			
<u>SJ 00389</u>			SJ	3	4	1	07	30N	11W	229289	4080055	53		
<u>SJ 00397</u>			SJ	3	4	1	07	30N	11W	229289	4080055	56	35	21
<u>SJ 00415</u>			SJ	3	4	1	07	30N	11W	229289	4080055	53	40	13
<u>SJ 00601</u>			SJ	2	3	4	07	30N	11W	229844	4079443	40	22	18
<u>SJ 00604</u>			SJ	2	3	4	07	30N	11W	229844	4079443	38	22	16
<u>SJ 00620</u>			SJ	3	1	4	07	30N	11W	229663	4079644	52	35	17
<u>SJ 00679</u>			SJ	3	1	4	07	30N	11W	229663	4079644	48	22	26
<u>SJ 00688</u>			SJ	3	4	1	07	30N	11W	229289	4080055	70	58	12
<u>SJ 00689</u>			SJ	3	4	1	07	30N	11W	229289	4080055	78	65	13
<u>SJ 00690</u>			SJ	3	4	1	07	30N	11W	229289	4080055	60		
<u>SJ 00739</u>			SJ	3	4	1	07	30N	11W	229289	4080055	70	58	12
<u>SJ 00748</u>			SJ	3	4	1	07	30N	11W	229289	4080055	60	41	19
<u>SJ 00769</u>			SJ	1	4	07	30N	11W	229764	4079745	50	14	36	
<u>SJ 00806</u>			SJ	3	4	1	07	30N	11W	229289	4080055	38	20	18
<u>SJ 00882</u>			SJ	3	4	1	07	30N	11W	229289	4080055	60	50	10
<u>SJ 00889</u>			SJ	3	4	1	07	30N	11W	229289	4080055	55		
<u>SJ 00893</u>			SJ	2	4	07	30N	11W	230166	4079735	80	40	40	
<u>SJ 00918</u>			SJ	2	3	4	07	30N	11W	229844	4079443	35	14	21
<u>SJ 00919</u>			SJ	2	3	4	07	30N	11W	229844	4079443	35	12	23
<u>SJ 00920</u>			SJ	2	3	4	07	30N	11W	229844	4079443	35	12	23
<u>SJ 00925</u>			SJ	2	1	4	08	30N	11W	231467	4079798	32	20	12
<u>SJ 01115</u>			SJ	4	2	2	08	30N	11W	231895	4080392	35	26	9

<u>SJ 01172</u>	SJ	2	3	07	30N	11W	229375	4079755		50	30	20	
<u>SJ 01310</u>	SJ	3	3	07	30N	11W	228950	4079364		80	50	30	
<u>SJ 01368</u>	SJ	2	3	08	30N	11W	230968	4079711		59	39	20	
<u>SJ 01404</u>	SJ	3	4	07	30N	11W	229745	4079344		40	15	25	
<u>SJ 01406</u>	SJ	1	4	07	30N	11W	229764	4079745		45	12	33	
<u>SJ 01425</u>	SJ	4	3	07	30N	11W	229361	4079353		55	25	30	
<u>SJ 01451</u>	SJ	2	2	08	30N	11W	231796	4080493		64	34	30	
<u>SJ 01468</u>	SJ	4	3	07	30N	11W	229361	4079353		60	25	35	
<u>SJ 01475</u>	SJ	3	3	2	07	30N	11W	229682	4080046		49	27	22
<u>SJ 01484</u>	SJ	3	3	07	30N	11W	228950	4079364		61	10	51	
<u>SJ 01492</u>	SJ		3	07	30N	11W	229151	4079565		60	22	38	
<u>SJ 01520</u>	SJ	2	1	4	08	30N	11W	231467	4079798		58	18	40
<u>SJ 01567</u>	SJ	2	4	4	07	30N	11W	230247	4079431		35	14	21
<u>SJ 01570</u>	SJ	1	4	08	30N	11W	231368	4079699		59	37	22	
<u>SJ 01667</u>	SJ	3	4	07	30N	11W	229745	4079344		41	21	20	
<u>SJ 01814</u>	SJ	2	2	08	30N	11W	231796	4080493		52	10	42	
<u>SJ 01968</u>	SJ	2	2	08	30N	11W	231796	4080493		40	25	15	
<u>SJ 01999</u>	SJ	2	2	08	30N	11W	231796	4080493		61	45	16	
<u>SJ 02005</u>	SJ	4	4	3	07	30N	11W	229460	4079252		55	20	35
<u>SJ 02006</u>	SJ	2	4	3	07	30N	11W	229460	4079452		50	24	26
<u>SJ 02140</u>	SJ	1	1	1	07	30N	11W	228886	4080666		70	60	10
<u>SJ 02194</u>	SJ			07	30N	11W	229553	4079967		59	22	37	
<u>SJ 02261</u>	SJ	2	3	4	08	30N	11W	231449	4079393				
<u>SJ 02293</u>	SJ	2	4	2	08	30N	11W	231879	4080189		50	35	15
<u>SJ 02331</u>	SJ	2	4	2	08	30N	11W	231879	4080189		53	35	18
<u>SJ 02413</u>	SJ	1	4	3	08	30N	11W	230850	4079406		40	31	9
<u>SJ 02485</u>	SJ	4	1	4	08	30N	11W	231467	4079598		49	30	19
<u>SJ 02715</u>	SJ	4	4	3	07	30N	11W	229460	4079252		68	20	48
<u>SJ 02906</u>	SJ	4	1	4	07	30N	11W	229863	4079644		45	24	21
<u>SJ 02915</u>	SJ	1	4	3	08	30N	11W	230850	4079406		45		
<u>SJ 02936</u>	SJ	1	1	4	07	30N	11W	229663	4079844		38	30	8
<u>SJ 03030</u>	SJ	2	4	2	08	30N	11W	231879	4080189		56	40	16
<u>SJ 03089</u>	SJ	4	2	3	08	30N	11W	231067	4079610		48	36	12
<u>SJ 03098</u>	SJ	2	2	2	08	30N	11W	231895	4080592		63	23	40
<u>SJ 03154</u>	SJ	4	1	1	08	30N	11W	230700	4080431		40		
<u>SJ 03199</u>	SJ	1	4	3	08	30N	11W	230850	4079406		40	20	20
<u>SJ 03202</u>	SJ	2	4	2	08	30N	11W	231879	4080189		45		
<u>SJ 03210</u>	SJ	2	2	2	08	30N	11W	231895	4080592		60	30	30
<u>SJ 03240</u>	SJ	2	2	2	08	30N	11W	231895	4080592		50		
<u>SJ 03245</u>	SJ	4	4	4	06	30N	11W	230318	4080843		80	65	15
<u>SJ 03267</u>	SJ	3	1	2	05	30N	11W	231359	4081993		83	60	23

<u>SJ 03271</u>	SJ	2	3	2	07	30N	11W	229882	4080246				
<u>SJ 03303</u>	SJ	2	4	2	08	30N	11W	231879	4080189		55	30	25
<u>SJ 03305</u>	SJ	2	4	2	08	30N	11W	231879	4080189		50		
<u>SJ 03313</u>	SJ	4	1	4	08	30N	11W	231467	4079598		58	20	38
<u>SJ 03367</u>	SJ	4	4	3	08	30N	11W	231050	4079206		29	5	24
<u>SJ 03378</u>	SJ	2	4	2	08	30N	11W	231879	4080189		50		
<u>SJ 03381</u>	SJ	2	2	2	08	30N	11W	231895	4080592		50		
<u>SJ 03398</u>	SJ	1	2	2	08	30N	11W	231695	4080592		80	20	60
<u>SJ 03419</u>	SJ	2	4	4	08	30N	11W	231847	4079381		41	9	32
<u>SJ 03431</u>	SJ		4	1	08	30N	11W	230985	4080115		50		
<u>SJ 03465</u>	SJ	4	3	2	07	30N	11W	229882	4080046		80		
<u>SJ 03480</u>	SJ	4	2	3	08	30N	11W	231067	4079610		50		
<u>SJ 03484</u>	SJ	3	4	3	07	30N	11W	229260	4079252		75		
<u>SJ 03630</u>	SJ	3	3	3	07	30N	11W	228849	4079263		68	24	44
<u>SJ 03639</u>	SJ	4	2	2	08	30N	11W	231895	4080392		60	24	36
<u>SJ 03642</u>	SJ	2	1	4	08	30N	11W	231467	4079798		58	32	26
<u>SJ 03646</u>	SJ	4	2	2	08	30N	11W	231895	4080392		61	24	37
<u>SJ 03653</u>	SJ	4	2	2	08	30N	11W	231895	4080392		62	26	36
<u>SJ 03794 POD1</u>	SJ	3	1	3	07	30N	11W	228894	4079720		44	27	17
<u>SJ 03914 POD1</u>	SJ	3	3	2	07	30N	11W	229772	4080131		140	65	75
<u>SJ 04048 POD1</u>	SJ	3	3	3	07	30N	11W	228774	4079213		52	4	48

Average Depth to Water **32 feet**
 Minimum Depth **4 feet**
 Maximum Depth **300 feet**

Record Count 95

PLSS Search

Section(s) 5 8 **Township** 30N **Range** 11W

UTM locatio was d rived f m PLSS see H lp

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1/10/17 1:36 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 has been replaced
O=orphaned

C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub basin	County	Q 6	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<u>SJ 00322</u>			SJ	1	4	4	12	30N	12W	228453	4079478	66	40	26
<u>SJ 00384</u>			SJ	2	3	4	12	30N	12W	228258	4079493	57	20	37
<u>SJ 00643</u>			SJ		4	4	12	30N	12W	228554	4079379	75	51	24
<u>SJ 03020</u>			SJ	4	3	4	12	30N	12W	228258	4079293	52	30	22
<u>SJ 03027</u>			SJ	3	4	3	12	30N	12W	227663	4079309	100		
<u>SJ 03129</u>			SJ	2	4	3	12	30N	12W	227863	4079509	44	35	9
<u>SJ 03757 POD1</u>			SJ		4	4	12	30N	12W	228428	4079355	22	12	10
<u>SJ 03917 POD1</u>			SJ	2	4	4	12	30N	12W	228634	4079449	55	35	20

Average Depth to Water **31 feet**
 Minimum Depth **12 feet**
 Maximum Depth **51 feet**

Record Count 8

PLSS Search

Section(s) 1 12 Township 30N Range 12W

UTM locatio was derived f om PLSS see Help

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1/10/17 1:37 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

No records found

PLSS Search

Section(s) 36 Township 31N Range 12W

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1/10/17 1:38 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 has been replaced
O=orphaned
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	Sub basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<u>SJ 01811</u>			SJ	2	2	31	31N	11W		230320	4083731	89	50	39
<u>SJ 03937</u>			SJ	4	1	32	31N	11W		230722	4082828	67	52	15
													Average Depth to Water	51 feet
													Minimum Depth	50 feet
													Maximum Depth	52 feet

Record Count 2

PLSS Search

Section(s) 31 32 Township 31N Range 11W

UTM t n was de rived f m PLSS see Help

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1/10/17 1 39 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

TIERRA CORROSION CONTROL, INC
DRILLING LOG

COMPANY Conoco Phillips
 LOCATION Bruington LS 4M
 STATE NM
 BIT SIZE 7 7/8
 LBS COKE BACKFILL 2 600#
 ANODE TYPE 2 X 60 Duriron

DATE April 18 2008
 LEGALS S6 T30N R11W
 DRILLER Gilbert Peck
 CASING SIZE/TYPE 8 X 20 PVC
 VENT PIPE 300
 ANODE AMOUNT 10

COUNTY San Juan
 DEPTH 300
 COKE TYPE Asbury
 PERF PIPE 140
 BOULDER DRILLING None

DEPTH	DRILLER S LOG	AMPS	DEPTH	DRILLER S LOG	AMPS
20	Casing		310		
25	Sand		315		
30		4	320		
35		3	325		
40		4	330		
45		7	335		
50		4	340		
55		6	345		
60		7	350		
65	↓	9	355		
70	Gray Shale	14	360		
75		16	365		
80		19	370		
85		19	375		
90	↓	19	380		
95	Black Shale	23	385		
100		23	390		
105		20	395		
110		22	400		
115		26	405		
120		25	410		
125		26	415		
130		25	420		
135		22	425		
140		21	430		
145		19	435		
150		23	440		
155		22	445		
160		21	450		
165		21	455		
170		24	460		
175		23	465		
180		25	470		
185		28	475		
190		27	480		
195		29	485		
200		37	490		
205		35	495		
210		30	500		
215		29			
220		28			
225		26			
230		24			
235		25			
240		27			
245		27			
250		26			
255		24			
260		21			
265		24			
270		26			
275		25			
280		24			
285		24			
290		25			
295		td			
300	↓				
305					

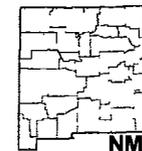
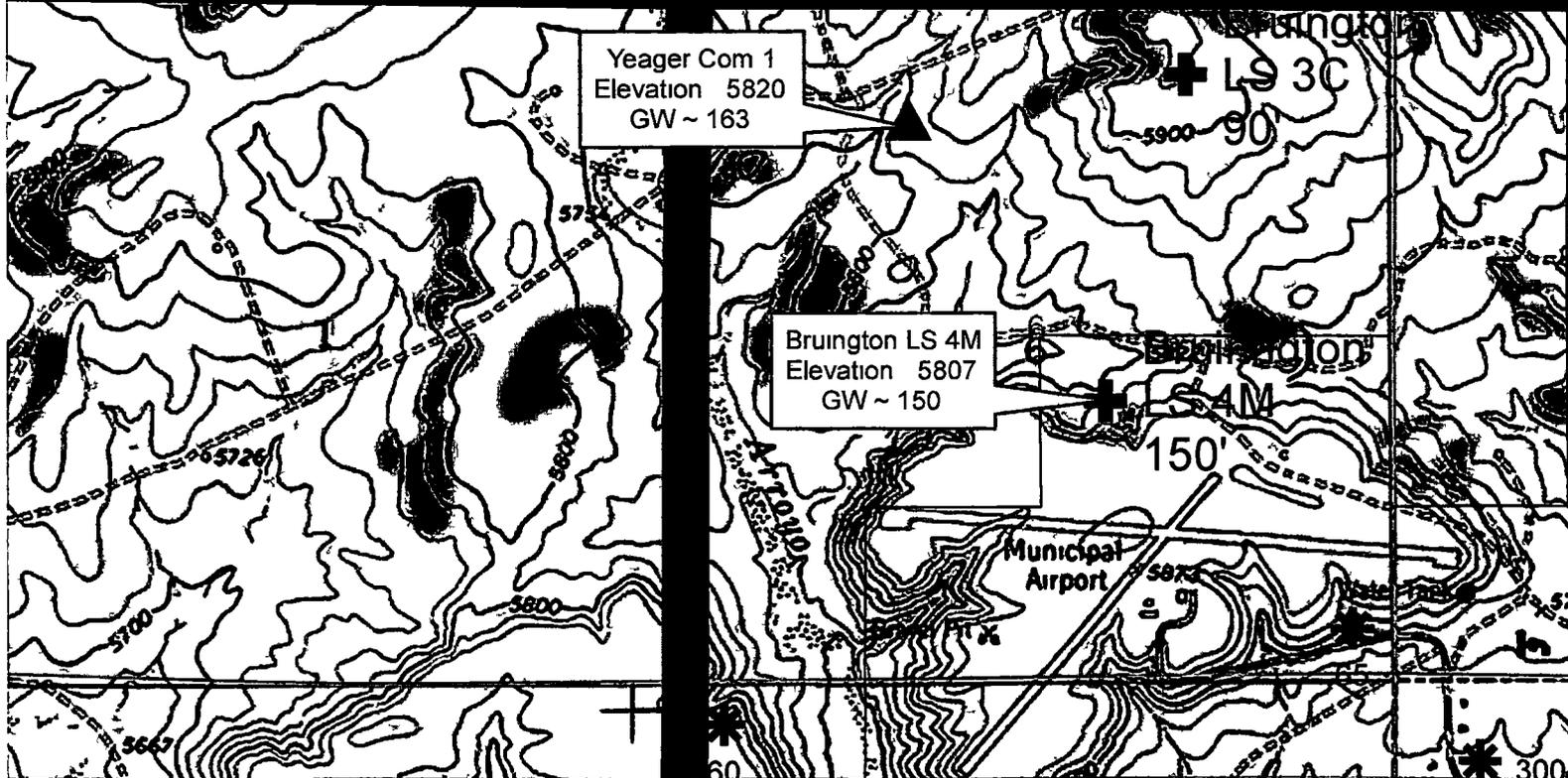
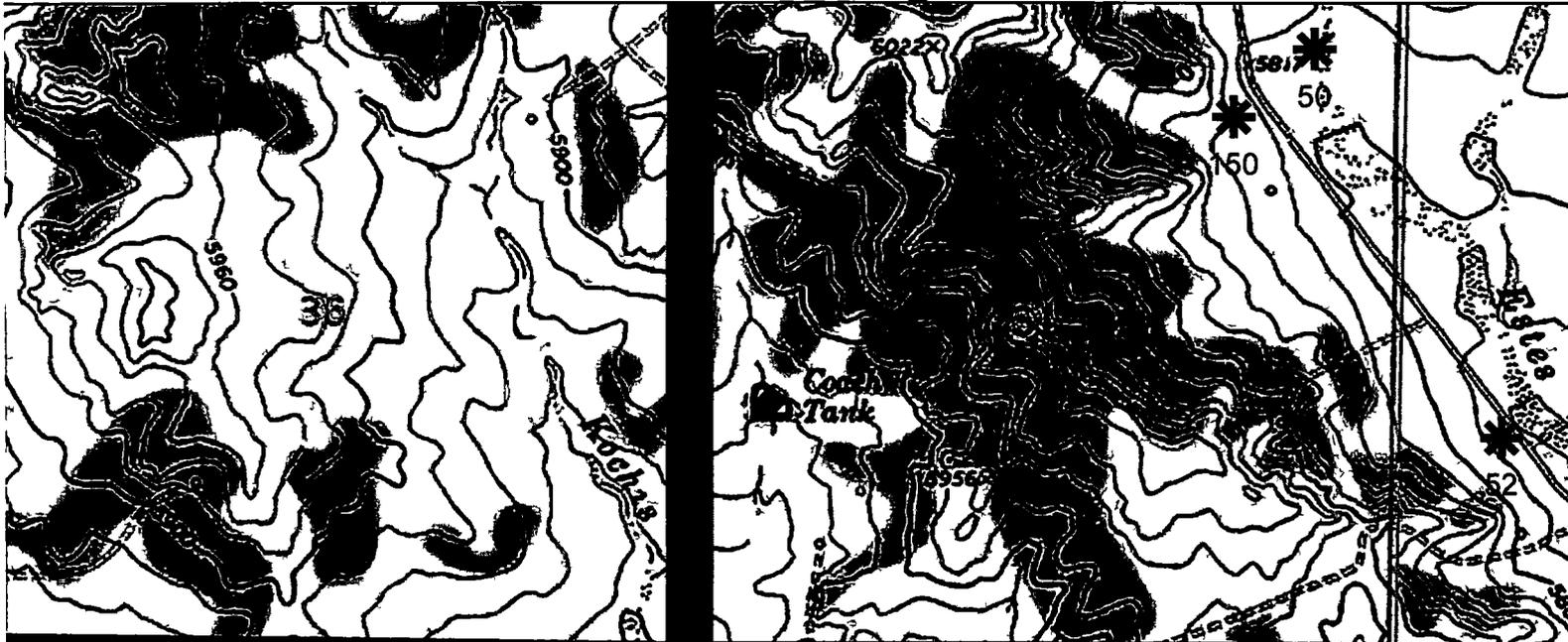
ANODE #	DEPTH	NO COKE	COKE
1	290	2 5	4 8
2	280	2 4	4 8
3	270	2 6	4 8
4	260	2 1	4 3
5	250	2 6	4 8
6	240	2 7	5 2
7	230	2 4	5 0
8	220	2 8	5 1
9	210	3 0	5 8
10	200	3 7	7 0
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

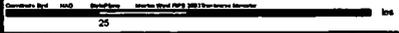
WATER DEPTH 150
 ISOLATION PLUGS None
 LOGGING VOLTS 11 92
 VOLT SOURCE AUTO BATTERY
 TOTAL AMPS 20 1
 TOTAL GB RESISTANCE 59
 REMARKS

Yeager Com 1

Legend

-  DSM
-  iWater
-  COP Cathodic
-  Wetlands

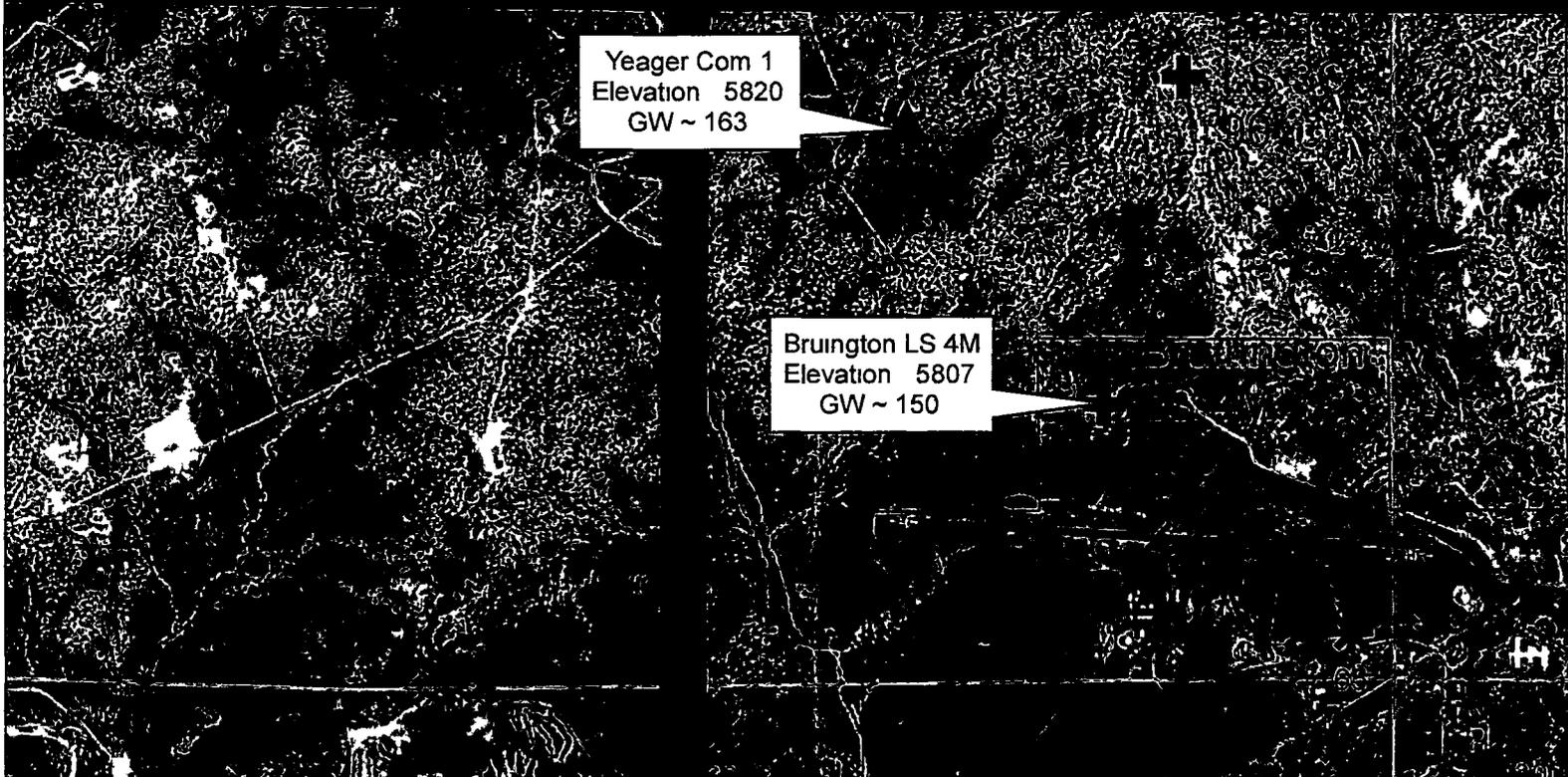
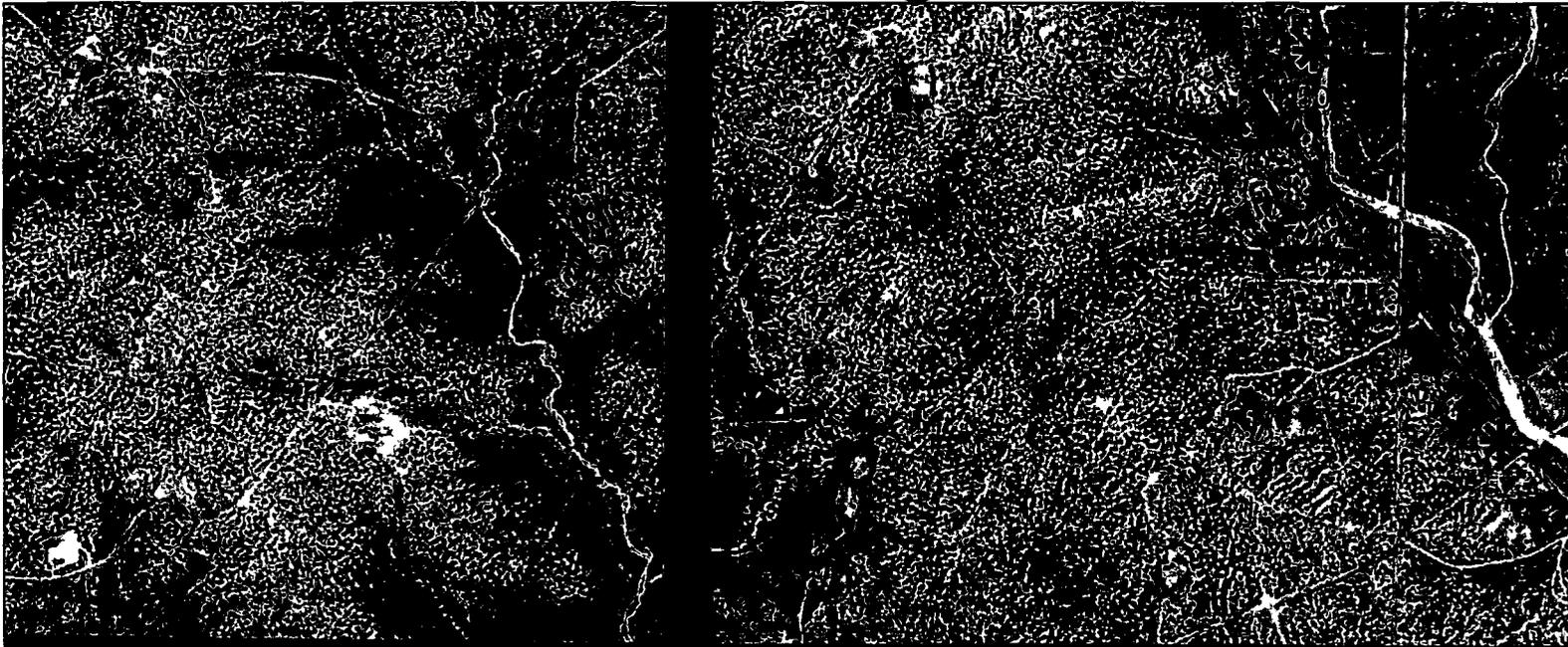


ConocoPhillips	
Yeager Com 1 30 045 24015 C-6 30N 11W GW ~ 163	
 0 25 50 feet	 Date 1/10/2017

Yeager Com 1

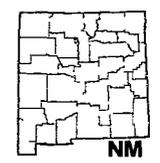
Legend

-  DSM
-  iWater
-  COP Cathodic
-  Wetlands



Yeager Com 1
Elevation 5820
GW ~ 163

Bruington LS 4M
Elevation 5807
GW ~ 150



ConocoPhillips	
Yeager Com 1 30 045 24015 C-6 30N 11W GW ~ 163	
Date	Date



Below Grade Tank (BGT) Siting Criteria and Compliance Demonstrations

Well Name Yeager Com 1

1 Depth to groundwater (should not be less than 25 feet)

The nearest recorded well with available water depth information is the **Bruington LS 4M** with groundwater @ 150' as indicated in the **Cathodic Data Sheet** attached. The subject well is 13' more in elevation making depth to groundwater at 163'

2 Distance to watercourse (should not be within 100 feet of a continuously flowing watercourse, other significant watercourse, lakebed, sinkhole, wetland or playa lake [measured from the ordinary high water mark])

Aerial map attached indicates that there are **no** lakebeds, sinkholes, playa lakes, or watercourses within 100 feet of the proposed Below Grade Tank.

3 Distance to springs or wells (should not be within 200 feet of a spring or a fresh water well used for public or livestock consumption)

Aerial map attached indicates that the Below Grade Tank will **not** be within 200 feet of any recorded well or spring.

Hydrogeological Report for Yeager Com 1

Regional Geological context

The Nacimiento Formation is of Paleocene age (Baltz, 1967 p 35) It crops out in a broad band inside the southern and western margins of the central basin and in a narrow band along the west face of the Nacimiento Uplift The Nacimiento is a nonresistant unit and typically erodes to low, rounded hills or forms badland topography

The Nacimiento Formation occurs in approximately only the southern two thirds of the San Juan Basin where it conformably overlies and intertongues with the Ojo Alamo Sandstone (Fassett 1974, p 229) The Nacimiento Formation grades laterally into the main part of the Animas Formation (Fassett and Hinds, 1971 p 34), thus, in this area the two formations occupy the same stratigraphic interval

Strata of the Nacimiento Formation were deposited in lakebeds in the central basin area with lesser deposition in stream channels (Brimhall 1973, p 201) In general the Nacimiento consists of drab interbedded black and gray shale with discontinuous, white medium to very coarse grained arkosic sandstone (Stone et al , 1983, p 30) Stone et al indicated that the formation may contain more sandstone than commonly reported because some investigators assume the slope forming strata in the unit area shales, whereas in many places the strata actually are poorly consolidated sandstones Total thickness of the Nacimiento Formation ranges from about 500 to 1,300 feet The unit generally thickens from the basin margins toward the basin center (Steven et al , 1974) The sandstone deposits within the Nacimiento Formation are much thinner than the total thickness of the formation because their environment of deposition was localized stream channels (Brimhall, 1973 p 201) The thickness of the combined San Jose Animas and Nacimiento Formations ranges from 500 to more than 3 500 feet

Hydraulic Properties

Reported well yields for 53 wells completed in either the Animas or Nacimiento Formations range from 2 to 90 gallons per minute and the median yield is 7.5 gallons per minute The primary use of water from Nacimiento and Animas Formations is domestic and livestock supplies There are no known aquifer tests for the Animas or Nacimiento Formations, but specific capacities reported for six wells range from 0.24 to 2.30 gallons per minute per foot of drawdown (Levings et al 1990)

The Animas and Nacimiento Formations are in many ways hydrologically similar to the San Jose Formation because sands in both units produce approximately the same quantities of water However, the greater percentage of fine materials in the Animas and Nacimiento Formations may restrict downward vertical leakage to the Ojo Alamo Sandstone or Kirtland Shale The poorly cemented fine material is highly erodible, forms a badland terrain, and supports only spotty vegetation These conditions are more conducive to runoff than retention of precipitation

References

Baltz, E H 1967, Stratigraphy and regional tectonic implications of part of Upper Cretaceous rocks, east-central San Juan Basin New Mexico USGS Professional Paper

552 101 p

Brimhall, R M 1973, Ground-water hydrology of Tertiary rocks of the San Juan Basin, New Mexico in Fassett J E , ed Cretaceous and Tertiary rocks of the Southern Colorado Plateau Four Corners Geological Society Memoir, p 197 207

Fassett, J E 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico New Mexico Geological Society 25th Field Conference p 225 230

Fassett, J E and Hinds J S 1971 Geology and fuel resources of the Fruitland Formation and Kirtland Shale of the San Juan Basin, New Mexico and Colorado USGS Professional Paper 676, 76 p

Levings G W , Craig, S d , Dam, W L , Kernodle, J M and Thorn C R , 1990 Hydrogeology of the San Jose, Nacimiento, and Animas Formations in the San Juan structural basin, New Mexico Colorado, Arizona, and Utah USGS Hydrologic Investigations Atlas HA-720-A, 2 sheets

Stone, W J Lyford, F P , Frenzel, P F , Mizell N H , and Padgett, E T , 1983, Hydrogeology and water resources of San Juan Basin, New Mexico New Mexico Bureau of Mines and Mineral Resources, Hydrologic Report 6

Below Grade Tank Design and Construction

In accordance with NMAC 19 15 17 the following information describes the design and construction of below grade tanks on ConocoPhillips Company hereinafter known as COPC locations This is COPC's standard procedure for all below grade tanks (BGT) A separate plan will be submitted for any BGT which does not conform to this plan

General Plan

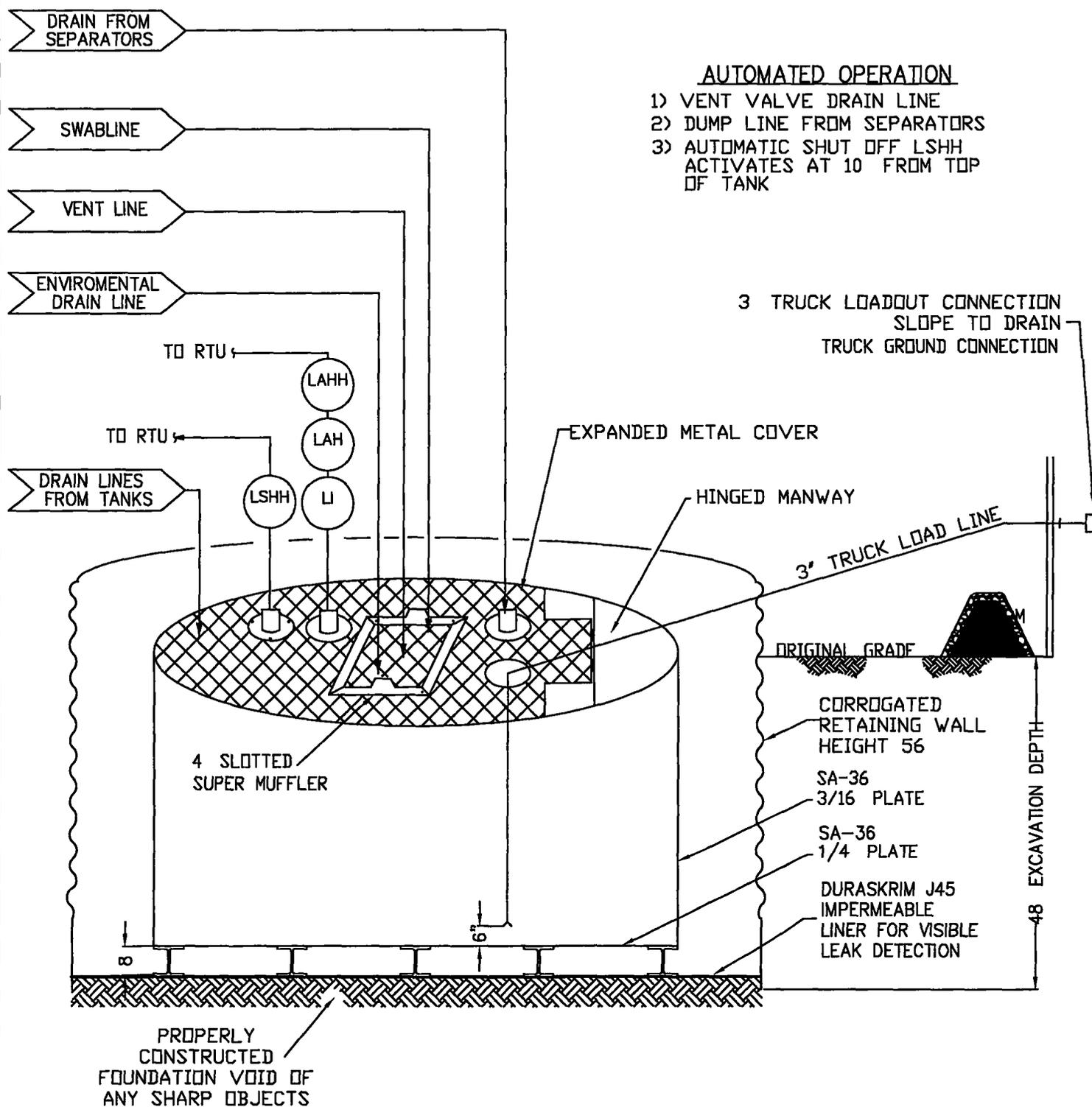
- 1 COPC will design and construct a properly sized and approved BGT which will contain liquids and should prevent contamination of fresh water to protect the public health and environment
- 2 COPC signage will comply with 19 15 17 11 C NMAC
- 3 COPC is requesting approval of an alternative fencing to be used on BGT tank locations COPC requests to utilize 48 steel mesh field fence (hog wire) on the bottom with a single strand of barbed wire on top T posts shall be installed every 12 feet and corners shall be anchored utilizing a secondary T post BGTs will be fenced regardless of location
 - a If the BGT is located within 1000 of an occupied permanent residence school hospital institution or church COPC will construct A 6 chain link fence with two strands of barbed wire on top The operator shall ensure that all gates associated with the fence are closed and locked when responsible personnel are not onsite
- 4 COPC will construct a screened expanded metal covering on the top of the BGT
- 5 COPC will ensure that a BGT is constructed of materials resistant to the BGT's particular contents and resistant to damage from sunlight as shown on design drawing and specification sheet
- 6 The COPC BGT system will have a properly constructed foundation consisting of a level base free of rocks debris sharp edges or irregularities to prevent punctures cracks or indentations of the liner or tank bottom as shown on design drawing
- 7 COPC shall operate and install the BGT to prevent the collection of surface water run on COPC has built in shut off devices that do not allow a BGT to overflow COPC constructs berms and corrugated retaining walls at least 6 above ground to keep from surface water run on entering the BGT as shown on the design plan
- 8 If COPC needs to modify/retrofit the existing BGT it will meet the below specifications
- 9 COPC will construct and use a BGT that does not have double walls The BGT's side walls will be open for visual inspection for leaks the BGT's bottom is elevated a minimum of six inches above the underlying ground surface and the BGT is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected
- 10 COPC will equip below grade tanks with a properly functioning automatic high level shut off control device as well as manual controls to prevent overflows
- 11 COPC will utilize a geomembrane liner manufactured by Brawler Industries LLC as SuperScrim H45 SuperScrim H45 is manufactured with LLDPE and is 45 mil inch thickness and is reinforced with polyester scrim The geomembrane liner has a hydraulic conductivity of less than 5×10^{-14} cm/s and is resistant to ultraviolet light petroleum hydrocarbons salts and acidic and alkaline solutions The manufacturer specific sheet is attached
- 12 The general specification for design and construction are attached

MANUAL OPERATION

- 1) PRODUCTION TANKS DRAINLINE
- 2) SWABLINE DRAIN LINE
- 3) ENVIROMENTAL DRAIN LINE FROM COMPRESSOR SKID

AUTOMATED OPERATION

- 1) VENT VALVE DRAIN LINE
- 2) DUMP LINE FROM SEPARATORS
- 3) AUTOMATIC SHUT OFF LSHH ACTIVATES AT 10" FROM TOP OF TANK



ConocoPhillips

San Juan Business Unit

PRODUCED WATER PIT TANK
 OPEN TOP GRAVITY FLOW TANK
 INTERNALLY COATED WITH
 12-14 MILS AMERON AMERCOAT 385

SuperScrim™ H Product Specifications

This product meets GRI GM 25 Specifications

Properties	Test Method	Frequency	Minimum Average Values		
			H30	H36	H45
Thickness					
Nominal (mils)	ASTM D5199	Per roll	30	36	45
Min Ave (mils)			27	32	40
Weight					
Nominal (lb/1000 ft ²)	ASTM D5261	Per roll	140	168	210
Min Ave (lb/1000 ft ²)			125	151	189
Grab Tensile	ASTM D7004				
Strength (lb) min ave	(each direction)	30 000 lb	300	310	320
Elongation (%) min ave	(each direction)		25	25	25
Tongue Tear (lb) min ave	ASTM D5884	30 000 lb	130	130	130
	(each direction)				
Index Puncture (lb) min ave	ASTM D4833	30 000 lb	85	103	105
Ply Adhesion (lb) min ave ⁽¹⁾	ASTM D6636	30 000 lb	20	25	25
Oxidative Induction Time (OIT) ⁽²⁾					
(a) Standard OIT	ASTM D3895	Formulation	>100	>100	>100
Or					
(b) High Pressure OIT	ASTM D5885		>1000	>1000	>1000
Standard Roll Dimensions					
Roll Width ⁽³⁾ ft			11 83	11 83	11 83
Roll Length ⁽³⁾ ft			1500	1230	1000
Roll Area ft ²			17 745	14 551	11 830

⁽¹⁾ Alternatively an acceptable ply adhesion is to have a film tearing bond occur within the sheet material

⁽²⁾ The Manufacturer has the option to select either one of the OIT methods listed to evaluate the antioxidant effectiveness in the geomembrane.

⁽³⁾ Roll widths and lengths have a tolerance of ± 1%
 Custom material thicknesses also available

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This is a preliminary data sheet based upon laboratory testing of initial manufacturing lots and may be changed without notice as additional product testing data becomes available.



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 406.234.1680

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 4300 S Hwy 281
 Pleasanton TX 78064
 830.569.4005

HOUSTON, TX
 8615 Golden Spike Ln
 Houston TX 77086
 800.364.7688
 281.272.1660

SE HABLA ESPAÑOL

www.brawler.com

SuperScrim™ WC Product Specifications

Properties	Test Method	Minimum Average Values					
		9 mil	12 mil	16 mil	20 mil	24 mil	30 mil
Weight	D5261	5.4 oz/yd ²	5.7 oz/yd ²	7.2 oz/yd ²	9.6 oz/yd ²	11.5 oz/yd ²	13.4 oz/yd ²
Thickness		9 mil	12 mil	16 mil	20 mil	24 mil	30 mil
Grab Tensile (lbs)	D751	MD 200 CD 135	MD 210 CD 176	MD 230 CD 210	MD 330 CD 286	MD 352 CD 300	MD 352 CD 300
Mullen Burst	D6241	300 psi	350 psi	400 psi	600 psi	680 psi	780 psi
Accelerated UV Weathering	D4355	>80% after 2000 hrs exposure	>90 / after 2000 hrs exposure	>90 / after 2000 hrs exposure	>90 % after 2000 hrs exposure	>90 % after 2000 hrs exposure	>90 % after 2000 hrs exposure
Standard Roll Dimensions							
Roll Length ⁽²⁾ Ft		3 000	3 000	4 000	3 000	2 250	2 250
Roll Width ⁽²⁾ Ft		12	12	12	12	12	12
Roll Area Ft ²		36 000	36 000	48 000	36 000	27 000	27 000

⁽¹⁾9 of 10 views shall be Category 1 or 2 No more than 1 view from Category 3

⁽²⁾Roll widths and lengths have a tolerance of ± 1%

Custom material thicknesses also available

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ConocoPhillips Company
San Juan Asset
Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19 15 17 the following information describes the operation and maintenance of a below grade tank (BGT) on a Burlington Resources Oil & Gas Company LP (COP) location This is COP s standard procedure for all BGT s A separate plan will be submitted for any BGT which does not conform to this plan

General Plan

- 1 COP will operator and maintain a BGT to contain liquids and solids and maintain the integrity of the liner liner system and secondary containment system to prevent contamination of fresh water and protect public health and the environmental COP will perform an inspection on a monthly basis install cathodic protection and automatic overflow shutoff devices as seen on the design plan
- 2 COP will not discharge into or store any hazardous waste in the BGT
- 3 COP shall operator and install the BGT to prevent the collection of surface water run on COP has built in shut off devices that do not allow a BGT to overflow COP constructs berms and corrugated retained walls at least 6 above grade to keep surface water run on from entering the BGT as shown on the design plan
- 4 As per 19 15 17 12 D(3) COP will inspect the BGT for leakage and damage at least monthly The operator will document the integrity of each tank at least annually and maintain a written record for 5 years Inspections may include 1) containment berms adequate and no oil present 2) tanks had no visible leaks or sign of corrosion 3) tank valves flanges and hatches had no visible leaks and 4) no evidence of significant spillage of produced liquids COP shall remove any visible or measurable layer of oil from the fluid surface of the BGT in an effort to prevent significant accumulation of oil overtime
- 5 COP shall maintain adequate freeboard to prevent overtopping of the BGT
- 6 If a BGT develops a leak then COP shall removal all liquid above the damage or leak within 48 hours of discovery notify the appropriate division office pursuant to 19 15 29 NMAC and repair the damage or replace BGT as applicable
- 7 If COP discovers a BGT designed in accordance with 19 15 17 11 I(5) has lost integrity the BGT will promptly be drained and removed from service and COP will follow the approved closure plan If COP discovers a retrofitted BGT designed in accordance with 19 15 17 11 I(4)(a c) does not demonstrate integrity or that the BGT develops any of the conditions identified in Paragraph (5) of Subsection A of 19 15 17 12 NMAC shall repair the damage or close the existing BGT pursuant to the closure requirements of 19 15 17 13 NMAC
- 8 If COP equips or retrofits the existing BGT to comply with Paragraphs (1) through (4) of Subsection I of 19 15 17 11 NMAC COP shall visually inspect the area beneath the BGT during the retrofit and document any areas that are wet discolored or showing other evidence of a release on form C 141 COP shall measure and report to the division the concentration of contaminants in the wet or discolored soil with respect to the standards set forth in Table I of 19 15 17 13 NMAC If there is no wet or discolored soil or if the concentration of contaminants in the wet or discolored soil is less than the standard set forth in Table I of 19 15 17 13 NMAC then COP will proceed with the closure requirements of 19 15 17 13 NMAC prior to initiating the retrofit or replacement

**ConocoPhillips Company
San Juan Asset
Production BGT Closure Plan**

In accordance with Rule 19 15 17 13 NMAC the following plan describes the general closure requirements of a below grade tank (BGT) on any ConocoPhillips Company (COP) location in the San Juan Asset This is COP s standard closure procedure for all BGT s regulated under Rule 19 15 17 NMAC and operated by COP For those closures which do not conform to this standard closure plan a separate BGT specific closure plan will be developed and utilized

Closure Conditions and Timing for BGT

- Within 60 days of cessation of operation COP will
 - Remove all liquids and sludge and dispose in a division approved manner
- Within 72 hours or 1 week prior to closure COP will
 - Give notice to surface owners by certified mail For public entities by email as specified on the variance page
 - Give notice to Division District Office verbal or in writing/email
- Within 6 months of cessation of operation COP will
 - Remove BGT and dispose recycle reuse or reclaim in a division approved manner
 - Remove unused onsite equipment associated with the BGT
- Within 60 days of closure COP will
 - Send the Division District Office a Closure Report per 19 15 17 13 F (1)

General Plan Requirements

- 1 Prior to initiating any BGT closure except in the case of an emergency COP will notify the surface owner of the intent to close the BGT by certified mail no later than 72 hours or 1 week before closure and a copy of this notification will be included in the closure report In the case of an emergency the surface owner will be notified as soon as practical
- 2 Notice of closure will be given to the Division District office between 72 hours and 1 week of the scheduled closure via email or phone The notification of closure will include the following
 - a Operators Name
 - b Well Name and API Number
 - c Location
- 3 All liquids will be removed from the BGT following cessation of operation Produced water will be disposed of at one of COP s approved Salt Water Disposal facilities or at a Division District Office approved facility
- 4 Solids and sludge s will be shoveled and/or vacuumed out for disposal at one of the Division District Office approved facilities depending on the proximity of the BGT site Envirotech Land Farm (Permit #NM 01 011) Industrial Ecosystems Inc JFJ Land Farm (Permit #NM 01 0010B) and Basin Disposal (Permit #NM 01 005)
- 5 COP will obtain prior approval from the Division District Office to dispose recycle reuse or reclaim the BGT and provide documentation of the disposition of the BGT in the closure report Steel materials will be recycled or reused as approved by the Division District Office Fiberglass tanks will be empty cut up or shredded and EPA cleaned for disposal as solid waste Liner materials will be cleaned without soils or contaminated material for disposal as solid waste Fiberglass tanks and liner materials will meet the conditions of 19 15 35 NMAC Disposal will be at a licensed disposal facility presently San Juan County Landfill operated by Waste Management under NMED Permit SWM 052426
- 6 Any equipment associated with the BGT that is no longer required for some other purpose following the closure will be removed

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- 7 Following removal of the tank and any liner material COP will test the soils beneath the BGT as follows
 - a At a minimum a five point composite sample will be taken to include any obvious stained or wet soils or any other evidence of contamination
 - b The laboratory sample shall be analyzed for the constituents listed in Table I of 19 15 17 13

Table I			
Closure Criteria for Soils Beneath Below Grade Tanks Drying Pads Associated with Closed Loop Systems and Pits			
where Contents are Removed			
Depth below bottom of pit to groundwater less than 10 000 mg/l TDS	Constituent	Method*	Limit**
≤50 feet	Chloride	EPA 300 0	600 mg/kg
	TPH	EPA SW 846 Method 418 1	100 mg/kg
	BTEX	EPA SW 846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW 846 Method 8021B or 8015M	10 mg/kg
51 feet 100 feet	Chloride	EPA 300 0	10 000 mg/kg
	TPH	EPA SW 846 Method 418 1	2 500 mg/kg
	GRO+DRO	EPA SW 846 Method 8015M	1 000 mg/kg
	BTEX	EPA SW 846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW 846 Method 8021B or 8015M	10 mg/kg
> 100 feet	Chloride	EPA 300 0	20 000 mg/kg
	TPH	EPA SW 846 Method 418 1	2 500 mg/kg
	GRO+DRO	EPA SW 846 Method 8015M	1 000 mg/kg
	BTEX	EPA SW 846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW 846 Method 8021B or 8015M	10 mg/kg

*Or other test methods approved by the division

**Numerical limits or natural background level whichever is greater

(19 15 17 13 NMAC Ro 19 15 17 13 NMAC 3/28/2013)

- 8 If the Division District Office and/or COP determine there is a release COP will comply with 19 15 17 13 C 3b
- 9 Upon completion of the tank removal pursuant to 19 15 17 13 C 3c if all contaminant concentrations are less than or equal to the parameters listed in Table I of 19 15 17 13 NMAC the excavation will be backfilled with non waste containing earthen material compacted and covered with a minimum of one foot top soil or background thickness of top soil whichever is greater The surface will then be re contoured to match the native grade prevent ponding of water and prevent erosion of cover material
- 10 For those portions of the former BGT area no longer required for production activities COP will seed the disturbed area in the first favorable growing season following the closure of the BGT Seeding will be accomplished via drilling on the contour whenever practical or by other Division District Office approved methods COP will notify the Division District Office when reclamation and re vegetation is complete

Reclamation of the BGT shall be considered complete when

- Established vegetative cover reflects a life form ratio of +/- 50% of pre disturbance levels
- Total plant cover is at least 70% of pre disturbance levels (Excluding noxious weeds) OR
- Pursuant to 19 15 17 13 H 5d COP will comply with obligations imposed by other applicable federal or tribal agencies in which there re vegetation and reclamation requirements provide equal or better protection of fresh water human health and the environment

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- 11 For those portions of the former BGT area required for production activities reseeding will be done at well abandonment and following the procedure noted above

Closure Report

All closure activities will include proper documentation and will be submitted to OCD within 60 days of the BGT closure on a Closure Report using Division District Office Form C 144 The Report will include the following

- Proof of Closure Notice (surface owner and Division District Office)
- Backfilling & cover installation
- Confirmation Sampling Analytical Results
- Application Rate & Seeding techniques
- Photo Documentation of Reclamation