District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., 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
July 21, 2008

For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office

4803

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

Type of action:
- [ ] Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
- [ ] Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
- [ ] Modification to an existing permit
- [X] Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, 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: **PO Box 4289, Farmington, NM 87499**
Facility or well name: **YAGER LS 101**
API Number: **30-045-34704** OCD Permit Number:
U/L or Qtr/Qtr: **M(SW/SW)** Section: **6** Township: **30N** Range: **11W** County: **San Juan**
Center of Proposed Design: Latitude: **36.83628 °N** Longitude: **108.03788 °W** NAD: [ ] 1927 [X] 1983
Surface Owner: [ ] Federal [ ] State [X] Private [ ] Tribal Trust or Indian Allotment

2
[X] **Pit:** Subsection F or G of 19.15.17 11 NMAC
Temporary: [X] Drilling [ ] Workover
[ ] Permanent [ ] Emergency [X] Cavitation [ ] P&A
[X] Lined [ ] Unlined Liner type. Thickness **12** mil [X] LLDPE [ ] HDPE [ ] PVC [ ] Other
[X] String-Reinforced
Liner Seams: [X] Welded [X] Factory [ ] Other Volume: **4400** bbl Dimensions L **65'** x W **45'** x D **10'**

3
[ ] **Closed-loop System:** Subsection H of 19.15.17.11 NMAC
Type of Operation: [ ] P&A [ ] Drilling a new well [ ] Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
[ ] Drying Pad [ ] Above Ground Steel Tanks [ ] Haul-off Bins [ ] Other
[ ] Lined [ ] Unlined Liner type: Thickness mil [ ] LLDPE [ ] HDPE [ ] PVD [ ] Other
Liner Seams: [ ] Welded [ ] Factory [ ] Other

4
[ ] **Below-grade tank:** Subsection I of 19.15 17 11 NMAC
Volume: bbl Type of fluid:
Tank Construction material:
[ ] 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 mil [ ] HDPE [ ] PVC [ ] Other

RECEIVED
SEP 2009
OIL CONS. DIV. DIST. 3

5
[ ] **Alternative Method:**
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6

Fencing: Subsection D of 19.15 17.11 NMAC *(Applies to permanent pit, 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' hogwire fence with a single strand of barbed wire on top.**

7

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)*

8

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 19.15.3.103 NMAC

9

Administrative Approvals 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:

☐ Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for consideration of approval. **(Fencing/BGT Liner)**

☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10

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. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. **Siting criteria does not apply to drying pads or above grade-tanks associated with a closed-loop system.**

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, 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. *(Applies to temporary, emergency, or cavitation pits and below-grade tanks)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. *(Applied to permanent pits)* - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No ☐ NA
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	☐ Yes ☐ No
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 - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ 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
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area. - 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 - FEMA map	☐ Yes ☐ No

11

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
- ☐ 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 _____ or Permit _____

12

Closed-loop Systems 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.

- ☐ Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9
- ☐ Siting Criteria Compliance Demonstrations (only for on-site closure) - 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 _____

☐ Previously Approved Operating and Maintenance Plan API _____

13

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 (I) 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

14

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 ☐ Closed-loop System ☐ 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
- ☐ Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)

15

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 F 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 I of 19.15.17.13 NMAC
- ☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.D NMAC)
Instructions Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings Use attachment if more than two facilities are required

Disposal Facility Name _____ Disposal Facility Permit #: _____

Disposal Facility Name. _____ Disposal Facility Permit #: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and
☐ Yes (If yes, please provide the information ☐ No

Required for impacted areas which will not be used for future service and operations

☐ Soil Backfill and Cover Design Specification - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19 15 17 13 NMAC
☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15 17 13 NMAC

17

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 may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval Justifications and/or demonstrations of equivalency are required Please refer to 19 15 17 10 NMAC for guidance

Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS: Data obtained from nearby wells	☐ Yes ☒ No ☐ N/A
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search, USGS; Data obtained from nearby wells	☒ Yes ☐ No ☐ N/A
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	☐ Yes ☒ No ☐ N/A
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 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 private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal fee 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, Visual inspection (certification) of the proposed site	☐ Yes ☒ No
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. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ 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
Within the area overlying a subsurface mine. - Written confiramtion or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☒ No
Within an unstable area. - 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. - FEMA map	☐ Yes ☒ No

18

On-Site Closure Plan Checklist: (19.15.17 13 NMAC) ***Instructions: Each of the following items must bee 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 F of 19.15.17.13 NMAC
☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements 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 Subsection F of 19.15.17.13 NMAC
☒ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F 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 I of 19.15.17.13 NMAC
☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC

19
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): Marie E Jaramillo Title: Staff Regulatory Technician
Signature: [signature] Date: 9/17/09
e-mail address: marie e jaramillo@conocophillips com Telephone: 505-326-9865

20
OCD Approval: ☒ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: [signature] **Approval Date:** 9-25-09

Title: Enviro/spec **OCD Permit Number:** ______

21
Closure Report (required within 60 days of closure completion): Subsection K of 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:** ______

22
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.

23
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:
Instructions: Please identify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: ______ Disposal Facility Permit Number: ______
Disposal Facility Name: ______ Disposal Facility Permit Number: ______

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and opeartions?
☐ Yes (If yes, please demonstrate compliane to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:
☐ Site Reclamation (Photo Documentation)
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique

24
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)
☐ Plot Plan (for on-site closures and temporary pits)
☐ Confirmation Sampling Analytical Results (if applicable)
☐ Waste Material Sampling Analytical Results (if applicable)
☐ 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

25
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is ture, 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: ______

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

No records found.

PLSS Search:

Section(s): 36 **Township:** 31N **Range:** 12W

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) (In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00322		DOM	SJ	1	4	4	12	30N	12W	228453	4079478*	66	40	26
SJ 00384		DOM	SJ	2	3	4	12	30N	12W	228258	4079493*	57	20	37
SJ 00643		DOM	SJ		4	4	12	30N	12W	228554	4079379*	75	51	24
SJ 03020		DOM	SJ	4	3	4	12	30N	12W	228258	4079293*	52	30	22
SJ 03027		SAN	SJ	3	4	3	12	30N	12W	227663	4079309*	100		
SJ 03129		DOM	SJ	2	4	3	12	30N	12W	227863	4079509*	44	35	9
SJ 03757 POD1		DOM	SJ		4	4	12	30N	12W	228428	4079355	22	12	10

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

Record Count: 7

PLSS Search:

Section(s): 1, 12 **Township:** 30N **Range:** 12W

***UTM location was derived from PLSS - see Help**

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) (In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 01811		DOM	SJ	2	2	31	31N	11W		230320	4083731*	89	50	39

Average Depth to Water: **50 feet**

Minimum Depth: **50 feet**

Maximum Depth: **50 feet**

Record Count: 1

PLSS Search:

Section(s): 31, 32 **Township:** 31N **Range:** 11W

***UTM location was derived from PLSS - see Help**

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) (In feet)

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

***UTM location was derived from PLSS - see Help**

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

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

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 00919		DOM	SJ	2	3	4	07	30N	11W	229844	4079443*	35	12	23
SJ 00920		DOM	SJ	2	3	4	07	30N	11W	229844	4079443*	35	12	23
SJ 00925		DOM	SJ	2	1	4	08	30N	11W	231467	4079798*	32	20	12
SJ 01115		DOM	SJ	4	2	2	08	30N	11W	231895	4080392*	35	26	9
SJ 01172		DOM	SJ		2	3	07	30N	11W	229375	4079755*	50	30	20
SJ 01310		DOM	SJ		3	3	07	30N	11W	228950	4079364*	80	50	30
SJ 01368		DOM	SJ		2	3	08	30N	11W	230968	4079711*	59	39	20
SJ 01404		DOM	SJ		3	4	07	30N	11W	229745	4079344*	40	15	25
SJ 01406		DOM	SJ		1	4	07	30N	11W	229764	4079745*	45	12	33
SJ 01425		DOM	SJ		4	3	07	30N	11W	229361	4079353*	55	25	30
SJ 01451		DOM	SJ		2	2	08	30N	11W	231796	4080493*	64	34	30
SJ 01468		DOM	SJ		4	3	07	30N	11W	229361	4079353*	60	25	35
SJ 01475		DOM	SJ	3	3	2	07	30N	11W	229682	4080046*	49	27	22
SJ 01484		DOM	SJ		3	3	07	30N	11W	228950	4079364*	61	10	51
SJ 01492		DOM	SJ			3	07	30N	11W	229151	4079565*	60	22	38
SJ 01520		DOM	SJ	2	1	4	08	30N	11W	231467	4079798*	58	18	40
SJ 01567		DOM	SJ	2	4	4	07	30N	11W	230247	4079431*	35	14	21
SJ 01570		DOM	SJ		1	4	08	30N	11W	231368	4079699*	59	37	22
SJ 01667		DOM	SJ		3	4	07	30N	11W	229745	4079344*	41	21	20
SJ 01814		DOM	SJ		2	2	08	30N	11W	231796	4080493*	52	10	42
SJ 01968		DOM	SJ		2	2	08	30N	11W	231796	4080493*	40	25	15
SJ 01999		DOM	SJ		2	2	08	30N	11W	231796	4080493*	61	45	16
SJ 02005		DOM	SJ	4	4	3	07	30N	11W	229460	4079252*	55	20	35
SJ 02006		DOM	SJ	2	4	3	07	30N	11W	229460	4079452*	50	24	26
SJ 02140		DOM	SJ	1	1	1	07	30N	11W	228886	4080666*	70	60	10
SJ 02194		DOM	SJ				07	30N	11W	229553	4079967*	59	22	37
SJ 02261		REC	SJ	2	3	4	08	30N	11W	231449	4079393*			
SJ 02293		DOM	SJ	2	4	2	08	30N	11W	231879	4080189*	50	35	15
SJ 02331		DOM	SJ	2	4	2	08	30N	11W	231879	4080189*	53	35	18
SJ 02413		DOM	SJ	1	4	3	08	30N	11W	230850	4079406*	40	31	9
SJ 02485		DOM	SJ	4	1	4	08	30N	11W	231467	4079598*	49	30	19
SJ 02715		DOM	SJ	4	4	3	07	30N	11W	229460	4079252*	68	20	48

***UTM location was derived from PLSS - see Help**

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

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

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
SJ 02906		DOM	SJ	4	1	4	07	30N	11W	229863	4079644*	45	24	21
SJ 02915		DOM	SJ	1	4	3	08	30N	11W	230850	4079406*	45		
SJ 02936		DOM	SJ	1	1	4	07	30N	11W	229663	4079844*	38	30	8
SJ 03030		DOM	SJ	2	4	2	08	30N	11W	231879	4080189*	56	40	16
SJ 03089		DOM	SJ	4	2	3	08	30N	11W	231067	4079610*	48	36	12
SJ 03098		DOM	SJ	2	2	2	08	30N	11W	231895	4080592*	63	23	40
SJ 03154		DOM	SJ	4	1	1	08	30N	11W	230700	4080431*	40		
SJ 03199		DOM	SJ	1	4	3	08	30N	11W	230850	4079406*	40	20	20
SJ 03202		DOM	SJ	2	4	2	08	30N	11W	231879	4080189*	45		
SJ 03210		DOM	SJ	2	2	2	08	30N	11W	231895	4080592*	60	30	30
SJ 03240		DOM	SJ	2	2	2	08	30N	11W	231895	4080592*	50		
SJ 03245		DOM	SJ	4	4	4	06	30N	11W	230318	4080843*	80	65	15
SJ 03267		DOM	SJ	3	1	2	05	30N	11W	231359	4081993*	83	60	23
SJ 03271		DOM	SJ	2	3	2	07	30N	11W	229882	4080246*			
SJ 03303		DOM	SJ	2	4	2	08	30N	11W	231879	4080189*	55	30	25
SJ 03305		DOM	SJ	2	4	2	08	30N	11W	231879	4080189*	50		
SJ 03313		DOM	SJ	4	1	4	08	30N	11W	231467	4079598*	58	20	38
SJ 03367		DOM	SJ	4	4	3	08	30N	11W	231050	4079206*	29	5	24
SJ 03378		DOM	SJ	2	4	2	08	30N	11W	231879	4080189*	50		
SJ 03381		DOM	SJ	2	2	2	08	30N	11W	231895	4080592*	50		
SJ 03398		DOM	SJ	1	2	2	08	30N	11W	231695	4080592*	80	20	60
SJ 03419		EXP	SJ	2	4	4	08	30N	11W	231847	4079381*	41	9	32
SJ 03431		DOM	SJ		4	1	08	30N	11W	230985	4080115*	50		
SJ 03465		DOM	SJ	4	3	2	07	30N	11W	229882	4080046*	80		
SJ 03480		DOM	SJ	4	2	3	08	30N	11W	231067	4079610*	50		
SJ 03484		DOM	SJ	3	4	3	07	30N	11W	229260	4079252*	75		
SJ 03630		DOM	SJ	3	3	3	07	30N	11W	228849	4079263*	68	24	44
SJ 03639		DOM	SJ	4	2	2	08	30N	11W	231895	4080392*	60	24	36
SJ 03642		DOM	SJ	2	1	4	08	30N	11W	231467	4079798*	58	32	26
SJ 03646		DOM	SJ	4	2	2	08	30N	11W	231895	4080392*	61	24	37
SJ 03653		DOM	SJ	4	2	2	08	30N	11W	231895	4080392*	62	26	36
SJ 03794 POD1		DOM	SJ	3	1	3	07	30N	11W	228894	4079720	44	27	17

***UTM location was derived from PLSS - see Help**

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

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

POD Number	Sub basin	Use	County	Q Q Q 64 16 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column

Average Depth to Water: **32 feet**

Minimum Depth: **5 feet**

Maximum Depth: **300 feet**

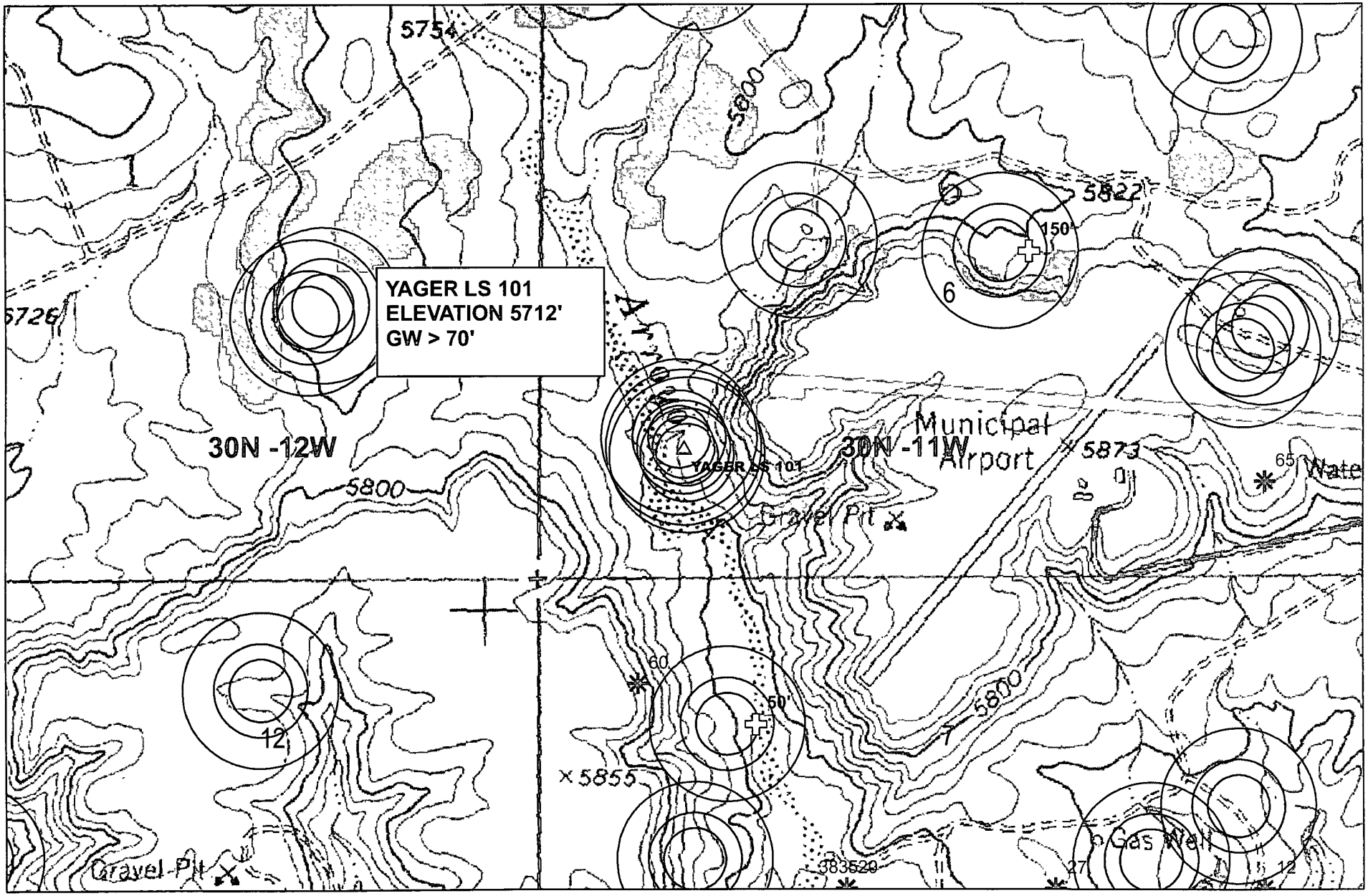
Record Count: 93

PLSS Search:

Section(s): 5, 6, 7, 8 **Township:** 30N **Range:** 11W

ConocoPhillips

TOPO MAP YAGER LS 101



Data Source
Aerial flown locally Sedgewick in 2005.
Wetlands Data Aquired from U S. Fish and Wildlife Http://wetlandswms.er.usgs.gov
USGS Topo

200FT
300FT
500FT
Wetlands

iWaters
COP

iWaters
SEC
QTR-QTR
QTR-QTR-QTR

1:10,000

0 250 500 1,000
Feet

NAD_1983_SP_ NM West_FIPS_ 3003

September 14, 2009

TIERRA CORROSION CONTROL, INC.
DRILLING LOG

COMPANY: Conoco Phillips
DATE:
LOCATION: Yeager LS 101
LEGALS: S6 T30N R11W
COUNTY: San Juan
STATE: NM
DRILLER: Gilbert Peck
DEPTH: 70'
BIT SIZE:
CASING SIZE/TYPE:
COKE TYPE:
LBS COKE BACKFILL:
VENT PIPE:
PERF PIPE:
ANODE TYPE:
ANODE AMOUNT:
BOULDER DRILLING:

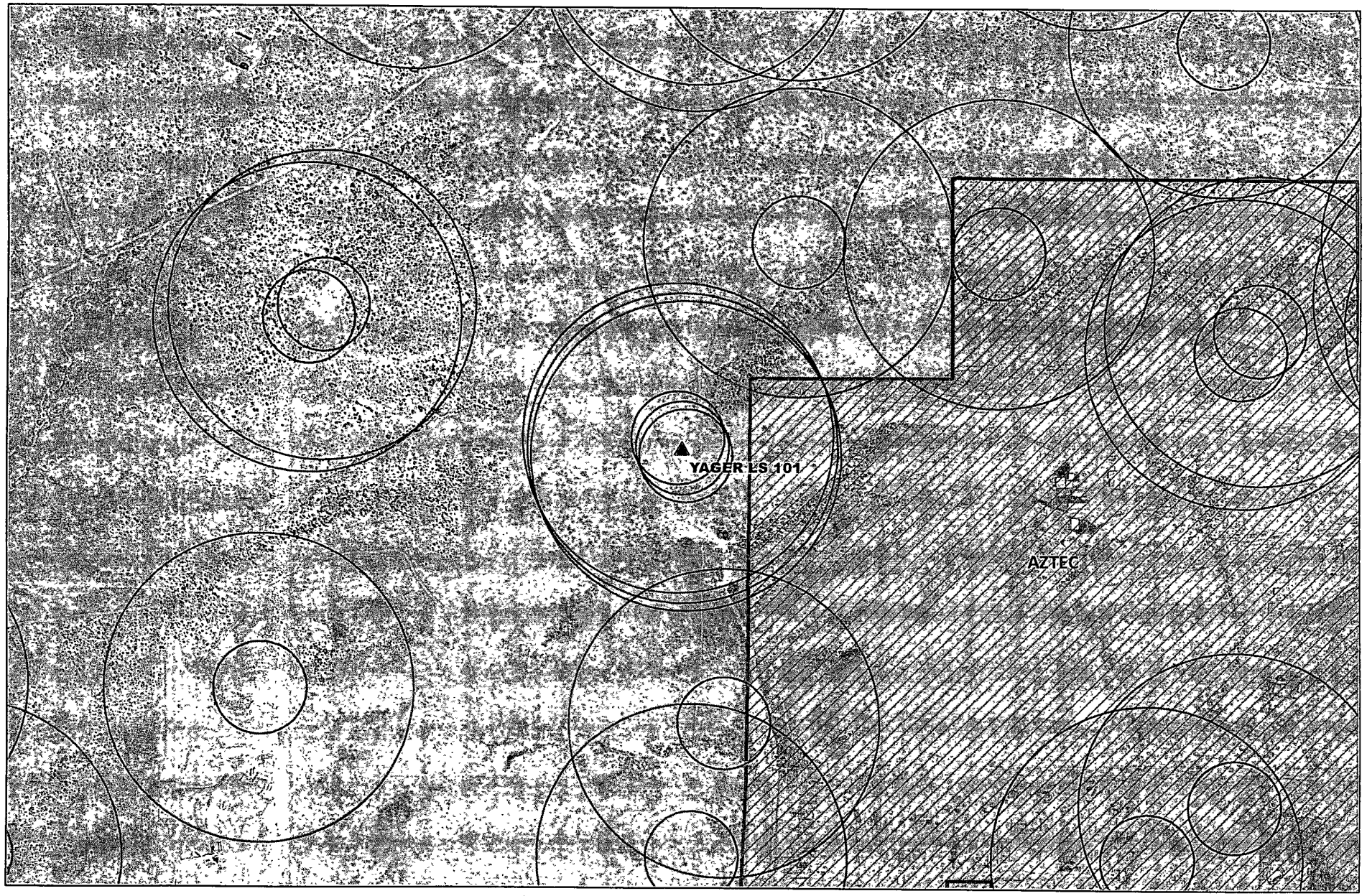
DEPTH	DRILLER'S LOG	AMPS	DEPTH	DRILLER'S LOG	AMPS
20	Casing		310		
25	Sandy		315		
30	↓		320		
35			325		
40	Sandstone		330		
45	↓		335		
50			340		
55			345		
60			350		
65	Sand		355		
70	↓		360		
75			365		
80			370		
85			375		
90			380		
95			385		
100			390		
105			395		
110			400		
115			405		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

ANODE #	DEPTH	NO COKE	COKE
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			

WATER DEPTH:
ISOLATION PLUGS:
LOGING VOLTS:
VOLT SOURCE: AUTO BATTERY
TOTAL AMPS:
TOTAL GB RESISTANCE:
REMARKS:

ConocoPhillips

AERIAL MAP YAGER LS 101



300FT **SJB Tri City Outlines**

1000FT **CITY NAME**

AZTEC

BLOOMFIELD

FARMINGTON

Data Source
Aerial flown locally Sedgewick in 2005
Wetlands Data Aquired from U.S. Fish and Wildlife Http://wetlandswms.er usgs.gov
USGS Topo

1:10,000

0 250 500 1,000 Feet

NAD_1983_SP_ NM West_FIPS_ 3003

September 14, 2009

YAGER LS 101 MINES MILLS& QUARRIES

Mines, Mills & Quarries Commodity Groups

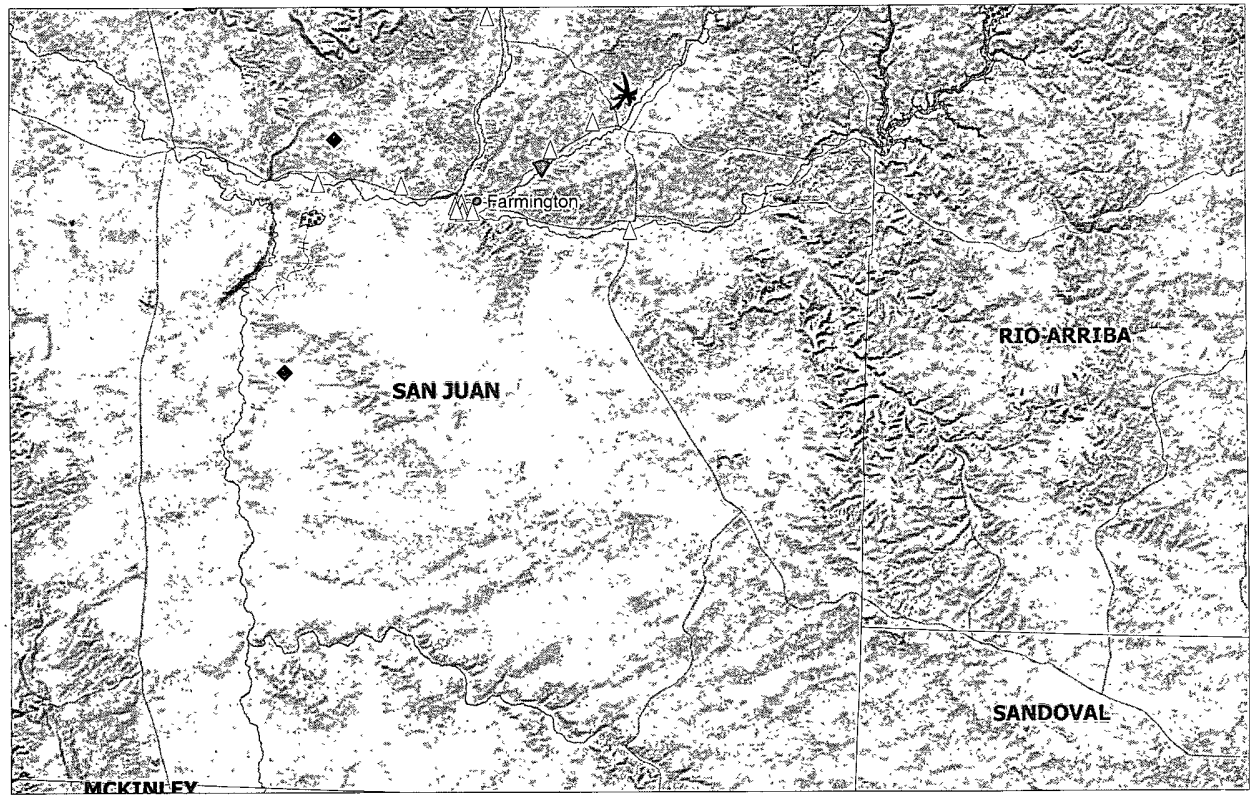
- Aggregate & Stone Mines
- Coal Mines
- Industrial Minerals Mines
- Industrial Minerals Mills
- Metal Mines and Mill Concentrate
- Potash Mines & Refineries
- Smelters & Refinery Ops.
- Uranium Mines
- Uranium Mills

Population

- Cities - major

Transportation

- Railways
- Interstate Highways
- Major Roads



SCALE 1 : 1,003,239

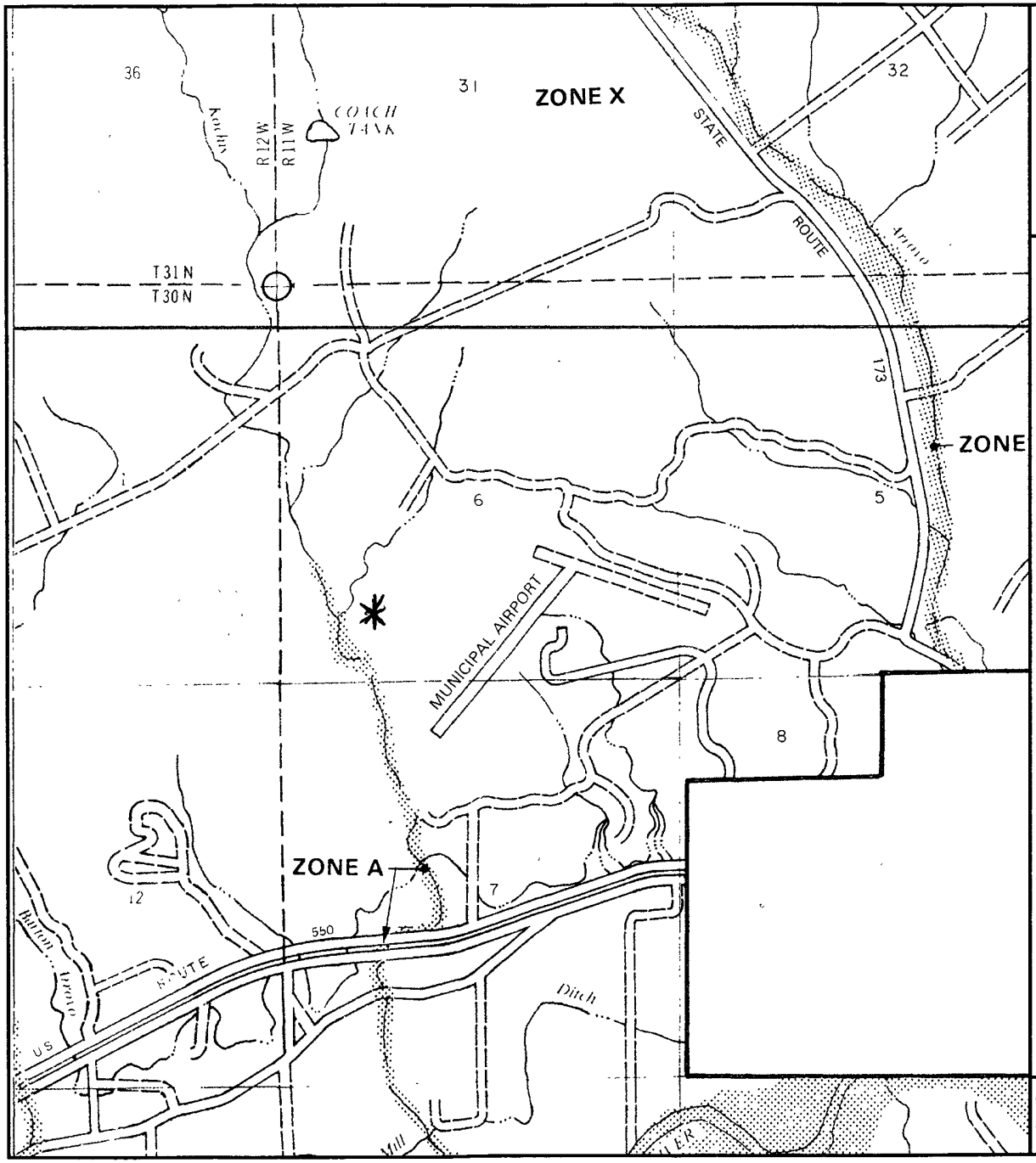
10 0 10 20 30

MILES

N

http://www.emnrd.state.nm.us/MMD/MMQonline/MMQonline-PUBLIC-PROD.mwf

Monday, September 14, 2009 2:08 PM



N

APPROXIMATE SCALE

2000 0 2000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM

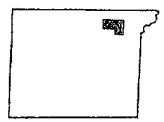
FLOOD INSURANCE RATE MAP

SAN JUAN COUNTY, NEW MEXICO

UNINCORPORATED AREAS

PANEL 350 OF 1450

(SEE MAP INDEX FOR PANELS NOT PRINTED)



PANEL LOCATION

COMMUNITY-PANEL NUMBER

350064 0350 B

EFFECTIVE DATE:

AUGUST 4, 1988

Federal Emergency Management Agency

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Yager LS 101 is not located in an unstable area. The location is not over a mine and is not on the side of a hill as indicated on the Mines, Mills and Quarries Map and Topographic Map. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse as indicated on the Topographic Map. The location is not within a 100-year floodplain area as indicated on the FEMA Map. The test well for the subject well 'Yager LS 101 was drilled to 70' with an elevation of 5712' and no groundwater was found. Therefore the groundwater depth is greater than 70'.There are five iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and Nacimiento formation will create a stable area for this new location.

Hydrogeological Report for Yager LS 101

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 comnformably 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 e 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 conductive 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., Craigg, 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.

District I
1625 N French Dr., Hobbs, NM 88240

District II
1301 W Grand Avenue, Artesia, NM 88210

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
	71629	BASIN FRUITLAND COAL

[4] Property Code	[5] Property Name	[6] Well Number
31850	YAGER LS	101

[7] OGRID No	[8] Operator Name	[9] Elevation
217817	CONOCOPHILLIPS COMPANY	5712'

[10] Surface Location

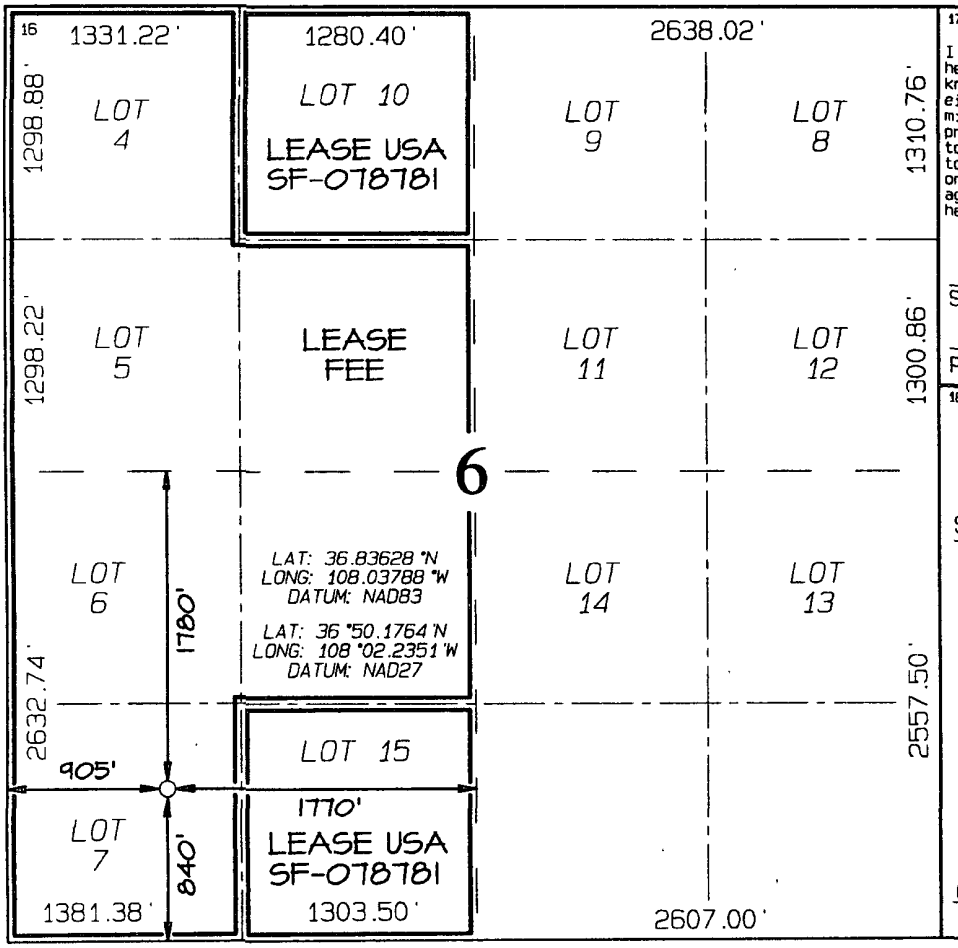
UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	6	30N	11W		840	SOUTH	905	WEST	SAN JUAN

[11] Bottom Hole Location If Different From Surface

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No
325.46 Acres - W/2			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division

Signature Date

Virgil E. Chavez

Printed Name

[18] SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief

Survey Date: DECEMBER 28, 2007

Signature and Seal of Professional Surveyor

JASON C. EDWARDS
NEW MEXICO
15269
REGISTERED PROFESSIONAL SURVEYOR

JASON C. EDWARDS

Certificate Number 15269

ConocoPhillips Company
GRFS / PTRRC – San Juan Business Unit
Juanita Farrell
3401 East 30th Street
Farmington, NM 87402
Telephone: (505) 326-9597
Facsimile: (505) 324-6136

September 14, 2009

VIA CERTIFIED MAIL – RETURN RECEIPT REQUESTED
7179-1000-1642-0036-3633

Welles Farms Partnership, LLP
Attn: Holly P. Welles
79 Lafayette Rd.
Princeton, NJ 08540-3073

Subject: **Yager LS 101**
Sec. 6 T30N R11W
San Juan County, New Mexico

Dear Landowner:

Pursuant to Paragraph 1 (b) of Subsection F of 19.15.17.13 NMAC, an operator shall provide the surface owner of the operator's proposal to close a temporary pit on-site in compliance with the on-site closure methods specified in the same Subsection of the NMAC. In compliance of this requirement, please consider this notification of ConocoPhillips' intent to close the temporary pit on the above referenced location.

If you have any questions, please contact Max Blair @ (505) 599-4021 or the PTRRC Department @ (505) 324-6111.

Sincerely,

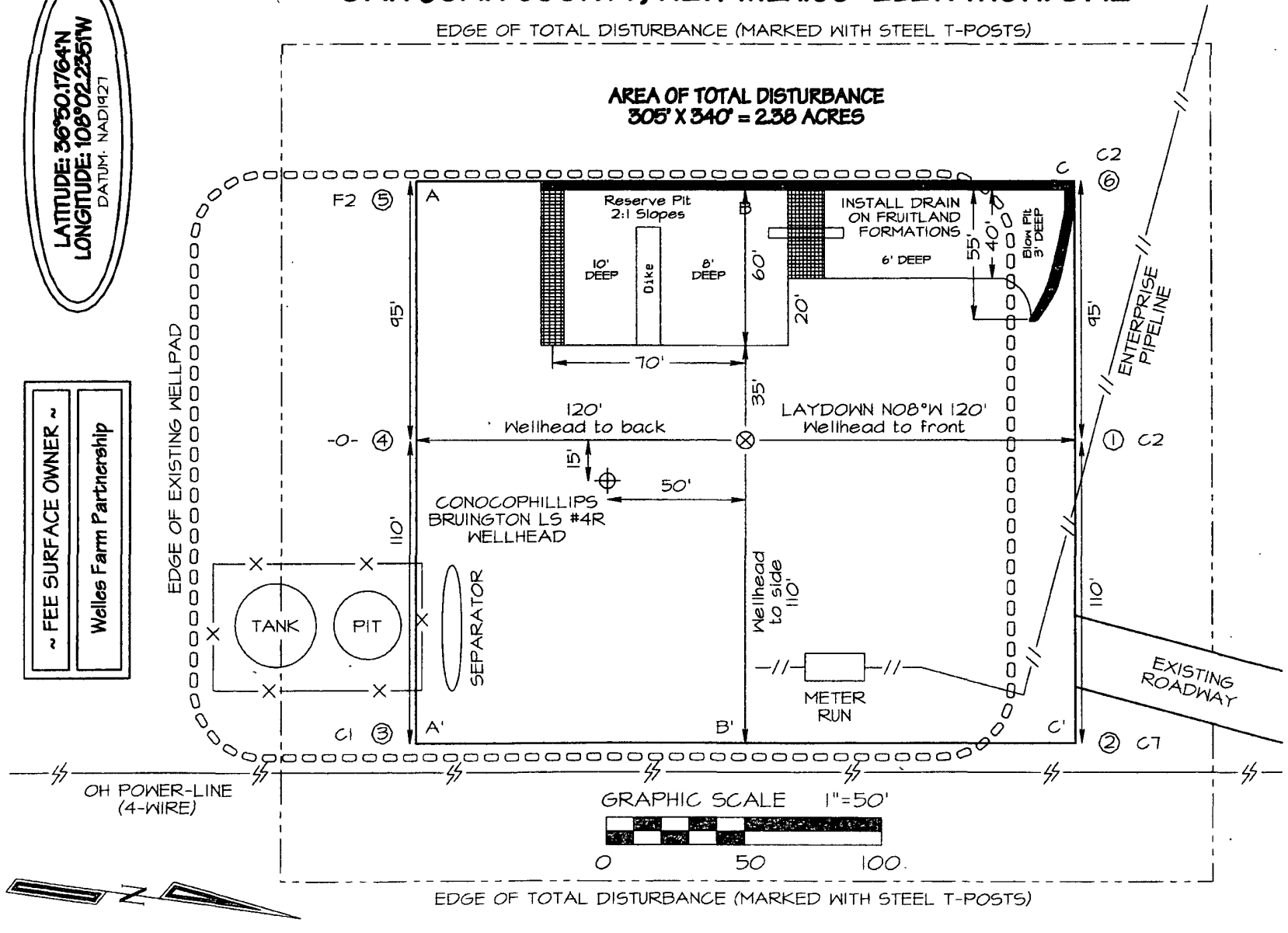
Juanita Farrell

Juanita Farrell
Staff Associate, PTRRC

CONOCOPHILLIPS COMPANY YAGER LS #101
840' FSL & 905' FWL, SECTION 6, T30N, R11W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 5712'

LATITUDE: 36°50.1764'N
LONGITUDE: 108°02.2351'W
DATUM: NAD1927

~ FEE SURFACE OWNER ~
Welles Farm Partnership

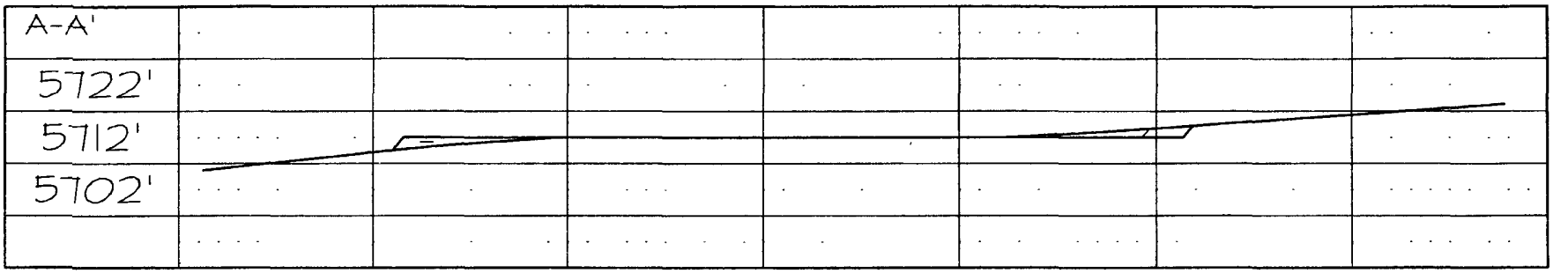


NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

CONOCOPHILLIPS COMPANY YAGER LS #101
840' FSL & 905' FWL, SECTION 6, T30N, R11W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 5712'

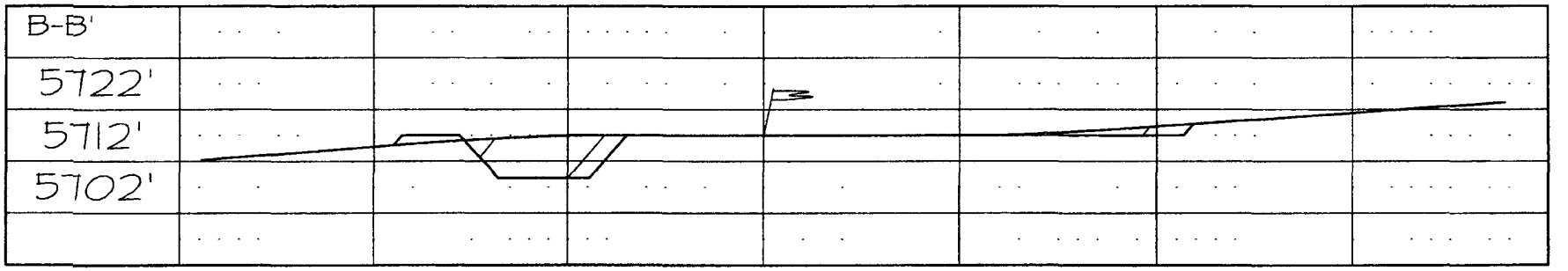
HORIZONTAL SCALE 1"=40' VERTICAL SCALE 1"=30'

A-A'



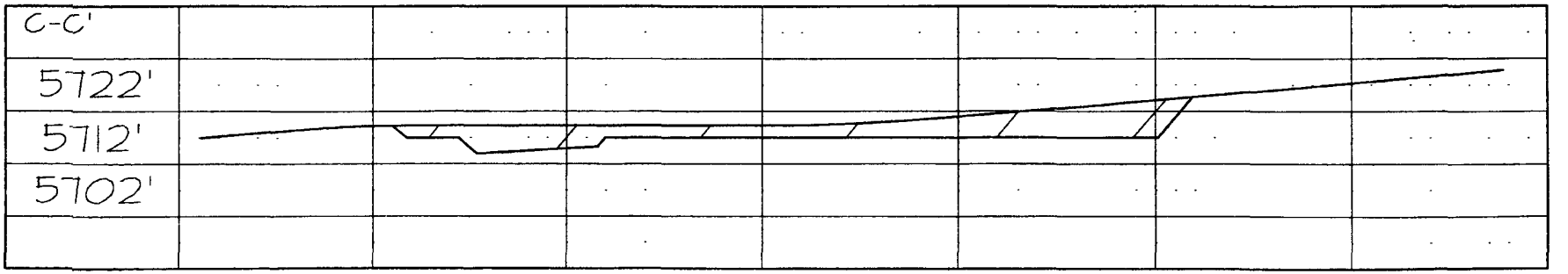
C/L

B-B'



C/L

C-C'



C/L

NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

ConocoPhillips Company
San Juan Basin
Closure Plan

In accordance with Rule 19.15.17.12 NMAC the following information describes the closure requirements of temporary pits on ConocoPhillips Company (COPC) locations. This is COPC's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of pit closure. Closure report will be filed on C-144 and incorporate the following:

- Details on Capping and Covering, where applicable.
- Plot Plan (Pit Diagram)
- Inspection Reports
- Sampling Results
- C-105
- Copy of Deed Notice will be filed with County Clerk

General Plan:

1. All free standing liquids will be removed at the start of the pit closure process from the pit and disposed of in a division–approved facility or recycle, reuse or reclaim the liquids in a manner that the appropriate division district office approves. The facilities to be used will be Basin Disposal (Permit #NM-01-005) and Envirotech Land Farm (Permit #NM-01-011)
2. The preferred method of closure for all temporary pits will be on-site burial, assuming that all the criteria listed in sub-section (B) of 19.15.17.13 are met.
3. The surface owner shall be notified of COPC's closing of the temporary pit prior to closure as per the approved closure plan via certified mail, return receipt requested.
4. Within 6 months of the Rig Off status occurring COPC will ensure that temporary pits are closed, re-contoured, and reseeded.
5. Notice of Closure will be given prior to the Aztec Division office between 72 hours and one week via email, or verbally. The notification of closure will include the following:
    i. Operator's name
    ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at the San Juan County Landfill located on CR 3100.
7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	1000/500

9. A five point composite sample will be taken from the cavitation pit pursuant to 19.15.17.13(B)(1)(b)(i) in order to assure there has not been any type of release.

Components	Tests Method	Limit (mg/Kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	2500
GRO/DRO	EPA SW-846 8015M	500
Chlorides	EPA 300.1	500

10. Upon completion of solidification and testing standards being passed, the pit area will be backfilled with compacted, non-waste containing, earthen material. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material to establish vegetation at the site, or the background thickness of topsoil, whichever is greater. If standard testing fails COPC will dig and haul all contents pursuant to 19.15.17.13.i.a. After doing such, confirmation sampling will be conducted to ensure a release has not occurred.
11. During the stabilization process if the liner is ripped by equipment the Aztec OCD office will be notified within 48 hours and the liner will be repaired if possible. If the liner can not be repaired then all contents will be excavated and removed.
12. Dig and Haul Material will be transported to the Envirotech Land Farm located 16 miles south of Bloomfield on Angel Peak Road, CR 7175. Permit # NM010011
13. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.
14. Notification will be sent to OCD when the reclaimed area is seeded.
15. COPC shall seed the disturbed areas the first growing season after the operator closes the pit. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM or Forest Service stipulated seed mixes will used on federal lands. Vegetative cover will equal 70% of the native perennial vegetative cover (un-impacted) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. Repeat seeding or planting will be continued until successful vegetative growth occurs.

Type	Variety or Cultivator	PLS/A
Western wheatgrass	Arriba	3.0
Indian ricegrass	Paloma or Rimrock	3.0
Slender wheatgrass	San Luis	2.0
Crested wheatgrass	Hy-crest	3.0
Bottlebrush Squirreltail	Unknown	2.0
Four-wing Saltbrush	Delar	.25

Species shall be planted in pounds of pure live seed per acre:
Present Pure Live Seed (PLS) = Purity X Germination/100
Two lots of seed can be compared on the basis of PLS as follows:

Source No. One (poor quality)		Source No. two (better quality)	
Purity	50 percent	Purity	80 percent
Germination	40 percent	Germination	63 percent
Percent PLS	20 percent	Percent PLS	50 percent
5 lb. bulk seed required to make 1 lb. PLS		**2 lb. bulk seed required to make 1 lb. PLS**	

16. The temporary pit will be located with a steel marker, no less than four inches in diameter, cemented in a hole three feet deep in the center of the onsite burial upon the abandonment of all the wells on the pad. The marker will be flush with the ground to allow access of the active well pad and for safety concerns. The marker will include a threaded collar to be used for future abandonment. The top of the marker will contain a welded steel 12" square plate that indicates the onsite burial of the temporary pit. The plate will be easily removable and a four foot tall riser will be threaded into the top of the collar marker and welded around the base with the operator's information at the time of all wells on the pad are abandoned. The operator's information will include the following: Operator Name, Lease Name, Well Name and number, Unit Number, Section, Township, Range and an indicator that the marker is an onsite burial location.