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

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 June 16, 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.

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

Type of action:	X 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

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 hability should operations result in pollution of surface water, ground water or the

environment. Nor does approval relieve the operator of its responsibility to comply w	th any other applicable governmental authority's rules, regulations or ordinances
Operator: Burlington Resources Oil & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: McGrath C #1	
API Number: 30-045-08945 OC	CD Permit Number:
U/L or Qtr/Qtr: P(SESE) Section: 34 Township: 30N	Range: 12W County: San Juan
	ongitude: 108.080567053' W NAD: 1927 X 1983
Surface Owner: X Federal State Private Triba	al Trust or Indian Allotment
X Pit: Subsection F or G of 19.15.17.11 NMAC	Closed-loop Systems: Subsection H of 19.15.17.11 NMAC
Temporary: Drilling X Workover	Drying Pad Tanks Haul-off Bins Other:
Permanent Emergency Cavitation	Lined Unlined
X Lined Unlined	Liner type: Thickness mil LLDPE HDPE PVC
Liner type: Thickness 20 mil X LLDPE HDPE PVC	Other:
Other String-Reinforced	Seams: Welded Factory Other:
Seams: X Welded X Factory Other	Volume:bblyd3
Volume: 7000 bbl Dimensions: L 120' xW 55' xD 12'	Dimernsions: Lengthx Width
Below-grade tank: Subsection I of 19.15 17.11 NMAC	Fencing: Subsection D of 19.15 17.11 NMAC
Volume: bbl	Chain link, six feet in height, two strangs of barbed wire at top
Type of fluid:	Four foot height, four strands of barbed wire evenly spaced between
Tank Construction Material:	one and four feet
Secondary containment with leak detection	Netting: Subsection E of 19.15.17.11
Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off	Screen Netting Other
Visible sidewalls and liner Visible sidewalls only	Monthly inspections Signal Subsection Cost 10 15 17 11 NIMAC
Other:	Signs: Subsection C of 19.15 17 11 NMAC 12"x 24", 2" lettering, provided Operator's name, site location, and
Liner type: Thickness:mtl HDPE PVC	emergency telephone numbers
Other:	Signed in compliance with 19.15.3.103 NMAC
	A signed in complaints with 1970 and 19
Alternative Method:	Administrative Approvals and Exceptions:
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration	Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.
of approval.	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 or the Santa Fe Environmental Bureau
	office for consideration of approval. (Fencing in Design Plan)
	Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.
	Environmental Dareau office for consideration of approval.

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	X 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; Vısual inspection (certification) of the proposed site	Yes	X No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	XNo
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	\prod_{NA}	
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image		
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No
 (Applied to permanent pits) Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 	XNA	
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.	Yes	X No
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.		
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	□Yes	XNo
- Written confirmation or verification from the municipality; Written approval obtained from the municipality		
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	X No
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division	□Yes	XNo
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	Yes	X No
Within a 100-year floodplain - FEMA map	Yes	XNo
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 de-	ocuments ar	e attached.
X 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 Maintence Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	NMAC	
Previously Approved Design (attach copy of API Number: or Permit		
Closed-loop Systems Permit Application Attachment Checklist: Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the dattached. Geologic and Hydrogeologic Data (required for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19. Siting Criteria Compliance Demonstrations (required for on-site closure) - 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 - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	.15.17.9	re
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Hydrogeologic Report - based upon the expression of Paragraph (10 do Subsection B of 19 15.17.10 NMAC	Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC							
Sting Criteria Compilance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Curtified Rigineering 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 Descends 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 Count-Quality Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Count-Quality Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Count-Quality Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Preclosed and Overtropping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Distance of Hazardous Odoxa, including H2S, Prevention Plan Energency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Evension Control Plan Evension Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Proposed Closure Proposed Closure Closure Method (Only for temporary pits and closed-loop National Plans Oil Field Waste Steamation and Removal Quality Country		ached.						
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Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Lear Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Corrol@Quality Assessment Construction and Installation Plans of 19.15.17.12 NMAC Freeheard and Overtoping Prevention Plan based upon the appropriate requirements of 19.15.17.11 NMAC Proposed and Overtoping Prevention Plan based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H2S. Prevention Plan Bension Control Plan Bension Control Plan Bension Control Plan Bension Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Proposed Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Proposed Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Proposed Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Proposed Closure Plan - Based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC Proposed Closure Plan - Based upon the appropriate requirements of Subsection C of 19.15.17.10 NMAC Proposed Closure Plan - Based upon the Appropriate Control Plan Proposed Closure Plan - Bension Remains and Plan -	Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC							
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Form C-144 Oil Conservation Division Page 3 of 4

Waste Excavation and Removal Closure Plan Checklist: (19.15 17.13 N					
to the closure plan. Please indicfate, by a check mark in the box, that the documents are attached.					
Protocols and Procedures - based upon the appropriate requirements of					
Confirantion Sampling Plan (if applicable) - based upon the appropria	•				
Disposal Facility Name and Permit Number (for liquids, drilling fluids Soil Backfill and Cover Design Specifications - based upon the approp					
Re-vegetation Plan - based upon the appropriate requirements of Subse	•				
36					
Site Reclamation Plan - based upon the appropriate requirements of Su	losection G of 19.13.17.13 NMAC				
Waste Removal Closure for Closed-loop Systems That Utilize Haul-off E	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.	D' I Frank Danisk M. I.				
Disposal Facility Name:	Disposal Facility Permit Number.				
On-Site Closure Plan Checklist: (19 15 17.13 NMAC) Instructions: Each of the check mark in the box, that the documents are attached.	following items must bee attached to the closure plan. Please indicate, by a				
X Siting Criteria Compliance Demonstrations - based upon the appropria	•				
Proof of Surface Owner Notice - based upon the appropriate requirement	ents of Subsection F of 19.15.17.13 NMAC				
Construction and Design of Burial Trench (if applicable) based upon the	* ' ' '				
Protocols and Procedures - based upon the appropriate requirements of	f 19.15.17.13 NMAC				
X Confirmation Sampling Plan (if applicable) - based upon the appropria	•				
Waste Material Sampling Plan - based upon the appropriate requireme	nts of Subsection F of 19.15 17.13 NMAC				
X Disposal Facility Name and Permit Number (for liquids, drilling fluids	and drill cuttings or in case on-site closure standards cannot be				
X Soil Cover Design - based upon the appropriate requirements of Subse	ction H of 19.15.17.13 NMAC				
X Re-vegetation Plan - based upon the appropriate requirements of Subse	ection I of 19.15.17.13 NMAC				
Ste Reclamation Plan - based upon the appropriate requirements of Su	absection G of 19.15 17.13 NMAC				
Operator Application Certification:					
I hereby certify that the information submitted with this application is true, accurate	e and complete to the best of my knowledge and belief.				
Name (Print): Crystal Tafoya	Title: Regulatory Technician				
Signature: Talona	Date: 7/17/2008				
e-mail address: dvstal tafova@conocoohillins.com					
e-mail address: <u>dfystal tafoya@conocodhillips/com</u>	Telephone: 505-326-9837				
	Telephone: SU5-326-9837 Closure Plan (only)				
OCD Approval: Permit Application (including closure plan)					
OCD Approval: Permit Application (including closure plan) OCD Representative Signature:	Closure Plan (only) Approval Date: 8-4-08				
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OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Particle Proof of Closure Notice Proof of Deed Notice (if applicable) Plot Plan Confirmation Sampling Analytical Results	Approval Date: 8-4-08 OCD Permit Number 17 13 NMAC Closure Completion Date: ernative Closure				
OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Part of Spec Closure Report (required within 60 days of closure completion): Subsection K of 19 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Approval Date: 8-4-08 OCD Permit Number 17 13 NMAC Closure Completion Date: ernative Closure				
OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Particle Proof of Closure Method: If different from approved plan, please explain Closure Report Attactment Checklist: Instructions: Each of the following items box, that the documents are attached. Proof of Closure Notice Proof of Deed Notice (If applicable) Plot Plan Confirmation Sampling Analytical Results Waste Material Sampling Analytical Results Disposal Facility Name and Permit Number	Approval Date: 8-4-08 OCD Permit Number 17 13 NMAC Closure Completion Date: ernative Closure				
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OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Part Spec Closure Report (required within 60 days of closure completion): Subsection K of 19 15 10 15 16 16 16 16 16 16 16 16 16 16 16 16 16	Approval Date: 8-4-8 OCD Permit Number 17 13 NMAC Closure Completion Date: ernative Closure must be attached to the closure report. Please indicate, by a check mark in the Longitude: NAD: 1927 1983 e. accurate and complete to the best of my knowledge and belief I also certify that the				
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OCD Approval: Permit Application (including closure plan) OCD Representative Signature: Ball Color Closure Report (required within 60 days of closure completion): Subsection K of 19 15 1	Approval Date: 8-4-8 OCD Permit Number 17 13 NMAC Closure Completion Date: ernative Closure must be attached to the closure report. Please indicate, by a check mark in the Longitude: NAD: 1927 1983 e. accurate and complete to the best of my knowledge and belief I also certify that the proved closure plan Title:				

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30N	Range: 12W	Sections: 26,	27,28,3	3,34,35	
NAD27 X:	Y:	Zone:		Search Radius:	4
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POD / Sur	face Data Repor	t Avg ter Column Repor		to Water Report]
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WATER COLUMN REPORT 07/15/2008

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<u>SJ 00127</u>	30N	12W		1	2					30	5	2
SJ 01646	30N	12W			3					23	6	1
SJ 01599	30N	12W		1	3					, 25	6	1
SJ 01617	30N	12W	27	1	3					24	4	2
SJ 01239	30N	12W		1	3	3				23	5	1
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SJ 03254	30N	12W		2	1	1				35	10	2
<u>SJ 00276</u>	30N	12W		2	1	2				35	3	3
SJ 03243	30N	12W		2	1	2				35	6	2
SJ 03433	30N	12W		2	1	2				25		
SJ 02784	30N	12W		2	1	2				30		
SJ 03496	30N	12W		2	1	4				50	10	4
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SJ 02498	30N	12W	27	3	1	1				21	5	1
SJ 00844	30N	12W	27	3	1	2				31	12	1
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SJ 03133	30N	12W 33	1		4		39	20	1
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SJ 00474	30N	12W 33	2	3	3		104	60	4
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SJ 00505	30N	12W 33	2	4			85	45	4
SJ 01286	30N	12W 33	3				265	227	3
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SJ 00613	30N	12W 33		2	3		147	95	Ē
SJ 01633	30N	12W 33	3				280	240	Ĺ
SJ 02212	30N	12W 33	3				320	269	Ę
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SJ 00986	30N	12W 33	4		_		104	80	
SJ 01231	30N	12W 33		2	3		246	161	3
SJ 00428	30N	12W 34	4	4			107	25	3

Record Count: 79

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 29	N Range: 12W	Sections:	2,3,4		
NAD27 X:	Y:	Zone:		Search Radius:	
County:	Basin:	í		Number:	Suffix:
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WATER COLUMN REPORT 07/15/2008

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are biggest to smallest) Depth Depth POD Number Tws Rng Sec q q Well Water RG 36980 29N 12W 02 1 113 40 RG 27250 29N 12W 02 1 85 40 SJ 01504 2 1 29N 12W 04 180 155

Record Count: 5

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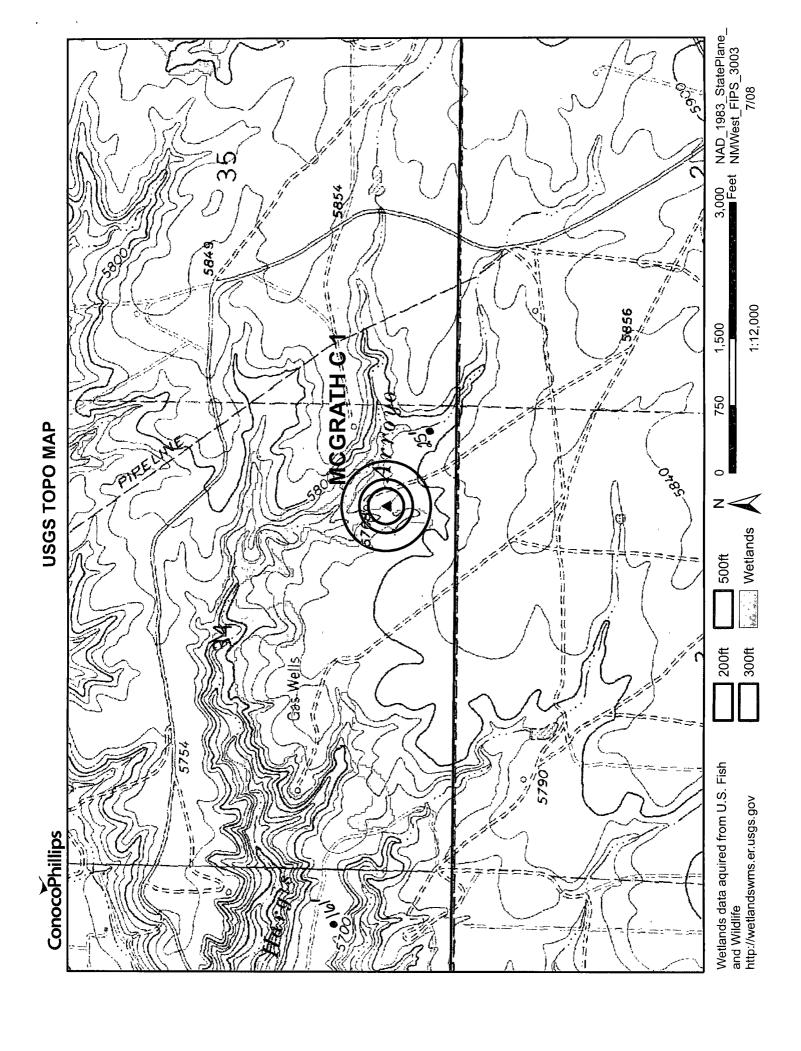
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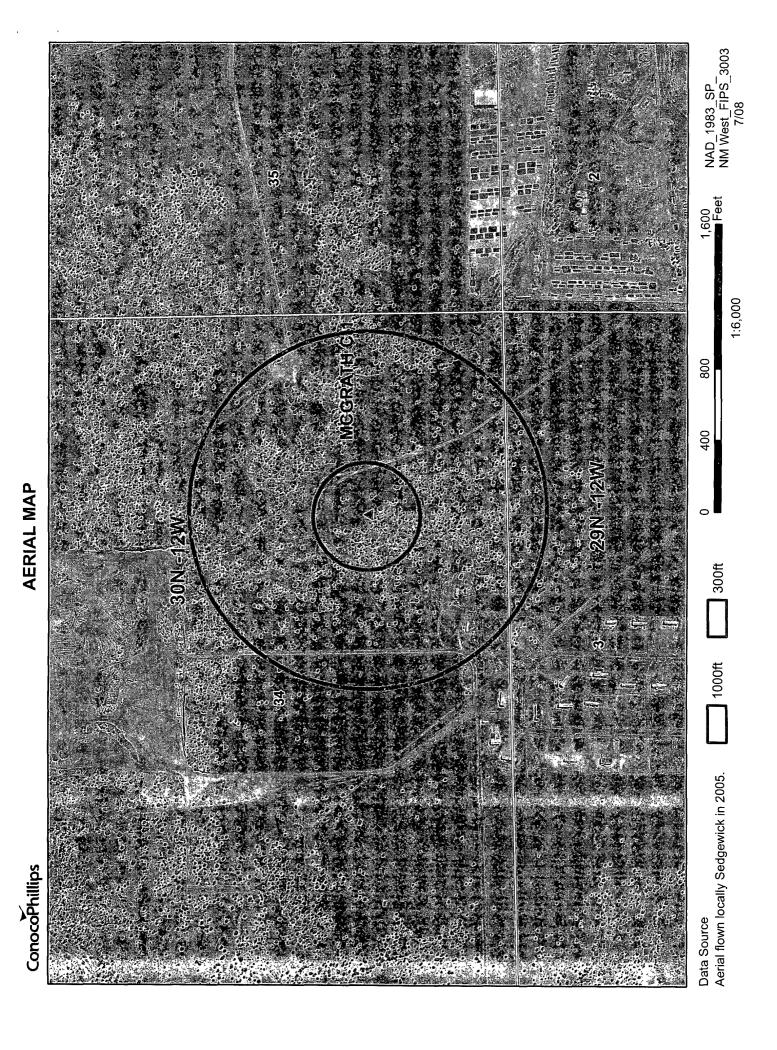
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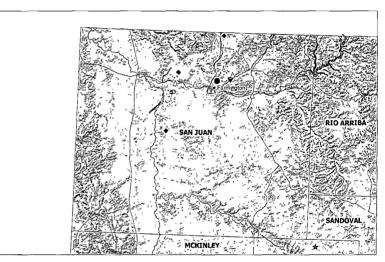
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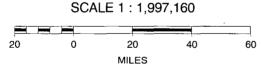
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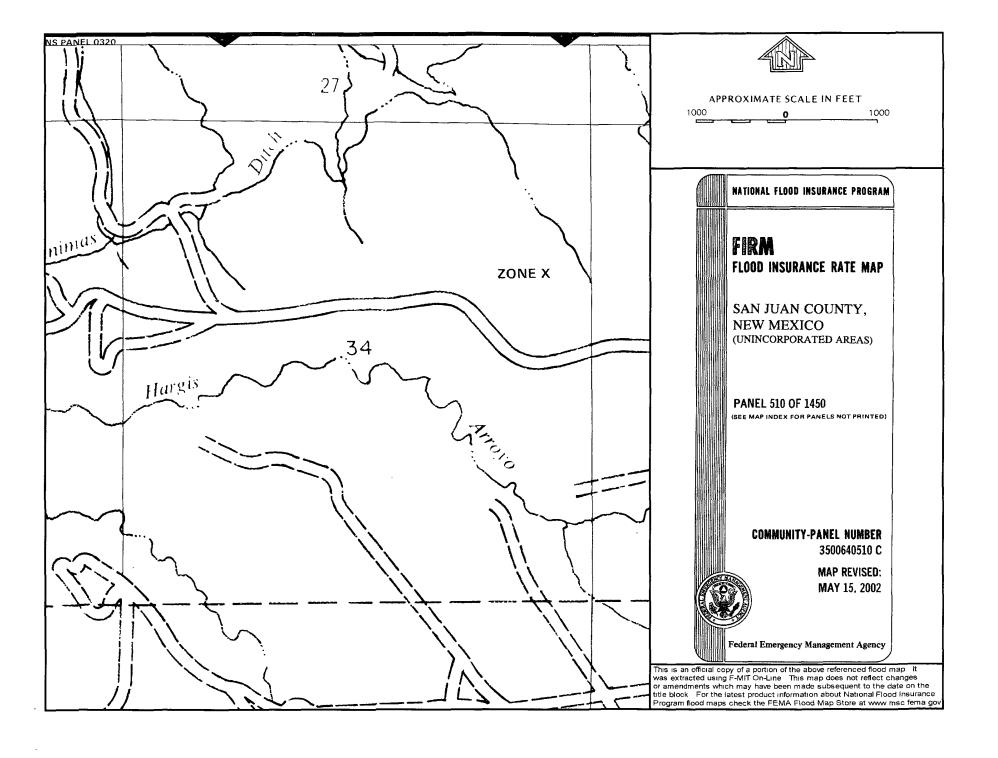
McGrath C #1 Mines, Mills and Quarries Web Map











Siting Criteria Compliance Demonstrations

The McGrath C #1 is not located in an unstable area. The location is not over a mine and is not on the side of a hill. The location of the excavated pit material will not be located within 300' of any continuously flowing watercourse or 200' from any other watercourse.

Hydrogeological Report for McGrath C #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 commformably 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.

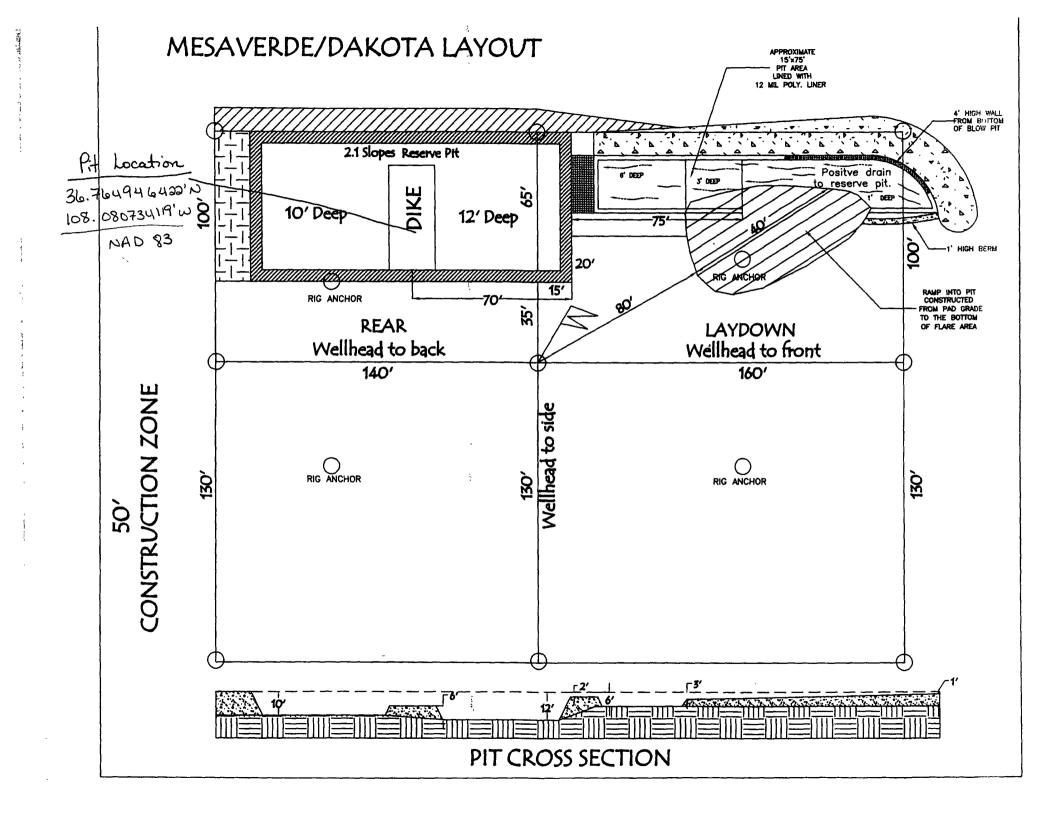
Fassett, J.E., 1974, Cretaceous and Tertiary rocks of the eastern San Juan Basin, New Mexico and Colorado, in Guidebook of Ghost Ranch, central-northern New Mexico: New Mexico Geological Society, 25th Field Conference, p. 225-230.

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.

BECTION A.	Date				
Operator. AZTEC OIL & GAS COMPANY	Lease Mc CRATH				
Well No .C=1 Unit Letter P Section34 _	. Township . 30% Range 12% NMPM				
Located 870 Feet From South					
County G. L. Elevation	— — — — — — — — — — — — — — — — — — —				
Name of Producing Formation Dakota	Pool Basin Dakota				
Is the Operator the only owner* in the dedicated acreag	ge outlined on the plat below? Yes				
	rests of all the owners been consolidated by communitization inswer is "Yes," Type of Consolidation communitization				
If the answer to question Two is "No," list all the ow	ners and their respective interests below				
BECTION B.					
	This is to certify that the information in Section A above it true and complete to the best of my knowledge and belief				
	AZTEC OIL & GAS COMPANY				
Sec. 34	This is to certify that the well location shown on the plat in Section B was plotted from field notes of actual surveys made by me or under my super isson and that the same is true and prirect to the best of my knowledge and belief				
·	FARMINGTON THE MEXICO				
330, 660 900, 1320 1850 1900 2510 2645 2000 150	Gertificate No 3602				



Burlington Resources Oil & Gas Company, LP San Juan Basin Pit Design and Construction Plan

In accordance with Rule 19.15.17 the following information describes the design and construction of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

General Plan:

- 1. BR will design and construct a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. Prior to constructing the pit, topsoil will be stockpiled in the construction zone for later use in restoration.
- 3. BR will post a well sign, not less than 12" by 24", on the well site prior to construction of the temporary pit. The sign will list the operator on record as the operator; the location of the well site by unit letter, section, township range; and emergency telephone numbers.
- 4. BR shall construct all new fences utilizing 48" steel mesh field-fence (hogwire) 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. Temporary pits will be fenced at all times excluding drilling or workover operations, when the front side of the fence will be temporarily removed for operational purposes.
- 5. BR shall construct the temporary pit so that the foundation and interior slopes are firm and free of rocks, debris, sharp edges or irregularities to prevent liner failure.
- 6. BR shall construct the pit so that the slopes are no steeper than two horizontal feet to 1 vertical foot.
- 7. Pit walls will be walked down by a crawler type tractor following construction
- 8. All temporary pits will be lined with a 20-mil, string reinforced, LLDPE liner, complying with EPA SW-846 method 9090A requirements.
- Geotextile will be installed beneath the liner when rocks, debris, sharp edges or irregularities cannot be avoided.
- 10. All liners will be anchored in the bottom of a compacted earth-filled trench at least 18 inches deep.
- 11. BR will minimize liner seams and orient them up and down, not across a slope. Factory seams will be used whenever possible. BR will ensure all field seams are welded by qualified personnel. Field seams will be overlapped four to six inches and will be oriented parallel to the line of maximum slope. BR will minimize the number of field seams in corners and irregularly shaped areas.
- 12. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 13. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 14. The volume of the pit shall not exceed 10 acre-feet, including freeboard.
- 15. Temporary blow pits will be constructed to allow gravity flow to discharge into lined drill pit.
- 16. The lower half of the blow pit (nearest lined pit) will be lined with the same 20 mil liner. The upper half of the blow pit will remain unlined as allowed in Rule 19.15.17.11 F.11.
- 17. BR will not allow freestanding liquids to remain on the unlined portion of a temporary blow pit.

Burlington Resources Oil & Gas Company, LP San Juan Basin Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of temporary pits on Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR's standard procedure for all temporary pits. A separate plan will be submitted for any temporary pit which does not conform to this plan.

General Plan:

- 1. BR will operate and maintain a temporary pit to contain liquids and solids and prevent contamination of fresh water and protect public health and environment.
- 2. BR will conserve drilling fluids by transferring liquids to pits ahead of the rigs whenever possible. All other drilling fluids will be disposed at Basin Disposal Inc., permit # NM-01-005.
- 3. BR will not discharge or store any hazardous waste in any temporary pit.
- 4. If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery and repair the damage or replace the liner.
- 5. If a leak develops below the liquid's level, BR shall remove all liquids above the damaged liner within 48 hours and repair the damage or replace the liner. BR shall notify the Aztec Division office by phone or email within 48 hours of the discovery for leaks less than 25 barrels BR shall notify the Aztec Division office as required pursuant to Subsection B of 19.15.3.116 NMAC shall be reported within twenty-four (24) hours of discovery of leaks greater than 25 barrels. In addition, immediate verbal notification pursuant to Subsection B, Paragraph (1), and Subparagraph (d) of 19.15.3.116 NMAC shall be reported to the division's Environmental Bureau Chief.
- 6. The liner shall be protected from any fluid force or mechanical damage through the use of mud pit slides, or a manifold system.
- 7. The pit shall be protected from run-off by constructing and maintaining diversion ditches around the location or around the perimeter of the pit in some cases.
- 8. BR shall immediately remove any visible layer of oil from the surface of the temporary pit after cessation of a drilling or workover operation. Oil absorbent booms will be utilized to contain and remove oil from the pit's surface. An oil absorbent boom will stored on-site until closure of pit.
- 9. Only fluids generated during the drilling or workover process may be discharged into a temporary pit.
- 10. BR will maintain the temporary pit free of miscellaneous solid waste or debris.
- 11. During workover operations, BR will inspect the temporary pit at least once daily to ensure compliance with this plan. Inspections will be logged in the IADC reports. BR will file this log with the Aztec Division office upon closure of the pit.
- 12. After drilling or workover operations, BR will inspect the temporary pit weekly so long as liquids remain in the temporary pit. A log of the inspections will be stored at BR's office electronically and will be filed with the Aztec Division office upon closure of the pit.
- 13. BR shall maintain at least two feet of freeboard for a temporary pit.
- 14. BR shall remove all free liquids from a temporary pit within 30 days from the date the operator releases the workover rig.
- 15. BR shall remove all free liquids from a cavitation pit within 48 hours after completing cavitation. BR may request additional time to remove liquids from the Aztec Division office if it is not feasible to remove liquids within 48 hours.

Burlington Resources Oil & Gas Company, LP 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 Burlington Resources Oil & Gas Company, LP (BR) locations. This is BR'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.
- 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 BR's closing of the temporary pit as per the approved closure plan using certified mail, return receipt requested.
- 4. Within 6 months of the Rig Off status occurring BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given to the Aztec Division office between 72 hours and one week of closure 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 a licensed disposal facility.
- 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 BR 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. BR 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.

Туре	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)

Purity

50 percent

Germination

40 percent

Percent PLS

20 percent

Source No. two (better quality)

Purity

80 percent

Germination

63 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.