<u>District I</u> 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

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
mporary pits, closed-loop sytems, and below-grade

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

1000 Rio Brazos Rd , Aztec, NM 87410	Santa Fe, NM 87505	For permanent pits and exceptions submit to the Santa Fe
District IV 1220 S St Francis Dr , Santa Fe, NM 87505		Environmental Bureau office and provide a copy to the appropriate NMOCD District Office
Pit, Cle	osed-Loop System, Below-G	Grade Tank, or
Proposed Ale	ternative Method Permit or C	Closure Plan Application
Type of action: Permit	of a pit, closed-loop system, below-gra	de tank, or proposed alternative method
Closur	e of a pit, closed-loop system, below-gr	rade tank, or proposed alternative method
Modif	ication to an existing permit	•
` —	re plan only submitted for an existing pe- grade tank, or proposed alternative met	ermitted or non-permitted pit, closed-loop system, hod
Instructions: Please submit one application	(Form C-144) per individual pit, closed	d-loop system, below-grade tank or alternative request
		tions tesult in pollution of surface water, ground water or the icable governmental authority's rules, regulations or ordinances
1	works to point only to comply with any other appro-	teroe go enmenta autory, tue, eguatoro o outanes
Operator: Burlington Resources Oil & Gas Co		OGRID#: <u>14538</u>
Address: PO Box 4289, Farmington, NM 874	.99	
Facility or well name: Lodewick No. 013S	OCD P	
API Number: 30-045-3444		
U/L or Qtr/Qtr: C(NE/NW) Section: 19 Center of Proposed Design: Latitude:	Township: 27N Range: 36°56.510N Longitude:	9W County: San Juan 107°83.296W NAD: 1927 X 1983
Surface Owner: X Federal Sta		
X Pit: Subsection F or G of 19 15.17.11 NMAC		
Temporary: X Drilling Workover		
Permanent Emergency 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'
Closed-loop System: Subsection H of 19.	15 17 11 NMAC	
Type of Operation: P&A Drilling a		ies to activities which require prior approval of a permit or
	notice of intent)	
Drying Pad Above Ground Steel Tan		HDPE PVD Other 93031-1234
		HDPE PVD Other
Liner Seams: Welded Factory G	Other	RECEIVED
Below-grade tank: Subsection I of 19.15.17	11 NMAC	92 000
	oe of fluid:	OIL CONS DIV DIST
Tank Construction material.	or mate.	d automatic overflow shut-off
Secondary containment with leak detection	Visible sidewalls, liner, 6-inch lift and	d automatic overflow shut-off
	ole sidewalls only Other	05618177
Liner Type: Thickness mil	HDPE PVC Other	r
5		
Alternative Method:		
Submittal of an exception request is required. Exception	otions must be submitted to the Santa Fe En	vironmental 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 say feet in height, two strands of barbed wire at ton (Required if located within 1000 feet of a narrownout residence, wheel, haspital, inclusion or church)								
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								
X Alternate Please specify 4' hogwire fence with a single strand of barbed wire on top.								
A Attendition of the asset specify 4 hogwine reflect with a single strand of barbed wife 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								
X 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:								
LI NA CARACTER AND		.						
Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons	ideration of ap	provai.						
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		i						
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	İ							
appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau Office for	Í							
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.	Yes	X No						
- NM Office of the State Engineer - tWATERS database search; USGS; Data obtained from nearby wells		_						
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa	Yes	X No						
lake (measured from the ordinary high-water mark).	. 							
- Topographic map; Visual inspection (certification) of the proposed site	Í							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial	Yes	XNo						
application.								
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	NA							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Í							
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)	XNA							
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	اسسيا							
Within 500 horizonal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering	Yes	X No						
purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application.	<u> </u>							
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.	 							
	. 	<u></u>						
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.	Yes	X No						
- US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site								
Within the area overlying a subsurface mine.	Yes	XNo						
Written confirmation or verification or map from the NM EMNRD - Mining and Mineral Division								
Within an unstable area.	Yes	X No						
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	L 1.58	<u>~</u> ™						

Form C-144 Oil Conservation Division Page 2 of 5

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
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
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 Stung 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
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 G of 19.15.17.13 NMAC

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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 the disposal of liquids, drilling fluids and drill cuttings. Use at	(19.15.17.13.D NMAC)								
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 operations?									
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 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 NM									
17 Siting Criteria (Regarding on-site closure methods only: 19.15 17.10 NMAC Instructions Each string criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sou certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception of for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMA.	which must be submitted to the Santa Fe Environmental Bureau o								
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 X No								
Ground water is between 50 and 100 feet below the bottom of the buried waste	Yes X No								
- NM Office of the State Engineer - iWATERS database search, USGS; Data obtained from nearby wells	□N/A								
Ground water is more than 100 feet below the bottom of the buried waste	X Yes No								
- NM Office of the State Engineer - iWATERS database search; USGS, Data obtained from nearby wells	□N/A								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sink (measured from the ordinary high-water mark)	hole, or playa lake Yes XNo								
 Topographic map; Visual inspection (certification) of the proposed site Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial app 	olication. Yes X No								
Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes X No								
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domes purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial app - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal state.	lication.								
pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	in ordinance adopted Tes Mino								
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map, Topographic map; Visual inspection (certification) of the propo	Yes X No								
Within the area overlying a subsurface mine.	Yes X No								
 Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division Within an unstable area Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources, USGS, NM George 	Yes X No								
Topographic map									
Within a 100-year floodplain - FEMA map	Yes X No								
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be by a check mark in the box, that the documents are attached.	ee attached to the closure plan. Please indicate,								
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10	NMAC								
X Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.1									
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements o	F19.15.17.11 NMAC								
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upon the appr	opriate requirements of 19.15.17.11 NMAC								
X 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									
X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17 Disposed Facility Name and Parmit Number (for liquids drilling fluids and drill autings or up case on									
 Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC 									
X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC									
X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17 13 NMAC									

Form C-144 Oil Conservation Division Page 4 of 5

Operator Application Cartifications
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). Ethel Tally Title: Staff Regulatory Technician
Signature: 7th of Jally Date 9-24-09
e-mail address: Ethel Tally@ConocoPhillips.com Telephone: 505-599-4027
20 20
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Swanglon Dell Approval Date: 11-3-08
Title: Enviro/spec OCD Permit Number:
The Control of the Co
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 operations?
Yes (If yes, please demonstrate complilane to the items below)
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
Ste Reclamation (Photo Documentation)
On-site Closure Location Latitude: Longitude NAD 1927 1983
Operator Closure Certification:
I hereby certify that the information and attachments submitted with this closure report is 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:

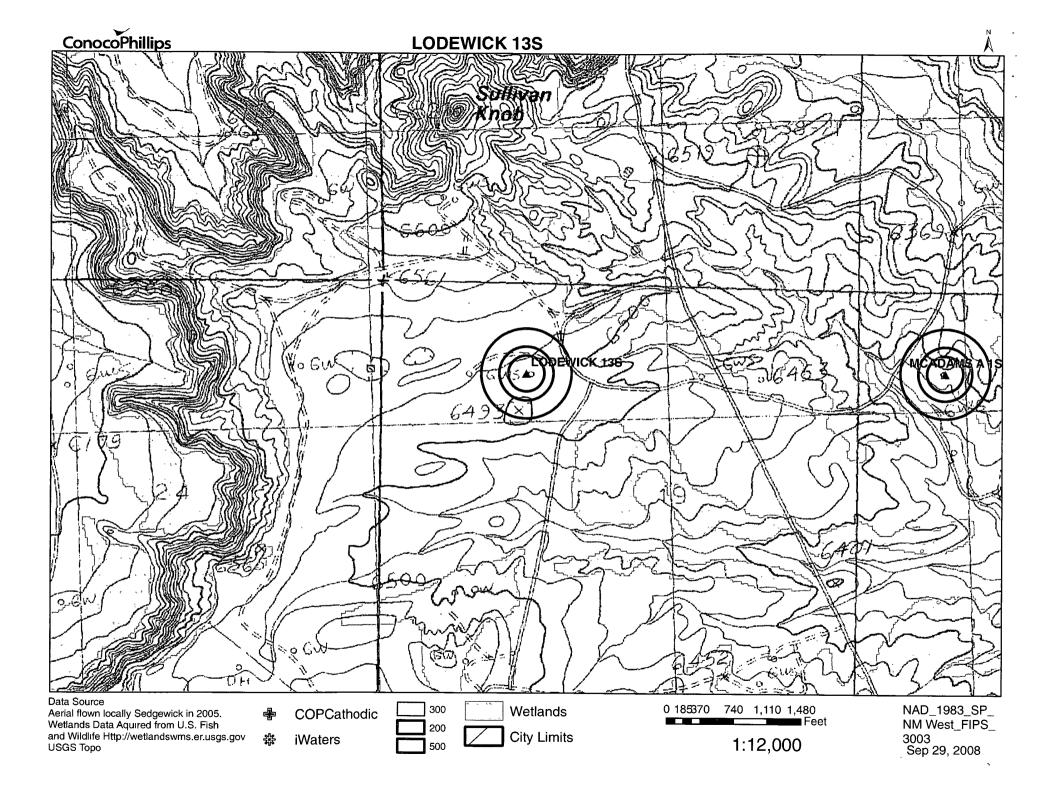
Form C-144 Oil Conservation Division

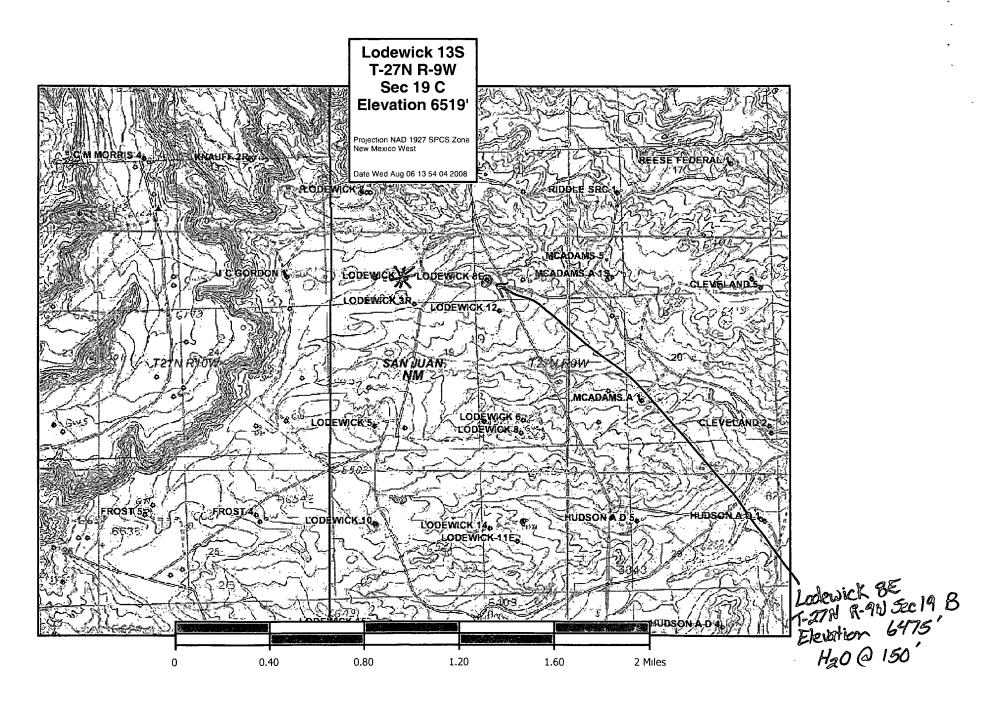
New Mexico Office of the State Engineer POD Reports and Downloads

Township: 27N Range: 09W Sections: 1	7,18,19,20,29,30
NAD27 X: Y: Zone:	Search Radius:
County: Basin:	Number: Suffix:
Owner Name: (First) (Last) © All	Non-Domestic O Domestic
POD / Surface Data Report Av Water Column Report	vg Depth to Water Report
Clear Form WATERS M	1enu Help
	REPORT 09/29/2008
(quarters are 1=NW 2=NE 3=SW 4=S: (quarters are biggest to smalles POD Number Tws Rng Sec q q q Zone	t) Depth Depth Wate
No Records found, try again	

New Mexico Office of the State Engineer POD Reports and Downloads

		o reports and bo				
Tow	vnship: 27N Range: 1	0W Sections: 1	3,24,25		ı	
NAD27	Y X:	Zone:	S S	earch Radius:		
County:	Basin:	; · · · · ·		Number:	Suffix	c:
Owner Name:	(First)	(Last) ② All		Non-Domestic	e O Dome	estic
ï	POD / Surface Data F	Report A Water Column Rep		Water Report		
	Clear For	m iWATERS N	Menu Ho	elp		
		WATER COLUMN		/29/2008		
POD Number	(quarters are 1=1 (quarters are big Tws Rng Sec		-	Depth Y Well	Depth Water	Wate Colum
17 . D 7 . C						





8E - 30-045-23877 4- 30-045-06417

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

9-30-045-06427 NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator UNOCAL Oil & Gas Loc	cation: UnitSec. 19 Twp 27 Rng 9
Name of Well/Wells or Pipeline Serviced_	· · · · · · · · · · · · · · · · · · ·
	W. Carlotte and Car
Elevation 6475 Completion Date 12-12-90 To	otal Depth 300' Land Type* F
Casing, Sizes, Types & Depths NONE	<u> </u>
	•
If Casing is cemented, show amounts & ty	/pes used NONE
If Cement or Bentonite Plugs have been p	laced, show depths & amounts used
Depths & thickness of water zones with of Fresh, Clear, Salty, Sulphur, Etc. 150'	•
Denths das encountered. NONE	
peptite dan circognicated.	deep with 99.9% carbon=Carbo 40 petroleum ? Breeze = 1400 lbs.
Depths anodes placed: 245', 255', 265', 275	', 285', 295'
Depths vent pipes placed: 0 to 300 deep	
Vent pipe perforations: From 160' to 300' d	eep - laser cut slots
Remarks: First Ground bed installed on location	;
	· · · · · · · · · · · · · · · · · · ·
,	

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.

If Federal or Indian, add Lease Number.

JAN3 0 1991,
OIL CON. DIV.
VDIST. 3

UNITED STATES

SUBMIT IN DUPLICATE*

Form approved. Budget Bureau No. 42-R355.

DEPARTMENT	OF	THE	INTERIOR
GEOLOG	ΙΔΟΙ	SHR	/FY

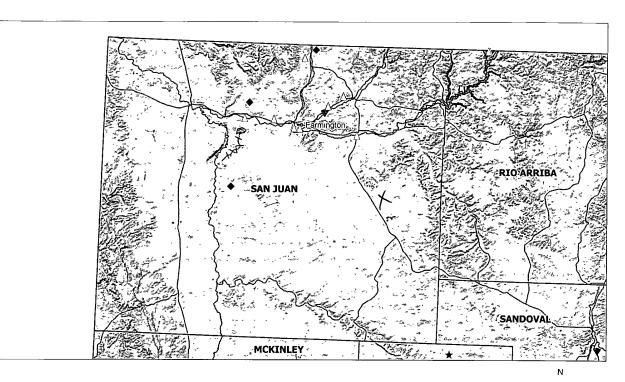
(See other instructions on reverse side)

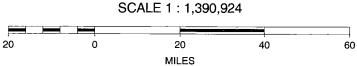
5. LEASE DESIGNATION AND SERIAL NO.

-}	 	02861			
	INDIAN	ALLOTTEE	ΩP	TRIBE	N 4

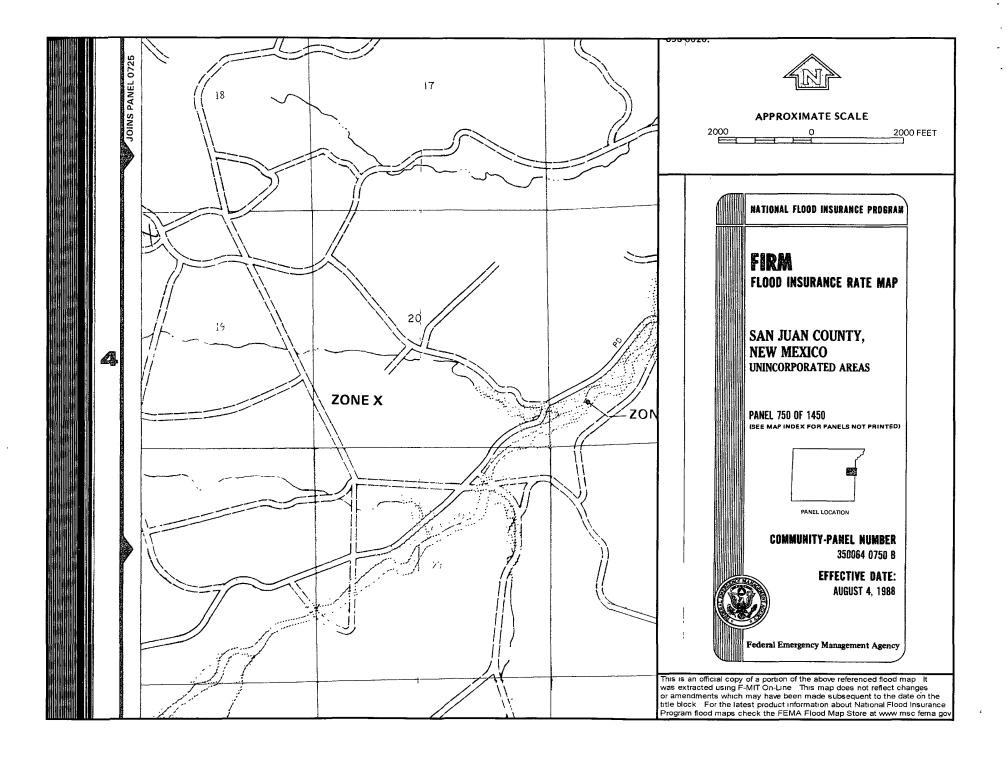
WELL CO	MPLE	TION C	R RECOMI	PLETIC	N RE	PORT .	AND L	OG *	6. IF INDIAN	AI LOTTEE	OR TRIBE NAME
1a TYPE OF WE	LL:	WELL U	WELL X	DRT	☐ o	ther			7. UNIT AGREE	MENT NA	ME
b TYPE OF COM	WORK [DEEF-	PLTG [DIFF	Π.				S FARM OR LE	190 219	10
2. NAME OF OPERA	J navo	EN	BACK	RESVR	0	ther			Lodewi		
		tural G	as Company						9. WELL NO.	CK	
3. ADDRESS OF OPE			do company						- _{8E}		
Box 2	289, F	armingt	on, New Me	xico .	8740	1			10. FIELD AND	POOL, OF	WILDCAT
4. LOCATION OF WE At surface	LL (Repor	t location c	learly and in acc	ordance w	th any	State requir	ementa)		Basin		
At surface		100	0'N, 1795'	E	1				OR AREA		LOCK AND SURVEY
At top prod. in	terval rep	orted below				APR	9 1980		Sec. 1	.9, I- N.M.P	-27-N, R-9-'
At total depth				1							••••
				14. PER V.	IT NOU.	S. GEOLOG	INGAUSUH ION, N. M		12. COUNTY OR PARISH San Jua	n	New Mexico
15. DATE SPEDDED			HED 17 DATE C	OMPL. (Re	eady to	prod) 18.	ELEVATION	DF, RKI	3, RT, GR, ETC.)*	19 ELEV	. CASINGHEAD
12-28-79	1-8-			5-80				5475!	GL		CABLE TOOLS
20. TOTAL DEPTH, MD 71221	& TVD		ACK T.D., MD & TVI		F MULTI	PLE COMPL.,	23.	NTERVALS		1	CABLE TOOLS
24. PRODUCING INTE	RVAL(S).	7109		OTTOM, NA	ME (MD	AND TVD)*		>	0-71221	1 25. W.	AS DIRECTIONAL
						,				80	RVEY MADE
6/93	- /0331	(Dak)								N	0
26. TYPE ELECTRIC CDL-GR		Temp.	Survey						2	7. WAS V	WELL CORED
28				RECORL	(Repor	t all strings	set in well)				
CASING SIZE		HT, LB./FT.	DEPTH SET	(MD)	HOLE	SIZE		CEMENTIN	G RECORD	_ _^	MOUNT PULLED
8 5/8''	24#		216'		_12_	1/4"	165	cu.	ft.		
4 1/2"	10.5	£11.6#	7122'		7	7/8''	378	-cu.	ft.		
			_							- -	
29.	- '	LIN	ER RECORD				30.		TUBING RECOR	.D	
SIZE	TOP (M	ID) BO	TTOM (MD) SA	CKS CEME	ENT*	SCREEN (MI	o) si	ZE	DEPTH SET (MD)	PAC	CKER SET (MD)
							2	3/8"	7015'		
31. PERFORATION RE	CORD (Int	crual size a	nd number)								
6793,6876,6	6880,6	884,688	8,6892,694	4,6948	3, -	32.	ACID, SH		CTURE, CEMENT :		
6952,6968,6	5990,7	030,703	3' w/1 SPZ		-	6793-7			,500# sd, 4		
					-				r,500" 3u, 4	13,000	gar. WLT.
20.0											
33 • DATE FIRST PRODUCT	TION	PRODUCTION	ON METHOD (Flor	vina, aas t	PRGDU		nd tuna of	numn	Ok.	ATIS (P	roducing or
			r Frac Gau					- 13/4 pm	shut-i		Tours of
3-25-80	HOURS		CHOKE SIZE	PROD'N. F	OR	OIL-BBL	~ (S) (N)	L _{MCF} .	O WATER-BBL	行	MOI
SI 896	1	PRESSURE	CALCULATED 24-HOUR RATE	OIL-BBL		GAS	(a)	CR WATE	R-BBE	(FP)	T-API (CORA)
34. DISPOSITION OF	1	- ' -	l, vented, etc.)					<u> </u>	ST WIT TEER	Region	15 130
	,,		. ,,					S. W. D	J. G 1	Tente	W. COM
35 LIST OF ATTACH	MENTS							4/1	1 0. 011	Office of	75 T. 3
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36. I hereby certify	that the	foregoing as	nd attached infor	mation is	complet	te and corre	et as deteri	nined fro	m all available rece	ords	
SIGNED		Du	6 CO	יודדו.	e D	rilling	Clerk		DATE	12-	il 2 100 0

LODEWICK 13S/MINES, MILLS AND QUARRIES









Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Lodewick 13S 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 groundwater depth is considered to be greater than 100' as determined by the topographic map and the Cathodic well data from the Lodewick 8E with an elevation of 6475 and groundwater depth of 150'. The subject well has an elevation of 6519' which is greater than the Lodewick 8E, therefore the groundwater depth is greater than 100'. Using this Cathodic data point provided the indication of groundwater depth and the Nacimiento formation will create a stable area for this new location.

Hydrogeological Report for Lodewick 13S

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.

Tally, Ethel

From:

Tally, Ethel

Sent:

Monday, September 29, 2008 2:29 PM

To:

'mark_kelly@nm.blm.gov'

Subject:

OCD Pit Closure Notification

The temporary pit at the Lodewick 13S will be closed on-site. The new OCD Pit Rule 17 Requires the surface owner be notified. Please feel free to contact me, if you have any questions.

Thank You,

Ethel Tally ConocoPhillips-SJBU 3401 E. 30th Farmington NM 87402 (505)599-4027 phone Ethel.Tally@conocophillips.com DISTRICT 1 1625 N. French Dr., Hobbs, N.M. 56240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102 Revised October 12, 2005

DISTRICT H 1301 W. Grand Avenue, Artesia, N.M. 88210

DISTRICT III 1000 Rio Brazos Rd., Aztec, N.M. 87410

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

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

☐ AMENDED REPORT

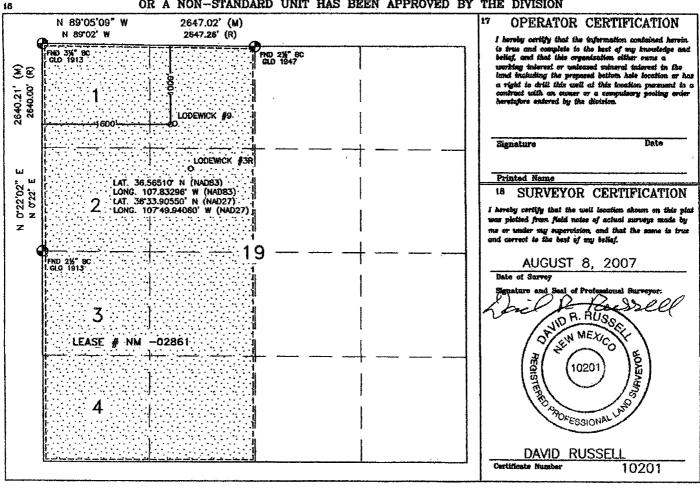
DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

	11 222 2240 AM W W 2 C C A V C C C C C C C C C C C C C C C C					
¹ APl Number	*Pool Côde	² Pool Name				
		BASIN FRUITLAND COAL				
*Property Code	⁴ Pro	perty Name	* Well Number			
A722267	LC	LODEWICK				
OGRID No.	*Ope	erator Name	Revation			
	BURLINGTON RESOURCE	S OIL AND GAS COMPANY LP	6519'			

¹⁰ Surface Location UL or lot no. Section Township Lot Ida Feet from the North/South line Feet from the East/West line Range County WEST 19 9W 1000 NORTH 1600' SAN JUAN 27N ¹¹ Bottom Hole Location If Different From Surface Lot Idn North/South line UL or lot no. Fest from the Section Township Feet from the East/West line County 18 Dedicated Acres Joint or Infill 14 Consolidation Code ¹⁸Order No. 321.61 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



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
 - 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	-5 00
Chlorides	EPA 300.1	(1000)/500

- 9. 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.
- 10. 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.
- 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
- 12. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Reshaping 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.
- 13. Notification will be sent to OCD when the reclaimed area is seeded.
- 14. 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 (unimpacted) 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

Percent PLS

Source No. two (better quality)

Purity

80 percent

Germination

63 percent

Percent PLS

50 percent

5 lb. bulk seed required to make 2 lb. bulk seed required to make

1 lb. PLS 1 lb. PLS

15. 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.