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

Dis 122

State of New Mexico Energy Minerals and Natural Resources

Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

July 21, 2008 For temporary pits, closed-loop sytems, and below-grade tanks, submit to the appropriate NMOCD District Office

Form C-144

For permanent pits and exceptions submit to the Santa Fe

trict IV 0 S. St. Francis Dr., Santa Fe, NM 87505	appropriate NMOCD District Office
2072 Pit, Closed-Loop System Proposed Alternative Method F	, Below-Grade Tank, or Permit or Closure Plan Application
Closure of a pit, closed-loop sys Modification to an existing perm	an existing permitted or non-permitted pit, closed-loop system,
Instructions: Please submit one application (Form C-144) per individ	ual pit, closed-loop system, below-grade tank or alternative request
Places he adjusted that approval of this request does not salious the appropriate of ligh	ultive chould operations result in pollution of surface water, mound water or the

Please be advised that approval of this request does not relieve the operator of liability should operation environment. Nor does approval relieve the operator of its responsibility to comply with any other applications.	*
Operator: Burlington Resources Oil & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: Lloyd A 100	
API Number: 30-045-34597 OCD Permit Nu	umber·
U/L or Qtr/Qtr: K(NESW) Section: 9 Township: 29N Range:	11W County: San Juan
Center of Proposed Design: Latitude: 36.738220' N Longitude:	108.000325' W NAD: 1927 X 1983
Surface Owner: X Federal State Private Tribal Trust or In	dian Allotment
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 20 mil X LLDPE X String-Reinforced Liner Seams: X Welded X Factory Other Volume: 4	HDPE PVC Other
Closed-loop System: Subsection H of 19 15 17 11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applie notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Lined Unlined Liner type: Thickness mil LLDPE Liner Seams: Welded Factory Other	HDPE PVD Other P
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 state of the sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC Other	OIL CONS. DIV. DIST. 3
5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Envi	ironmental Bureau office for consideration of approval

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.							
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)							
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							
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 con (Fencing/BGT Liner) Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	sideration of ap	proval.					
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							
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)	☐Yes ☐NA	□No					
- 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. (Applied to permanent pits) Visual proposed one of the proposed site: Aerial photo: Satellite image.	Yes NA	□No					
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.							
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							
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					

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								
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: X Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative								
Proposed Closure Method Waste Excavation and Removal (Below-Grade Tank)								
Waste Removal (Closed-loop systems only)								
X On-site Closure Method (only for temporary pits and closed-loop systems)								
X 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								

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel T Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fli	Fanks or Haul-off Bins Only: (19.15.17 13.D NMAC) ids and drill cuttings Use attachment if more than two fa	cellities					
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 of Yes (If yes, please provide the information No	occur on or in areas that will not be used for future se	rvice and operations?					
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 Subse	ction G of 19.15.17.13 NMAC						
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 Receptain string criteria may require administrative approval from the appropriate district office or for consideration of approval. Justifications and/or demonstrations of equivalency are required	may be considered an exception which must be submitted to the						
Ground water is less than 50 feet below the bottom of the buried waste.		Yes X No					
- NM Office of the State Engineer - tWATERS database search; USGS: Data obtain	ed from nearby wells	N/A					
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 obtaine	d 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	d from nearby wells	□N/A					
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant (measured from the ordinary high-water mark).	Yes X No						
- Topographic map; Visual inspection (certification) of the proposed site							
Within 300 feet from a permanent residence, school, hospital, institution, or church in exi Visual inspection (certification) of the proposed site; Aerial photo; satellite image	Yes X No						
		Yes X No					
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existen - NM Office of the State Engineer - iWATERS database; Visual inspection (certificat	ce at the time of the initial application.						
Within incorporated municipal boundaries or within a defined municipal fresh water well pursuant to NMSA 1978, Section 3-27-3, as amended.		Yes X No					
- Written confirmation or verification from the municipality; Written approval obtain	ed from the municipality						
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspec	tion (certification) of the proposed site	Yes X No					
Within the area overlying a subsurface mine. - Written confirmution or verification or map from the NM EMNRD-Mining and Mir	peral Division	Yes X No					
Within an unstable area.	iciai Division	Yes X No					
Engineering measures incorporated into the design; NM Bureau of Geology & Mine Topographic map	eral Resources; USGS; NM Geological Society;						
Within a 100-year floodplain.		Yes X No					
- FEMA map							
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of by a check mark in the box, that the documents are attached.	the following items must bee attached to the closur	e plan. Please indicate,					
X Siting Criteria Compliance Demonstrations - based upon the appropriate r	equirements of 19.15.17.10 NMAC						
X 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 X Protocols and Procedures - based upon the appropriate requirements of 19		9 15.17.11 NMAC					
Confirmation Sampling Plan (if applicable) - based upon the appropriate r							
X Waste Material Sampling Plan - based upon the appropriate requirements	•						
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and		nnot be achieved)					
X Soil Cover Design - based upon the appropriate requirements of Subsection	•	,					
Soil Cover Design - based upon the appropriate requirements of Subsection F 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							

19		
Operator Application Certification: I hereby certify that the information submitted with this a	onlication is true, accurate and complete to	the heat of my knowledge and helief
Name (Print). Crystal Tafo		Regulatory Technician
	Taloua Date:	10 123 hp
e-mail address: crystal tafoya@conocc		505-326-9837
e-mail address: <u>crystal tafoya@conocc</u>	reseptione	303-320-9837
20 OCD Approval: Permit Application (including OCD Representative Signature:	closure Plan (or	nly) OCD Conditions (see attachment) Approval Date: //- 5-08
<i>U1-10-</i>	o en	Approval Date. 17 5-00
Title: Enviro/spec	OCD I	Permit Number:
	d closure plan prior to implementing any O days of the completion of the closure acti activities have been completed.	NMAC closure activities and submitting the closure report. The closure evities. Please do not complete this section of the form until an esure Completion Date:
22		
Closure Method: Waste Excavation and Removal If different from approved plan, please explain	te Closure Method Alternative Clo	sure Method Waste Removal (Closed-loop systems only)
were utilized. Disposal Facility Name: Disposal Facility Name: Were the closed-loop system operations and associated	phere the liquids, drilling fluids and drill Disposal Fac Disposal Fac l activities performed on or in areas that w	cuttings were disposed. Use attachment if more than two facilities culty Permit Number: cility Permit Number:
Yes (If yes, please demonstrate complilane to the	items below)No	
Required for impacted areas which will not be used for	r future service and operations.	
Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding Tec	hnique	
24 Closure Report Attachment Checklist: Instruction the box, that the documents are attached.	ions: Each of the following items must be	attached to the closure report. Please indicate, by a check mark in
Proof of Closure Notice (surface owner and d	·	
Proof of Deed Notice (required for on-site clo	· ·	
Confirmation Sampling Analytical Results (if		
Waste Material Sampling Analytical Results (•••	
Disposal Facility Name and Permit Number	н чррневые)	
Soil Backfilling and Cover Installation		
Re-vegetation Application Rates and Seeding	Technique	
Site Reclamation (Photo Documentation)		
On-site Closure Location Latitude:	Longitude:	NAD 1927 1983
Operator Closure Certification: I hereby certify that the information and attachments subthe closure complies with all applicable closure requirem	•	rate and complete to the best of my knowledge and belief. I also certify that ved closure plan.
Name (Print):	Title:	
Signature.	Date	
e-mail address.	Telephone:	

New Mexico Office of the State Engineer POD Reports and Downloads

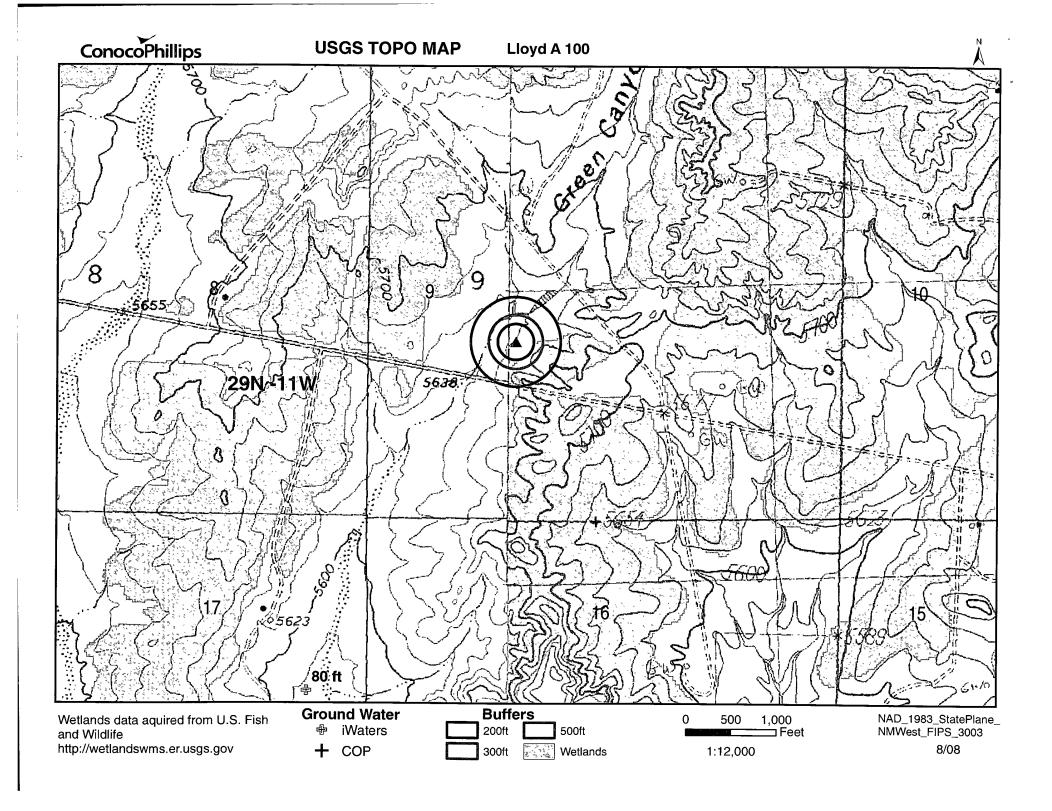
Township	29N	Range: 1	1W S	ections: 3	,4,5,8,9,10	0		~	74.400000
NAD27 X:		Y:	ŧ	Zone:		Search R	Ladius:	To account	
County:		Basin:	ì			Number	::	Suffix	::
Owner Name: (First)		(Last)	⊚ All	e open	○Non-D	omestic	ODome	estic
Pleasure of the contract of th	DD / Sur	face Data F		olumn Rep		to Water R	eport (Manager 1973)	9	
		Clear For	m []	WATERS I	Menu Breek vektokkomuna (j.	Help			
,	•					10/23/20	08		
(q	uarter	s are 1=1 s are big	gest to	smalles	st)		Depth	Depth	Wate
POD Number S.T 01851	Tws 29N	Rng Sec		Zone	x	Y	Well 125	Water 48	Colun

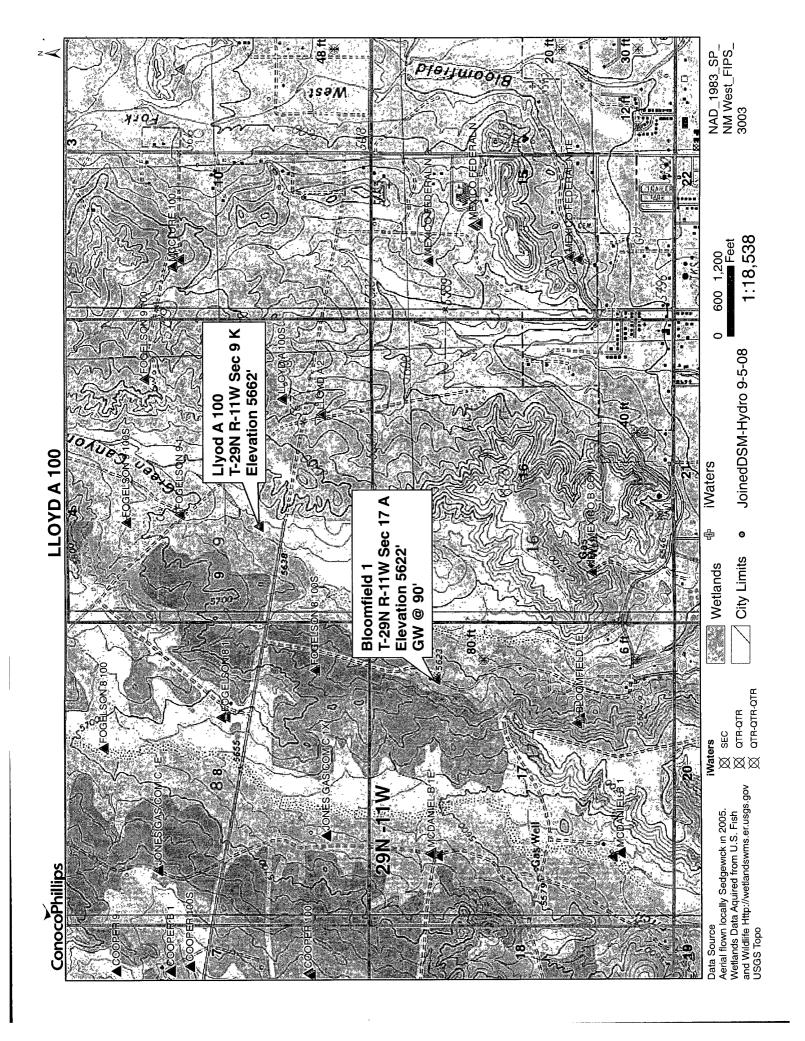
Record Count: 1

New Mexico Office of the State Engineer POD Reports and Downloads

Towns	hip: 30N	Range: 11W	Sections:	33,34,35		
NAD27	X:	Y:	Zone:		Search Radius:	
County:		Basin:			Number:	Suffix:
Owner Name: (F	irst)	(Last) ② All	****	○ Non-Domestic	ODomestic
<u> </u>	POD / Su	rface Data Rep	ort / /ater Column Rep	***	to Water Report	
	(Clear Form	iWATERS	Menu	Help	
managan dan dan sejam sejam sejam dan dan sejam sejam sejam sejam sejam sejam dan sejam dan sejam dan sejam da	_	s are 1=NW	WATER COLUMN 2=NE 3=SW 4=: st to smalle	SE)	10/23/2008 Depth	Depth Wate
POD Number	Tws	Rng Sec q	qq Zone	x	Y Well	Water Colu

No Records found, try again





Bloomfield #1 30-045-12001 5/173
Bloomfield #1 30-045-25864
Bloomfield #1 30-045-25864
DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS

NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL	Location: UnitNE Sec.17 Twp 29 Rng 11
Name of Well/Wells or Pipeline Serv	icedBLOOMFIELD #1, #2
	cps 752w
Elevation 5622' Completion Date 4/7/66	Total Depth 298' Land Type* N/A
Casing, Sizes, Types & Depths N/A	
If Casing is cemented, show amounts	& types used N/A
If Cement or Bentonite Plugs have b	een placed, show depths & amounts used
Depths & thickness of water zones w Fresh, Clear, Salty, Sulphur, Etc	90' MEGETYES
Depths gas encountered: N/A	
Type & amount of coke breeze used:_	3375 lbs.
Depths anodes placed: 280', 263', 256',	249', 242', 235', 229', 223', 216', 210', 201'
Depths vent pipes placed: N/A	150
Vent pipe perforations: N/A	
Remarks: qb #1	

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.

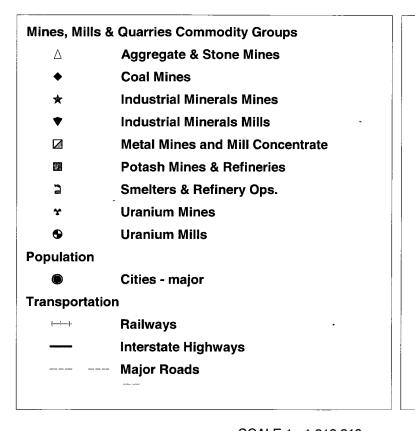
REQUEST FOR (OIL) - (GAS) ALLOWABLE

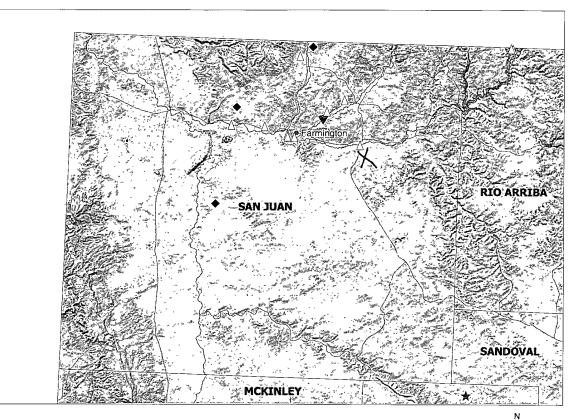
New Well

This form shall be submitted by the operator before an initial allowable will be assigned to any completed Oil or Gas well. Form C-104 is to be submitted in QUADRUPLICATE to the same District Office to which Form C-101 was sent. The allowable will be assigned effective 7:00 A.M. on date of completion or recompletion, provided this form is filed during calendar month of completion or recompletion. The completion date shall be that date in the case of an oil well when new oil is delivered into the stock tanks. Gas must be reported on 15.025 psia at 60° Fahrenheit.

				(Pla	ace)		Oct obe	r. 25,1960 (Date)
		-	NG AN ALLOWABL				NES .	/ 1880
Con	pany or Ope	rator)	many Bloom	(Leue)	Cii 110 <u></u>	, 10		4
A Unit Loss	, Sec	17	., T29-N, R	11- 4 , NMI	PM., Wilder	ut Delicate		P00
			County. Date Spuc		Date	Drilling Co	mpleted	9-5-60
	indicate lo		Elevation 562	2	. Total Depth_	6558	Çeβ•	6490
		1	Top Oil/Gas Pay 5	245 (Rerf)	Name of Prod.	Form.	Pakota	
D	; B	A	PRODUCING INTERVAL	<u></u>				
		X	Perforations 5245-	6258;6266-62	78,6335-634	7;6354-6	364;6372	-6378;
E	G	H	Open Hole None		Denth		Dooth	
	ł	1	OIL WELL TEST -	-				1000
L	J	I						Choke
l		1	Natural Prod. Test:					
M	0	P	Test After Acid or				•	Choke
		-	load oil used):	bbls.oil, _	bbls w	ater in	hrs,	min. Size
		<u></u>	GAS WELL TEST -					
11kg N,	990 B		_ Natural Prod. Test:		MCF/Day; Hour	s flowed	Choke !	Size
Bubing ,Casi		ting Recor	rd Method of Testing (pitot, back press	sure, etc.):			······································
Sure	Fret	Sax	Test After Acid or	Fracture Treatmen	-t: 82]]	MCF/	Day; Hours	flowed 3
30.0/51			Choke Size 3/4"	_Method of Testir	rg: <u>Calcula</u>	ted A.O.	F	
10 3/4"	281	330	Acid or Fracture Tre	101		la used sue	h as asid u	ester oil and
5 1/2"	6549	418					ii as acio, F	diel, Oll, and
			sand):73,200 ga Casing Tul Press. 2014 Pre	bing Dat	e first new	sand.		
			7					
2"	5451		Oil Transporter	L. Paso Natur	al Gas Fred	buete Cox	heul	200
			Gas Transporter R					
.emarks:	•••••••••	······································	***************************************	***************************************	.,		1 OC	125 1960
							(U)	125 720 ·
			ormation given above		_l	has	4/5	
.pprovedl)(;) 2 8 13 6	<u>v</u>	, 19.		Ki Paso - Mat (Co	ompany or O	perator)	
OII	. CONSER	VATION	COMMISSION	Ву:		(Signatur		
0-1-41-	al Sidaa	d Eman	w C. Amoli		.	. •		
y: Origin	iai oigne	u culet	y C. Arnold	Tide	Send Comm	ngineer unications r	egardine w	ell to:
itle .Supen	visor Dist.	#.3		******				
				Name.	E. S. Oberl	3		
				Addres	s.Box .990, . P	'armingte	m, New M	exico —

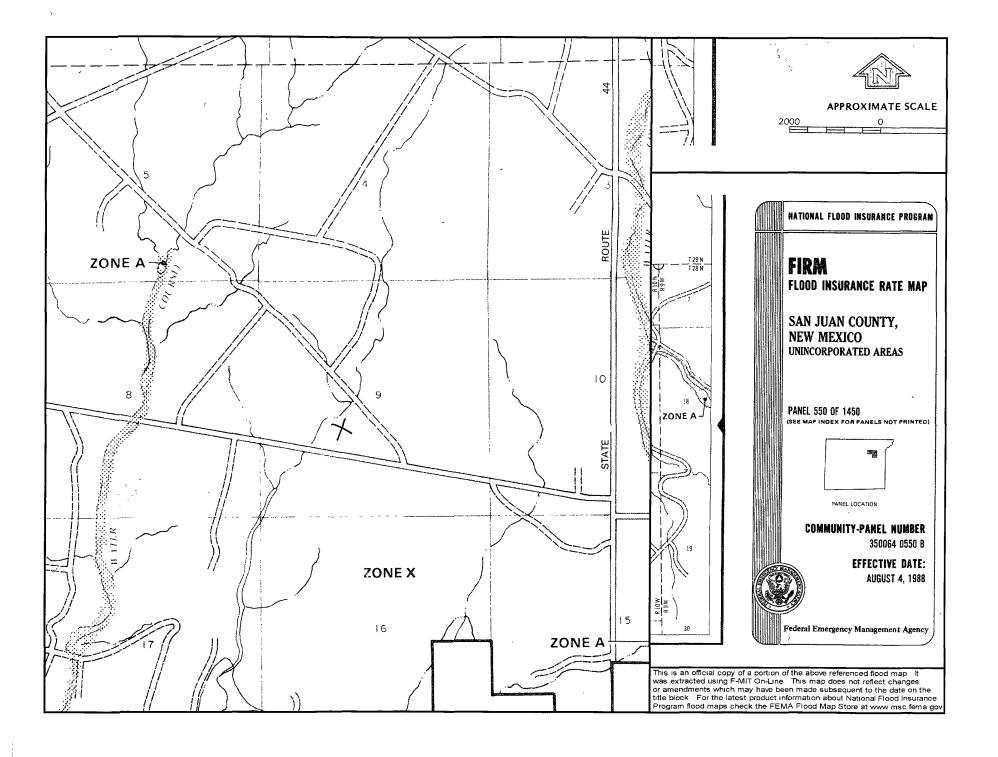
Lloyd A 100 Mines, Mills and Quarries Web Map











Hydrogeological Report for Lloyd A 100

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.

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Lloyd A 100 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 Cathodic well data from the Bloomfield 1 has an elevation of 5622' and groundwater depth of 90'. The subject well has an elevation of 5662' which is 40' greater than the Bloomfield 1, therefore the groundwater depth is approximately than 130'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The hydro geologic analysis indicates the groundwater depth and the Nacimiento formation will create a stable area for this new location.

Tafoya, Crystal

From:

Tafoya, Crystal

- Sent:

Thursday, July 10, 2008 8:16 AM

To:

'mark_kelly@nm.blm.gov'

Subject:

OCD Pit Closure Notification

The following temporary pits will be closed on-site. The new OCD Pit Rule 17 requires the surface owner be notified. Please feel free to contact me at any time if you have any questions. Thank you!

Allison Unit 2B

Allison Unit 40N

Angel Peak B 27E

Ballard 11F

Cain 725S

Canyon Largo Unit 250N

Canyon Largo Unit 279E

Canyon Largo Unit 288E

Canyon largo Unit 297E

Canyon Largo Unit 465E

Carson SRC 4E

Day B 4P

Day B 5A

East 17S

EPNG A 1B

EPNG B 1M

Federal A 1E

Filan 5M

Filan 5N

Fogelson 4 100

Fogelson 4 100S

Grambling C 202S

Hagood 19

Hamner 9S

Hardie 4P

Hare 295

Heaton Com 100

Helms Federal 1G

Howell 12

Huerfanito Unit 103F

Huerfanito Unit 29S

Huerfanito Unit 39S

Huerfanito Unit 47S

Huerfanito Unit 50E

Huerfanito Unit 75E

Huerfanito Unit 83E

Huerfanito Unit 87E

Huerfanito Unit 90E

Huerfanito Unit 90M

Huerfanito Unit 98S

Huerfano Unit 108F

Huerfano Unit 282E

Huerfano unit 305

Huerfano unit 307

Huerfano Unit 554

Johnston Federal 24S

King 3

Lackey A Com 100S

Lambe 1C

Lambe 7S

Lively 8M

(Lloyd A 100 ?)

Lloyd A 100S

Martin 100

McCord B 1F

McDurmitt Com 100S

McManus 13R

Mitchell 1S

Morris A 14

Newberry B 1N

Newsom B 503

Newsom B 8N

Pierce A 210S

Roelofs 1N

San Juan 27-4 Unit 132G

San Juan 27-4 Unit 132M

San Juan 27-4 Unit 139N

San Juan 27-4 Unit 140B

San Juan 27-4 Unit 141M

San Juan 27-4 Unit 147Y

San Juan 27-4 Unit 153B

San Juan 27-4 Unit 22M

San Juan 27-4 Unit 38P

San Juan 27-4 Unit 41N

San Juan 27-4 Unit 42N

San Juan 27-4 Unit 569N

San Juan 27-4 Unit 59N

San Juan 27-4 Unit 60M

San Juan 27-5 Unit 113F

San Juan 27-5 Unit 59N

San Juan 27-5 Unit 84N

San Juan 27-5 unit 901

San Juan 27-5 Unit 902

San Juan 27-5 Unit 903

San Juan 27-5 Unit 904

San Juan 27-5 Unit 905

San Juan 27-5 Unit 906

San Juan 27-5 Unit 907

San Juan 27-5 Unit 908

San Juan 27-5 Unit 909

San Juan 27-5 Unit 910

San Juan 27-5 Unit 912

San Juan 27-5 Unit 913

San Juan 27-5 Unit 914

San Juan 27-5 Unit 915

San Juan 27-5 Unit POW 916

San Juan 28-4 Unit 27M

San Juan 28-5 Unit 54F

San Juan 28-5 Unit 62E

San Juan 28-5 Unit 63M

San Juan 28-5 Unit 76N

San Juan 28-5 Unit 77N

San Juan 28-6 Unit 113N

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240 State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, N.M. 87505

Form C-102

Revised October 12, 2005

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

Submit to Appropriate District Office

DISTRICT III

State Lease - 4 Copies

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

Fee Lease - 3 Copies

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

□ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number		*Pool Code	Pool Name BASIN (FRUITLAND COAL)				
⁴ Property Code		⁶ Property Name					
		LLOYD A					
OGRID No.	BURLING	*Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP.					
¹⁰ Surface Location							
UL or lot no. Section	n Township Range	Lot ldn Feet fr	om the North/South	ine Feet from the	East/West line	County	

29 N | II W | 1951 SOUTH 1687 **WEST** SAN JUAN ¹¹Bottom Hole Location If Different From Surface Lot Idn Feet from the UL or lot no. Section Township Range North/South line Feet from the East/West line County 18 Dedicated Acres 18 Joint or Infill 14 Consolidation Code 15 Order No. 320 (S/2)

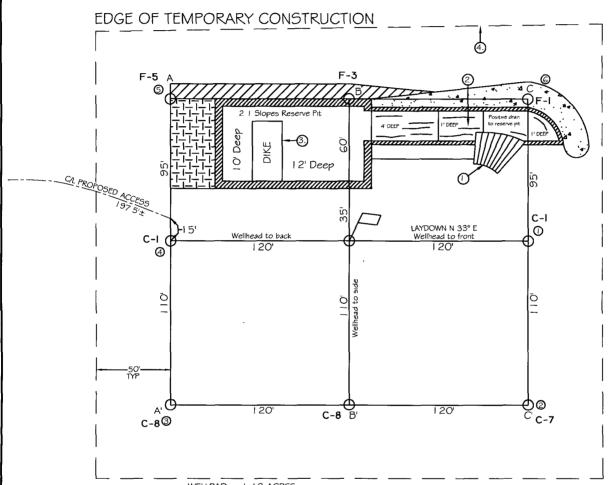
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

	OR A NON-STAN	DARD UNII HAS B	LEN APPROVED	<u>D</u> .	I THE DIVISION
526 5.82. -28 -28 -28 -28 -28 -28 -28 -28 -28 -28	2648.60'	N 89°58'15" E	2639.40	2637.88'	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 organisation 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.
	SECT	ION 9		8 0°14'14" W	Signature Date Printed Name
1687'	NAD 27 LAT: 36°4	000325° W			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. 9/21/07 Date of Survey Signature and Seal of Professional Subgreya:
N 0°15'57" E 88.30 N 89.30.14. A	2606.2I'	USA NM-03486 S 89°24'42° W	6-A 2683.58'	S 0°15'43" W	17078 TOFESSIONEL SECTIFICATION OF THE SECTION OF T

BURLINGTON RESOURCES OIL & GAS COMPANY LP. LLOYD A 100 - 1951' FSL & 1687' FWL SECTION 9, T-29-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N.M. GROUND ELEVATION: 5662 - DATE: SEPTEMBER 21, 2007

PAD CONST SPECS

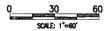
- I RAMP INTO PIT CONSTRUCTED FROM PAD GRADE
- INTO FLARE AREA AT 5% SLOPE
- 2 APPROXIMATE 13'x75' PIT AREA LINED WITH 12 MIL POLYLINER 3 RESERVE PIT DIKE TO BE 8' ABOVE DEEP SIDE
- 3 RESERVE PIT DIKE TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND I' ABOVE SHALLOW SIDE)
- 4 EDGE OF TEMPORARY CONSTRUCTION DEFINED IN FIELD W/G' T-POST



WELLPAD = 1.13 ACRES TEMPORARY CONSTRUCTION = 1.25 ACRES TOTAL = 2.38 ACRES

LATITUDE: 36°44.2929' N LONGITUDE: 107°59.9821' W NAD 27





NOTES

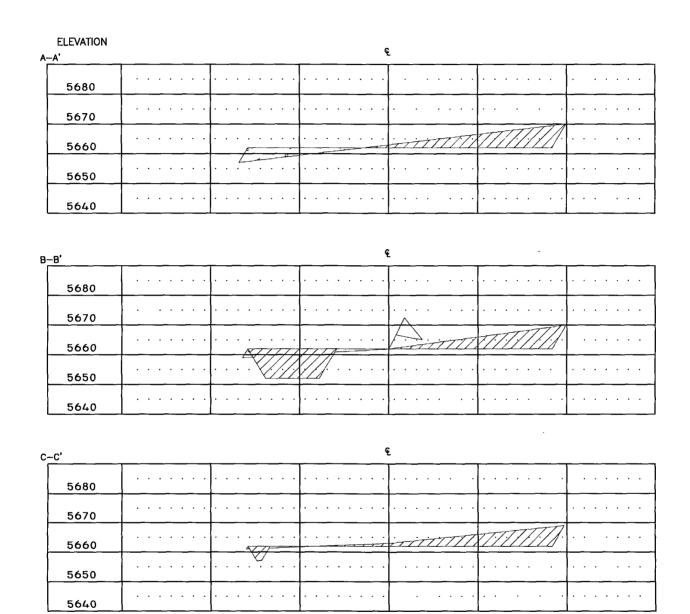
- I.) CONTRACTOR SHOULD CALL "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELLPAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONST.
- 2.) UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

SURVEYED: 9/21/07	REV. DATE:	APP. BY M.W.L.
DRAWN BY: H.S.	DATE DRAWN: 10/9/07	FILE NAME: 7935L01



P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505)334-0408

BURLINGTON RESOURCES OIL & GAS COMPANY LP. LLOYD A 100-1951' FSL & 1687' FWL SECTION 9, T-29-N, R-11-W, N.M.P.M., SAN JUAN COUNTY, N.M. GROUND ELEVATION: 5662 - DATE: SEPTEMBER 21, 2007



I'' = 60' - HORIZ.I'' = 30' - VERT.

NOTES:

I.) CONTRACTOR SHOULD CALL "ONE-CALL" FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELLPAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONST.

2.) UNITED FIELD SERVICES, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

SURVEYED:	9/21/07	REV. DATE:	APP. BY M.W.L.
DRAWN BY:	н.s.	DATE DRAWN: 10/9/07	FILE NAME: 7935CO1



P.O. BOX 3651 FARMINGTON, NM 87499 OFFICE: (505)334-0408

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. 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 BR'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 BR will ensure that temporary pits are closed, re-contoured, and reseeded.
- 5. Notice of Closure will be given prior to closure 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
 - 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/\$00

- 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.
- 11. 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 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 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.