District I

1625 N. French Dr , Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

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

State of New Mexico Energy Minerals and Natural Resources

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

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

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request

Please be advised that approval of this request does not relieve the operator of hability 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#: <u>14538</u>
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: Mobil New Mexico B Com #1F	
API Number: 30-045-34443 OCD Permit Nui	mber:
U/L or Qtr/Qtr: J(NWSE) Section: 32 Township: 27N Range:	9W County: San Juan
Center of Proposed Design: Latitude: 36.52850' N Longitude:	107.80809' W NAD: 1927 X 1983
Surface Owner: Federal X State Private Tribal Trust or Inc	dian Allotment
X String-Reinforced	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	RECEIVED
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:bbl Type of fluid:	OIL CONS. DIV. DIST 3
Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC Other	automatic overflow shut-off
5 Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Env	vironmental Bureau office for consideration of approval.

Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pit, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution of 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.	chaon or chur	ch)
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 consideration of approval.	ideration 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	Yes	XNo
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	X 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	XNo
 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 inspection (certification) of the proposed site; Aerial photo; Satellite image 	Yes XNA	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.	Yes	XNo
- 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 confurmation or verification from the municipality; Written approval obtained from the municipality	Yes	XNo.
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes	XNo
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 documents are attached Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15 17 9 NMAC
Typicogeologic Report (Below-grade Tailss) - based upon the requirements of Paragraph (4) of Subsection B of 19.13 17 9 NMAC
Type of the Compliance Demonstrations - based upon the appropriate requirements of 19.15 17.10 NMAC
X Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
X Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17 12 NMAC
X 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
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 19.15.17.12 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 X Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System
Alternative
Proposed Closure Method: Waste Excavation and Removal
Waste Removal (Closed-loop systems only)
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
1 11 1

Form C-144 Oil Conservation Division

Page 3 of 5

16 Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off F Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cutting	Bins Only: (19.15.17.13 D NMAC) ss. Use attachment if more than two facultues
are required.	
	ermit #-
	ermit #:
Will any of the proposed closed-loop system operations and associated activities occur on or in area Yes (If yes, please provide the information No	s that will not be used for future service 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 S Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.1	3 NMAC
Siting Criteria (Regarding on-site closure methods only: 19.15.17.10 NMAC Instructions Each siting criteria requires a demonstration of compliance in the closure plan Recommendations of acceptain siting criteria may require administrative approval from the appropriate district office or may be considered an for consideration of approval. Justifications and/or demonstrations of equivalency are required Please refer to 19 15	exception which must be submitted to the Santa Fe Environmental Bureau office
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 well	Yes XNo
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	S N/A
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lak (measured from the ordinary high-water mark)	tebed, sinkhole, or playa lake Yes XNo
- Topographic map, Visual inspection (certification) of the proposed site	Voc. VNs
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of - Visual inspection (certification) of the proposed site; Aerial photo; satellite image	f initial application. Yes X No Yes X No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed	for domestic or stock watering initial application.
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under 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) or 	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; USG	Yes XNo
Topographic map Within a 100-year floodplain	Yes XNo
- FEMA map	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following iter by a check mark in the box, that the documents are attached.	ns must bee 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	
Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requir	rements of 19.15.17.11 NMAC
Construction/Design Plan of Temporary Pit (for in place burial of a drying pad) - based upor	
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 Su	
X Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of	
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or i	
 X Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.1 X Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.1 X Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.1 	3 NMAC

Form C-144 Oil Conservation Division Page 4 of 5

19 Operator Application Contificat	ioni			
Operator Application Certificat I hereby certify that the information s	ubmitted with this application is true, accu	rate and complete to the	best of my knowledge and belief	
Name (Print):	Crystal Tafoya	Title:	Regulatory Technician	
Signature	As O Talores	Date	9/24/2008	
	stal.tafoya@conocomillipy.com	Telephone	505-326-9837	
V man dod os		<u> </u>		
20 OCD Approval: Permit App	plication (including closure plan)	Closure Plan (only)	OCD Conditions (see attach	nent)
OCD Representative Signature:	Bal Ogl	//	Approval Date:	10-10-08
_ ,,	/spec			70 10 10
Title: 上れいる	1spec	OCD Perm	nit Number:	
Instructions: Operators are required report is required to be submitted to be	n 60 days of closure completion): to obtain an approved closure plan prior to the division within 60 days of the completion and the closure activities have been completed.	o implementing any closu on of the closure activities ompleted.	re activities and submitting the closur	
22			- 4.00	
Closure Method: Waste Excavation and Remove If different from approved plants		Alternative Closure	Method Waste Removal (Clos	ed-loop systems only)
23				
	temoval Closure For Closed-loop System lity or facilities for where the liquids, dril			
were utilized.	my or factuates for where the aquas, arti	ung jiulas ana arin cam	ngs were aisposeu. Ose aitachmeni i	more than two juctuities
Disposal Facility Name	-	Disposal Facility	Permit Number:	
Disposal Facility Name			Permit Number:	
	ations and associated activities performed		t be used for future service and opean	tions?
_	•	No		
Required for impacted areas whice Site Reclamation (Photo Doc	h will not be used for future service and of umentation)	perations:		
Soil Backfilling and Cover In				
Re-vegetation Application Ra				
24				
Closure Report Attachment	Checklist: Instructions: Each of the foll	owing items must be atta	ched to the closure report. Please in	dicate, by a check mark in
the box, that the documents are a				
Proof of Closure Notice (so Proof of Deed Notice (requ				
Plot Plan (for on-site closu	*			
	nalytical Results (if applicable)			
' ' '	Analytical Results (if applicable)			
Disposal Facility Name an	•			
Soil Backfilling and Cover	Installation			i
Re-vegetation Application	Rates and Seeding Technique			
Site Reclamation (Photo D	ocumentation)			<u></u>
On-site Closure Location:	Latitude	Longitude:	NAD	927 1983
25				
	: and attachments submitted with this closur ble closure requirements and conditions sp			edge and belief. I also certify that
	2.24 come and commons of		- F	
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

Towns	ship: 27N	Range: 09W	Sections:	-		-		
NAD27	X : [‡]	Y:	Zone:		Search Rad	lius: ;		
County:		Basin:			Number:		Suffix	κ :
Owner Name: (I	First)	(Last) All		○ Non-Don	nestic	○ Dome	estic
la desire	POD / Su	rface Data Repo	ort Av ater Column Repo		to Water Rep	ort]	
	(Clear Form	WATERS M	enu	Help			
		and the second contract and analysis and the contract of the second seco	WATER COLUMN F	REPORT	09/23/2008	3		
POD Number			2=NE 3=SW 4=SE st to smallest q q Zone			Depth Well	Depth Water	Wate Colum

No Records found, try again

New Mexico Office of the State Engineer POD Reports and Downloads

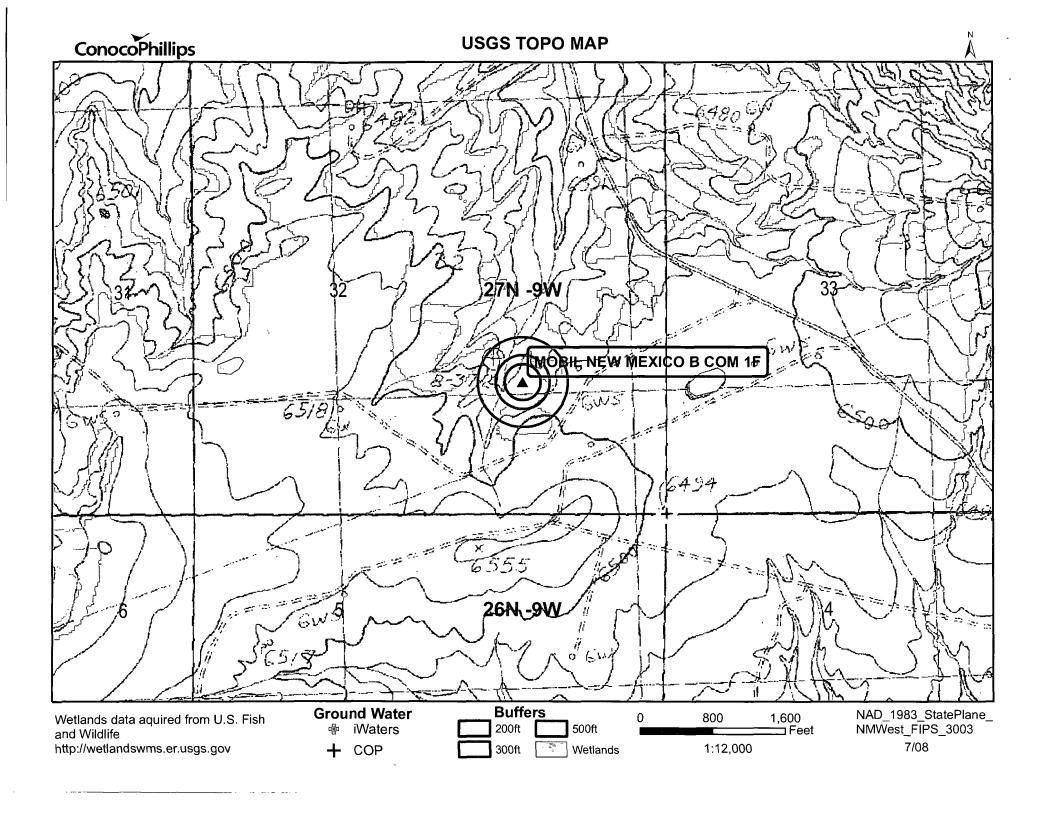
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County:		Basin:		٠		Number:	Suffix:
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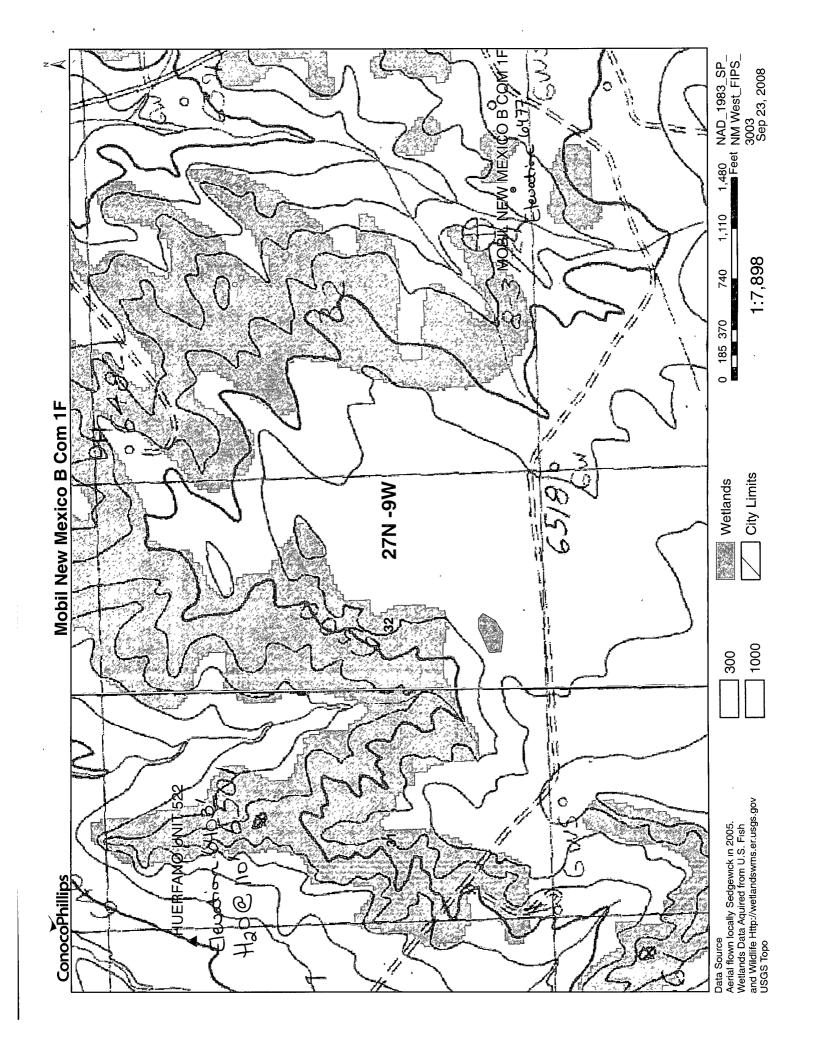
WATER COLUMN REPORT 09/23/2008

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

	(quarter	s are	e big	gge	est	to:	smalles	t)		Depth	Depth	₩at∈
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SJ 02961	26N	09W	01	2	2	3				1500		,
SJ 02962	26N	09W	01	3	2	3				1500		
SJ 01756	26N	09W	11	2	2	3				75	40	3
SJ 03811 POD1	26N	09W	12	3	3	3				348	175	17
SJ 00412	26N	09W	16	4	2					202	65	13
SJ 00214	26N	09W	26	2	4	2				946	230	71
SJ 00064	26N	09W	26	4	2	1				490	215	27
SJ 00063	26N	09W	26	4	2	3				479	234	24

Record Count: 8





DATA SHEET FOR DEEP GROUND BED CATHODIC. PROTECTION WELLS NORTHWESTERN NEW MEXICO

Operator Mer Lan O. Location: Unit Sec. 3/Twp Z7 Rng 9
Name of Well/Wells or Pipeline Serviced HuerFano #522
Elevation Completion Date 1-7-95 Total Depth Land Type T Casing Strings, Sizes, Types & Depths 100 0 8 8" PUC (45) 9
If Casing Strings are cemented, show amounts & types used <u>yes</u> 17 Sacks.
If Cement or Bentonite Plugs have been placed, show depths & amounts used None
Depths & thickness of water zones with description of water: Fresh, Clear, Salty, Sulphur, Etc. 1/0-Fresh 260-Fresh DECEMBED JAN 1 1 1996
Depths gas encountered: None OM COM DAVI
Ground bed depth with type & amount of coke breeze used: 5300/65 Loresco
Depths anodes placed: (1) 385 375 365 355 345, 335 325 315 305 295 270 240 175 165 Depths vent pipes placed: SurFue to 410
Vent pipe perforations: From 146 to 410' Remarks: No 505 encountered during drilling of hole

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.

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Bruzos Rd., Aztec, NM 87410

PO Box 2088, Santa Fe, NM 87504-2088

District IV

State of New Mexico
Energy, Minerals & Natural Resources Department

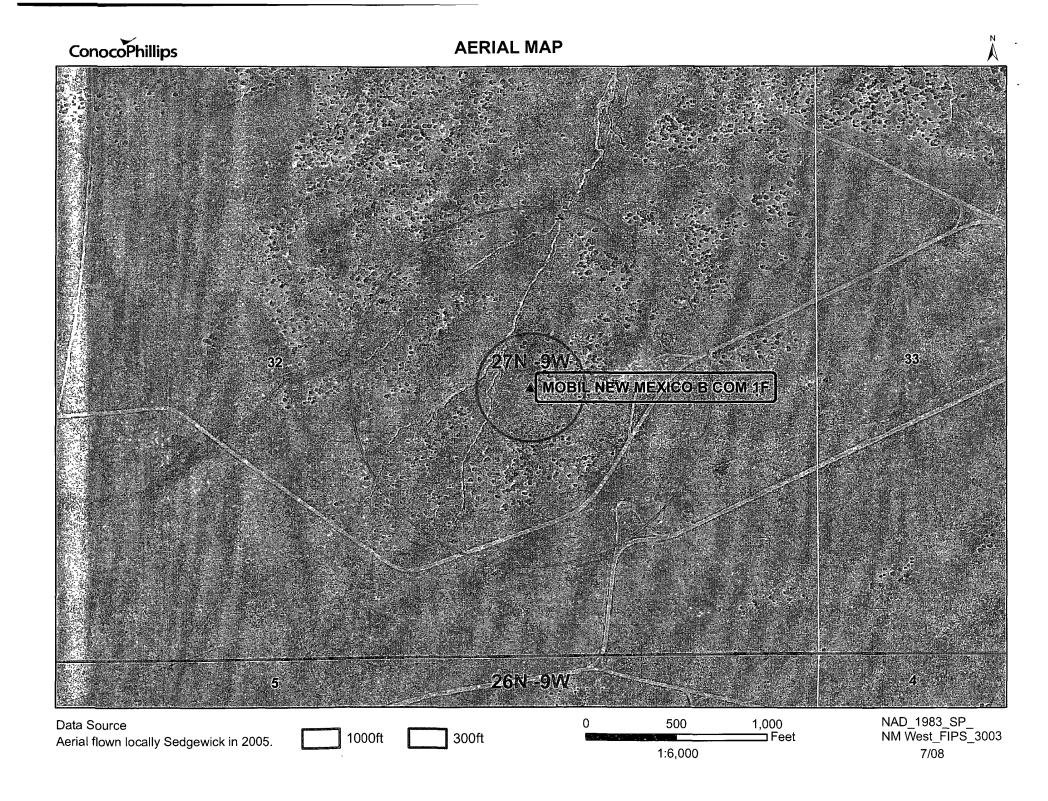
Form C-102 Revised February 21, 1994 Instructions on back Submit to Appropriate District Office

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe, NM 87504-2088

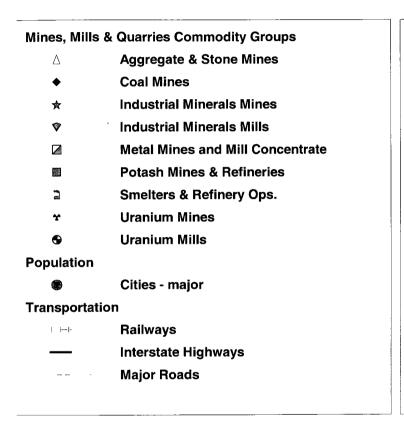
State Lease - 4 Copies ST SEP -7 F. 10: 3 Fee Lease - 3 Copies

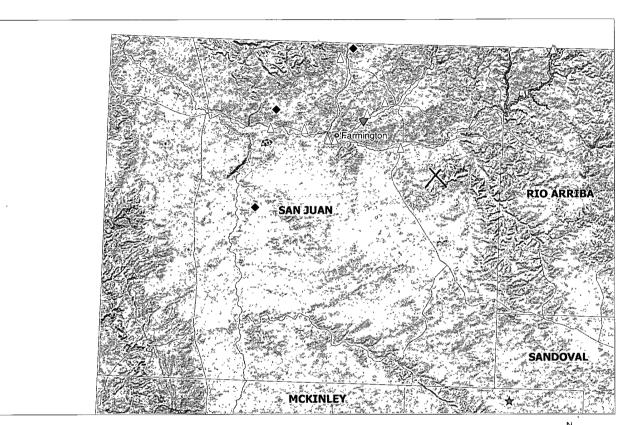
AMENDED REPORT

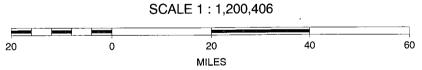
PO Box 2088, Sa	ota Fe, NM	87504-2098					070 FA	H.O.L	amend M	ED REPORT	
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2142	139		Hu	erfan	o Unit				522		
14538	No.				' Operator	Nume			' El	evatioa	
			Me	ridia	n Oil Inc				64	03'	
					10 Surface						
UL or lot no.	Section 31	Township 27N	Range 9W	Lot Ida	Feet from the	North/South line North	Feet from the	East/West	line C	S.J.	
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UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from th		line C	ousty	
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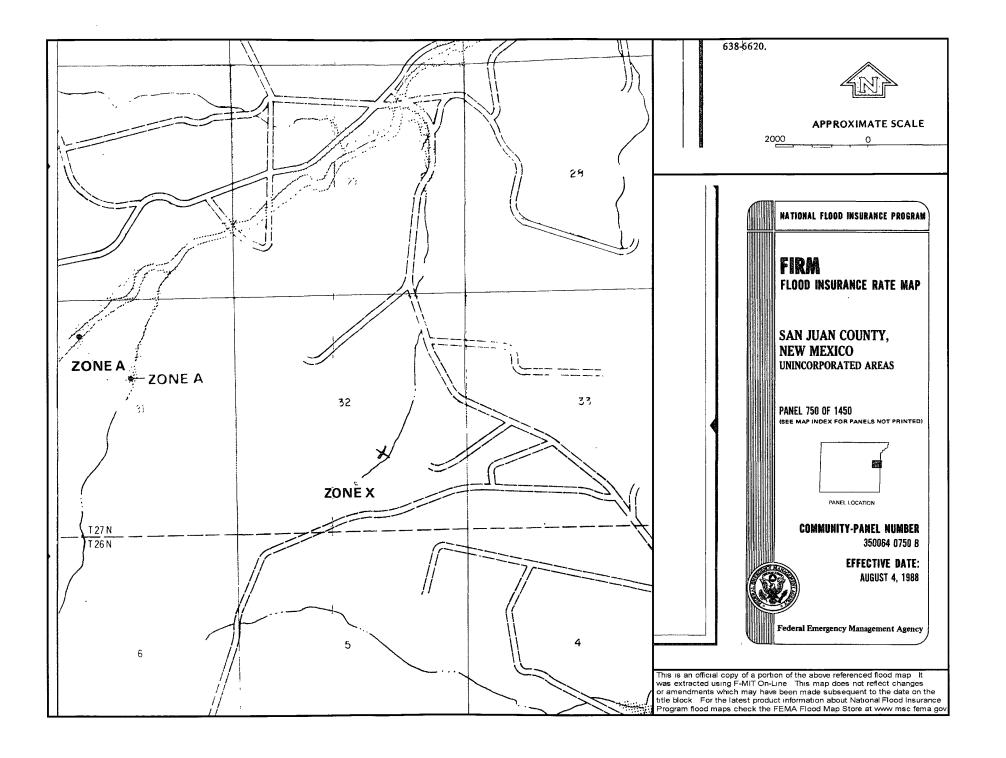
Mobil New Mexico B Com 1F Mines, Mills and Quarries Web Map











Hydrogeological Report for Mobil New Mexico B Com 1F

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.

Siting Criteria Compliance Demonstration & Hydro Geologic Analysis

The Mobil New Mexico B Com #1F 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 Huerfano Unit #522 with an elevation of 6403' and groundwater depth of 110'. The subject well has an elevation of 6477' which is great than the Huerfano Unit #522, therefore the groundwater depth is greater than 100'. There are no iWATERS data points in the area as indicated on the TOPO Map. The Cathodic data provides the indication that groundwater depth is greater than 100'. The hydro geologic analysis indicates the groundwater depth and the Nacimiento formation will create a stable area for this new location.

DISTRICT I 1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico Energy, Minerals & Natural Resources Department

Form C-102. Revised October 12, 2005

<u>DISTRICT II</u> 1301 W. Grand Avenue, Artesia, N.M. 88210

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

16

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

¹ API Number	^{'2} Pool Code	³ Pool Name BASIN DAKOTA	
Property Code	⁶ Property Na MOBIL NEW MEXIC		* Well Number
OGRID No.	⁰ Operator Na BURLINGTON RESOURCES OIL		Elevation 6477

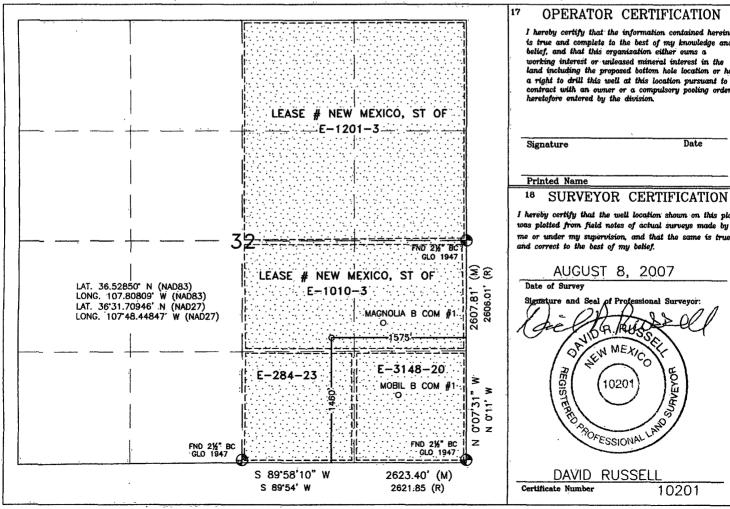
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	32	27N	9W		1460'	SOUTH	1575	EAST	SAN JUAN

¹¹ Bottom Hole Location If Different From Surface

			DOCC	am máré	HOCKHOII I	Different 110	m buracc		
UL or lot no.	Section .	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
						·			
18 Dedicated Acres			18 Joint or	Infill	14 Consolidation C	Code	15 Order No.		
314.36	Acres -	(E/2)	1						
			i		i .				

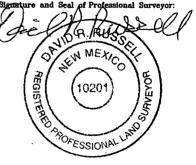
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner or a compulsory pooling order

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



10201

LATITUDE: 36.52850°N LONGITUDE: 107.80809°W DATUM: NAD 83

SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.

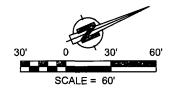
BURLINGTON RESOURCES O&G CO LP

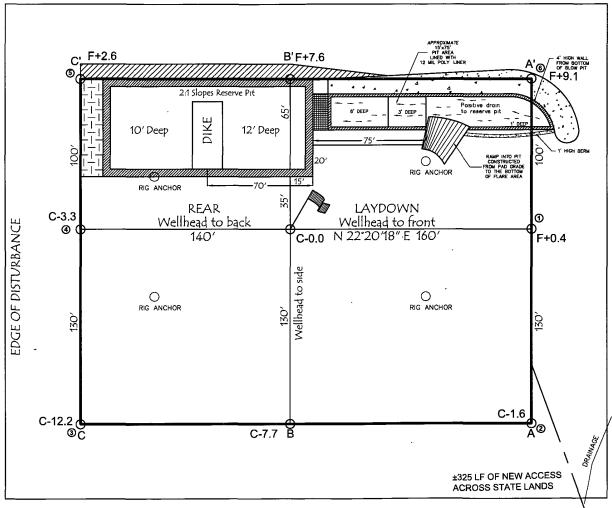
MOBIL NEW MEXICO B COM #1F 1460' FSL & 1575' FEL

LOCATED IN THE NW/4 SE/4 OF SECTION 32,

T27N, R9W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 6477', NAVD 88 FINISHED PAD ELEVATION: 6476.5', NAVD 88





330' x 400' = 3.03 ACRES OF DISTURBANCE

SCALE: 1" ≥ 60' JOB No.: COPC097 DATE: 08/15/07 NOTE:

RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).

RUSSELL SURVEYING, INC. IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.

CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED, BURIED PIPELINES OR

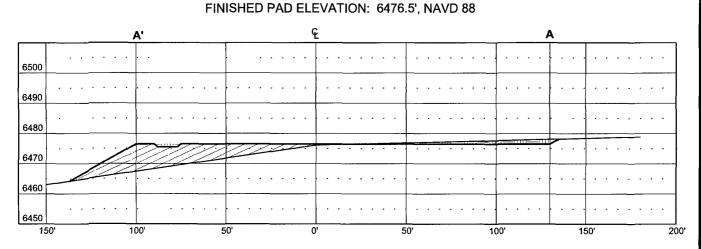
CABLES ON WELL PAD, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR
TO CONSTRUCTION.

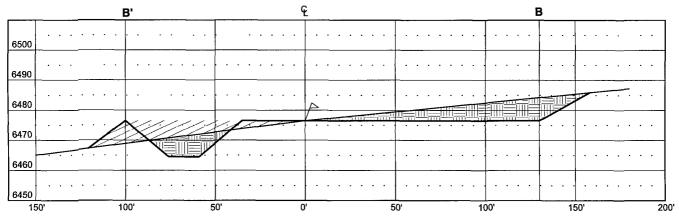


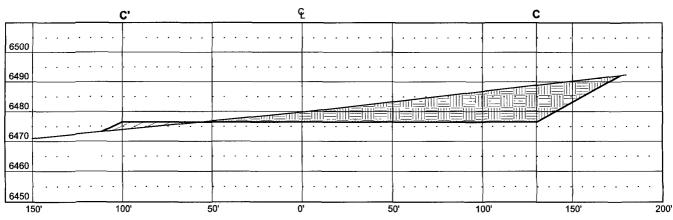
Russell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637 LATITUDE: 36.52850°N LONGITUDE: 107.80809°W DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

MOBIL NEW MEXICO B COM #1F
1460' FSL & 1575' FEL
LOCATED IN THE NW/4 SE/4 OF SECTION 32,
T27N, R9W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
GROUND ELEVATION: 6477', NAVD 88







THIS DIAGRAM IS AN ESTIMATE OF DIRT BALANCE AND IS NOT INTENDED TO BE AN EXACT MEASURE OF VOLUME

VERT. SCALE: 1" = 30' HORZ. SCALE: 1" = 50' JOB No.: COPC097 DATE: 08/15/07





Russell Surveying 1409 W. Aztec Blvd. #2 Aztec, New Mexico 87410 (505) 334-8637

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	5 Q0	
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. 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.
- 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:

The lote of occu bar be compared on the basis of 1 20 as follows:							
Source No. On	e (poor quality)	Source No. two (better quality)					
Purity	50 percent	Purity	80 percent				
Germination	40 percent	Germination	63 percent				
Percent PLS	20 percent	Percent PLS	50 percent				

5 lb. bulk seed required to make 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.