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

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

1220 S of Francis Di , Santa Fe, NM 8/303
Proposed Alternative Method Borneit on Glosure Plan Application
Proposed Alternative Method Permit or Closure Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
Modification to an existing permit
X Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the
environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances
1 Operator: Burlington Resources Oil & Gas Company, LP OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499
Facility or well name: Marshall 1F
API Number: 30-045-34423 OCD Permit Number
U/L or Qtr/Qtr: D(NWNW) Section: 14 Township: 27N Range: 9W County: San Juan
Center of Proposed Design: Latitude: 36.580711' N Longitude: 107.764840' W NAD: 1927 X 1983
Surface Owner: X Federal State Private Tribal Trust or Indian Allotment
Temporary.
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 new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
Liner Seams: Welded Factory Other
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: bbl Type of fluid: Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE DPVC Other
Tank Construction material:
Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off
Visible sidewalls and liner Visible sidewalls only Other
Liner Type: ThicknessmɪlHDPEPVCOther
Alternative Method:

Submittal of an exception request is required Exceptions must be submitted to the Santa Fe Environmental 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 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.				
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 constant Exception(s) Requests must be submitted to 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	XNo		
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)	Yes XNA	□No		
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image 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 - 1WATERS 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 	Yes	XNo		
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site Within the area overlying a subsurface mine. - Written confirmation 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 Geological Society; Topographic map Within a 100-year floodplain - FEMA map	Yes Yes	X No X No		

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 X
X Siting Criteria 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. Undergood legic Property based upon the requirements of Property (1) of Subsection B of 19.15.17.9 NMAC.
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
Studig Criteria Compinance Demonstrations - based upon the appropriate requirements of 19.13.17.10 NWAC
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 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)
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. Descende and Proceedings based upon the appropriate requirements of 10.15.17.13 NIMAC.
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
1 1 3011 Dackfill and Cover Design Specifications - based upon the appropriate requirements of Subsection 11 of 19.13.17.13 (WAC)
Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

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16					
Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Instructions. Please identify the facility or facilities for the disposal of liquids, drilling fluore required.		cilities			
Disposal Facility Name:	Disposal Facility Permit #:				
Disposal Facility Name: IDisposal FACILITY NAM	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 Re-vegetation Plan - based upon the appropriate requirements of Subsection Site Reclamation Plan - based upon the appropriate requirements of Subsection Plan - based upon the ap	on I of 19.15.17.13 NMAC				
17 Siting Criteria (Regarding on-site closure methods only: 19.15 17.10 NMAC Instructions Each siting criteria requires a demonstration of compliance in the closure plan. Recertain siting criteria may require administrative approval from the appropriate district office or for consideration of approval Instifications analyor demonstrations of equivalency are required	may be considered an exception which must be submitted to the S				
Ground water is less than 50 feet below the bottom of the buried waste.		Yes X No			
- NM Office of the State Engineer - 1WATERS 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 obtained	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).	nt watercourse or lakebed, sinkhole, or playa lake	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 ex - Visual inspection (certification) of the proposed site, Aerial photo, satellite image	stence at the time of initial application	Yes XNo			
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 Within incorporated municipal boundaries or within a defined municipal fresh water well	ce at the time of the initial application ion) of the proposed site	Yes X No			
pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality, Written approval obtain		Yes XNo			
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 confirantion or verification or map from the NM EMNRD-Mining and Mi	peral Division	Yes X No			
Within an unstable area Engineering measures incorporated into the design, NM Bureau of Geology & Mine		Yes X No			
Topographic map Within a 100-year floodplain. - FEMA map		Yes XNo			
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 closure	e plan. Please indicate,			
 X Siting Criteria Compliance Demonstrations - based upon the appropriate r X Proof of Surface Owner Notice - based upon the appropriate requirements 	•				
Construction/Design Plan of Burial Trench (if applicable) based upon the					
Construction/Design Plan of Temporary Pit (for in place burial of a drying		9.15.17.11 NMAC			
X Protocols and Procedures - based upon the appropriate requirements of 19					
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC					
X Waste Material Sampling Plan - based upon the appropriate requirements	of Subsection F of 19.15.17.13 NMAC				
X Disposal Facility Name and Permit Number (for liquids, drilling fluids and	d drill cuttings or in case on-site closure standards can	not be achieved)			
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					

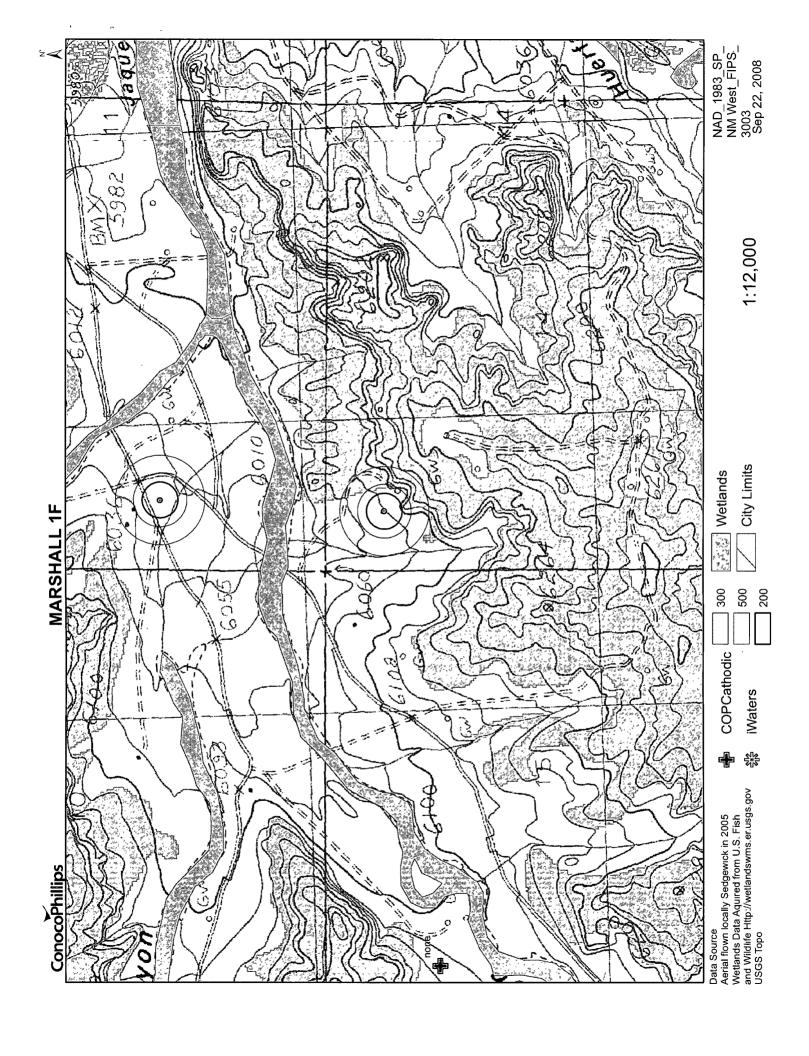
Form C-144 Oil Conservation Division Page 4 of 5

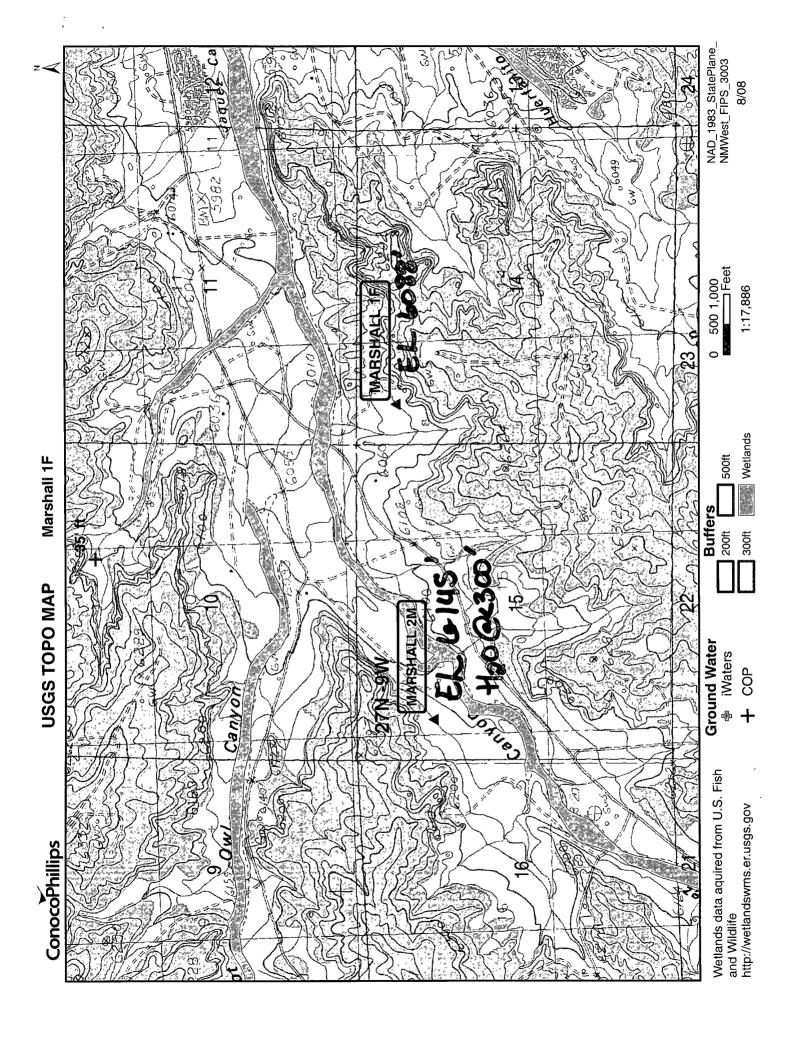
19 Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print): Crystal Tafoya Title Regulatory Technician
Signature: Canada Talona, Date: 10/3/08
e-mail address: crystal.tafoya@conocoph/llips.com Telephone 505-326-9837
20 OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Bunghon Smill Approval Date: 11-4-08
·
Title: Envirolspec OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 1915 1713 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:
Closure Completion Date.
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 compliane to the items below) No
Required for impacted areas which will not be used for future service and operations Site Reclamation (Photo Documentation)
Soil Backfilling and Cover Installation
Re-vegetation Application Rates and Seeding Technique
Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (if applicable) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
Site Reclamation (Photo Documentation)
On-site Closure Location: Latitude:Longitude:NAD19271983
25
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is ture, accurate and complete to the best of my knowledge and belief. I also certify that
the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Title:
Signature: Date:
e-mail address: Telephone:

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 27N	Range: 09W	Sections:	ng dalah ng dap na da dalah na da dalah na na na manar na papan na n	- , - ,		
Township, 271	Kange. 100W	Sections.	-			
NAD27 X:	, Y:	Zone:	Sear	ch Radius:	record to my	
County:	Basin:	,	Nur Nur	mber:	Suffix	:
Owner Name: (First)	(Last)) ⊚ All	○No	n-Domestic	O Dome	stic
POD / S	Surface Data Report Water (Avg De	epth to Wat	er Report]	
(quarte	WATE ers are 1=NW 2=NE ers are biggest t	o smallest)		Depth	Depth Water	Wate Colum

No Records found, try again





TIERRA CORROSION CONTROL, INC DRILLING LOG

COMPANY: ConocoPhillips LOCATION: Marshall 2M

STATE: NM BIT SIZE: 7 7/8"

LBS COKE BACKFILL: 2,600# ANODE TYPE: 2" X 60" Duriron

DATE: March 11, 2008 LEGALS: S15 T27N R9W DRILLER: Eugene Silago

CASING SIZE/TYPE: 8" X 20' PVC

VENT PIPE: 300' ANODE AMOUNT: 10 COUNTY: San Juan

DEPTH: 300"

COKE TYPE: Asbury PERF PIPE: 120'

BOULDER DRILLING: None

DEPTH	DRILLER'S LOG	AMPS	DEPTH	DRILLER'S LOG	AMPS
20	Sand	-	310		
25	Sand Stone	T	315		
30	1	11	320		
35		1.2	325	 	
40		1.2	330		1
45		1.2	335		
50		12	340		.
55		1.3	345		
60		1 5	350		
65		1.9	355		
70		1 9	360 .		
75		1 3	365		
80		15	370		
85		1.3	1 375		
90		1 5	380		
95	\ \	1.2	385		
100	Shale	2.8	390		
105		2.5	395		
110	,	2.4	400		
115		2.2	405		
120	*	2.0	410		
125	Sand Stone	1.9	415		
130		1.9	420		
135		13	425		
140		12	430		
145		1 3	435		
150	▼	13	440		1
155	Shale/Sand Stone	20	445		
160		2.1	450		
165		2.2	455		
170		2.3	460		
175		29	465		
180		2.5	470		<u> </u>
185		26	475		
190		29	480		
195		3 4	485		
200		3 7	490		
205		3 5	495		
210		22	500		
215 220		2.0	 		
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255	 	2.5	1		
260	 	2.7			-
265	 	2.5	 		
270		3 6	 		
275		4.0		1	+
280		4.3	 	 	-
285	 	3 5	-		
290	 	27	 	 	
295		25	+	-	
300	 	21		+	
305	 		+	 	

ANODE #	DEPTH	NO COKE	COKE
1	289	2.7	4.6
2	279	4.3	6.3
3	269	3.6	5.8
4	259	2.7	4.7
3 4 5 6	249	2.7	4.0
6	239	2.4 1.9	4.1
	229	1.9	3.9
8	219	1.9	3.9
9	209	2.2	5.4
10	199	3.7	5.8
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27 28 29 30			

WATER DEPTH: None ISOLATION PLUGS: None LOGING VOLTS: 13.1

VOLT SOURCE: AUTO BATTERY

TOTAL AMPS: 17.7

TOTAL GB RESISTANCE: .74

REMARKS:

OCD CATHODIC PROTECTION DEEPWELL GROUNDBED REPORT DATA SHEET: NORTHWESTERN NEW MEXICO

OPERATOR: ConocoPhillips CO. FARMINGTON, NM 87401

PHONE: 599-3400

SUBMIT 2 COPIES TO O.C.D. AZTEC OFFICE

LOCATION INFORMATION	API Number 30-045-34/54
WELL NAME OR PIPELINE SERVED: Mushall #211 LEGAL LOCATI	ON: 515 T27N ROW INSTALLATION DATE 3/11/08
PPCO. RECTIFIER NO.: ADDITIONAL WELLS:	
TYPE OF LEASE: LEASE NUMBER:	
GROUND BED INFORMATION	
TOTAL DEPTH: 300′ CASING DIAMETER: 8″ TYPE OF CASING:	CASING DEPTH: PUC CASING CEMENTED:
TOP ARODE DEPTH: 148 BOTTOM ANODE DEPTH: 289	
ANODE DEPTHS: 269, 279, 201, 259, 249, 231, 229, 2	19 209 199
AMOUNT OF COKE 2,400 1/15	
WATER INFORMATION	
WATER DEPTH (I): NONE WATER DEPTH (2): NONE	
CAS DEPTIL NONE CEMENT PLUCS: NONE	
OTHER INFORMATION	
TOP OF VENT PERFORATIONS: 180 VENT PPE DEPTH: 300	
REMARKS:	

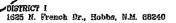
IF ANY OF THE ABOVE DATA IS UNAVAILABLE, PLEASE INDICATE SO. COPIES OF ALL LOGS, INCLUDING DRILLERS LOGS, WATER ANALYSIS, AND WELL BORE SCHEMATICS SHOULD BE SUBMITTED WHEN AVAILABLE. UNPLUGGED UNABANDONED WELLS ARE TO BE INCLUDED.

*- LAND TYPE MAY BE SHOWN: F-FEDERAL; I-INDIAN; S-STATE; P-FEE IF FEDERAL OR INDIAN, ADD LEASE NUMBER.

ConocoPhillip

Cathodic Protection Work Order

Authorized by: Randy Smith Submitted to: Both				Dat	e Submitted: Due Date:	10/26/2007 12/25/2007
Customer P.O.: BCURLEY Co		58966 - 10158962 2M		- 2	Formation:	ĎĶ
Foreman: Kennedy	Run#: 30		ction: 15 Latitude:	Township: 36.57901 Wintering		Range: 9 107.78254
✓ New CP System		Tie to Existing CP System			bed Replaceme	
System Upgrade	_	System Repair		_	C Junction w/C	
✓ 6-3/4" x 300' Groundbed		20' PVC Casing w/J-Box	· ·	☐ #8 UG/	<u></u>	(ft.)
✓ 12/4 Single Well Solar		12/6 2 Well Solar		☐ #6 UG/] (ft.)
☐ 30/12 Rectifier	_	40/16 Rectifier			er Pole 240V/1	_
10' Stub Pole w/Load Center		8' UGAC Junction w/Load	Center		er Pole 480V/1	•
#8 DC Positive Cable 250			200 (ft.)			
#6 DC Positive Cable		#6 DC Negative Cable	(ft.)	✓ ONE-C	ALL REQUIRE	D
API: 30-045-34159 In-Service Information:	1290'10,6	65W Elov 61	45'			
Rectifier Installed:	DC Volts:	Model:	ol DC Amnor	Serial:	Tana	
(As left) AC volts: Circuit #1;	Static:	Am	al DC Amps:		Taps: Csg/Fi, P/S (O	n\
Circuit #2	Static:	Am			Csg/Fl, P/S (O	
Circuit #3	Static:	Am	•		Csg/FI, P/S (O	
Tank/Pit Anode:	Static:	Am			P/S (On)	.,
Tank/Pit Anode:	Static:	Am			P/S (On)	
In-service Date:	In_Serv				(0)	
			orner of	LOCAL	,0	







DISTRICT II 611 South First, Artesia, N.M. 69210

OIL CONSERVATION DIVISION (

Submit to Appropriate District Office State Lease - 4 Copies

State Lease - 3 Copies

☐ AMENDED REPORT

DISTRICT III

DISTRICT IV 2040 South Pacheco, Santa Fe, NM 87505

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

2040 South Pacheco Santa Fe, NM 67505

REDERVED

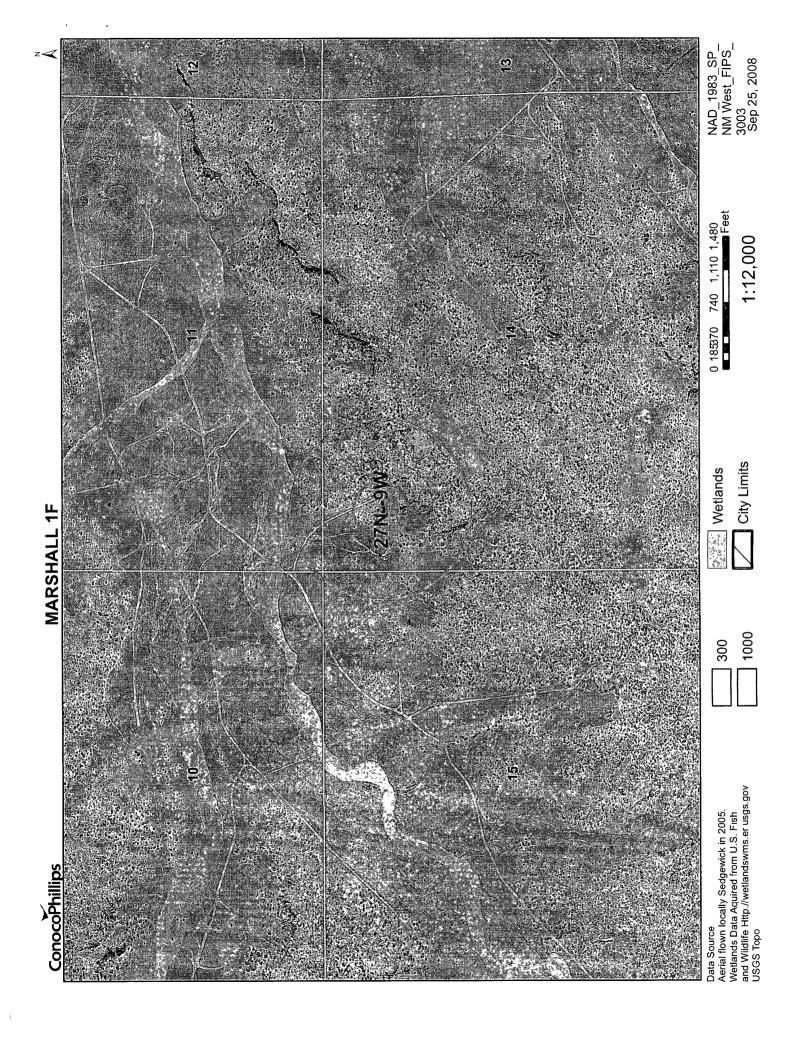
WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-	^o Paol Code 72319/71599	Pool Name MESA VERDE/DAKOTA
⁴ Property Code 7289		orty Name of Well Number RSHALL 2M
70GRD No. 14538	i	ator Name ⁶ Elevation SOURCES O&G CO LP 6145'

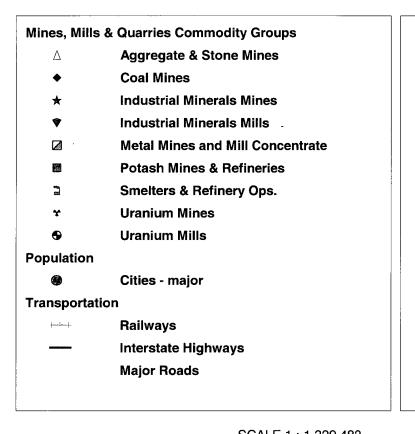
¹⁰ Surface Location Township North/South line UL or lot no. Range Lot Idn Feet from the Feet from the Bast/West line Section County 665' D 15 27N 1290' NORTH WEST SAN JUAN 11 Bottom Hole Location If Different From Surface UL or lot no. Lot Idn Feet from the North/South line Feet from the East/West line Section Township County 14 Consolidation Code ¹³ Dedicated Acrea 15 Joint or Infill 16 Order No. 319.44 Acres - (N/2)

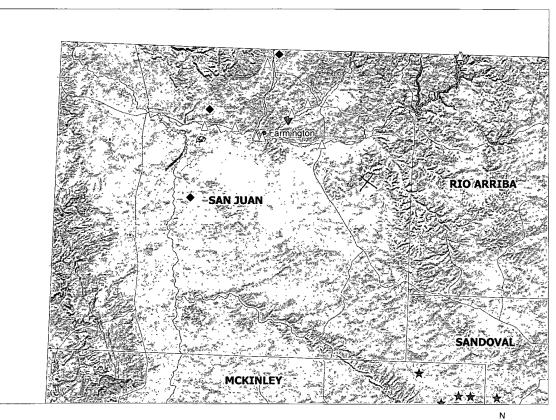
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED

3	UK A NUN-STANDARD UNIT H	AS BEEN AFFROVED BI	THE DIVIDION
89.51.54 N 89.51.54 N 89.56 W N 89.56 W N 89.56 W	W: 2628.55' (M): FND 2" BC GLO 1947 2622.84' (R): LAT. 36.57801' N (NAD 83): LONG. 107.78254' W (NAD 83): LAT. 36'34.74011 N (NAD 27):		17 OPERATOR CERTIFICATION I haveby certify that the information contained herein is true and complete to the best of my insuladge and belief
	LONG. 10746.91550 W (NAD 27). MARSHALL A #4. O MARSHALL #2.		Signature Rhonda Rogers Printed Name Regulatory Technician Title October 23 2006 Date
C. LEASE # USA Z. PND 2" BC GLO 1947	15		18 SURVEYOR CERTIFICATION I hereby cartify that the well location shown on this plat was platted from field notes of actual surveys made by me or under my supervision, and that the came is true and correct to the best of my belief.
	 		SEPTEMBER 27, 2006 Bate of Survey Signature and Seal of Professional Surveyor:
			AR HUSSELL HOWARD OF THE PROPERTY OF THE PROPE
			DAVID RUSSELL Cortificate Number 10201



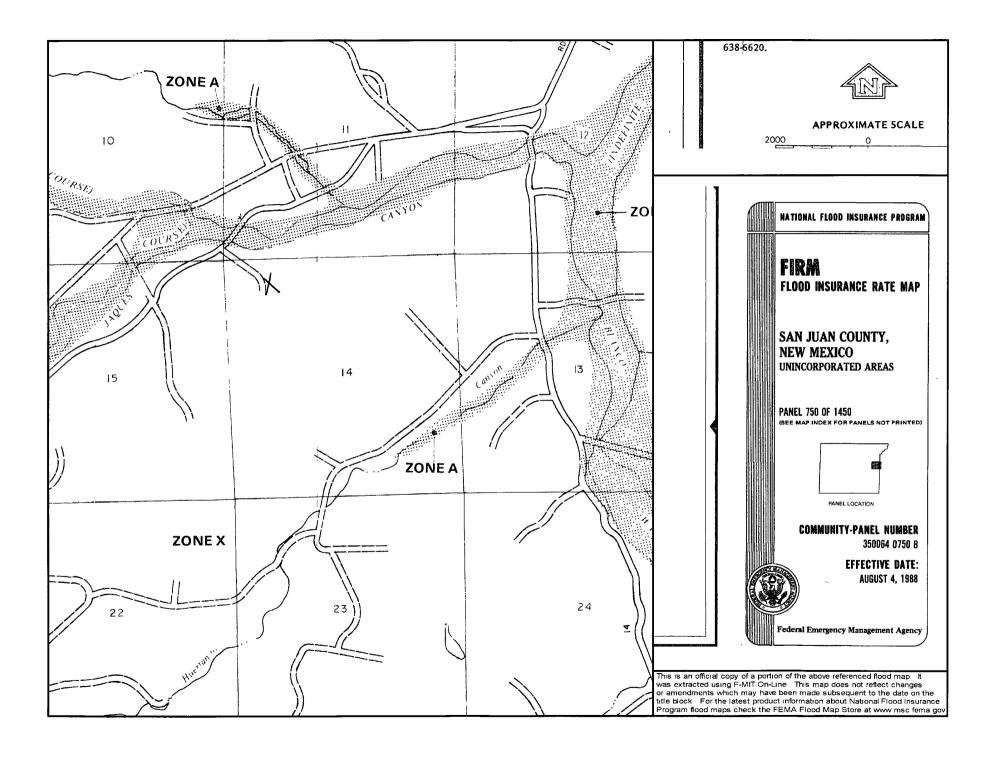
Marshall 1F Mines, Mills and Quarries Web Map











Hydrogeological Report for Marshall 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 Marshall 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 Cathodic well data from the Marshall 2M has an elevation of 6145' and groundwater depth of at least 300'. The subject well has an elevation of 6088' which is slightly less than the Marshall 2M, therefore the groundwater depth is greater than 100'. There are no iWATERS data points located in the area as indicated on the TOPO Map. The Cathodic data provided the indication of 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.

Tafoya, Crystal

From:

Tafoya, Crystal

Sent:

Thursday, October 02, 2008 5:36 PM

To: Subject: 'mark_kelly@nm.blm.gov' Surface Owner Notification

· ·

The temporary pit for the following list of wells will be closed on-site. Please let me know if you have any questions.

Klein 27P Lively 21N Marshall:1F

Thanks,

Crystal L. Tafoya Regulatory Technician *ConocoPhillips Company* San Juan Business Unit Phone: (505) 326-9837

Email: Crystal.Tafoya@conocophillips.com

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

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Azteo, NM 87410

District IV

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

SEP 0 6 2007

Form C-102

State of New Mexico Energy, Minerals & Natural Resources Department Land Managers and October 12, 2005
OIL CONSERVATION DIVISION Farmington builtly Appropriate District Office

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

State Lease - 7 Copies

Fee Lease - 3 Copies

C) AMMENOED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number		1			Pool Name			
1-3-1	26 P.	71.	71599 DAKOTA				AKOTA	
b	5 Property Name						6 Well Number	
f	MARSHALL							1F
	B Operator Name							9 Elevation
Į		BURLINGTON RESOURCES OIL AND GAS COMPANY 6086					6086	
				10 SURFACE	LOCATION			· · · · · · · · · · · · · · · · · · ·
Section	Township	Range	Lot Ida	Foot from the	North/South line	Feet from the	East/West line	County
14	27-N	9-W		660	NORTH	660	WEST	SAN JUAN
		¹¹ F	Sottom H	ole Location	If Different Fro	m Surface		
Section	Tervoship	Range			North/South line	Feet from the	East/West time	County
,								
13 Joins	oe fafill 14	Consolidation	Code 15	Order No.			<u> </u>	
	Section 14	Section Township 14 27-N Section Township	Section Township Range 14 27-N 9-W Section Township Range 11 Section Township Range	Section Township Range Lot Idn 14 27-N 9-W Section Township Range Lot Idn 13 Joins or Infill 14 Consolidation Code 15	John John of Infill 14 Consatidation Code 15 Order No.	71599 J Property Narse MARSHALL B Operator Name BURLINGTON RESOURCES OIL AND GAS 10 SURFACE LOCATION Section Township Range Lot Life Foot from the North/South time 14 27-N 9-W 11 Bottom Hole Location If Different Fro Section Township Range Lat Idn Foot from the North/South line 13 Joint of Infill 14 Consolidation Code 15 Order No.	71599 J Property Narroe MARSHALL B Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY 10 SURFACE LOCATION Section [Township] Range Lot Lide Foor from the North/South time Foot from the 14 27-N 9-W 660 NORTH 660 11 Bottom Hole Location If Different From Surface Section Township Range Lat Idn Foot from the North/South line Foot from the	71599 71599 3 Property Narce MARSHALL B Operator Name BURLINGTON RESOURCES OIL AND GAS COMPANY 10 SURFACE LOCATION Section Township Range Lot ton Feet from the North/South time Feet from the 660 WEST 14 27-N 9-W Bostom Hole Location If Different From Surface Section Township Range Lat Idn Feet from the North/South line Feet from the East/West line 11 Bostom Hole Location If Different From Surface Section Township Range Lat Idn Feet from the North/South line Feet from the East/West line 13 Joint of Infill 14 Consolidation Code 15 Order No.

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

660°	S 875('46' E N 89'42'00' W WELL FLAG NAD 83 LAT: 36,580711" N LONG: 107.784840" W NAD 27 LAT:35"34.842153' N LONG: 107"4E.841559"	5217.5' (M) 2887.5' (R) W	17 OPERATOR CERTIFICATION I hardy certif thus the information contained herein I save and complete to the best of any brownings and beitef, and then this argusthation either owns a working this rest or unlessed mineral interest in the lead intelleding the proposed bation hole location or has a right to drill this well at this location pursuant to a contrast with an aromer of make a mineral or withing interest, or to a voluntary pooling agreement or a computatory pooling order hereafare entered by the direction.
5280.5' (M) 5280.5' (R)			Significance Rhonda Rogers Printed Home Regulatory Technician Title and E-mail Address 3 - 6 - 0 7 Date Tale Surveyor Certification
S G28G22 元 N G533'00 東			I hereby certify that the well location shown on this plad may philips from fell stores of occlud surveys made by me or water my supervisors, and that the same to true and cornect to the best of my balled. Date of Surveys 7/10/07 Signature and Soci of Professioned Surveyors
			Certificate Humber: NM 11393

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:

- 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
 - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.
- 6. Liner of temporary pit shall be removed above "mud level" after stabilization. Removal of liner will consist of manually or mechanically cutting liner at mud level and removing all remaining liner. Care will be taken to remove "All" of the liner i.e., edges of liner entrenched or buried. All excessive liner will be disposed of at the San Juan County Landfill located on CR 3100.
- 7. Pit contents shall be mixed with non-waste containing, earthen material in order to achieve the solidification process. The solidification process will be accomplished using a combination of natural drying and mechanically mixing. Pit contents will be mixed with non-waste, earthen material to a consistency that is deemed a safe and stable. The mixing ratio shall not exceed 3 parts clean soil to 1 part pit contents.
- 8. A five point composite sample will be taken of the pit using sampling tools and all samples tested per Subsection B of 19.15.17.13(B)(1)(b). In the event that the criteria are not met, all contents will be handled per Subparagraph (a) of Paragraph (1) of Subsection B of 19.15.17.13 i.e., Dig and haul.

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