Dist ict I 1625 N French Dr, Hobbs, NM 88240

1301 W Grand Ave., Artesia, NM 88210

1000 Rio Brazos Rd , Aztec, NM 87410

State of New Mexico Energy Minerals and Natural Resources Department

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

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

District IV 1220 S St. Francis Dr., Santa Fe, NM 87505	Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.
Pit, Closed-Loop System, Below-Gra	
Proposed Alternative Method Permit or Cl	osure Plan Application
Type of action: Permit of a pit, closed-loop system, below-grade	e tank, or proposed alternative method
Closure of a pit, closed-loop system, below-grad	le tank, or proposed alternative method
Modification to an existing permit	
X Closure plan only submitted for an existing perm below-grade tank, or proposed alternative metho	
Instructions: Please submit one application (Form C-144) per individual pit, closed-l	
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 applical	ble governmental authority's rules, regulations or ordinances
Operator: Burlington Resources Oil & Gas Company, LP	OGRID#: 14538
Address: PO Box 4289, Farmington, NM 87499	
Facility or well name: Johnston Federal 24S	
API Number: 30-045-34361 OCD Permit Num	nber·
U/L or Qtr/Qtr: I(NESE) Section: 12 Township: 30N Range:	9W County: San Juan
Center of Proposed Design: Latitude: 36.82368' N Longitude:	107.72735' W NAD: ☐ 1927 X 1983
Surface Owner: X Federal State Private Tribal Trust or Ind	lian Allotment
X String-Reinforced	HDPE PVC Other 100 bbl Dimensions L 65' x W 45' x D 10'
3 Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies notice of intent)	s to activities which require prior approval of a permit or
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 A PECEIVE
Below-grade tank: Subsection I of 19.15 17.11 NMAC Volume bbl Type of fluid:	OIL CONS. DIV. DISI.
Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and an	₩ *. • • • • • • • • • • • • • • • • • • •
Visible sidewalls and liner Visible sidewalls only Other Liner Type: Thickness mil HDPE PVC Other	
5 Alternative Method:	

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

6 ** Fencing: Subsection D of 10.15.17.11 NMAC (Applies to permanent pit temporary pits, and below grade tople)									
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									
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)									
8 Signs: Subsection C of 19.15.17.11 NMAC									
12" X 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers									
X Signed in compliance with 19.15.3.103 NMAC									
9 Administrative Approvals and Exceptions:									
Justifications and/or demonstrations of equivalency are required. Please refer to 19 15.17 NMAC for guidance.									
Please check a box if one or more of the following is requested, if not leave blank:									
X Administrative approval(s): Requests must be submitted to the appropriate division district of the Santa Fe Environmental Bureau office for cons (Distance from Pit to Watercourse)	sideration of ap	proval.							
Exception(s) Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.									
10 Siting Cuitonia (recording parmitting): 10.15.17.10 NIMAC									
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.									
toos not apply to diffing paids of above grade-tains associated with a crossed-took system.	1_	_							
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 - 1WATERS database search; USGS; Data obtained from nearby wells	Yes	No							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other watercourse, lakebed, sinkhole, or playa	Yes	□No							
lake (measured from the ordinary high-water mark).		_							
- Topographic map, Visual inspection (certification) of the proposed site									
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No							
(Applies to temporary, emergency, or cavitation pits and below-grade tanks)	□NA								
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image									
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.	Yes	No							
(Applied to permanent pits)	∏na	_							
- 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	□No							
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site.									
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended	Yes	No							
- 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.	Yes	∏No							
- Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological		□							
Society; Topographic map									
Within a 100-year floodplain	Yes	No							
- FEMA map	1								

Form C-144 Oil Conservation Division Page 2 of 5

Temporary Pits, Emergency Pits and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19 15.17.9 NMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached [] Hydrogoologic Penort (Polovic grade Teaks), based upon the requirements of Perceptable (4) of Subsection P. of 10.15.17.9 NIMAC.
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
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 19.15.17.11 NMAC
Nuisance or Hazardous Odors, including H2S, Prevention Plan
Emergency Response Plan
Oıl 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
Closure Fiant - based upon the appropriate requirements of Subsection C of 15.15 17.5 WWAC and 15.15.17.15 WWAC
Proposed Cleanury 10 15 17 12 NMAC
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. 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
Ste Reclamation Plan - based upon the appropriate requirements of Subsection G of 19 15.17.13 NMAC
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 Bins Only: (19.15.17.13.D NMAC) Instructions: Please identify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two	facilities							
are required								
Disposal Facility Name: Disposal Facility Permit #								
Disposal Facility Name Disposal Facility Permit #:								
Will any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future s Yes (If yes, please provide the information No	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 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 appropraite requirements of Subsection G of 19.15.17.13 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 acceptable source material are provided bel certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19 15 17 10 NMAC for guidance.	e Santa Fe Environmental Bio eau office							
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - 1WATERS database search; USGS. Data obtained from nearby wells	Yes X No							
Ground water is between 50 and 100 feet below the bottom of the burned waste	Yes X No							
- NM Office of the State Engineer - IWATERS database search; USGS; Data obtained from nearby wells	N/A							
Ground water is more than 100 feet below the bottom of the buried waste.	X Yes No							
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	N/A □ N/A							
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	X Yes No							
- Topographic map; Visual inspection (certification) of the proposed site	,							
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application - 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 five households use for domestic or stock watering purposes, or within 1000 horizontal fee of any other fresh water well or spring, in existence at the time of the initial application. - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted	Yes XNo							
pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Tes Ano							
Within 500 feet of a wetland - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	Yes X No							
Within the area overlying a subsurface mine.	Yes X No							
- Written confirantion or verification or map from the NM EMNRD-Mining and Mineral Division								
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society;	Yes XNo							
Topographic map Within a 100-year floodplain. - FEMA map	Yes XNo							
On-Site Closure Plan Checklist: (19 15 17.13 NMAC) Instructions: Each of the following items must bee attached to the closury a check mark in the box, that the documents are attached.	re plan. Please indicate,							
X Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC X Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 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 pad) - based upon the appropriate requirements of	19 15 17 11 NMAC							
X Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC								
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection 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 drill cuttings or in case on-site closure standards ca	annot be achieved)							
X 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								

19	G		
Operator Application	n Certification: information submitted with this application is true, ac	sourate and complete to the	the heat of mulmouledee and heliof
Name (Print):	• •	Title:	Regulatory Technician
	Crystal Tafoya		· / · · · · · · · · · · · · · · · · · ·
Signature:	Constal Jajaya	Date:	10/23/08
e-mail address.	crystal.taloya@conocophilles.cem	Telephone:	/ 505-326-9837
20 OCD Approval:	Permit Application (including closure plan)	Closure Plan (only	ly) OCD Conditions (see attachment)
OCD Representative	000000	Tell	Approval Date:
Title:	Enviro/spec	OCD Pa	ermit Number:
Title	Living 1 ap CC		ethic ivalibet.
Instructions. Operators report is required to be		r to implementing any cle etion of the closure activi a completed.	losure activities and submitting the closure report. The closure vities. Please do not complete this section of the form until an
		Clost	sure Completion Date:
22			
Closure Method:			_
Waste Excavation		Alternative Closu	sure Method Waste Removal (Closed-loop systems only)
If different from	approved plan, please explain.		
23			
	ding Waste Removal Closure For Closed-loop Syste		
Instructions: Please ide were utilized.	entify the facility or facilities for where the liquids, d	rilling fluids and drill cu	uttings were disposed. Use attachment if more than two facilities
Disposal Facility Nat	me·	Disposal Facil	ility Permit Number.
Disposal Facility Nat		_	ulity Permit Number.
•	p system operations and associated activities performe		
Yes (If yes, plea	ise demonstrate complilane to the items below)	□No	
Required for impacte	ed areas which will not be used for future service and	operations:	
	n (Photo Documentation)		
=	and Cover Installation		
Re-vegetation A	Application Rates and Seeding Technique		
24	w. L Cl. III		
	<u>attachment Checklist:</u> Instructions: Each of the facuments are attached.	ollowing items must be a	attached to the closure report. Please indicate, by a check mark in
	re Notice (surface owner and division)		
Proof of Deed	Notice (required for on-site closure)		
Plot Plan (for o	on-site closures and temporary pits)		
Confirmation S	Sampling Analytical Results (if applicable)		
Waste Materia	I Sampling Analytical Results (if applicable)		
Disposal Facili	ity Name and Permit Number		
Soil Backfilling	g and Cover Installation		
Re-vegetation	Application Rates and Seeding Technique		
Site Reclamati	on (Photo Documentation)		
On-site Closur	e Location. Latitude:	Longitude:	NAD [] 1927 [] 1983
25			
Operator Closure Co	***********		
	information and attachments submitted with this clos th all applicable closure requirements and conditions	•	rate and complete to the best of my knowledge and belief. I also certify tha ed closure plan.
-	присто стояне теритенено ини сопинона		
Name (Print):		Title [.]	
Signature:		Date	
e-mail address		Telephone:	

New Mexico Office of the State Engineer POD Reports and Downloads

Township: 30h	Range: 08W	Sections:	THE COMMISSION SHEET WAS ASSESSED. ASSESSED WHICH A STREET WAS ADMITTED.
NAD27 X:	Y:	Zone:	Search Radius:
County: B	sin:	Nu	umber: Suffix:
Owner Name: (First)	(Last)	and All Control Control of the Contr	C Non-Domestic C Domestic C All
POD//Surface Data Re	ort Avg [Depth to Water Repo	oort%
	Clear Form	iWATERS Menu	<u>CHeip</u>

WATER COLUMN REPORT 08/21/2008

Tws 1	Rna S	ec a	ar ar	Zone	1
(quarters	are	bigge	est to	smallest)	
(duarcers	are	T=14M	Z=NE 3)=5W 4=5E)	

•	(quarter	s are	e bi	gge	st to	smallest)			Depth	Depth	Water	(in	feet)
POD Number	Tws	Rng	Sec	q d	a da	Zone	X	Y	Well	Water	Column		
SJ 01022	30N	08W	15	1					19	10	9		
SJ 01858	3 ON	08W	17						25	10	15		
SJ 00556	30N	08W	17	4 2	L 4				20	5	15		
SJ 00090	30N	08W	17	4	3 1				23	12	11		
SJ 03603	30N	08W	17	4 3	3 1				18	10	8		
SJ 01307	30N	W80	17	4 4	l.				29	19	10		
SJ 01209	30N	08W	17	4 4	1				25	14	11		
SJ 02807	30N	08W	17	4 4	1 1				. 28	15	13		
SJ 01516	30N	08W	19	2 2	2				15	10	5		-
SJ 01742	30N	W80	20	1 3	3				17	11	6		
SJ 01097	30N	08W	20	2					40	27	13		
SJ 01558	30N	08W	20	2 1	L				20	8	12		
SJ 01024	30N	08W	20	2 1	L				115				
SJ 03694 POD1	30N	08W	27	2 2	2 3				120	40	80		
SJ 03155	30N	08W	27	2 2	2 4				150	80	70		
SJ 03694	30N	08W	27	2 4	12				120	40	80		
SJ 00008	30N	08W	27	3		-			535				
SJ 03467	30N	08W	30	1 2	2 2				40	16	24		
SJ 03699 POD1	30N	08W	30	1 4	1 1				21	10	11		
SJ 03699	30N	08W	30	1 4	1 2					21			

Record Count: 20

New Mexico Office of the State Engineer POD Reports and Downloads

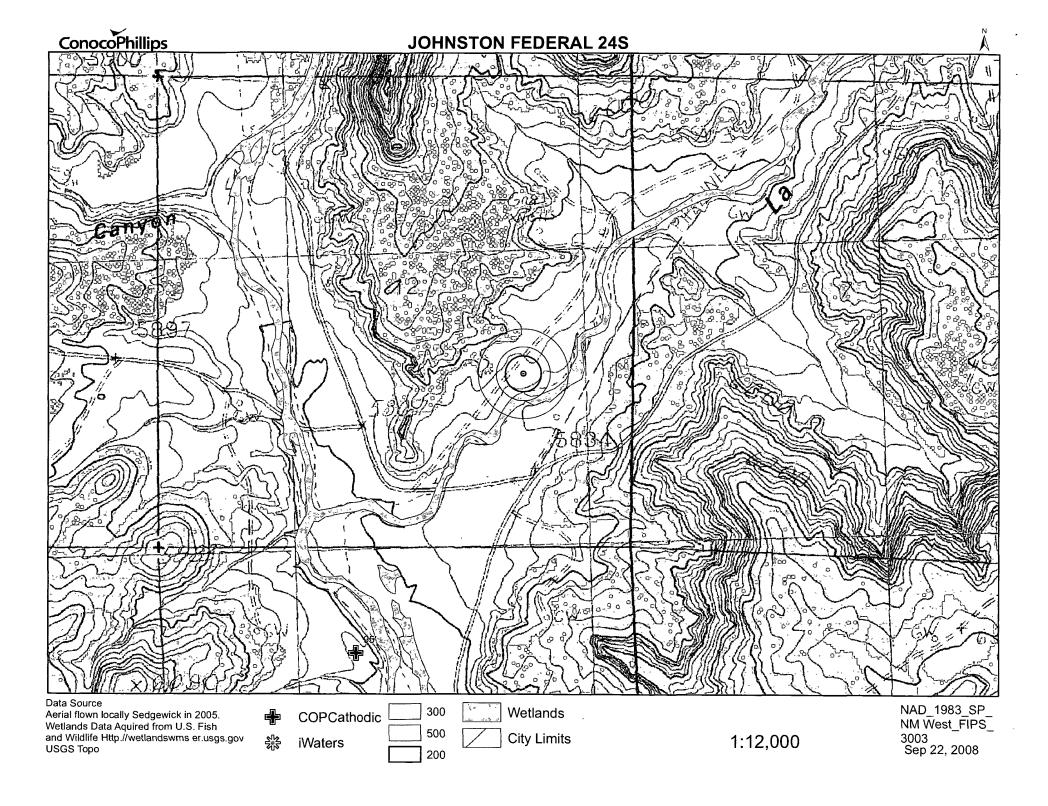
NATION V.	
NAD27 X: Y: Zone: Search Radius:	Name of the second seco
County: Basin: Number: Suffix	Control and State and State Control and State
Owner Name: (First) (Last) C Non-Domestic C D	omestic 6 All
POD // Surface Data Report Avg Depth to Water Report Water Colu	mn Report
Clear Form WATERS Menu Heip	

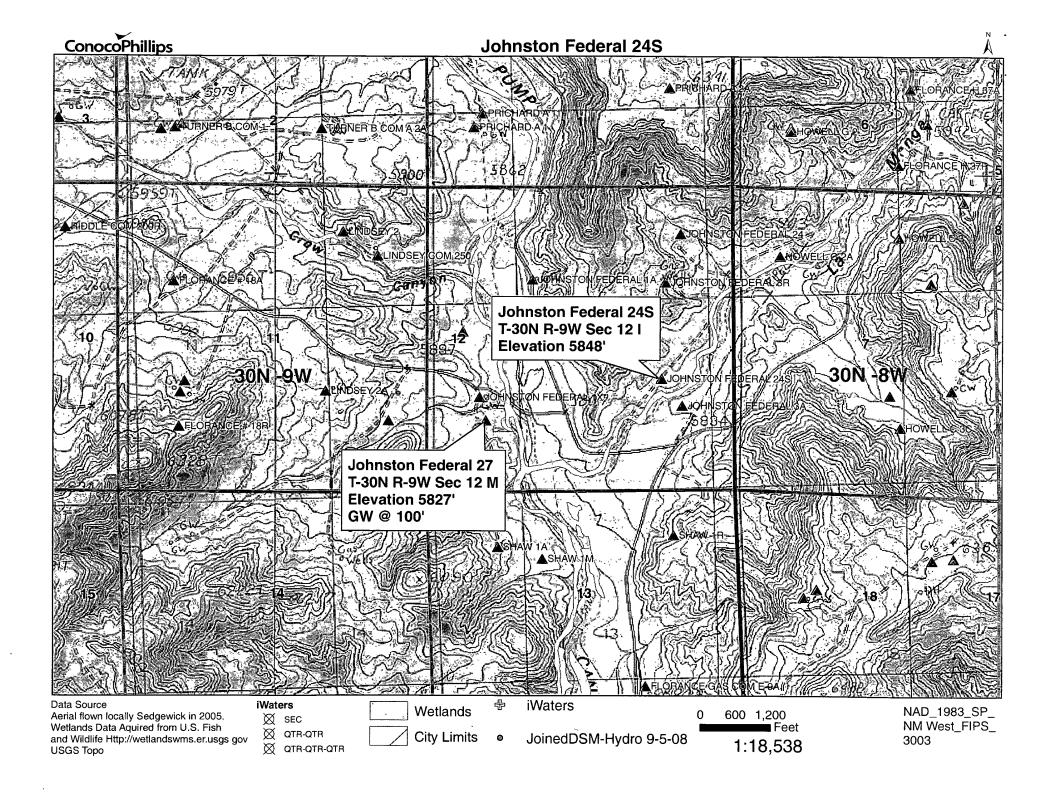
WATER COLUMN REPORT 08/21/2008

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

	(quarter	s are	bigge	st to	smallest)			Depth	Depth	Water	(in feet)
POD Number	Tws	Rng S	ec q o	I G	Zone	x	Y	Well	Water	Column	
SJ 00009	30N	09W 0	6 3					396	60	336	
SJ 00140	30N	09W 2	5 1					10			
SJ 02744	30N	09W 2	5 2 4	1 4				21	10	11	
SJ 02092	30N	09W 3	3 4 4	1 4				32	15	17	
SJ 02170	30N	09W 3	5 1 4	1 3				20	10	10	
SJ 03565	30N	09W 3	5 2 4	! 3				20			
SJ 00091	30N	09W 3	5 3 2	2 2				34			
SJ 01330	30N	09W 3	6 1 1	2				20	5	15	
SJ 02298	30N	09W 3	6 3					15	4	11	-

Record Count: 9





#27.30-045-27770

678

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

Operator MERIDIAN O. 1 Location: Unit Sec. 12 Twp Rng 9
Name of Well/Wells or Pipeline Serviced Johnston Fecheral HI-X, #27
(PS# 2316
Elevation Completion Date 10-29-91 Total Depth 400 Land Type
Casing Strings, Sizes, Types & Depths 80 of 8" PVC Surface
CASING:
If Casing Strings are cemented, show amounts & types used Yes with
26 SACKS OF NEAT CEMENT
If Cement or Bentonite Plugs have been placed, show depths & amounts used. 80 DEED TO 60' DUG
Depths & thickness of water zones with description of water: Fresh, Clear,
Salty, Sulphur, Etc. 100' Fresh
Sairy, Suiphur, Etc. 100 P123.
Depths gas encountered:
Ground bed depth with type & amount of coke breeze used: 400' PEEP
with 6000 lbs of Asbury 4518 Flo Core
Depths anodes placed: 380372,364,356348,540,332,324,316,308,191,183
Depths vent pipes placed: 380'
Vent pipe perforations: bottom 240'
Remarks: FEB2 41992
OIL CON. DIV
· · · · · · · · · · · · · · · · · · ·

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.

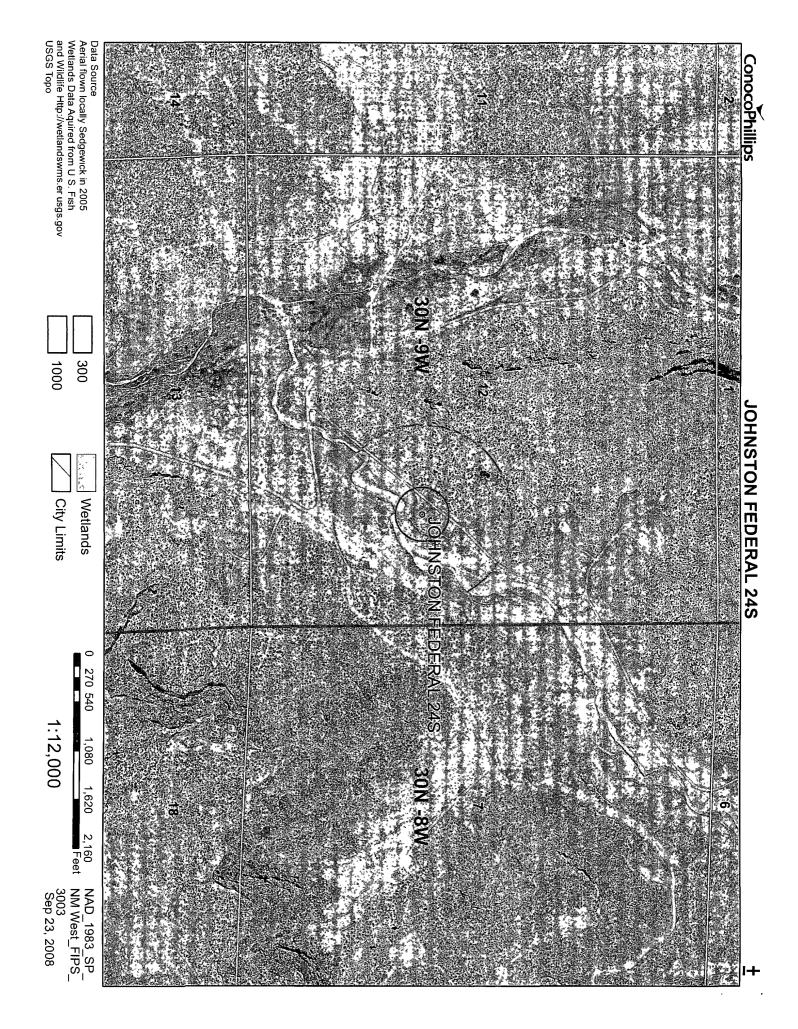
Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee. If Federal or Indian, add Lease Number.

A Section of the sect

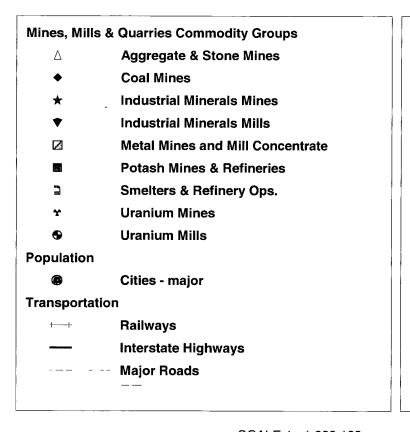
Form 3160-4 (November 1983) ('s.meriy 9-330)		RTME	NITED ENT O	F TH	E IN	TERIOF		sti uci	ATE* other in none or se side	5 19	Ехріге	Bures Aug	ed. 180 No. 1004-0137 131, 1985 100 AND SERIAL NO	
WELL CO	MPLETION	N OR	RECO	MPLETI	ON I	REPORT	AN	D LO	31*				TTRE OR TRIBE NAME	
1a. TYPE OF WEL	L: o	11.	(18)					1733 11		-	MT AGRI	KKMEN	T NAMB	
b. TYPE OF COM		RILL L.	WELL	∴ Di	:Y	Other		~`." i ^i	·	10.0		- C (1		
WHI.		EFE	BICK E	DIFF	R 🗌	Other	13	FARM	7	OSN	uR UR	LEASE	NAMB	
2. NAME OF OPERAT	ros I Texas Pe	trole	um Corr).	- <i>F</i>	tten. Ke	en W	hite		Jo	hnst	on F	edera1	
3. ADDRESS OF UPE	RATOR		· · · · · · · · · · · · · · · · · · ·							27				
P.O.	Box 2120,	Hous	ton, Tx	77252	2-2120	DE	G	IW	Ef			D P00	L, OR WILDCAT	
4. LOCATION OF WE	1250 FSI	tion clea	of Full	sccordance	with an	y spec requi	CIRCH	(4)					tland Coal	
			0 1 112					8 1991	-	11.	BEC., T., DR AREA	B., Y.,	ON BLOCK AND SURVEY	
At top prod. Int	ervat reported	DEIOW					~~		11.7	12	2-30N	-914		
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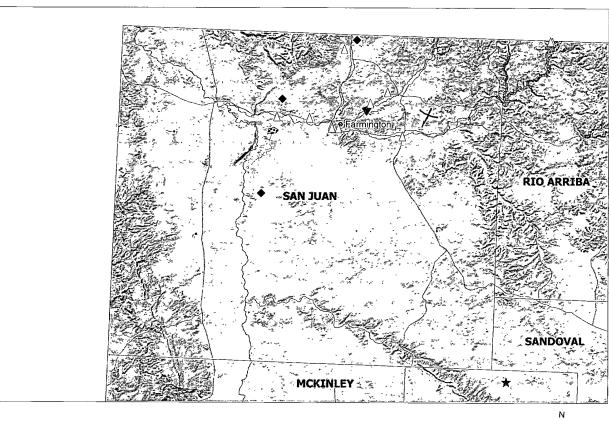
*(See Instructions and Spaces for Additional Data on Reverse Side)

Fitle 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



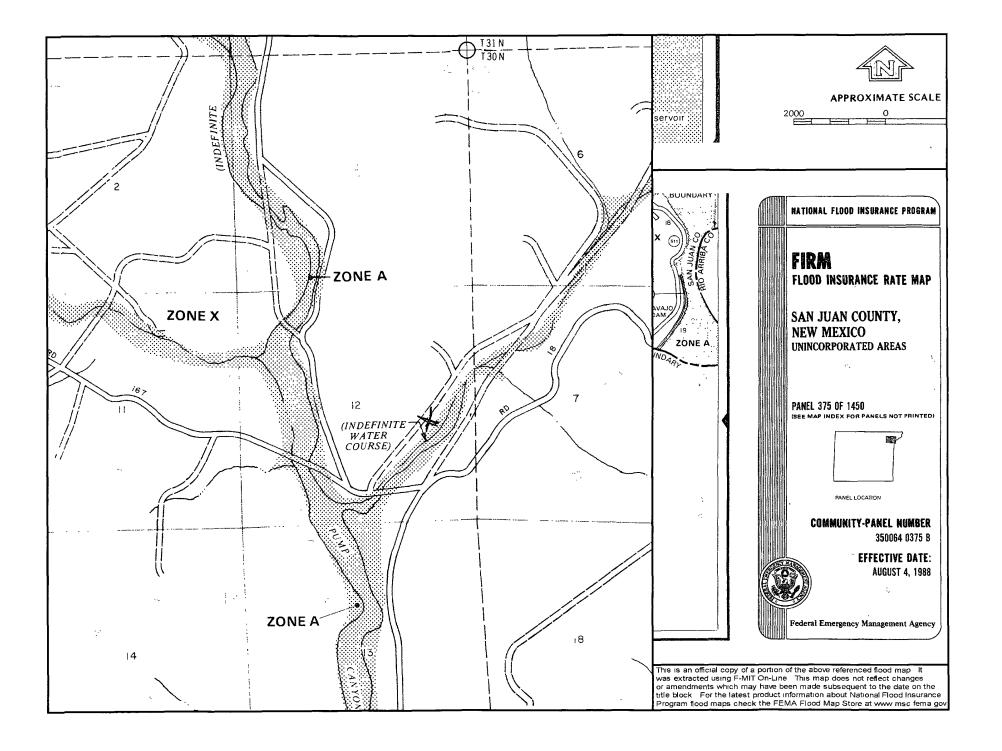
Johnston Federal 24S Mines, Mills and Quarries Web Map











Hydrogeological Report for Johnston Federal 24S

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 Johnston Federal 24S 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 is not within a 100-year floodplain area as indicated on the FEMA Map. The Cathodic well data from the Johnston Federal 27 has an elevation of 5827' and groundwater depth of 100'. The subject well has an elevation of 5848' which is 21' greater than the Johnston Federal 27, 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 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 kellv@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 -

Form C-102 Revised October 12, 2005

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

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

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

OIL CONSERVATION DIVISION

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

297 UL -6 PM 2: 48

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

		V	VELL L	OCATIO	N AND AC	REAGE DEDI	CATION_P	AI.		
30-045- /	Number	10	716	"Pool Code 29/77200	o	FRUITLAND COAL/PICTURED CLIFF				
Property Code Property Name							* Well Number			
OGRID No.						Operator Name			24S	
14538			BURLINGTON RESOURCES O&G CO LP					5848'		
¹⁰ Surface Location										
UL ar lot ao.	Section 12	Township 30N	Range 9W	Lot Idn	Feet from the 1910'.	North/South line	Feet from the 1220°	East/West line	County SAN JUAN	
	12	304		om Hole	 	SOUTH SOUTH From South		EAST	SAN JUAN	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Bast/Vest line	County	
I. Dedicated Acre			□ Joint or	In 610	** Consolidation	Code	¹⁵ Order No.			
320 acre		į	Joint of	Merica	Consolination	Code	- Order no.			
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LATITUDE: 36.82368°N LONGITUDE: 107.72735°W DATUM: NAD 83

SLOPES TO BE CONSTRUCTED TO

MATCH THE ORIGINAL CONTOURS

AS CLOSE AS POSSIBLE.

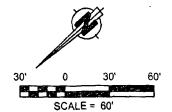
BURLINGTON RESOURCES O&G CO LP

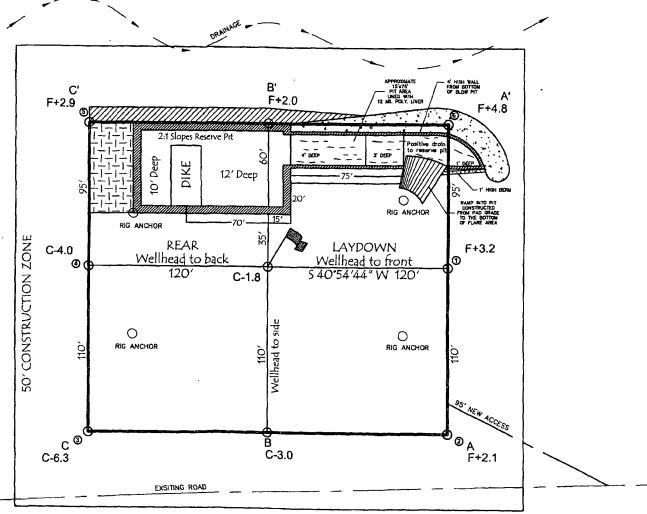
JOHNSTON FEDERAL #24S 1910' FSL & 1220' FEL

LOCATED IN THE NE/4 SE/4 OF SECTION 12, T30N, R9W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO **GROUND ELEVATION: 5848', NAVD 88**

FINISHED PAD ELEVATION: 5846.6' NAVD 88





330' x 400' = 3.03 ACRES OF DISTURBANCE

SCALE: 1" = 60" JOB No.: COPC055 DATE: 12/11/06

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 PIPEUNES. 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.



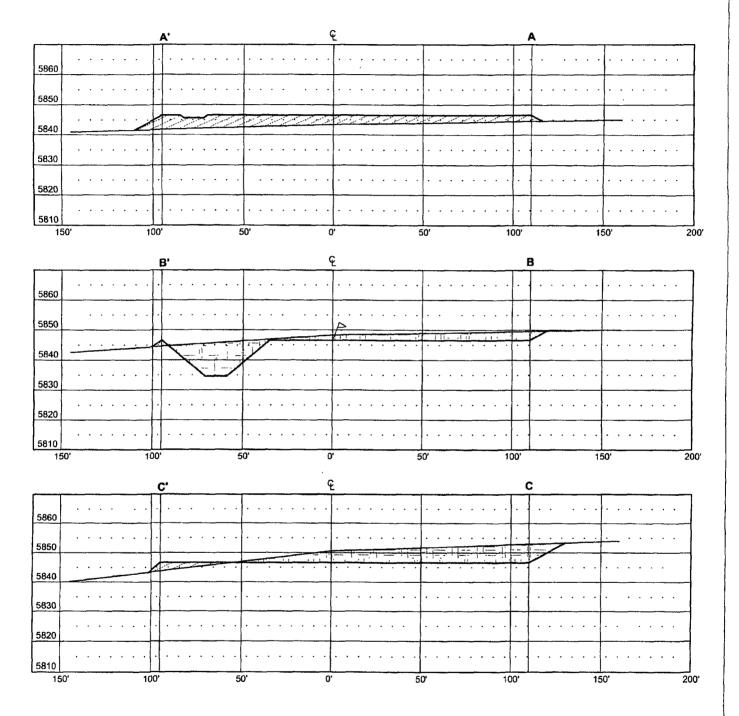
Russell Surveying 1409 W. Aztec Blvd. #5 Aztec, New Mexico 87410 (505) 334-8637

LATITUDE: 36.82368°N LONGITUDE: 107.72735°W DATUM: NAD 83

BURLINGTON RESOURCES O&G CO LP

JOHNSTON FEDERAL #24S 1910' FSL & 1220' FEL LOCATED IN THE NE/4 SE/4 OF SECTION 12, T30N, R9W, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO **GROUND ELEVATION: 5848', NAVD 88**

FINISHED PAD ELEVATION: 5846.6', 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.: COPC055 DATE: 12/11/06





Russell Surveying 1409 W. Aztec Blvd. #5 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:

- 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:
 - 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.

EPA SW-846 8021B or 8260B	0.2
EPA SW-846 8021B or 8260B	50
EPA SW-846 418.1	2500
EPA SW-846 8015M	<u>√5</u> 6Q
EPA 300.1	(1000/5)00
-	EPA SW-846 8021B or 8260B EPA SW-846 418.1 EPA SW-846 8015M

- 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.